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NWS YORKTOWN
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NAVY WORK AND SAMPLING U. S. NAVY SUPPLY CENTER AND USCG RESERVE TRAINING CENTER WITH TRANSMITTAL NWS YORKTOWN VA
10/12/1995
MILLER-STEPHENSON AND ASSOCIATES, P.C.

MULLER-STEPHENSON & ASSOCIATES, P.C.

Engineering, Surveying, Planning & Environmental Sciences

NSFO NAVY WORK & SAMPLING
U.S. NAVY SUPPLY CENTER &
USCG RESERVE TRAINING CENTER

YORKTOWN, VIRGINIA

NSFO NAVY WORK & SAMPLING
U.S. NAVY SUPPLY CENTER &
USCG RESERVE TRAINING CENTER

YORKTOWN, VIRGINIA

MSA PROJECT NUMBER S092G

OCTOBER 12, 1995

PREPARED FOR:

U.S. COAST GUARD, RTC
MS. LYNN A. DANIELS, P.E.
CHIEF, ENVIRONMENTAL SAFETY BRANCH
BUILDING 260, ROOM 211
YORKTOWN, VIRGINIA 23690-5000

PREPARED BY:

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October 12, 1995

USCG, RTC
Ms. Lynn A. Daniels, P.E.
Chief, Environmental Safety Branch
Building 260, Room 211
Yorktown, Virginia 23690-5000

RE: NSFO Navy Work & Sampling
US Navy Supply Center & USCG-RTC
MSA Project # S092G

Dear Ms. Daniels:

We have completed the monitoring well sampling and analyses at the above referenced facilities. Enclosed are the laboratory Certificate of Analysis and field records for your review. A description of the sampling event and results follows.

1. One (1) liquid sample was collected from each of six groundwater monitoring wells located at both the Naval Supply Center and the USCG-RTC. The seventh well to be sampled, as outlined in the Statement of Work (8/2/95), was declined by yourself based on field conditions at the time of sampling and was not collected.

2. Samples were collected using either existing dedicated bailers or new bailers supplied by MSA. The Pier wells (CGMW-2, CGMW-5) had dedicated bailers although the bailer at CGMW-5 had apparently become unsecured and lost to the bottom of the well. New 1 ft Teflon bailers were dedicated to CGMW-5, and CGMW-11. CGMW-1, NMW-4, and NMW-12 were outfitted by the Navy with free product recovery piping and were therefore, sampled with new Teflon bailers but not dedicated with them.

3. The depth to the water table was measured except where free product was encountered; in which case the depth to free product was estimated.

4. Free product was encountered in all but the Pier wells (CGMW-5, CGMW-2), which contained only groundwater. A slight oil sheen was observed on the purge water from CGMW-5 which also had a petroleum odor. CGMW-2 had no noticeable petroleum odors. NMW-4 had possibly been recently pumped of free product, although, oil droplets were recovered from bailed water samples. The recovery piping and well casing at that well were also coated with free product.

5. Collected liquid samples were placed in laboratory prepared containers and chilled on ice enroute to the analytical lab (ETS, Inc.).

6. Due to the unexpected lack of free product at the Pier wells, water samples were collected instead. Laboratory analytical procedures for testing water, however, required more sample volume and different sample containers with preservatives than that required for the testing of free product. Therefore, another set of samples were collected from the Coast Guards' Pier wells using the methods appropriate for groundwater.

7. Analysis of the groundwater sample from CGMW-2 was declined by yourself.

Odors detected in the field at CGMW-5 reveal that the groundwater represented by this downgradient well are contaminated by petroleum products. Additionally, water samples from the upgradient well NMW-4 had oil droplets and a petroleum odor which indicates similar contamination. Based on analytical laboratory results from these water samples, it appears that the groundwater represented by CGMW-5 contains a moderate level of organic halides (56 mg/L). Reported volatile and semivolatile constituents were of insufficient concentration to account for this level of TOX, although it is believed that tidal interference from the brackish York River waters may have contributed to the elevated TOX at the pier well. This is supported by the lower level of TOX (11 mg/L) found in groundwater at the upgradient fuel farm well, NMW-4, where no tidal influence is expected.

The groundwater at both CGMW-5 and NMW-4 had small concentrations of poly-nuclear aromatics (PNA) that would be consistent with those in waters contaminated by fuel oil. The chromatograms from these samples reveal high levels of elemental sulfur. A few semivolatile Tentatively Identified Compounds (TICs) were also on the chromatograms. TICs are compounds that are not calibrated for as part of the test procedure but are observed during the test. The PNAs, high sulfur, and reported TICs suggest that the waters are contaminated by a heavy petroleum hydrocarbon such as jet fuel or other kerosene type petroleum distillates and is certainly consistent with bunker oil. Another possible source of this contamination might be creosote, which contains most of the detected PNAs and sulfurous TICs.

Metals were reported in both groundwater samples and their presence is also consistent with heavy petroleum hydrocarbons. The downgradient pier well had higher concentrations of more metals than those reported at the upgradient fuel farm well.

The remaining three samples were collected from wells CGMW-1, CGMW-11, and NMW-12. The sampled material comprised a heavy petroleum-based free product. Because of their oily nature, the samples were highly diluted (1:250) to facilitate injection into the laboratory analytical instrument. This dilution raised the detection limit to a level that may mask the detection of minor components present within samples. With these higher detection limits, practically all of the volatile and seimvolitile compounds were not seen. A component of coal tar and creosote (2-methylnapthalene), however, was reported above the detection limit at CGMW-1 and NMW-12. This compound could support the possibility of a second source of contamination but its' presence alone is not enough to qualify this.

Higher concentrations of halogenated compounds were detected in the free product oil samples than in the groundwater samples. Nevertheless, the reported levels of TX in the oil at CGMW-11 amd NMW-12 are not consistent with large concentrations ($\geq$ 1000 mg/L) of halogenated materials such as halogenated solvents or pesticides found within waste oils. TX was much higher at CGMW-1 and may be associated with these types of materials or chlorinated oils such as PCB's.

Metals were reported in all three free product oil samples. Although fewer types of metals were reported in the oil than in the groundwater, they were very consistent in concentration suggesting similar sources. Most of the metals discovered in the groundwater were not detected in the oil samples. Similarly, one of the metals reported in the oil was not detected in the groundwater.

Thank you for allowing MSA to continue serving your environmental needs. Please feel free to contact me with any questions or clarification regarding this information.

Sincerely,

Charles H. Hall
Hydrogeologist

CHH/kkb

Enclosures

APPENDICES

APPENDIX A

Analytical Data & Chromatograms

ENVIRONMENTAL TESTING SERVICES, INC.
888 Norfolk Square • Norfolk, Virginia 23502 • (804) 461-ETSI (3874) • Fax (804) 461-0379

09/28/1995

CERTIFICATE OF ANALYSIS

CLIENT
MILLER STEPHENSON & ASSOCIATES
5033 ROUSE DRIVE
VIRGINIA BEACH, VA 23462

ATTN: CHARLES HALL

SAMPLE DESCRIPTION
DESIGNATION: C GMW-5
SAMPLE ID: C GMW-5
PO# / QUOTE#:
MATRIX: GWATER
DATE COLLECTED: 09/06/1995
COLLECTED BY: C. HALL

LAB NUMBER: 9506090

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX ACENAPHTHENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ACENAPHTHYLENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ACETOPHENONE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2-ACETYLAMINOFLUORENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 4-AMINOBIPHENYL	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX ANILINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ANTHRACENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ARAMITE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX BENZO(B)FLUORANTHENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX BENZO(K)FLUORANTHENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX BENZO(G,H,I)PERYLENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX BENZO(A)PYRENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX BENZYL_ALCOHOL	U	UG/L	4	09/19/1995	TDO

Gary J. Hall
LABORATORY MANAGER/ASST. LABORATORY MANAGER

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LAB NUMBER: 9506090

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX BENZO(A)ANTHRACENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLOROETHOXY)METHANE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLOROETHYL)ETHER	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLORO-1-METHYLETHYL)ETHER	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX bis(2-ETHYLHEXYL)PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 4-BROMOPHENYLPHENYLETHER	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX BUTYLBENZYL_PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-CHLOROANILINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX CHLOROBENZILATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX p-CHLORO-m-CRESOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 2-CHLORONAPHTHALENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 2-CHLOROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 4-CHLOROPHENYL_PHENYL_ETHER	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX CHRYSENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX m-CRESOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX o-CRESOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-CRESOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 4,4'-DDD	U	UG/L	4	09/19/1995	TDO

Guy J. Stall

LABORATORY MANAGER/ASST. LABORATORY MANAGER

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LAB NUMBER: 9506090

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX 4,4'-DDE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 4,4'-DDT	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DIALLATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX DIBENZ(A,H)ANTHRACENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DIBENZOFURAN	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX Di-n-BUTYL_PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX o-DICHLOROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX m-DICHLOROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-DICHLOROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 3,3'-DICHLOROBENZIDINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 2,4-DICHLOROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 2,6-DICHLOROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DIETHYL_PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX O,O-DIETHYL O-2-PYRAZINYL	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX DIMETHOATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX p-(DIMETHYLAMINO)AZOBENZENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 7,12-DIMETHYLBENZ(A)ANTHRACENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 3,3-DIMETHYLBENZIDINE	U	UG/L	20	09/19/1995	TDO

Gary J. Hall
LABORATORY MANAGER/ASST. LABORATORY MANAGER

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LAB NUMBER: 9506090

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX a-,a-DIMETHYLPHENETHYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2,4-DIMETHYLPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DIMETHYL_PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX m-DINITROBENZENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 4,6-DINITRO-o-CRESOL	U	UG/L	40	09/19/1995	TDO
8270-APPENDIX IX 2,4-DINITROPHENOL	U	UG/L	40	09/19/1995	TDO
8270-APPENDIX IX 2,4-DINITROTOLUENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2,6-DINITROTOLUENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DINOSEB	U	UG/L	40	09/19/1995	TDO
8270-APPENDIX IX DI-n-OCTYL_PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DIPHENYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX DISULFOTON	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX ETHYL_METHANESULFONATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX FAMPHUR	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX FLUORANTHENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX FLUORENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROBUTADIENE	U	UG/L	4	09/19/1995	TDO

Guy J. Hell

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX HEXACHLOROCYCLOPENTADIENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROETHANE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROPHENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROPROPENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX INDENO(1,2,3-CD)PYRENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ISODRIN	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX ISOPHORONE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ISOSAFROLE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX KEPONE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX METHAPYRILENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 3-METHYLCHOLANTHRENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX METHYL_METHANESULFONATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2-METHYLNAPHTHALENE	4	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX METHYL_PARATHION	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX NAPHTHALENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 1,4-NAPHTHOQUINONE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 1-NAPHTHYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2-NAPHTHYLAMINE	U	UG/L	20	09/19/1995	TDO

Guy J. Hall

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX o-NITROANILINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX m-NITROANILINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-NITROANILINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX NITROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX o-NITROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-NITROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX NITROQUINOLINE-1-OXIDE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODI-N-BUTYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIETHYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIMETHYLAMINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIPHENYLAMINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIPROPYLAMINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOMETHYLETHYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOMORPHOLINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOPIPERIDINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOPYRROLIDINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 5-NITRO-o-TOLUIDINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PARATHION	U	UG/L	20	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX PENTACHLOROBENZENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PENTACHLORONITROBENZENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PENTACHLOROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX PHENACETIN	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX PHENANTHRENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX PHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-PHENYLENEDIAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PHORATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2-PICOLINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PRONAMIDE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PYRENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX SAFROLE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 1,2,4,5-TETRACHLOROBENZENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2,3,4,6-TETRACHLOROPHENOL	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX TETRAETHYL_DITHIOPYROPHOSPHATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX o-TOLUIDINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 1,2,4-TRICHLOROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 2,4,5-TRICHLOROPHENOL	U	UG/L	4	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX 2,4,6-TRICHLOROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 0,0,0-TRIETHYL_PHOSPHOROTHIOATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX sym-TRINITROBENZENE	U	UG/L	20	09/19/1995	TDO
9020A TOTAL_ORGANIC_HALIDES	56	UG CL/L	10	09/12/1995	JK
TOTAL ANTIMONY_6010	U	MG/L	0.048	09/14/1995	MS
TOTAL ARSENIC_6010	0.242	MG/L	0.065	09/15/1995	RM
TOTAL BERYLLIUM_6010	U	MG/L	0.002	09/14/1995	MS
TOTAL CADMIUM_6010	0.02	MG/L	0.01	09/15/1995	RM
TOTAL COPPER_6010	U	MG/L	0.02	09/14/1995	MS
TOTAL CHROMIUM_6010	0.096	MG/L	0.013	09/15/1995	MS
TOTAL LEAD_6010	U	MG/L	0.05	09/15/1995	RM
TOTAL NICKEL_6010	0.026	MG/L	0.013	09/15/1995	MS
TOTAL SELENIUM_6010	U	MG/L	0.048	09/15/1995	RM
TOTAL SILVER_6010	U	MG/L	0.02	09/14/1995	MS
TOTAL THALLIUM_6010	U	MG/L	0.15	09/18/1995	RM
TOTAL ZINC_6010	0.262	MG/L	0.041	09/15/1995	RM
TOTAL MERCURY_7470	U	UG/L	0.2	09/12/1995	JK
8240 ACETONE	U	UG/L	10	09/20/1995	UL

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LAB NUMBER: 9506090

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8240 BENZENE	U	UG/L	2	09/20/1995	UL
8240 BROMODICHLOROMETHANE	U	UG/L	2	09/20/1995	UL
8240 BROMOFORM	U	UG/L	2	09/20/1995	UL
8240 BROMOMETHANE	U	UG/L	2	09/20/1995	UL
8240 2-BUTANONE	U	UG/L	10	09/20/1995	UL
8240 CARBONDISULFIDE	U	UG/L	2	09/20/1995	UL
8240 CARBON TETRACHLORIDE	U	UG/L	2	09/20/1995	UL
8240 CHLOROBENZENE	U	UG/L	2	09/20/1995	UL
8240 CHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 2-CHLOROETHYL VINYL ETHER	U	UG/L	2	09/20/1995	UL
8240 CHLOROFORM	U	UG/L	2	09/20/1995	UL
8240 CHLOROMETHANE	U	UG/L	2	09/20/1995	UL
8240 DIBROMOCHLOROMETHANE	U	UG/L	2	09/20/1995	UL
8240 1,1-DICHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 1,2-DICHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 1,1-DICHLOROETHENE	U	UG/L	2	09/20/1995	UL
8240 trans-1,2-DICHLOROETHENE	U	UG/L	2	09/20/1995	UL
8240 1,2-DICHLOROPROPANE	U	UG/L	2	09/20/1995	UL

Guy J. Hall
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8240 cis-1,3-DICHLOROPROPENE	U	UG/L	2	09/20/1995	UL
8240 trans-1,3-DICHLOROPROPENE	U	UG/L	2	09/20/1995	UL
8240 ETHYLBENZENE	U	UG/L	2	09/20/1995	UL
8240 2-HEXANONE	U	UG/L	10	09/20/1995	UL
8240 4-METHYL-2-PENTANONE	U	UG/L	2	09/20/1995	UL
8240 METHYLENE CHLORIDE	U	UG/L	10	09/20/1995	UL
8240 STYRENE	U	UG/L	2	09/20/1995	UL
8240 1,1,2,2-TETRACHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 TETRACHLOROETHENE	U	UG/L	2	09/20/1995	UL
8240 TOLUENE	U	UG/L	2	09/20/1995	UL
8240 1,1,1-TRICHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 1,1,2-TRICHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 TRICHLOROETHENE	U	UG/L	2	09/20/1995	UL
8240 VINYL ACETATE	U	UG/L	2	09/20/1995	UL
8240 VINYL CHLORIDE	U	UG/L	2	09/20/1995	UL
8240 TOTAL XYLENES	U	UG/L	2	09/20/1995	UL

U = NOT DETECTED ABOVE QUANTITATION LIMIT

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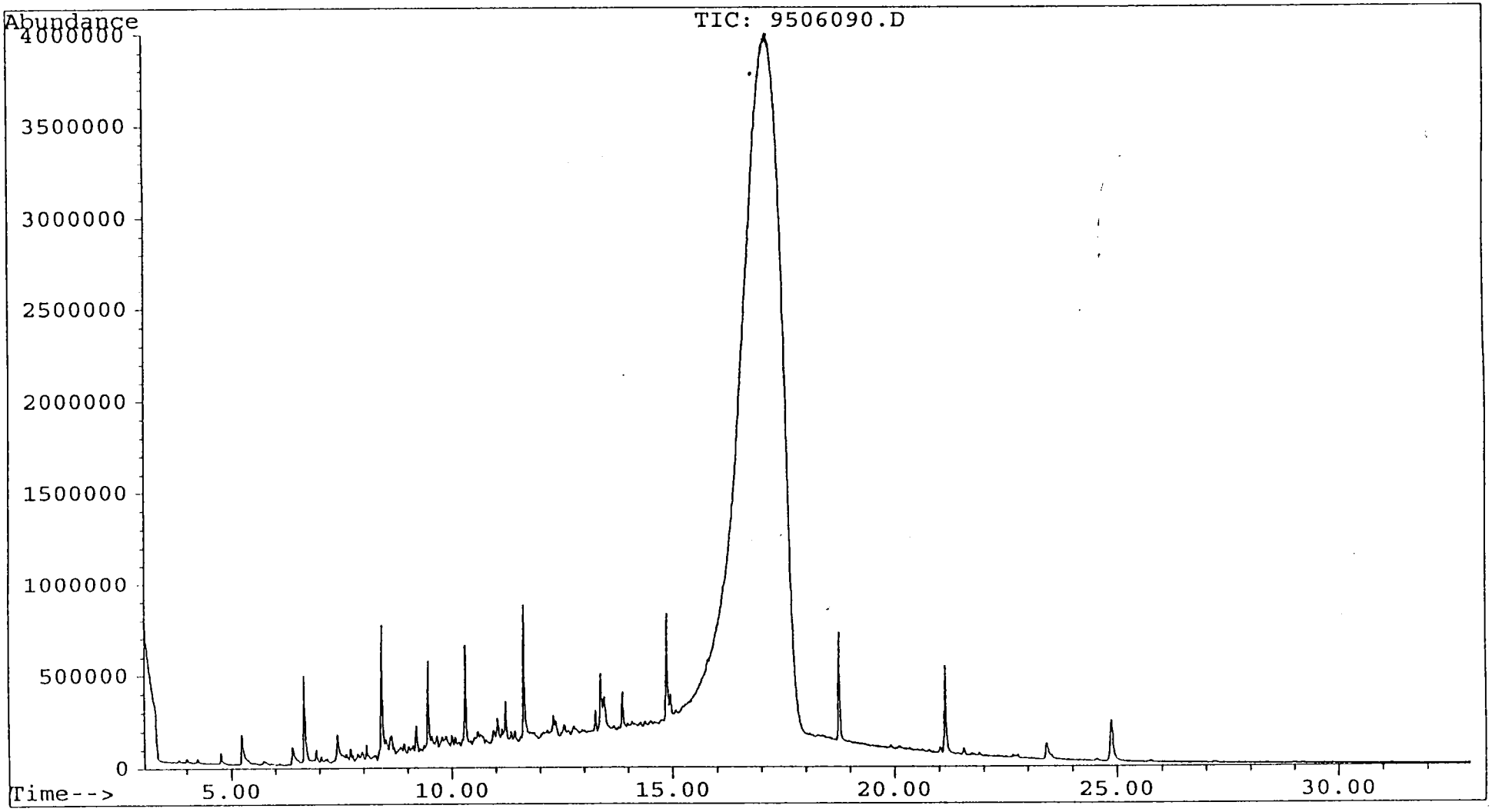
CGMW-5
(pier, groundwater)

File : C:\HPCHEM\1\DATA\15SEPT95\9506090.D
Operator : Teena Oliver
Acquired : 15 Sep 95 8:29 pm using AcqMethod BNAEPA
Instrument : 5972
Sample Name: 8270 Liquid (GPC cleanup) ext 9/14/95 ak
Misc Info :
Vial Number: 3

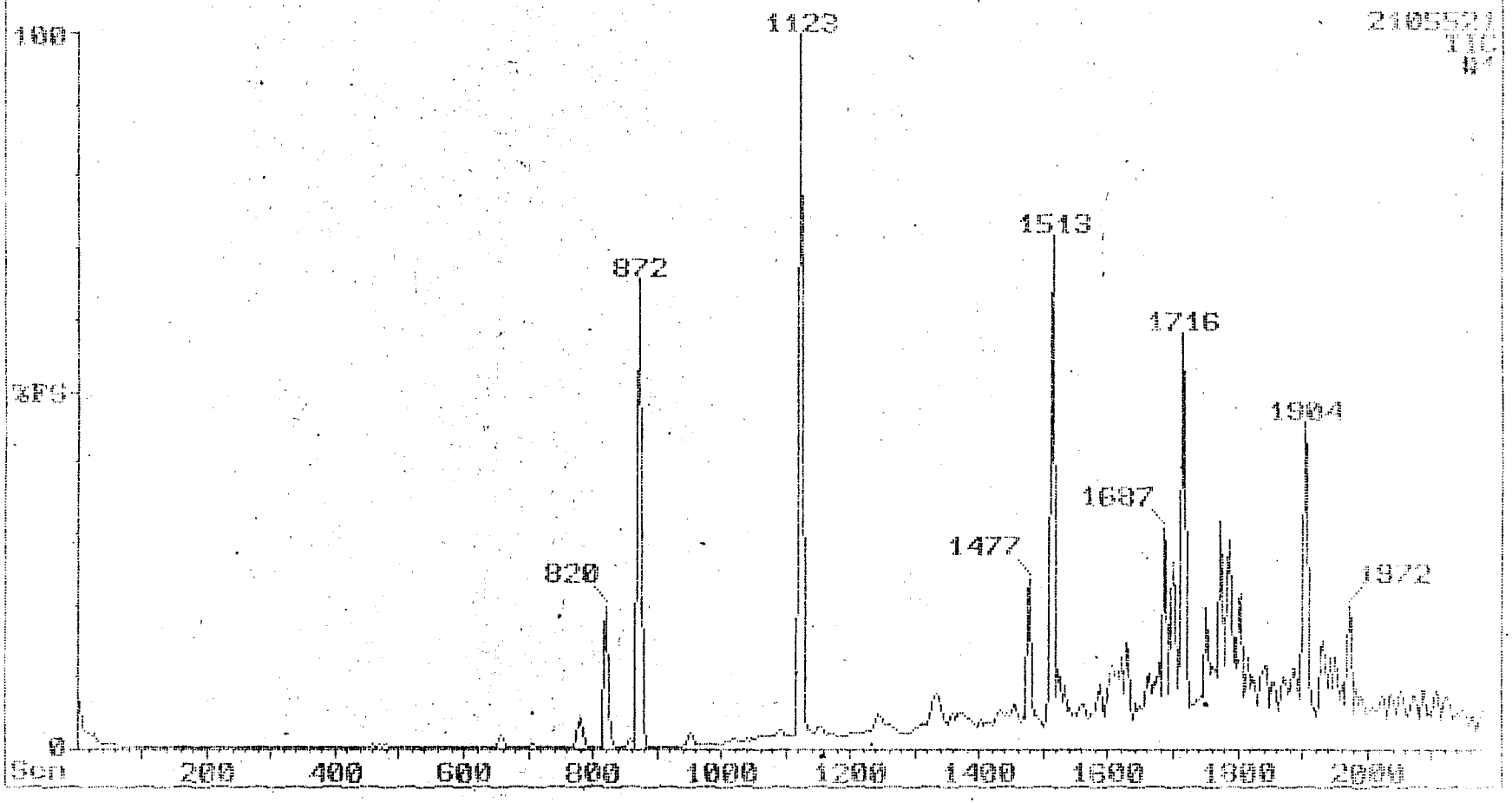


CGM
(pier; ground water)

VG LAB-BASE UNIVERSAL LABORATORIES 09/20/1995 16:15

Sample:ETS MJM Instrument:TRIO-1

VG234



Semivolatile Organics Analysis Data Sheets
Tentatively Identified Compounds

Lab Name: ETSI
Matrix: soil/water WATER
%Moisture: NA
Concentrated Extract Vol: 1ml
Injection Vol: 1ul

Lab Sample ID: CGMW-5 9506090
Lab File ID: 9506090
Date Extracted: 9/14/95
Date Analyzed: 9/15/95
Dilution Factor: 1:2

Number TICs found: 3

Concentration Units: ug/L

	CAS Number	Compound Name	RT min	EST Conc	Q
1		Sulfur containing hydrocarbon	9.47	34.68	
2		methylated hydrocarbon	13.87	20.38	
3		hydrocarbamide	23.42	24.40	
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Compounds that are Calibrated for but are not on the 625 method list:

1					
2					
3					
4					

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09/28/1995

CERTIFICATE OF ANALYSIS

CLIENT
MILLER STEPHENSON & ASSOCIATES
5033 ROUSE DRIVE
VIRGINIA BEACH, VA 23462

ATTN: CHARLES HALL

SAMPLE DESCRIPTION
DESIGNATION: N MW-4
SAMPLE ID: N MW-4
PO# / QUOTE#:
MATRIX: GWATER
DATE COLLECTED: 09/06/1995
COLLECTED BY: C. HALL

LAB NUMBER: 9506091

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX ACENAPHTHENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ACENAPHTHYLENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ACETOPHENONE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2-ACETYLAMINOFLUORENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 4-AMINOBIPHENYL	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX ANILINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ANTHRACENE	9	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ARAMITE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX BENZO(B)FLUORANTHENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX BENZO(K)FLUORANTHENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX BENZO(G,H,I)PERYLENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX BENZO(A)PYRENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX BENZYL_ALCOHOL	U	UG/L	4	09/19/1995	TDO

LABORATORY MANAGER/ASST. LABORATORY MANAGER

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8270-APPENDIX IX BENZO(A)ANTHRACENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLOROETHOXY)METHANE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLOROETHYL)ETHER	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLORO-1-METHYLETHYL)ETHER	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX bis(2-ETHYLHEXYL)PHTHALATE	4	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 4-BROMOPHENYLPHENYLETHER	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX BUTYLBENZYL_PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-CHLOROANILINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX CHLOROBENZILATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX p-CHLORO-m-CRESOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 2-CHLORONAPHTHALENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 2-CHLOROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 4-CHLOROPHENYL_PHENYL_ETHER	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX CHRYSENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX m-CRESOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX o-CRESOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-CRESOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 4,4'-DDD	U	UG/L	4	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX 4,4'-DDE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 4,4'-DDT	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DIALLATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX DIBENZ(A,H)ANTHRACENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DIBENZOFURAN	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DI-n-BUTYL_PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX o-DICHLOROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX m-DICHLOROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-DICHLOROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 3,3'-DICHLOROBENZIDINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 2,4-DICHLOROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 2,6-DICHLOROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DIETHYL_PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX O,O-DIETHYL O-2-PYRAZINYL	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX DIMETHOATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX p-(DIMETHYLAMINO)AZOBENZENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 7,12-DIMETHYLBENZ(A)ANTHRACENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 3,3-DIMETHYLBENZIDINE	U	UG/L	20	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX a-,a-DIMETHYLPHENETHYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2,4-DIMETHYLPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DIMETHYL_PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX m-DINITROBENZENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 4,6-DINITRO-o-CRESOL	U	UG/L	40	09/19/1995	TDO
8270-APPENDIX IX 2,4-DINITROPHENOL	U	UG/L	40	09/19/1995	TDO
8270-APPENDIX IX 2,4-DINITROTOLUENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2,6-DINITROTOLUENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DINOSEB	U	UG/L	40	09/19/1995	TDO
8270-APPENDIX IX DI-n-OCTYL_PHTHALATE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX DIPHENYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX DISULFOTON	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX ETHYL_METHANESULFONATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX FAMPHUR	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX FLUORANTHENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX FLUORENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROBUTADIENE	U	UG/L	4	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX o-NITROANILINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX m-NITROANILINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-NITROANILINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX NITROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX o-NITROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-NITROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX NITROQUINOLINE-1-OXIDE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODI-N-BUTYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIETHYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIMETHYLAMINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIPHENYLAMINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIPROPYLAMINE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOMETHYLETHYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOMORPHOLINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOPIPERIDINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOPYRROLIDINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 5-NITRO-o-TOLUIDINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PARATHION	U	UG/L	20	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX HEXACHLOROCYCLOPENTADIENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROETHANE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROPHENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROPROPENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX INDENO(1,2,3-CD)PYRENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ISODRIN	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX ISOPHORONE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX ISOSAFROLE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX KEPONE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX METHAPYRILENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 3-METHYLCHOLANTHRENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX METHYL_METHANESULFONATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2-METHYLNAPHTHALENE	26	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX METHYL_PARATHION	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX NAPHTHALENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 1,4-NAPHTHOQUINONE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 1-NAPHTHYLAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2-NAPHTHYLAMINE	U	UG/L	20	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX PENTACHLOROBENZENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PENTACHLORONITROBENZENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PENTACHLOROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX PHENACETIN	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX PHENANTHRENE	2	UG/L	10	09/19/1995	TDO
8270-APPENDIX IX PHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX p-PHENYLENEDIAMINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PHORATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2-PICOLINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PRONAMIDE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX PYRENE	23	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX SAFROLE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 1,2,4,5-TETRACHLOROBENZENE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 2,3,4,6-TETRACHLOROPHENOL	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX TETRAETHYL_DITHIOPYROPHOSPHATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX o-TOLUIDINE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX 1,2,4-TRICHLOROBENZENE	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX 2,4,5-TRICHLOROPHENOL	U	UG/L	4	09/19/1995	TDO

Guy L. Hall

LABORATORY MANAGER/ASST. LABORATORY MANAGER

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ENVIRONMENTAL TESTING SERVICES, INC.
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LAB NUMBER: 9506091

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX 2,4,6-TRICHLOROPHENOL	U	UG/L	4	09/19/1995	TDO
8270-APPENDIX IX O,O,O-TRIETHYL_PHOSPHOROTHIOATE	U	UG/L	20	09/19/1995	TDO
8270-APPENDIX IX sym-TRINITROBENZENE	U	UG/L	20	09/19/1995	TDO
9020A TOTAL_ORGANIC_HALIDES	11	UG CL/L	10	09/12/1995	JK
TOTAL ANTIMONY_6010	U	MG/L	0.048	09/14/1995	MS
TOTAL ARSENIC_6010	0.145	MG/L	0.065	09/15/1995	RM
TOTAL BERYLLIUM_6010	U	MG/L	0.002	09/14/1995	MS
TOTAL CADMIUM_6010	U	MG/L	0.01	09/15/1995	RM
TOTAL COPPER_6010	U	MG/L	0.02	09/14/1995	MS
TOTAL CHROMIUM_6010	0.015	MG/L	0.013	09/15/1995	MS
TOTAL LEAD_6010	U	MG/L	0.05	09/15/1995	RM
TOTAL NICKEL_6010	U	MG/L	0.013	09/15/1995	MS
TOTAL SELENIUM_6010	U	MG/L	0.048	09/15/1995	RM
TOTAL SILVER_6010	U	MG/L	0.02	09/14/1995	MS
TOTAL THALLIUM_6010	U	MG/L	0.15	09/18/1995	RM
TOTAL ZINC_6010	U	MG/L	0.041	09/15/1995	RM
TOTAL MERCURY_7470	U	UG/L	0.2	09/12/1995	JK
8240 ACETONE	U	UG/L	10	09/20/1995	UL

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8240 BENZENE	U	UG/L	2	09/20/1995	UL
8240 BROMODICHLOROMETHANE	U	UG/L	2	09/20/1995	UL
8240 BROMOFORM	U	UG/L	2	09/20/1995	UL
8240 BROMOMETHANE	U	UG/L	2	09/20/1995	UL
8240 2-BUTANONE	U	UG/L	10	09/20/1995	UL
8240 CARBONDISULFIDE	U	UG/L	2	09/20/1995	UL
8240 CARBON TETRACHLORIDE	U	UG/L	2	09/20/1995	UL
8240 CHLOROBENZENE	U	UG/L	2	09/20/1995	UL
8240 CHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 2-CHLOROETHYL VINYL ETHER	U	UG/L	2	09/20/1995	UL
8240 CHLOROFORM	U	UG/L	2	09/20/1995	UL
8240 CHLOROMETHANE	U	UG/L	2	09/20/1995	UL
8240 DIBROMOCHLOROMETHANE	U	UG/L	2	09/20/1995	UL
8240 1,1-DICHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 1,2-DICHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 1,1-DICHLOROETHENE	U	UG/L	2	09/20/1995	UL
8240 trans-1,2-DICHLOROETHENE	U	UG/L	2	09/20/1995	UL
8240 1,2-DICHLOROPROPANE	U	UG/L	2	09/20/1995	UL

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8240 cis-1,3-DICHLOROPROPENE	U	UG/L	2	09/20/1995	UL
8240 trans-1,3-DICHLOROPROPENE	U	UG/L	2	09/20/1995	UL
8240 ETHYLBENZENE	U	UG/L	2	09/20/1995	UL
8240 2-HEXANONE	U	UG/L	10	09/20/1995	UL
8240 4-METHYL-2-PENTANONE	U	UG/L	2	09/20/1995	UL
8240 METHYLENE CHLORIDE	U	UG/L	10	09/20/1995	UL
8240 STYRENE	U	UG/L	2	09/20/1995	UL
8240 1,1,2,2-TETRACHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 TETRACHLOROETHENE	U	UG/L	2	09/20/1995	UL
8240 TOLUENE	U	UG/L	2	09/20/1995	UL
8240 1,1,1-TRICHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 1,1,2-TRICHLOROETHANE	U	UG/L	2	09/20/1995	UL
8240 TRICHLOROETHENE	U	UG/L	2	09/20/1995	UL
8240 VINYL CHLORIDE	U	UG/L	2	09/20/1995	UL
8240 TOTAL XYLENES	U	UG/L	2	09/20/1995	UL

U = NOT DETECTED ABOVE QUANTITATION LIMIT

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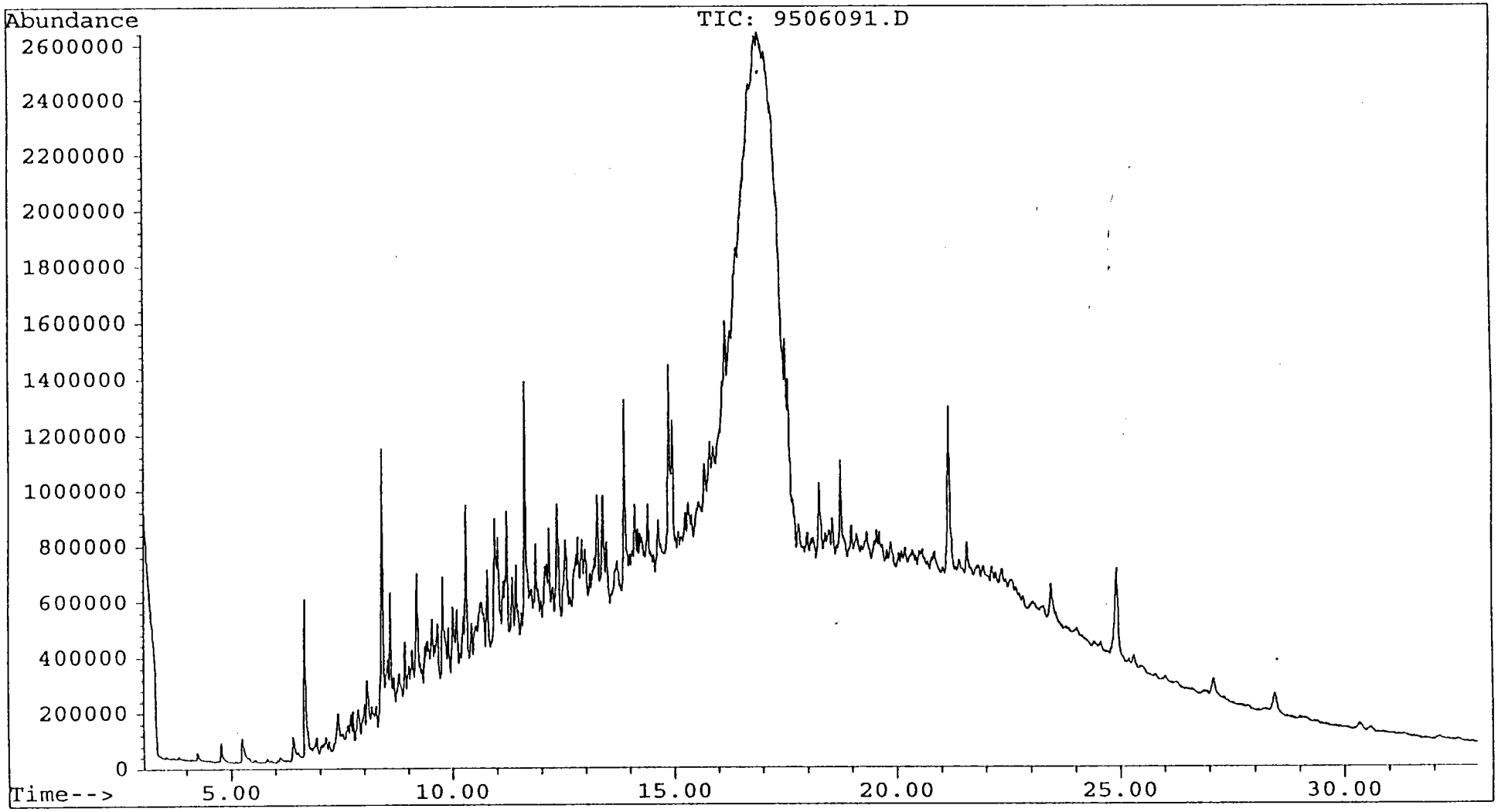
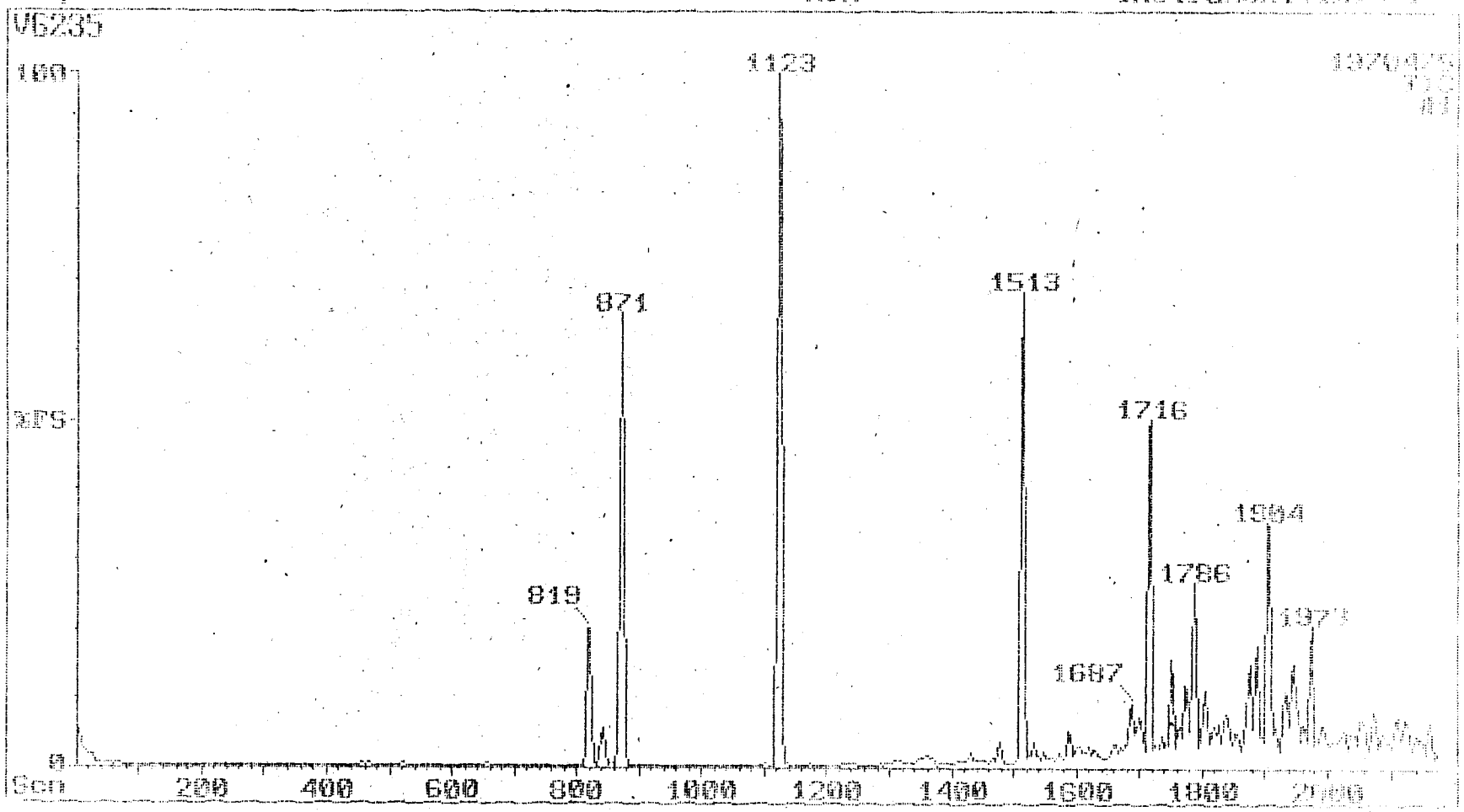
NMW-4
(fuel farm; grand water)

File : C:\HPCHEM\1\DATA\15SEPT95\9506091.D
Operator : Teena Oliver
Acquired : 15 Sep 95 9:09 pm using AcqMethod BNAEPA
Instrument : 5972
Sample Name: 8270 Liquid (GPC cleanup) ext 9/14/95 akm
Misc Info :
Vial Number: 4



NMW-4
(fuel farm; groundwater)

VG LAB-BASE UNIVERSAL LABORATORIES 09/20/1995 17:06
Sample:ETS NJM Instrument:TRIO-1



Semivolatile Organics Analysis Data Sheets
Tentatively Identified Compounds

Lab Name: ETSI
Matrix: soil/water WATER
%Moisture: NA
Concentrated Extract Vol: 1ml
Injection Vol: 1ul

Lab Sample ID: NMW-4 9506091
Lab File ID: 9506091
Date Extracted: 9/14/95
Date Analyzed: 9/15/95
Dilution Factor: 1:2

Number TICs found: 5

Concentration Units: ug/L

	CAS Number	Compound Name	RT min	EST Conc	Q
1		methylated hydrcarbon	9.20	30.70	
2		isomer of dimethylnaphthalene	10.80	28.18	98
3		isomer of dimethylnaphthalene	10.96	32.14	98
4		isomer of dimethylnaphthalene	11.23	34.38	92
5	001921-70-6	2,6,10,14-tetramethyl-pentadecane	13.89	73.66	97
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Compounds that are Calibrated for
but are not on the 625 method list:

1					
2					
3					
4					

ENVIRONMENTAL TESTING SERVICES, INC.

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09/28/1995

CERTIFICATE OF ANALYSIS

CLIENT
MILLER STEPHENSON & ASSOCIATES
5033 ROUSE DRIVE
VIRGINIA BEACH, VA 23462

ATTN: CHARLES HALL

SAMPLE DESCRIPTION
DESIGNATION: C GMW-11
SAMPLE ID: C GMW-11
PO# / QUOTE#:
MATRIX: FUEL
DATE COLLECTED: 09/06/1995
COLLECTED BY: C. HALL

LAB NUMBER: 9506092

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX ACENAPHTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ACENAPHTHYLENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ACETOPHENONE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2-ACETYLAMINOFLUORENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 4-AMINOBIPHENYL	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX ANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ANTHRACENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ARAMITE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX BENZO(B)FLUORANTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZO(K)FLUORANTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZO(G,H,I)PERYLENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZO(A)PYRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZYL_ALCOHOL	U	MG/L	1000	09/19/1995	TDO

Gary J. Hall
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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX BENZO(A)ANTHRACENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLOROETHOXY)METHANE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLOROETHYL)ETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLORO-1-METHYLETHYL)ETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-ETHYLHEXYL)PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4-BROMOPHENYLPHENYLETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BUTYLBENZYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-CHLOROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX CHLOROBENZILATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX p-CHLORO-m-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2-CHLORONAPHTHALENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2-CHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4-CHLOROPHENYL_PHENYL_ETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX CHRYSENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX o-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4,4'-DDD	U	MG/L	1000	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX 4,4'-DDE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4,4'-DDT	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIALLATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX DIBENZ(A,H)ANTHRACENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIBENZOFURAN	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DI-n-BUTYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX o-DICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-DICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-DICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 3,3'-DICHLOROBENZIDINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2,6-DICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIETHYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX O,O-DIETHYL O-2-PYRAZINYL	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX DIMETHOATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX p-(DIMETHYLAMINO)AZOBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 7,12-DIMETHYLBENZ(A)ANTHRACENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 3,3-DIMETHYLBENZIDINE	U	MG/L	5000	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX a-,a-DIMETHYLPHENETHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DIMETHYLPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIMETHYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-DINITROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 4,6-DINITRO-o-CRESOL	U	MG/L	10000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DINITROPHENOL	U	MG/L	10000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DINITROTOLUENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2,6-DINITROTOLUENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DINOSEB	U	MG/L	10000	09/19/1995	TDO
8270-APPENDIX IX DI-n-OCTYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIPHENYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX DISULFOTON	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX ETHYL_METHANESULFONATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX FAMPHUR	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX FLUORANTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX FLUORENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROBUTADIENE	U	MG/L	1000	09/19/1995	TDO

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8270-APPENDIX IX HEXACHLOROCYCLOPENTADIENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROETHANE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROPHENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROPROPENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX INDENO(1,2,3-CD)PYRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ISODRIN	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX ISOPHORONE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ISOSAFROLE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX KEPONE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX METHAPYRILENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 3-METHYLCHOLANTHRENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX METHYL_METHANESULFONATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2-METHYLNAPHTHALENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX METHYL_PARATHION	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX NAPHTHALENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 1,4-NAPHTHOQUINONE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 1-NAPHTHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2-NAPHTHYLAMINE	U	MG/L	5000	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX o-NITROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-NITROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-NITROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX NITROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX o-NITROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-NITROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX NITROQUINOLINE-1-OXIDE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODI-N-BUTYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIETHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIMETHYLAMINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIPHENYLAMINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIPROPYLAMINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOMETHYLETHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOMORPHOLINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOPIPERIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOPYRROLIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 5-NITRO-o-TOLUIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PARATHION	U	MG/L	5000	09/19/1995	TDO

Guy J. Stall
LABORATORY MANAGER/ASST. LABORATORY MANAGER

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ENVIRONMENTAL TESTING SERVICES, INC.

888 Norfolk Square • Norfolk, Virginia 23502 • (804) 461-ETSI (3874) • Fax (804) 461-0379

LAB NUMBER: 9506092

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX PENTACHLOROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PENTACHLORONITROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PENTACHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX PHENACETIN	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX PHENANTHRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX PHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-PHENYLENEDIAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PHORATE	U	MG/L	5000	09/19/1995	TDO
·APPENDIX IX :OLINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PRONAMIDE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PYRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX SAFROLE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 1,2,4,5-TETRACHLOROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2,3,4,6-TETRACHLOROPHENOL	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX TETRAETHYL_DITHIOPYROPHOSPHATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX o-TOLUIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 1,2,4-TRICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2,4,5-TRICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO

Gary J. Hall

ATORY MANAGER/ASST. LABORATORY MANAGER

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LAB NUMBER: 9506092

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX 2,4,6-TRICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 0,0,0-TRIETHYL_PHOSPHOROTHIOATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX sym-TRINITROBENZENE	U	MG/L	5000	09/19/1995	TDO
9020M TOTAL HALOGENS	125	MG Cl/L	5	09/08/1995	JK
TOTAL ANTIMONY_6010	U	MG/KG	2.08	09/13/1995	RM
TOTAL ARSENIC_6010	U	MG/KG	3.33	09/13/1995	RM
TOTAL BERYLLIUM_6010	0.309	MG/KG	0.133	09/13/1995	RM
TOTAL CADMIUM_6010	U	MG/KG	0.325	09/13/1995	RM
:R_6010	U	MG/KG	1	09/13/1995	RM
TOTAL CHROMIUM_6010	U	MG/KG	0.433	09/13/1995	RM
TOTAL LEAD_6010	U	MG/KG	0.8	09/13/1995	RM
TOTAL NICKEL_6010	4.13	MG/KG	0.175	09/13/1995	RM
TOTAL SELENIUM_6010	U	MG/KG	1.6	09/13/1995	RM
TOTAL SILVER_6010	U	MG/KG	2.33	09/13/1995	RM
TOTAL THALLIUM_6010	U	MG/KG	3.67	09/13/1995	RM
TOTAL ZINC_6010	U	MG/KG	1.4	09/13/1995	RM
TOTAL MERCURY_7471	U	UG/KG	33.3	09/14/1995	JK
8240S ACETONE	U	MG/KG	37	09/20/1995	UL

RATORY MANAGER/ASST. LABORATORY MANAGER

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ENVIRONMENTAL TESTING SERVICES, INC.
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LAB NUMBER: 9506092

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8240S BENZENE	U	MG/KG	37	09/20/1995	UL
8240S BROMODICHLOROMETHANE	U	MG/KG	37	09/20/1995	UL
8240S BROMOFORM	U	MG/KG	37	09/20/1995	UL
8240S BROMOMETHANE	U	MG/KG	37	09/20/1995	UL
8240S 2-BUTANONE	U	MG/KG	37	09/20/1995	UL
8240S CARBONDISULFIDE	U	MG/KG	37	09/20/1995	UL
8240S CARBON TETRACHLORIDE	U	MG/KG	37	09/20/1995	UL
8240S CHLOROBENZENE	U	MG/KG	37	09/20/1995	UL
8240S ROETHANE	U	MG/KG	37	09/20/1995	UL
8240S 2-CHLOROETHYL VINYL ETHER	U	MG/KG	37	09/20/1995	UL
8240S CHLOROFORM	U	MG/KG	37	09/20/1995	UL
8240S CHLOROMETHANE	U	MG/KG	37	09/20/1995	UL
8240S DIBROMOCHLOROMETHANE	U	MG/KG	37	09/20/1995	UL
8240S 1,1-DICHLOROETHANE	U	MG/KG	37	09/20/1995	UL
8240S 1,2-DICHLOROETHANE	U	MG/KG	37	09/20/1995	UL
8240S 1,1-DICHLOROETHENE	U	MG/KG	37	09/20/1995	UL
8240S trans-1,2-DICHLOROETHENE	U	MG/KG	37	09/20/1995	UL
8240S 1,2-DICHLOROPROPANE	U	MG/KG	37	09/20/1995	UL

Guy J. Hall
LABORATORY MANAGER/ASST. LABORATORY MANAGER

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LAB NUMBER: 9506092

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8240S cis-1,3-DICHLOROPROPENE	U	MG/KG	37	09/20/1995	UL
8240S trans-1,3-DICHLOROPROPENE	U	MG/KG	37	09/20/1995	UL
8240S ETHYLBENZENE	U	MG/KG	37	09/20/1995	UL
8240S 2-HEXANONE	U	MG/KG	37	09/20/1995	UL
8240S 4-METHYL-2-PENTANONE	U	MG/KG	37	09/20/1995	UL
8240S METHYLENE CHLORIDE	U	MG/KG	37	09/20/1995	UL
8240S STYRENE	U	MG/KG	37	09/20/1995	UL
8240S 1,1,2,2-TETRACHLOROETHANE	U	MG/KG	37	09/20/1995	UL
8240S TETRACHLOROETHENE	U	MG/KG	37	09/20/1995	UL
8240S TOLUENE	U	MG/KG	37	09/20/1995	UL
8240S 1,1,1-TRICHLOROETHANE	U	MG/KG	37	09/20/1995	UL
8240S 1,1,2-TRICHLOROETHANE	U	MG/KG	37	09/20/1995	UL
8240S TRICHLOROETHENE	U	MG/KG	37	09/20/1995	UL
8240S VINYL ACETATE	U	MG/KG	37	09/20/1995	UL
8240S VINYL CHLORIDE	U	MG/KG	37	09/20/1995	UL
8240S TOTAL XYLENES	U	MG/KG	37	09/20/1995	UL

U = NOT DETECTED ABOVE QUANTITATION LIMIT

Guy J. Hall
LABORATORY MANAGER/ASST. LABORATORY MANAGER

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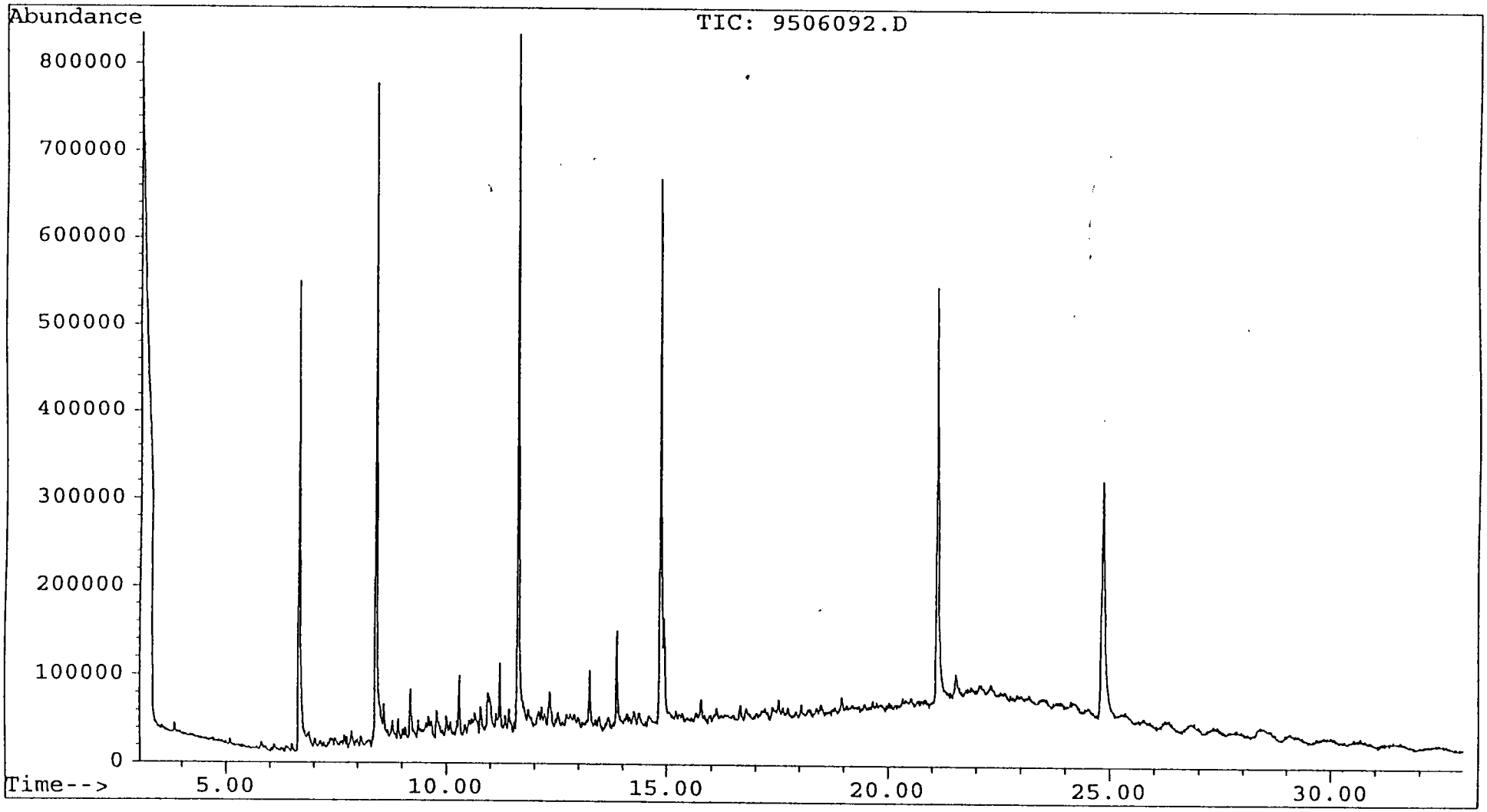
File : C:\HPCHEM\1\DATA\15SEPT95\9506092.D
Operator : Teena Oliver
Acquired : 15 Sep 95 9:50 pm using AcqMethod BNAEPA
Instrument : 5972
Sample Name: 8270 Liquid (GPC 1:500) ext 9/14/95 akm
Misc Info :
Vial Number: 8

CGMW-11
(NSFO line; free product)



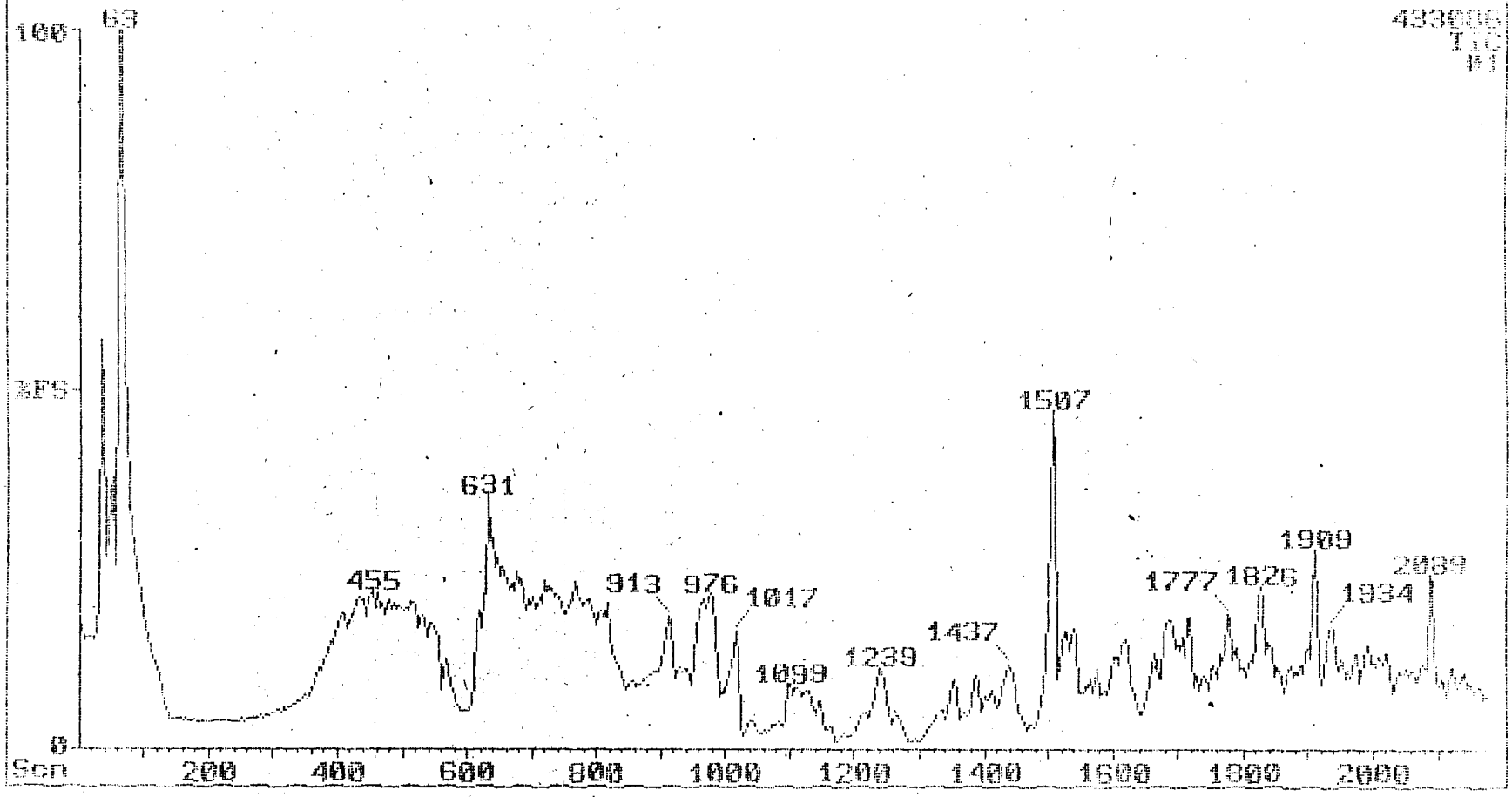
CGMW-11

(NSFO line; free product)

VG LAB-BASE UNIVERSAL LABORATORIES 09/20/1995 18:43

Sample:ETS MJM Instrument:TRIO-1

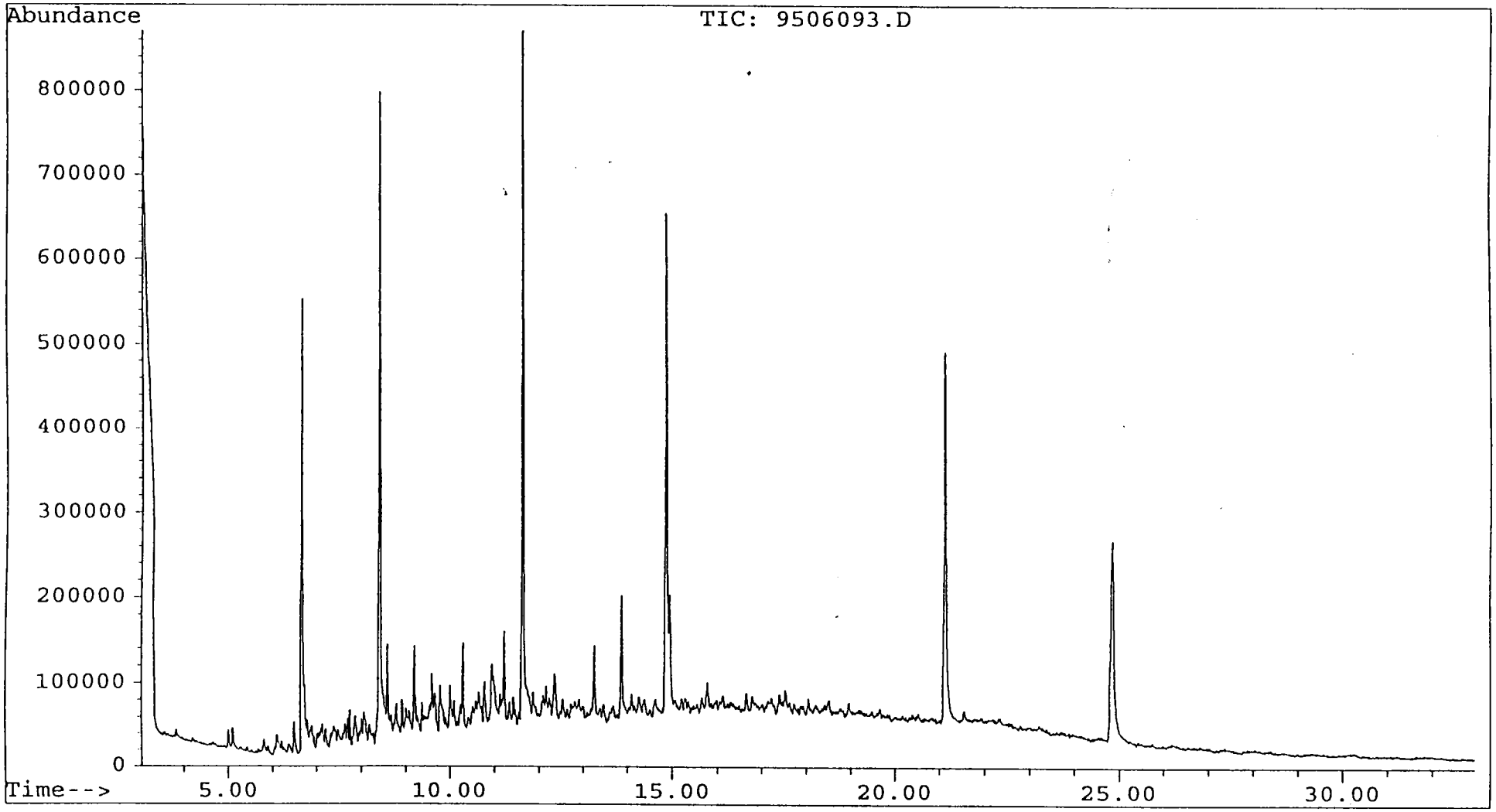
V6236



File : C:\HPCHEM\1\DATA\15SEPT95\9506093.D
Operator : Teena Oliver
Acquired : 15 Sep 95 10:31 pm using AcqMethod BNAEPA
Instrument : 5972
Sample Name: 8270 Liquid (GPC 1:500) ext 9/14/95 akm
Misc Info :
Vial Number: 9

CGMW-1

(old fuel station; free product)



ENVIRONMENTAL TESTING SERVICES, INC.
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09/29/1995

CERTIFICATE OF ANALYSIS

CLIENT
MILLER STEPHENSON & ASSOCIATES
5033 ROUSE DRIVE
VIRGINIA BEACH, VA 23462

ATTN: CHARLES HALL

SAMPLE DESCRIPTION
DESIGNATION: C GMW-1
SAMPLE ID: C GMW-1
PO# / QUOTE#:
MATRIX: FUEL
DATE COLLECTED: 09/06/1995
COLLECTED BY: C. HALL

LAB NUMBER: 9506093

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX ACENAPHTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ACENAPHTHYLENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ACETOPHENONE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2-ACETYLAMINOFLUORENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 4-AMINOBIPHENYL	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX ANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ANTHRACENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ARAMITE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX BENZO(B)FLUORANTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZO(K)FLUORANTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZO(G,H,I)PERYLENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZO(A)PYRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZYL_ALCOHOL	U	MG/L	1000	09/19/1995	TDO

LABORATORY MANAGER/ASST. LABORATORY MANAGER

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LAB NUMBER: 9506093

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX BENZO(A)ANTHRACENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLOROETHOXY)METHANE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLOROETHYL)ETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLORO-1-METHYLETHYL)ETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-ETHYLHEXYL)PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4-BROMOPHENYLPHENYLETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BUTYLBENZYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-CHLOROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX CHLOROBENZILATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX p-CHLORO-m-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2-CHLORONAPHTHALENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2-CHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4-CHLOROPHENYL_PHENYL_ETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX CHRYSENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX o-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4,4'-DDD	U	MG/L	1000	09/19/1995	TDO

Guy I. Hall

LABORATORY MANAGER/ASST. LABORATORY MANAGER

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX 4,4'-DDE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4,4'-DDT	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIALLATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX DIBENZ(A,H)ANTHRACENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIBENZOFURAN	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DI-n-BUTYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX o-DICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-DICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX CHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 3,3'-DICHLOROBENZIDINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2,6-DICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIETHYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX O,O-DIETHYL O-2-PYRAZINYL	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX DIMETHOATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX p-(DIMETHYLAMINO)AZOBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 7,12-DIMETHYLBENZ(A)ANTHRACENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 3,3-DIMETHYLBENZIDINE	U	MG/L	5000	09/19/1995	TDO

Guy J. Hell

LABORATORY MANAGER/ASST. LABORATORY MANAGER

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX a-,a-DIMETHYLPHENETHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DIMETHYLPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIMETHYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-DINITROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 4,6-DINITRO-o-CRESOL	U	MG/L	10000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DINITROPHENOL	U	MG/L	10000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DINITROTOLUENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2,6-DINITROTOLUENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DINOSEB	U	MG/L	10000	09/19/1995	TDO
8270-APPENDIX IX DI-n-OCTYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIPHENYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX DISULFOTON	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX ETHYL_METHANESULFONATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX FAMPHUR	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX FLUORANTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX FLUORENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROBUTADIENE	U	MG/L	1000	09/19/1995	TDO

Gary J. Hall
LABORATORY MANAGER/ASST. LABORATORY MANAGER

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LAB NUMBER: 9506093

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX HEXACHLOROCYCLOPENTADIENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROETHANE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROPHENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROPROPENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX INDENO(1,2,3-CD)PYRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ISODRIN	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX ISOPHORONE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ISOSAFROLE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX KEPONE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX METHAPYRILENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 3-METHYLCHOLANTHRENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX METHYL_METHANESULFONATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2-METHYLNAPHTHALENE	1330	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX METHYL_PARATHION	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX NAPHTHALENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 1,4-NAPHTHOQUINONE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 1-NAPHTHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2-NAPHTHYLAMINE	U	MG/L	5000	09/19/1995	TDO

Guy J. Sell

LABORATORY MANAGER/ASST. LABORATORY MANAGER

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ENVIRONMENTAL TESTING SERVICES, INC.

888 Norfolk Square • Norfolk, Virginia 23502 • (804) 461-ETSI (3874) • Fax (804) 461-0379

LAB NUMBER: 9506093

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX o-NITROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-NITROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-NITROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX NITROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX o-NITROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-NITROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX NITROQUINOLINE-1-OXIDE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODI-N-BUTYLAMINE	U	MG/L	5000	09/19/1995	TDO
70-APPENDIX IX ITROSODIETHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIMETHYLAMINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIPHENYLAMINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIPROPYLAMINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOMETHYLETHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOMORPHOLINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOPIPERIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOPYRROLIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 5-NITRO-o-TOLUIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PARATHION	U	MG/L	5000	09/19/1995	TDO

Gary J. Hall

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LAB NUMBER: 9506093

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX PENTACHLOROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PENTACHLORONITROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PENTACHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX PHENACETIN	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX PHENANTHRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX PHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-PHENYLENEDIAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PHORATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX COLINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PRONAMIDE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PYRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX SAFROLE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 1,2,4,5-TETRACHLOROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2,3,4,6-TETRACHLOROPHENOL	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX TETRAETHYL_DITHIOPYROPHOSPHATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX o-TOLUIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 1,2,4-TRICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2,4,5-TRICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO

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LAB NUMBER: 9506093

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX 2,4,6-TRICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 0,0,0-TRIETHYL_PHOSPHOROTHIOATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX sym-TRINITROBENZENE	U	MG/L	5000	09/19/1995	TDO
9020M TOTAL HALOGENS	638	MG Cl/L	5	09/08/1995	JK
TOTAL ANTIMONY_6010	U	MG/KG	2.08	09/13/1995	RM
TOTAL ARSENIC_6010	U	MG/KG	3.33	09/13/1995	RM
TOTAL BERYLLIUM_6010	0.399	MG/KG	0.133	09/13/1995	RM
TOTAL CADMIUM_6010	U	MG/KG	0.325	09/13/1995	RM
TOTAL COPPER_6010	U	MG/KG	1	09/13/1995	RM
TOTAL CHROMIUM_6010	U	MG/KG	0.433	09/13/1995	RM
TOTAL LEAD_6010	U	MG/KG	0.8	09/13/1995	RM
TOTAL NICKEL_6010	9.20	MG/KG	0.175	09/13/1995	RM
TOTAL SELENIUM_6010	U	MG/KG	1.6	09/13/1995	RM
TOTAL SILVER_6010	U	MG/KG	2.33	09/13/1995	RM
TOTAL THALLIUM_6010	U	MG/KG	3.67	09/13/1995	RM
TOTAL ZINC_6010	U	MG/KG	1.4	09/13/1995	RM
TOTAL MERCURY_7471	U	UG/KG	33.3	09/14/1995	JK
8240S ACETONE	U	MG/KG	37	09/22/1995	UL

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8240S BENZENE	U	MG/KG	37	09/22/1995	UL
8240S BROMODICHLOROMETHANE	U	MG/KG	37	09/22/1995	UL
8240S BROMOFORM	U	MG/KG	37	09/22/1995	UL
8240S BROMOMETHANE	U	MG/KG	37	09/22/1995	UL
8240S 2-BUTANONE	U	MG/KG	37	09/22/1995	UL
8240S CARBONDISULFIDE	U	MG/KG	37	09/22/1995	UL
8240S CARBON TETRACHLORIDE	U	MG/KG	37	09/22/1995	UL
8240S CHLOROBENZENE	U	MG/KG	37	09/22/1995	UL
8240S .OROETHANE	U	MG/KG	37	09/22/1995	UL
8240S 2-CHLOROETHYL VINYL ETHER	U	MG/KG	37	09/22/1995	UL
8240S CHLOROFORM	U	MG/KG	37	09/22/1995	UL
8240S CHLOROMETHANE	U	MG/KG	37	09/22/1995	UL
8240S DIBROMOCHLOROMETHANE	U	MG/KG	37	09/22/1995	UL
8240S 1,1-DICHLOROETHANE	U	MG/KG	37	09/22/1995	UL
8240S 1,2-DICHLOROETHANE	U	MG/KG	37	09/22/1995	UL
8240S 1,1-DICHLOROETHENE	U	MG/KG	37	09/22/1995	UL
8240S trans-1,2-DICHLOROETHENE	U	MG/KG	37	09/22/1995	UL
8240S 1,2-DICHLOROPROPANE	U	MG/KG	37	09/22/1995	UL

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LAB NUMBER: 9506093

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8240S cis-1,3-DICHLOROPROPENE	U	MG/KG	37	09/22/1995	UL
8240S trans-1,3-DICHLOROPROPENE	U	MG/KG	37	09/22/1995	UL
8240S ETHYLBENZENE	U	MG/KG	37	09/22/1995	UL
8240S 2-HEXANONE	U	MG/KG	37	09/22/1995	UL
8240S 4-METHYL-2-PENTANONE	U	MG/KG	37	09/22/1995	UL
8240S METHYLENE CHLORIDE	U	MG/KG	37	09/22/1995	UL
8240S STYRENE	U	MG/KG	37	09/22/1995	UL
8240S 1,1,2,2-TETRACHLOROETHANE	U	MG/KG	37	09/22/1995	UL
8240S TETRACHLOROETHENE	U	MG/KG	37	09/22/1995	UL
8240S TOLUENE	U	MG/KG	37	09/22/1995	UL
8240S 1,1,1-TRICHLOROETHANE	U	MG/KG	37	09/22/1995	UL
8240S 1,1,2-TRICHLOROETHANE	U	MG/KG	37	09/22/1995	UL
8240S TRICHLOROETHENE	U	MG/KG	37	09/22/1995	UL
8240S VINYL ACETATE	U	MG/KG	37	09/22/1995	UL
8240S VINYL CHLORIDE	U	MG/KG	37	09/22/1995	UL
8240S TOTAL XYLENES	U	MG/KG	37	09/22/1995	UL

U = NOT DETECTED ABOVE QUANTITATION LIMIT

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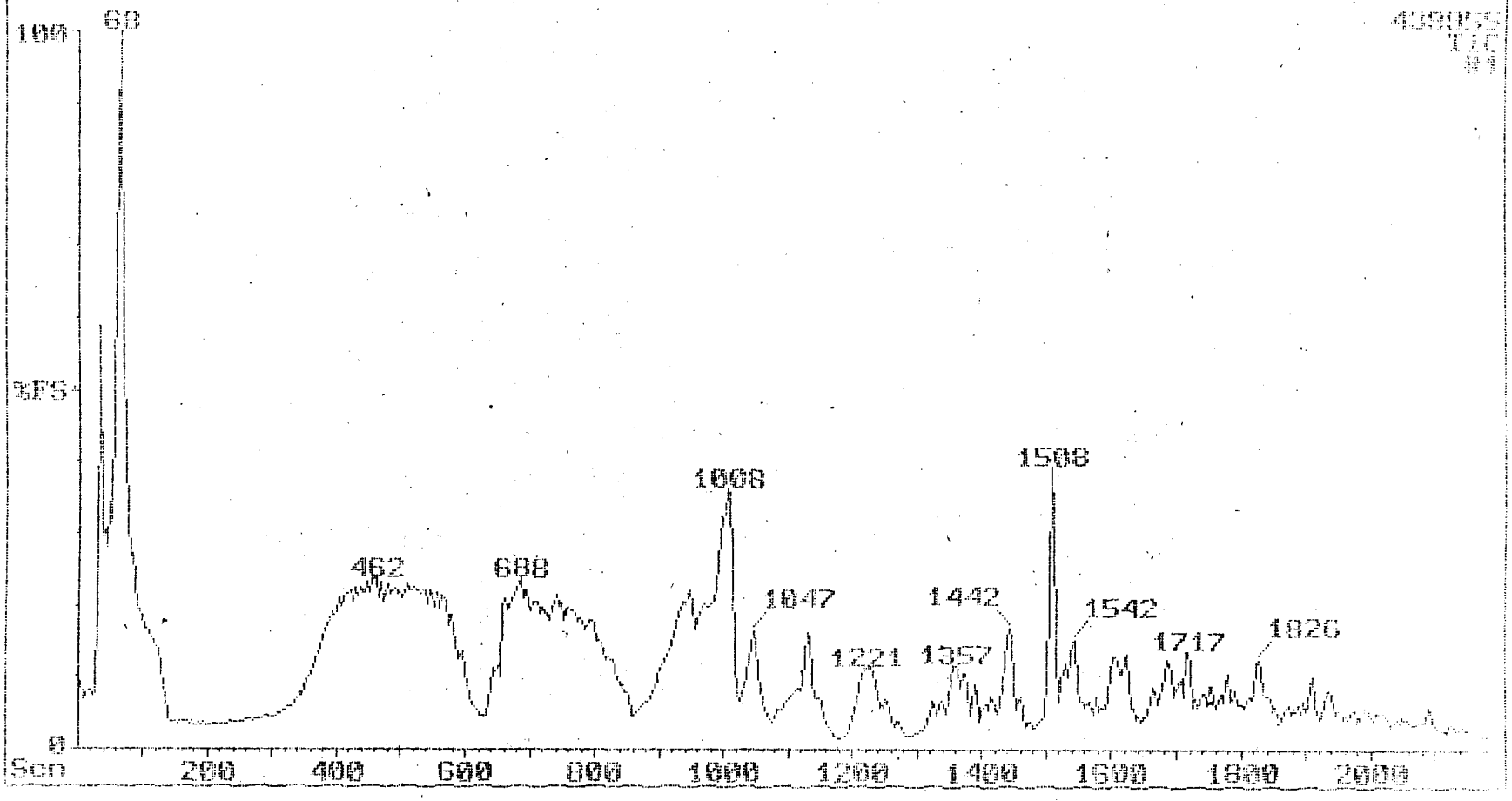
CGMW-1

Cdd fuel station; free product

VG LAB-BASE UNIVERSAL LABORATORIES 09/20/1995 19:39

Sample:ETS MJM Instrument:TRIO-1

V6237



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09/29/1995

CERTIFICATE OF ANALYSIS

CLIENT
MILLER STEPHENSON & ASSOCIATES
5033 ROUSE DRIVE
VIRGINIA BEACH, VA 23462

ATTN: CHARLES HALL

SAMPLE DESCRIPTION
DESIGNATION: NMW-12
SAMPLE ID: NMW-12
PO# / QUOTE#:
MATRIX: FUEL
DATE COLLECTED: 09/06/1995
COLLECTED BY: C. HALL

LAB NUMBER: 9506094

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX ACENAPHTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ACENAPHTHYLENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ACETOPHENONE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2-ACETYLAMINOFLUORENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 4-AMINOBIPHENYL	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX ANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ANTHRACENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ARAMITE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX BENZO(B)FLUORANTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZO(K)FLUORANTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZO(G,H,I)PERYLENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZO(A)PYRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BENZYL_ALCOHOL	U	MG/L	1000	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX BENZO(A)ANTHRACENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLOROETHOXY)METHANE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLOROETHYL)ETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-CHLORO-1-METHYLETHYL)ETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX bis(2-ETHYLHEXYL)PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4-BROMOPHENYLPHENYLETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX BUTYLBENZYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-CHLOROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX :HLOROBENZILATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX p-CHLORO-m-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2-CHLORONAPHTHALENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2-CHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4-CHLOROPHENYL_PHENYL_ETHER	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX CHRYSENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX o-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-CRESOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4,4'-DDD	U	MG/L	1000	09/19/1995	TDO

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8270-APPENDIX IX 4,4'-DDE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 4,4'-DDT	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIALLATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX DIBENZ(A,H)ANTHRACENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIBENZOFURAN	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DI-n-BUTYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX o-DICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-DICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-DICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 3,3'-DICHLOROBENZIDINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2,6-DICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIETHYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX O,O-DIETHYL O-2-PYRAZINYL	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX DIMETHOATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX p-(DIMETHYLAMINO)AZOBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 7,12-DIMETHYLBENZ(A)ANTHRACENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 3,3-DIMETHYLBENZIDINE	U	MG/L	5000	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX a-,a-DIMETHYLPHENETHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DIMETHYLPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIMETHYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-DINITROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 4,6-DINITRO-o-CRESOL	U	MG/L	10000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DINITROPHENOL	U	MG/L	10000	09/19/1995	TDO
8270-APPENDIX IX 2,4-DINITROTOLUENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2,6-DINITROTOLUENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DINOSEB	U	MG/L	10000	09/19/1995	TDO
8270-APPENDIX IX DI-n-OCTYL_PHTHALATE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX DIPHENYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX DISULFOTON	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX ETHYL_METHANESULFONATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX FAMPHUR	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX FLUORANTHENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX FLUORENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROBUTADIENE	U	MG/L	1000	09/19/1995	TDO

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ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX HEXACHLOROCYCLOPENTADIENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROETHANE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROPHENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX HEXACHLOROPROPENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX INDENO(1,2,3-CD)PYRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ISODRIN	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX ISOPHORONE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX ISOSAFROLE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX KEPONE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX METHAPYRILENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 3-METHYLCHOLANTHRENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX METHYL_METHANESULFONATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2-METHYLNAPHTHALENE	1200	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX METHYL_PARATHION	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX NAPHTHALENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 1,4-NAPHTHOQUINONE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 1-NAPHTHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2-NAPHTHYLAMINE	U	MG/L	5000	09/19/1995	TDO

Guy Hell
LABORATORY MANAGER/ASST. LABORATORY MANAGER

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ENVIRONMENTAL TESTING SERVICES, INC.

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LAB NUMBER: 9506094

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX o-NITROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX m-NITROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-NITROANILINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX NITROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX o-NITROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-NITROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX NITROQUINOLINE-1-OXIDE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODI-N-BUTYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX ROSODIETHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIMETHYLAMINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIPHENYLAMINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSODIPROPYLAMINE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOMETHYLETHYLAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOMORPHOLINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOPIPERIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX N-NITROSOPYRROLIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 5-NITRO-o-TOLUIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PARATHION	U	MG/L	5000	09/19/1995	TDO

Guy J. Hall

LABORATORY MANAGER/ASST. LABORATORY MANAGER

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LAB NUMBER: 9506094

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX PENTACHLOROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PENTACHLORONITROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PENTACHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX PHENACETIN	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX PHENANTHRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX PHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX p-PHENYLENEDIAMINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PHORATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX COLINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PRONAMIDE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX PYRENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX SAFROLE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 1,2,4,5-TETRACHLOROBENZENE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 2,3,4,6-TETRACHLOROPHENOL	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX TETRAETHYL_DITHIOPYROPHOSPHATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX o-TOLUIDINE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX 1,2,4-TRICHLOROBENZENE	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 2,4,5-TRICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO

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LAB NUMBER: 9506094

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8270-APPENDIX IX 2,4,6-TRICHLOROPHENOL	U	MG/L	1000	09/19/1995	TDO
8270-APPENDIX IX 0,0,0-TRIETHYL_PHOSPHOROTHIOATE	U	MG/L	5000	09/19/1995	TDO
8270-APPENDIX IX sym-TRINITROBENZENE	U	MG/L	5000	09/19/1995	TDO
9020M TOTAL HALOGENS	100	MG Cl/L	5	09/08/1995	JK
TOTAL ANTIMONY_6010	U	MG/KG	2.08	09/13/1995	RM
TOTAL ARSENIC_6010	U	MG/KG	3.33	09/13/1995	RM
TOTAL BERYLLIUM_6010	0.321	MG/KG	0.133	09/13/1995	RM
TOTAL CADMIUM_6010	U	MG/KG	0.325	09/13/1995	RM
TOTAL COPPER_6010	U	MG/KG	1	09/13/1995	RM
TOTAL CHROMIUM_6010	U	MG/KG	0.433	09/13/1995	RM
TOTAL LEAD_6010	U	MG/KG	0.8	09/13/1995	RM
TOTAL NICKEL_6010	7.87	MG/KG	0.175	09/13/1995	RM
TOTAL SELENIUM_6010	U	MG/KG	1.6	09/13/1995	RM
TOTAL SILVER_6010	U	MG/KG	2.33	09/13/1995	RM
TOTAL THALLIUM_6010	U	MG/KG	3.67	09/13/1995	RM
TOTAL ZINC_6010	U	MG/KG	1.4	09/13/1995	RM
TOTAL MERCURY_7471	U	UG/KG	33.3	09/14/1995	JK
8240S ACETONE	U	MG/KG	37	09/22/1995	UL

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LAB NUMBER: 9506094

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8240S BENZENE	U	MG/KG	37	09/22/1995	UL
8240S BROMODICHLOROMETHANE	U	MG/KG	37	09/22/1995	UL
8240S BROMOFORM	U	MG/KG	37	09/22/1995	UL
8240S BROMOMETHANE	U	MG/KG	37	09/22/1995	UL
8240S 2-BUTANONE	U	MG/KG	37	09/22/1995	UL
8240S CARBONDISULFIDE	U	MG/KG	37	09/22/1995	UL
8240S CARBON TETRACHLORIDE	U	MG/KG	37	09/22/1995	UL
8240S CHLOROBENZENE	U	MG/KG	37	09/22/1995	UL
8240S [illegible]OETHANE	U	MG/KG	37	09/22/1995	UL
8240S 2-CHLOROETHYL VINYL ETHER	U	MG/KG	37	09/22/1995	UL
8240S CHLOROFORM	U	MG/KG	37	09/22/1995	UL
8240S CHLOROMETHANE	U	MG/KG	37	09/22/1995	UL
8240S DIBROMOCHLOROMETHANE	U	MG/KG	37	09/22/1995	UL
8240S 1,1-DICHLOROETHANE	U	MG/KG	37	09/22/1995	UL
8240S 1,2-DICHLOROETHANE	U	MG/KG	37	09/22/1995	UL
8240S 1,1-DICHLOROETHENE	U	MG/KG	37	09/22/1995	UL
8240S trans-1,2-DICHLOROETHENE	U	MG/KG	37	09/22/1995	UL
8240S 1,2-DICHLOROPROPANE	U	MG/KG	37	09/22/1995	UL

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ENVIRONMENTAL TESTING SERVICES, INC.

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LAB NUMBER: 9506094

ANALYSIS AND METHOD	RESULTS	UNITS	MDL	DATE ANALYZED	ETS ANALYST
8240S cis-1,3-DICHLOROPROPENE	U	MG/KG	37	09/22/1995	UL
8240S trans-1,3-DICHLOROPROPENE	U	MG/KG	37	09/22/1995	UL
8240S ETHYLBENZENE	U	MG/KG	37	09/22/1995	UL
8240S 2-HEXANONE	U	MG/KG	37	09/22/1995	UL
8240S 4-METHYL-2-PENTANONE	U	MG/KG	37	09/22/1995	UL
8240S METHYLENE CHLORIDE	U	MG/KG	37	09/22/1995	UL
8240S STYRENE	U	MG/KG	37	09/22/1995	UL
8240S 1,1,2,2-TETRACHLOROETHANE	U	MG/KG	37	09/22/1995	UL
8240S ACHLOROETHENE	U	MG/KG	37	09/22/1995	UL
8240S TOLUENE	U	MG/KG	37	09/22/1995	UL
8240S 1,1,1-TRICHLOROETHANE	U	MG/KG	37	09/22/1995	UL
8240S 1,1,2-TRICHLOROETHANE	U	MG/KG	37	09/22/1995	UL
8240S TRICHLOROETHENE	U	MG/KG	37	09/22/1995	UL
8240S VINYL ACETATE	U	MG/KG	37	09/22/1995	UL
8240S VINYL CHLORIDE	U	MG/KG	37	09/22/1995	UL
8240S TOTAL XYLENES	U	MG/KG	37	09/22/1995	UL

U = NOT DETECTED ABOVE QUANTITATION LIMIT

LABORATORY MANAGER/ASST. LABORATORY MANAGER

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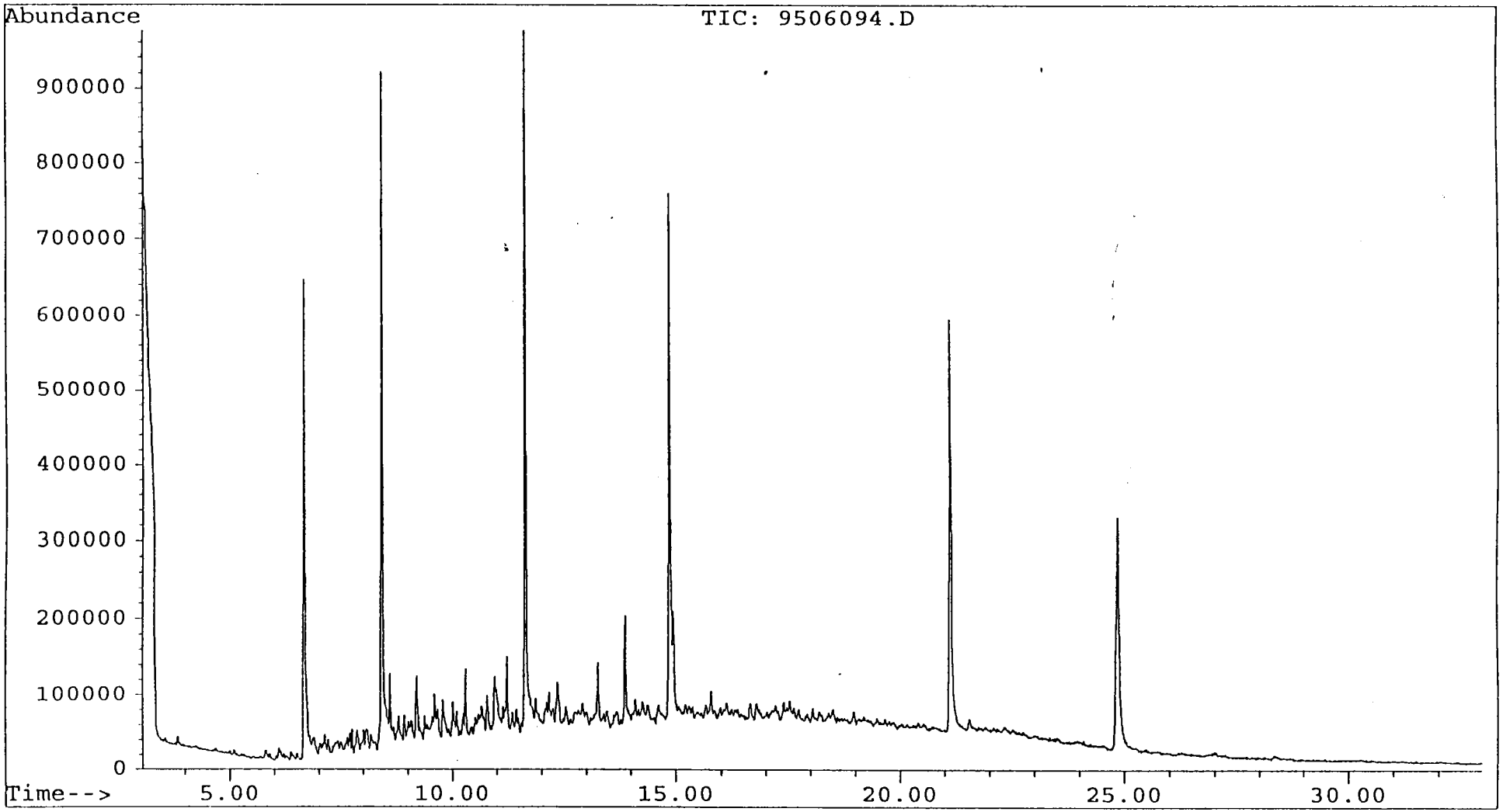
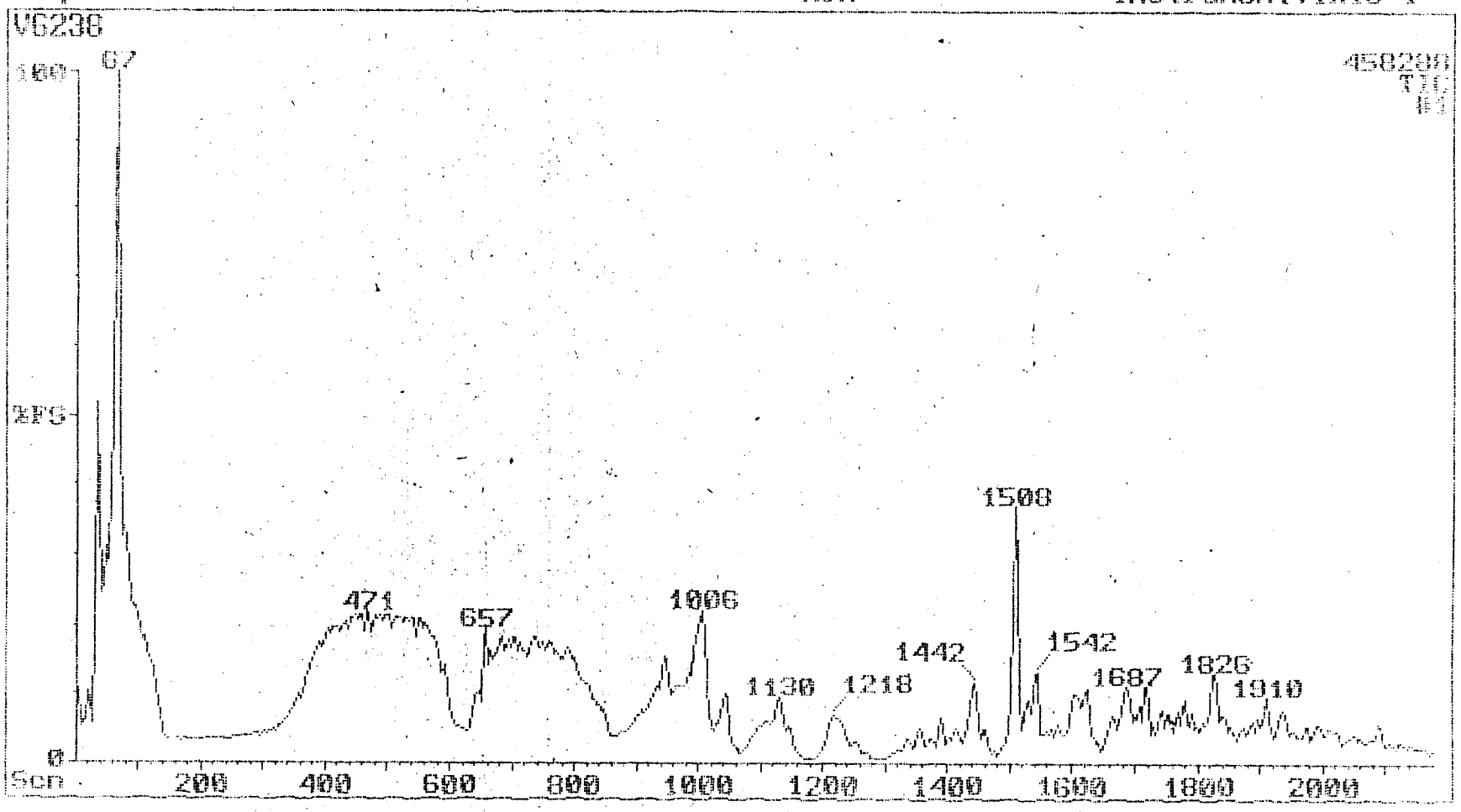
File : C:\HPCHEM\1\DATA\15SEPT95\9506094.D
Operator : Teena Oliver
Acquired : 15 Sep 95 11:12 pm using AcqMethod BNAEPA
Instrument : 5972
Sample Name: 8270 Liquid (GPC 1:500) ext 9/14/95 akm
Misc Info :
Vial Number: 10

NMW-12
(fuel farm; free product)



N MW-12
(fuel farm; free product)

VG LAB-BASE UNIVERSAL LABORATORIES 09/20/1995 20:30
Sample:ETS MJM Instrument:TRIO-1



APPENDIX B

Analyte Library Search
(Groundwater Samples)

8240 LIBRARY SEARCH

Bal. Log #: 9506234 (9506070) (Dist. ground water)

Date Analyzed: 09/20/95

COMPOUND NAME	EST. CONC. (ppb)	SCAN NO.
methyl (1 methylethyl) benzene	3.83	1751
1,2-diethyl benzene	3.89	1687
1 ethenyl 2 methyl benzene	13.09	1716
1 H-indene,1-ethylidene	4.59	1333
1,2,4,5-tetramethylbenzene	3.49	1773
1 H-indene-2,3-dihydro-4 methyl	11.43	1904
1 H-indene-2,3-dihydro-1,6-dimethyl	5.98	1973

8240 LIBRARY SEARCH

Bal. Log #: 9506235 (9506091) (fuel farm ; ground water)

Date Analyzed: 09/20/95

COMPOUND NAME	EST. CONC. (ppb)	SCAN NO.
benzene-1-ethyl-2-methyl	12.64	1715
benzene, 1-ethyl-3 ethyl-mixture with 1-ethenyl 4-ethylbenzene	7.33	1786
benzene, methyl(1-methyetheyl)	5.84	1886
1 H-indene-2,3-dihydro-4-methyl	9.80	1904
1 H-indene-2,3-dihydro-1,6-dimethyl	6.90	1973

APPENDIX C

QA/QC Summary

ENVIRONMENTAL TESTING SERVICES, INC.

888 Norfolk Square • Norfolk, Virginia 23502 • (804) 461-ETSI (3874) • Fax (804) 461-0379

QC/QA Summary

Date: 10/9/95
Analysis Date: 9/15/95
Sample Lab #s Affected: 9506090-94
Client: Miller Stevenson & Associates

Semivolatile Analysis

As a pre-analysis preparation, samples 9506090 and 9506091 were extracted via 8270 liquid/liquid extraction. Samples 9506092-94 were treated as dilute & shoot samples due to the heavy oil consistency. All samples were then taken through Gel Permeation Chromatography (GPC, a 1 to 2 dilution) in an attempt to remove heavy hydrocarbon compounds. In addition to GPC cleanup, samples 9506092-94 required dilutions of 1 to 250. All samples were then analyzed by Gas Chromatography/Mass Spectrometery (GC/MS) and the Minimum Detection Limit (MDL) were adjusted to reflect cleanup, dilutions, and instrumentation capabilities. Lower MDLs are not achievable for fear of further contaminating the instrumentation.

Prior to analyzing any samples on 9/15/95, the GC/MS was properly tuned and calibrated in accordance with SW-846 8270 and passed all requirements, except tailing, within acceptable limits. Semivolatile compounds were searched for and calibrated for using a five to seven point standard calibration curve. The sample data was further subjected to a National Bureau of Standards (NBS) Library computer search.

Due to matrix interference, the base and neutral surrogate spike compounds for 9506091 were recovered at levels below the acceptable qc limits. Furthermore, peak tailing was slightly elevated due to instrument contamination. Corrective actions have been initiated.

Attached are the Tentatively Identified Compound lists (TICs). High dilutions resulted in no identified compounds in 9506092-94. 9506090 and 9506091 have distinct molecular Sulfur peaks (S_8) that could not be quantitated. Hydrocarbons are the most prevalent in all samples.

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Volatile Analysis

Samples 9506090 and 9506091 were analyzed in accordance with E.P.A. method 8240. Samples 9506092-94 required extensive dilution due to the heavy oil consistency. The high backgroud contamination in samples 9506092-94 interfered with the recovery of surrogate and internal standards. Due to the resulting dilution factor in samples 9506092-94, no Tentatively Identified Compounds were identifed.

If you have any questions regarding the sample preparation, analysis, or results please do not hesitate to contact me.

Sincerely,

Teena D. Oliver

Teena D. Oliver, QC Officer