



UCAR CARBON COMPANY INC.

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P.O. Box 887, Niagara Falls, NY 14302-0887

January 5, 1998

Mr. Mark Hans, PE
Regional Solid Materials Engineer
NYS Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

Subject: Quarterly Report of Groundwater Analysis
Republic Solid Waste Management Facility
Post-Closure Monitoring Program

Dear Mr. Hans,

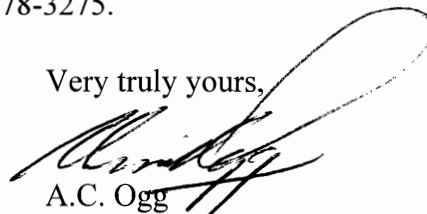
I am enclosing a copy of the thirty ninth (39) quarter's groundwater sampling analysis from the closed Republic Waste Management Facility. Bedrock well, BW-4, continues to demonstrate some slight volatile organic contamination in the less than one part per million range.

The attached table summarizes the positive organic parameters from BW-4 for the thirty ninth (39) quarter.

Though Trichloroethene (TCE) was found in groundwater on the north boundary (bedrock well BW-4) of the site, it has been shown by soil gas and surface soil sampling to originate from an area just north of the site. The downgradient bedrock well BW-6 continues to show no similar contamination.

If you have any questions, please contact me at 278-3275.

Very truly yours,



A.C. Ogg
Site Manager

A.C. Ogg
nm
encls.

RECEIVED

JAN 07 1998

N.Y.S. DEPT. OF
ENVIRONMENTAL CONSERVATION
REGION 9

**QUARTERLY REPORT OF GROUNDWATER ANALYSIS
REPUBLIC SOLID WASTE MANAGEMENT FACILITY POST-CLOSURE MONITORING PROGRAM**

39TH QUARTER

POSITIVE ORGANIC PARAMETERS FROM BW-4

CONTAMINATE	39th Quarter ppb	Mean Conc. ppb	Range ppb
1,2-Dichlorethene (Total)	200	279	200 - 570
Trichloroethene	250	294	30 - 740
Tetrachloroethene	170	230	72 - 440
Hexachlobutadiene	26	43	10 – 160
Vinyl Chloride	54	96	29 – 300
Chloroform	4.3	9	4.3 – 14

CC: Mr. Jim Devald, Dir. of Environmental Health
Niagara County Health Department
P.O. Box 428
Niagara Falls, New York 14302-0428

UCAR CARBON COMPANY, INCORPORATED

REPUBLIC WASTE MANAGEMENT FACILITY

POST CLOSURE MONITORING PROGRAM

QUARTERLY REPORT

NOVEMBER 1997

Prepared By:

ADVANCED
ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

December 19, 1997
REF: CTC73D8/100B
Lab ID No. 10233



P.O. Box 165
2186 Liberty Drive
Niagara Falls, NY 14304
(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

December 29, 1997

Mr. Al Ogg
Ucar Carbon Company, Inc.
P.O. Box 867
Niagara Falls, New York 14302

Re: Quality Control Comment on Matrix Spike Duplicate

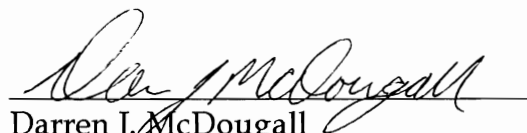
Dear Mr. Ogg:

Due to instrument problems, the volatiles for this quarter were subcontracted to Ecology and Environment. They were able to perform the analysis within the required holding time. The chain of custody which accompanied the four samples specified analysis required for a duplicate and a matrix spike. The term duplicate was interpreted to mean a matrix spike duplicate. The normal QC package performed by AES would have included a duplicate and matrix spike for all volatile compounds. E & E performed a matrix spike and a matrix spike duplicate for five specific volatile compounds.

After discussing this with Mary McIntosh of the NYS DEC Region 9, she indicated that this QC package should be acceptable.

If you have any further questions, please contact me at (716) 283-3120. Thank you for your patience and understanding in this matter.

Sincerely,

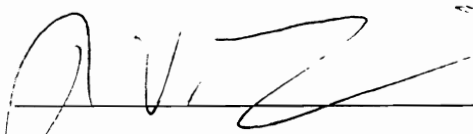


Darren J. McDougall
Landfill Project Manager

dms

QA/QC VERIFICATION FOR PROJECT ID 73D8

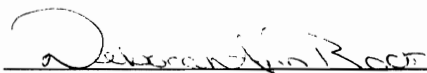
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



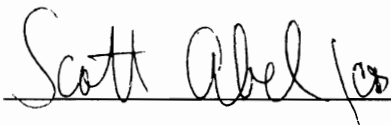
Metals Department



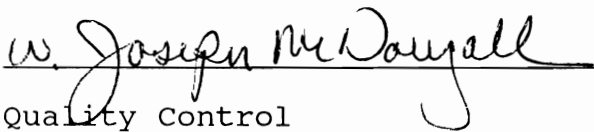
Inorganic Chemistry



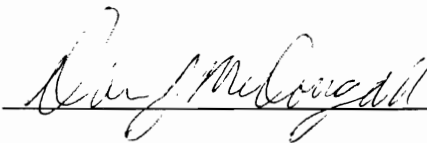
Organic Chemistry



Field Services



Quality Control



Project Manager

All 'Total' results on soil matrices are calculated on a dry weight basis, unless otherwise noted. Analyses noted as 'Performed in the laboratory' require immediate testing and should be performed in the field.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested
D - Indicates a dilution was required

Advanced Environmental Services, Inc.

2186 Liberty Drive
Niagara Falls, New York 14304
(716) 283-3120

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION
November 19, 1997 thru November 21, 1997

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 73D8

Monitoring Well I.D.	Evacuation Date	Top of Inner Casing Elevation (ft.)	Monitoring Well Diameter	Water Level (ft.)	Water Elevation (ft.)	Bottom of Well (ft.)	Volume of Standing Water (gallons)	Volume of Evacuated Water (gallons)	Recharge Rate
BW-1	11/19/97	610.72	4	16.71	594.01	28.85	7.92	24.0	C
BW-2	11/20/97	608.43	4	13.65	594.78	26.60	8.45	27.0	C
BW-3	11/20/97	604.72	4	11.84	592.88	22.91	7.23	25.0	C
BW-4	11/20/97	607.08	4	11.30	595.78	22.69	7.44	27.0	C
BW-5	11/19/97	603.33	4	10.00	593.33	28.80	12.27	40.0	C
BW-6	11/21/97	607.04	4	13.20	593.84	25.15	7.80	30.0	C
MW-1	11/20/97	609.43	2	12.95	596.48	23.40	1.71	1.75 (Dry)	S
MW-2	11/20/97	607.54	3	23.45	584.09	24.61	0.43	0.5 (Dry)	VS
MW-3	11/19/97	601.61	2	7.82	593.79	16.11	1.35	5.5 (Dry)	S
OW-1 SOUTH	11/21/97	608.81	2	7.56	601.25	36.05	4.65	NR	N/A
OW-2 NORTH	11/21/97	607.06	2	6.86	600.20	35.90	4.74	NR	N/A

Abbreviations:

VS = Very Slow ----- Recharge Rate longer than 24 hr period.

S = Slow ----- Recharge Rate within 24 hr period.

R = Rapid ----- Recharge Rate within 1 hr period.

C = Continuous ---- Recharge Rate immediate.

NR = Not Required

N/A = Not Applicable


Technician 12-15-97
Date

Advanced Environmental Services, Inc.

2186 Liberty Drive
Niagara Falls, New York 14304
(716) 283-3120

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION

November 19, 1997 thru November 21, 1997

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 73D8

Monitoring Well I.D.	Sampling Date	Sampling Time	Water Level (ft.)	Turbidity (NTU)	Filter Time	Field Comments/Observations
BW-1	11/19/97	3:05 PM	16.81	2.5	3:35 PM	Light Tan Tint
BW-2	11/20/97	1:57 PM	16.25	11.0	3:15 PM	Clear
BW-3	11/20/97	1:40 PM	11.84	0.8	3:35 PM	Clear.
BW-4	11/20/97	2:25 PM	11.85	1.3	3:38 PM	Clear
BW-5	11/19/97	1:55 PM	10.05	0.2	3:00 PM	Clear with odor
BW-6	11/21/97	9:50 AM	17.85	11.4	11:25 AM	Clear
MW-1	11/21/97	1:25 AM	13.28	18.5	11:30 AM	Cloudy
MW-2	11/21/97	9:30 AM	22.98	71.0	11:20 AM	Clear with black solids
MW-3	11/20/97	10:20 AM	5.33	32.8	3:25 PM	Clear
OW-1 South	11/21/97	10:00 AM	7.56	NA	NA	Required to take water elevation only.
OW-2 North	11/21/97	10:30 AM	6.86	NA	NA	Required to take water elevation only.
Blind Dup	11/20/97	2:25 PM	11.85	1.6	3:38 PM	Clear
Trip Blank	11/20/97	9:00 AM	NA	1.3	NA	Deionized Water

The Blind Duplicate site was BW-4.


Field Technician
12-2-97
Date

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 11/21/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 73D8-1

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	18.5	NTU	0.1	EPA 180.1
Ammonia	5.8	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	6.5	mg/L	0.1	EPA 351.3
Total Iron	3.24	mg/L	0.060	EPA 200.7
Soluble Iron	0.155	mg/L	0.060	EPA 200.7
Total Potassium	38 **	mg/L	1.8	EPA 200.7
Soluble Potassium	39	mg/L	1.8	EPA 200.7
Total Zinc	0.045	mg/L	0.016	EPA 200.7
Soluble Zinc	ND	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 11/20/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 73D8-2

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	32.8	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.3	mg/L	0.1	EPA 351.3
Total Iron	1.48	mg/L	0.060	EPA 200.7
Soluble Iron	ND	mg/L	0.060	EPA 200.7
Total Potassium	3.3	mg/L	1.8	EPA 200.7
Soluble Potassium	2.3	mg/L	1.8	EPA 200.7
Total Zinc	ND **	mg/L	0.016	EPA 200.7
Soluble Zinc	0.017	, mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-1
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/19/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-3

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	2.5	NTU	0.1	EPA 180.1
Ammonia	1.7	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	1.8	mg/L	0.1	EPA 351.3
Total Iron	2.32 **	mg/L	0.060	EPA 200.7
Soluble Iron	2.34	mg/L	0.060	EPA 200.7
Total Potassium	9.3 **	mg/L	1.8	EPA 200.7
Soluble Potassium	10	mg/L	1.8	EPA 200.7
Total Zinc	0.431	mg/L	0.016	EPA 200.7
Soluble Zinc	0.077	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 11/20/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 73D8-4

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	20.2	NTU	0.1	EPA 180.1
Ammonia	0.88	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	2.8	mg/L	0.1	EPA 351.3
Total Iron	6.11	mg/L	0.060	EPA 200.7
Soluble Iron	4.89	mg/L	0.060	EPA 200.7
Total Potassium	4.4 **	mg/L	1.8	EPA 200.7
Soluble Potassium	4.9	mg/L	1.8	EPA 200.7
Total Zinc	0.029***	mg/L	0.016	EPA 200.7
Soluble Zinc	0.082	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

*** Soluble results were higher than total results. Samples were rerun with similar results.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 11/20/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 73D8-5

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	.83	NTU	0.1	EPA 180.1
Ammonia	0.94	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.73	mg/L	0.1	EPA 351.3
Total Iron	0.993 **	mg/L	0.060	EPA 200.7
Soluble Iron	1.00	mg/L	0.060	EPA 200.7
Total Potassium	4.9 **	mg/L	1.8	EPA 200.7
Soluble Potassium	5.2	mg/L	1.8	EPA 200.7
Total Zinc	ND ***	mg/L	0.016	EPA 200.7
Soluble Zinc	0.048	, mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

*** Soluble results were higher than total results. Samples were rerun with similar results.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 11/20/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 7308-5

PROJECT ID: 7308

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	.83	NTU	0.1	EPA 180.1
Ammonia	0.94	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.73	mg/L	0.1	EPA 351.3
Total Iron	0.993 **	mg/L	0.060	EPA 200.7
Soluble Iron	1.00	mg/L	0.060	EPA 200.7
Total Potassium	4.9 **	mg/L	1.8	EPA 200.7
Soluble Potassium	5.2	mg/L	1.8	EPA 200.7
Total Zinc	ND ***	mg/L	0.016	EPA 200.7
Soluble Zinc	0.048	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

*** Soluble results were higher than total results. Samples were rerun with similar results.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-6

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	1.3	NTU	0.1	EPA 180.1
Ammonia	2.9	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	2.8	mg/L	0.1	EPA 351.3
Total Iron	2.25 **	mg/L	0.060	EPA 200.7
Soluble Iron	2.28	mg/L	0.060	EPA 200.7
Total Potassium	16 **	mg/L	1.8	EPA 200.7
Soluble Potassium	17	mg/L	1.8	EPA 200.7
Total Zinc	0.016***	mg/L	0.016	EPA 200.7
Soluble Zinc	0.040	mg/L	0.016	EPA 200.7
Chloromethane	ND	µg/L	10	SW 846 8240 ****
Bromomethane	ND	µg/L	10	SW 846 8240
Vinyl chloride	54 ✓	µg/L	10	SW 846 8240
Chloroethane	ND	µg/L	10	SW 846 8240
Methylene chloride	ND	µg/L	5.0	SW 846 8240
Acetone	ND	µg/L	10	SW 846 8240
Carbon disulfide	ND	µg/L	5.0	SW 846 8240
1,1-Dichloroethene	ND	µg/L	5.0	SW 846 8240
1,1-Dichloroethane	ND	µg/L	5.0	SW 846 8240
1,2-Dichloroethylene (total)	200 ✓	µg/L	10	SW 846 8240
Chloroform	4.3 ✓	µg/L	5.0	SW 846 8240
1,2-Dichloroethane	ND	µg/L	5.0	SW 846 8240
2-Butanone	ND	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	5.0	SW 846 8240
Carbon tetrachloride	ND	µg/L	5.0	SW 846 8240
Vinyl acetate	ND	µg/L	10	SW 846 8240

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

*** Soluble results were higher than total results. Samples were rerun with similar results.

**** TCL Volatiles were subcontracted to Ecology and Environment, Inc.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-6

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Bromodichloromethane	ND	µg/L	5.0	SW 846 8240
1,2-Dichloropropane	ND	µg/L	5.0	SW 846 8240
cis-1,3-Dichloropropene	ND	µg/L	5.0	SW 846 8240
Trichloroethene	250 /	µg/L	10	SW 846 8240
Chlorodibromomethane	ND	µg/L	5.0	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	5.0	SW 846 8240
Benzene	ND	µg/L	5.0	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	5.0	SW 846 8240
2-Chloroethyl vinyl ether	ND	µg/L	10	SW 846 8240
Bromoform	ND	µg/L	5.0	SW 846 8240
4-Methyl-2-pentanone	ND	µg/L	10	SW 846 8240
2-Hexanone	ND	µg/L	10	SW 846 8240
Tetrachloroethene	170 /	µg/L	5.0	SW 846 8240
Toluene	ND	µg/L	5.0	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0	SW 846 8240
Chlorobenzene	ND	µg/L	5.0	SW 846 8240
Ethylbenzene	ND	µg/L	5.0	SW 846 8240
Styrene	ND	µg/L	5.0	SW 846 8240
m-Xylene	ND	µg/L	5.0	SW 846 8240
o/p-Xylene	ND	µg/L	5.0	SW 846 8240
Aniline	ND	µg/L	10	SW 846 8270
Benzoic acid	ND	µg/L	10	SW 846 8270
Benzyl alcohol	ND	µg/L	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-6

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270
Hexachloroethane	ND	µg/L	10	SW 846 8270
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270
2-Nitrophenol	ND	µg/L	10	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	10	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	10	SW 846 8270
Naphthalene	ND	µg/L	10	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	26	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	10	SW 846 8270
2-Methylnaphthalene	ND	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	10	SW 846 8270
2-Chloronaphthalene	ND	µg/L	10	SW 846 8270
2-Nitroaniline	ND	µg/L	10	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	10	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	10	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-6

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Dibenzofuran	ND	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	10	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Fluorene	ND	µg/L	10	SW 846 8270
4-Nitroaniline	ND	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Hexachlorobenzene	ND	µg/L	10	SW 846 8270
Pentachlorophenol	ND	µg/L	10	SW 846 8270
Phenanthrene	ND	µg/L	10	SW 846 8270
Anthracene	ND	µg/L	10	SW 846 8270
Carbazole	ND	µg/L	50	SW 846 8270
di-n-Butylphthalate	ND	µg/L	10	SW 846 8270
Fluoranthene	ND	µg/L	10	SW 846 8270
Pyrene	ND	µg/L	10	SW 846 8270
Butyl benzyl phthalate	ND	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	ND	µg/L	10	SW 846 8270
Benzo(a)anthracene	ND	µg/L	10	SW 846 8270
Chrysene	ND	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	ND	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-5
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 11/19/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 73D8-7

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	0.2	NTU	0.1	EPA 180.1
Ammonia	0.67	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.93	mg/L	0.1	EPA 351.3
Total Iron	1.58	mg/L	0.060	EPA 200.7
Soluble Iron	1.42	mg/L	0.060	EPA 200.7
Total Potassium	3.5	mg/L	1.8	EPA 200.7
Soluble Potassium	3.0	mg/L	1.8	EPA 200.7
Total Zinc	0.079 **	mg/L	0.016	EPA 200.7
Soluble Zinc	0.112	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

** Soluble results were higher than total results. Samples were rerun with similar results.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-8

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	11.4	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.85	mg/L	0.1	EPA 351.3
Total Iron	2.7	mg/L	0.060	EPA 200.7
Soluble Iron	1.8	mg/L	0.060	EPA 200.7
Total Potassium	ND	mg/L	1.8	EPA 200.7
Soluble Potassium	ND	mg/L	1.8	EPA 200.7
Total Zinc	ND	mg/L	0.016	EPA 200.7
Soluble Zinc	ND	mg/L	0.016	EPA 200.7
Chloromethane	ND	µg/L	10	SW 846 8240 ****
Bromomethane	ND	µg/L	10	SW 846 8240
Vinyl chloride	ND	µg/L	10	SW 846 8240
Chloroethane	ND	µg/L	10	SW 846 8240
Methylene chloride	ND	µg/L	5.0	SW 846 8240
Acetone	ND	µg/L	10	SW 846 8240
Carbon disulfide	ND	µg/L	5.0	SW 846 8240
1,1-Dichloroethene	ND	µg/L	5.0	SW 846 8240
1,1-Dichloroethane	ND	µg/L	5.0	SW 846 8240
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8240
Chloroform	ND	µg/L	5.0	SW 846 8240
1,2-Dichloroethane	ND	µg/L	5.0	SW 846 8240
2-Butanone	ND	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	5.0	SW 846 8240
Carbon tetrachloride	ND	µg/L	5.0	SW 846 8240
Vinyl acetate	ND	µg/L	10	SW 846 8240
Bromodichloromethane	ND	µg/L	5.0	SW 846 8240
1,2-Dichloropropane	ND	µg/L	5.0	SW 846 8240

* Analysis performed in the field.

**** TCL Volatiles were subcontracted to Ecology and Environment, Inc.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-8

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
cis-1,3-Dichloropropene	ND	µg/L	5.0	SW 846 8240
Trichloroethene	ND	µg/L	10	SW 846 8240
Chlorodibromomethane	ND	µg/L	5.0	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	5.0	SW 846 8240
Benzene	ND	µg/L	5.0	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	5.0	SW 846 8240
2-Chloroethyl vinyl ether	ND	µg/L	10	SW 846 8240
Bromoform	ND	µg/L	5.0	SW 846 8240
4-Methyl-2-pentanone	ND	µg/L	10	SW 846 8240
2-Hexanone	ND	µg/L	10	SW 846 8240
Tetrachloroethene	ND	µg/L	5.0	SW 846 8240
Toluene	ND	µg/L	5.0	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0	SW 846 8240
Chlorobenzene	ND	µg/L	5.0	SW 846 8240
Ethylbenzene	ND	µg/L	5.0	SW 846 8240
Styrene	ND	µg/L	5.0	SW 846 8240
m-Xylene	ND	µg/L	5.0	SW 846 8240
o/p-Xylene	ND	µg/L	5.0	SW 846 8240
Aniline	ND	µg/L	10	SW 846 8270
Benzoic acid	ND	µg/L	10	SW 846 8270
Benzyl alcohol	ND	µg/L	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-8

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270
Hexachloroethane	ND	µg/L	10	SW 846 8270
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270
2-Nitrophenol	ND	µg/L	10	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	10	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	10	SW 846 8270
Naphthalene	ND	µg/L	10	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	ND	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	10	SW 846 8270
2-Methylnaphthalene	ND	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	10	SW 846 8270
2-Chloronaphthalene	ND	µg/L	10	SW 846 8270
2-Nitroaniline	ND	µg/L	10	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	10	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	10	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	10	SW 846 8270
Dibenzofuran	ND	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-8

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Fluorene	ND	µg/L	10	SW 846 8270
4-Nitroaniline	ND	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Hexachlorobenzene	ND	µg/L	10	SW 846 8270
Pentachlorophenol	ND	µg/L	10	SW 846 8270
Phenanthrene	NC	µg/L	10	SW 846 8270
Anthracene	ND	µg/L	10	SW 846 8270
Carbazole	ND	µg/L	50	SW 846 8270
di-n-Butylphthalate	ND	µg/L	10	SW 846 8270
Fluoranthene	ND	µg/L	10	SW 846 8270
Pyrene	ND	µg/L	10	SW 846 8270
Butyl benzyl phthalate	ND	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	ND	µg/L	10	SW 846 8270
Benzo(a)anthracene	ND	µg/L	10	SW 846 8270
Chrysene	ND	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	ND	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-9

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	1.6	NTU	0.1	EPA 180.1
Ammonia	2.9	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	2.9	mg/L	0.1	EPA 351.3
Total Iron	2.23 **	mg/L	0.060	EPA 200.7
Soluble Iron	2.24	mg/L	0.060	EPA 200.7
Total Potassium	15 **	mg/L	1.8	EPA 200.7
Soluble Potassium	16	mg/L	1.8	EPA 200.7
Total Zinc	ND ***	mg/L	0.016	EPA 200.7
Soluble Zinc	0.039	mg/L	0.016	EPA 200.7
Chloromethane	ND	µg/L	10	SW 846 8240 ****
Bromomethane	ND	µg/L	10	SW 846 8240
Vinyl chloride	54	µg/L	10	SW 846 8240
Chloroethane	ND	µg/L	10	SW 846 8240
Methylene chloride	ND	µg/L	5.0	SW 846 8240
Acetone	ND	µg/L	10	SW 846 8240
Carbon disulfide	ND	µg/L	5.0	SW 846 8240
1,1-Dichloroethene	ND	µg/L	5.0	SW 846 8240
1,1-Dichloroethane	ND	µg/L	5.0	SW 846 8240
1,2-Dichloroethylene (total)	180	µg/L	10	SW 846 8240
Chloroform	ND	µg/L	5.0	SW 846 8240
1,2-Dichloroethane	ND	µg/L	5.0	SW 846 8240
2-Butanone	ND	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	5.0	SW 846 8240
Carbon tetrachloride	ND	µg/L	5.0	SW 846 8240
Vinyl acetate	ND	µg/L	10	SW 846 8240

* Analysis performed in the field.

** The soluble value is slightly higher than the total value for this element. The difference is statistically insignificant.

*** Soluble results were higher than total results. Samples were rerun with similar results.

**** TCL Volatiles were subcontracted to Ecology and Environment, Inc.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-9

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Bromodichloromethane	ND	µg/L	5.0	SW 846 8240
1,2-Dichloropropane	ND	µg/L	5.0	SW 846 8240
cis-1,3-Dichloropropene	ND	µg/L	5.0	SW 846 8240
Trichloroethene	240	µg/L	10	SW 846 8240
Chlorodibromomethane	ND	µg/L	5.0	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	5.0	SW 846 8240
Benzene	ND	µg/L	5.0	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	5.0	SW 846 8240
2-Chloroethyl vinyl ether	ND	µg/L	10	SW 846 8240
Bromoform	ND	µg/L	5.0	SW 846 8240
4-Methyl-2-pentanone	ND	µg/L	10	SW 846 8240
2-Hexanone	ND	µg/L	10	SW 846 8240
Tetrachloroethene	160	µg/L	5.0	SW 846 8240
Toluene	ND	µg/L	5.0	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0	SW 846 8240
Chlorobenzene	ND	µg/L	5.0	SW 846 8240
Ethylbenzene	ND	µg/L	5.0	SW 846 8240
Styrene	ND	µg/L	5.0	SW 846 8240
m-Xylene	ND	µg/L	5.0	SW 846 8240
o/p-Xylene	ND	µg/L	5.0	SW 846 8240
Aniline	ND	µg/L	10	SW 846 8270
Benzoic acid	ND	µg/L	10	SW 846 8270
Benzyl alcohol	ND	µg/L	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-9

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270
Hexachloroethane	ND	µg/L	10	SW 846 8270
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270
2-Nitrophenol	ND	µg/L	10	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	10	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	10	SW 846 8270
Naphthalene	ND	µg/L	10	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	28	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	10	SW 846 8270
2-Methylnaphthalene	ND	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	10	SW 846 8270
2-Chloronaphthalene	ND	µg/L	10	SW 846 8270
2-Nitroaniline	ND	µg/L	10	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	10	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	10	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-9

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Dibenzofuran	ND	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	10	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Fluorene	ND	µg/L	10	SW 846 8270
4-Nitroaniline	ND	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Hexachlorobenzene	ND	µg/L	10	SW 846 8270
Pentachlorophenol	ND	µg/L	10	SW 846 8270
Phenanthrene	ND	µg/L	10	SW 846 8270
Anthracene	ND	µg/L	10	SW 846 8270
Carbazole	ND	µg/L	50	SW 846 8270
di-n-Butylphthalate	ND	µg/L	10	SW 846 8270
Fluoranthene	ND	µg/L	10	SW 846 8270
Pyrene	ND	µg/L	10	SW 846 8270
Butyl benzyl phthalate	ND	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	ND	µg/L	10	SW 846 8270
Benzo(a)anthracene	ND	µg/L	10	SW 846 8270
Chrysene	ND	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	ND	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7308-10

PROJECT ID: 7308

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	1.3	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	ND	mg/L	0.1	EPA 351.3
Total Iron	ND	mg/L	0.060	EPA 200.7
Total Potassium	ND	mg/L	1.8	EPA 200.7
Total Zinc	ND	mg/L	0.016	EPA 200.7
Chloromethane	ND	µg/L	10	SW 846 8240 ****
Bromomethane	ND	µg/L	10	SW 846 8240
Vinyl chloride	ND	µg/L	10	SW 846 8240
Chloroethane	ND	µg/L	10	SW 846 8240
Methylene chloride	ND	µg/L	5.0	SW 846 8240
Acetone	ND	µg/L	10	SW 846 8240
Carbon disulfide	ND	µg/L	5.0	SW 846 8240
1,1-Dichloroethene	ND	µg/L	5.0	SW 846 8240
1,1-Dichloroethane	ND	µg/L	5.0	SW 846 8240
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8240
Chloroform	ND	µg/L	5.0	SW 846 8240
1,2-Dichloroethane	ND	µg/L	5.0	SW 846 8240
2-Butanone	ND	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	5.0	SW 846 8240
Carbon tetrachloride	ND	µg/L	5.0	SW 846 8240
Vinyl acetate	ND	µg/L	10	SW 846 8240
Bromodichloromethane	ND	µg/L	5.0	SW 846 8240
1,2-Dichloropropane	ND	µg/L	5.0	SW 846 8240
cis-1,3-Dichloropropene	ND	µg/L	5.0	SW 846 8240
Trichloroethene	ND	µg/L	10	SW 846 8240
Chlorodibromomethane	ND	µg/L	5.0	SW 846 8240

* Analysis performed in the field.

**** TCL Volatiles were subcontracted to Ecology and Environment, Inc.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-10

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,1,2-Trichloroethane	ND	µg/L	5.0	SW 846 8240
Benzene	ND	µg/L	5.0	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	5.0	SW 846 8240
2-Chloroethyl vinyl ether	ND	µg/L	10	SW 846 8240
Bromoform	ND	µg/L	5.0	SW 846 8240
4-Methyl-2-pentanone	ND	µg/L	10	SW 846 8240
2-Hexanone	ND	µg/L	10	SW 846 8240
Tetrachloroethene	ND	µg/L	5.0	SW 846 8240
Toluene	ND	µg/L	5.0	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	5.0	SW 846 8240
Chlorobenzene	ND	µg/L	5.0	SW 846 8240
Ethylbenzene	ND	µg/L	5.0	SW 846 8240
Styrene	ND	µg/L	5.0	SW 846 8240
m-Xylene	ND	µg/L	5.0	SW 846 8240
o/p-Xylene	ND	µg/L	5.0	SW 846 8240
Aniline	ND	µg/L	10	SW 846 8270
Benzoic acid	ND	µg/L	10	SW 846 8270
Benzyl alcohol	ND	µg/L	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270
Hexachloroethane	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-10

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270
2-Nitrophenol	ND	µg/L	10	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	10	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	10	SW 846 8270
Naphthalene	ND	µg/L	10	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	ND	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	10	SW 846 8270
2-Methylnaphthalene	ND	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	10	SW 846 8270
2-Chloronaphthalene	ND	µg/L	10	SW 846 8270
2-Nitroaniline	ND	µg/L	10	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	10	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	10	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	10	SW 846 8270
Dibenzofuran	ND	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	10	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Fluorene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 11/20/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 73D8-10

PROJECT ID: 73D8

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
4-Nitroaniline	ND	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Hexachlorobenzene	ND	µg/L	10	SW 846 8270
Pentachlorophenol	ND	µg/L	10	SW 846 8270
Phenanthrene	ND	µg/L	10	SW 846 8270
Anthracene	ND	µg/L	10	SW 846 8270
Carbazole	ND	µg/L	50	SW 846 8270
di-n-Butylphthalate	ND	µg/L	10	SW 846 8270
Fluoranthene	ND	µg/L	10	SW 846 8270
Pyrene	ND	µg/L	10	SW 846 8270
Butyl benzyl phthalate	ND	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	ND	µg/L	10	SW 846 8270
Benzo(a)anthracene	ND	µg/L	10	SW 846 8270
Chrysene	ND	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	ND	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	ND	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 11/21/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 7308-11

PROJECT ID: 7308

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	71	NTU	0.1	EPA 180.1
Ammonia	1.4	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	2.4	mg/L	0.1	EPA 351.3
Total Iron	29	mg/L	0.060	EPA 200.7
Soluble Iron	ND	mg/L	0.060	EPA 200.7
Total Potassium	3.7	mg/L	1.8	EPA 200.7
Soluble Potassium	3.3	mg/L	1.8	EPA 200.7
Total Zinc	1.92	mg/L	0.016	EPA 200.7
Soluble Zinc	0.050	mg/L	0.016	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7308

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Ammonia	EPA 350.3	7308-8	Matrix Spike	87
Nitrite	HACH 8507	7308-8	Matrix Spike	100
Total Kjeldahl Nitrogen	EPA 351.3	7308-8	Matrix Spike	92
Total Iron	EPA 200.7	7308-8	Matrix Spike	91
Soluble Iron	EPA 200.7	7308-8	Matrix Spike	103
Total Potassium	EPA 200.7	7308-8	Matrix Spike	96
Soluble Potassium	EPA 200.7	7308-8	Matrix Spike	101
Total Zinc	EPA 200.7	7308-8	Matrix Spike	92
Soluble Zinc	EPA 200.7	7308-8	Matrix Spike	98
1,1-Dichloroethene	SW 846 8240	7308-8	Matrix Spike	115
1,1-Dichloroethene	SW 846 8240	7308-8	Matrix Spike Duplicate	113
Trichloroethene	SW 846 8240	7308-8	Matrix Spike	108
Trichloroethene	SW 846 8240	7308-8	Matrix Spike Duplicate	105
Benzene	SW 846 8240	7308-8	Matrix Spike	109
Benzene	SW 846 8240	7308-8	Matrix Spike Duplicate	109
Toluene	SW 846 8240	7308-8	Matrix Spike	107
Toluene	SW 846 8240	7308-8	Matrix Spike Duplicate	109
Chlorobenzene	SW 846 8240	7308-8	Matrix Spike	107
Chlorobenzene	SW 846 8240	7308-8	Matrix Spike Duplicate	107
Aniline	SW 846 8270	7308-8	Matrix Spike	52
Benzoic acid	SW 846 8270	7308-8	Matrix Spike	85
Benzyl alcohol	SW 846 8270	7308-8	Matrix Spike	29
Phenol	SW 846 8270	7308-8	Matrix Spike	19
bis(2-chloroethyl)ether	SW 846 8270	7308-8	Matrix Spike	50
2-Chlorophenol	SW 846 8270	7308-8	Matrix Spike	42
1,3-Dichlorobenzene	SW 846 8270	7308-8	Matrix Spike	15
1,4-Dichlorobenzene	SW 846 8270	7308-8	Matrix Spike	17
1,2-Dichlorobenzene	SW 846 8270	7308-8	Matrix Spike	20
2-Methylphenol	SW 846 8270	7308-8	Matrix Spike	44

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 73D8

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
bis(2-chloroisopropyl)ether	SW 846 8270	73D8-8	Matrix Spike	44
4-Methylphenol	SW 846 8270	73D8-8	Matrix Spike	35
n-Nitrosodi-n-propylamine	SW 846 8270	73D8-8	Matrix Spike	55
Hexachloroethane	SW 846 8270	73D8-8	Matrix Spike	10
Nitrobenzene	SW 846 8270	73D8-8	Matrix Spike	43
Isophorone	SW 846 8270	73D8-8	Matrix Spike	55
2-Nitrophenol	SW 846 8270	73D8-8	Matrix Spike	54
2,4-Dimethylphenol	SW 846 8270	73D8-8	Matrix Spike	44
bis(2-chloroethoxy)methane	SW 846 8270	73D8-8	Matrix Spike	51
2,4-Dichlorophenol	SW 846 8270	73D8-8	Matrix Spike	45
1,2,4-Trichlorobenzene	SW 846 8270	73D8-8	Matrix Spike	30
Naphthalene	SW 846 8270	73D8-8	Matrix Spike	36
Hexachlorobutadiene	SW 846 8270	73D8-8	Matrix Spike	24
4-Chloro-3-methylphenol	SW 846 8270	73D8-8	Matrix Spike	52
Hexachlorocyclopentadiene	SW 846 8270	73D8-8	Matrix Spike	69
2,4,6-Trichlorophenol	SW 846 8270	73D8-8	Matrix Spike	50
2,4,5-Trichlorophenol	SW 846 8270	73D8-8	Matrix Spike	50
2-Chloronaphthalene	SW 846 8270	73D8-8	Matrix Spike	45
Dimethyl phthalate	SW 846 8270	73D8-8	Matrix Spike	53
Acenaphthylene	SW 846 8270	73D8-8	Matrix Spike	48
2,6-Dinitrotoluene	SW 846 8270	73D8-8	Matrix Spike	56
Acenaphthene	SW 846 8270	73D8-8	Matrix Spike	46
2,4-Dinitrophenol	SW 846 8270	73D8-8	Matrix Spike	53
4-Nitrophenol	SW 846 8270	73D8-8	Matrix Spike	11
Dibenzofuran	SW 846 8270	73D8-8	Matrix Spike	50
2,4-Dinitrotoluene	SW 846 8270	73D8-8	Matrix Spike	57
Diethyl phthalate	SW 846 8270	73D8-8	Matrix Spike	51
4-Chlorophenyl phenyl ether	SW 846 8270	73D8-8	Matrix Spike	46
Fluorene	SW 846 8270	73D8-8	Matrix Spike	45

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7308

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
4-Nitroaniline	SW 846 8270	7308-8	Matrix Spike	51
4,6-Dinitro-2-methylphenol	SW 846 8270	7308-8	Matrix Spike	73
n-Nitrosodiphenylamine	SW 846 8270	7308-8	Matrix Spike	56
4-Bromophenyl phenyl ether	SW 846 8270	7308-8	Matrix Spike	56
Hexachlorobenzene	SW 846 8270	7308-8	Matrix Spike	57
Pentachlorophenol	SW 846 8270	7308-8	Matrix Spike	82
Phenanthrene	SW 846 8270	7308-8	Matrix Spike	46
Anthracene	SW 846 8270	7308-8	Matrix Spike	50
Carbazole	SW 846 8270	7308-8	Matrix Spike	58
di-n-Butylphthalate	SW 846 8270	7308-8	Matrix Spike	59
Fluoranthene	SW 846 8270	7308-8	Matrix Spike	53
Pyrene	SW 846 8270	7308-8	Matrix Spike	45
Butyl benzyl phthalate	SW 846 8270	7308-8	Matrix Spike	48
Benzo(a)anthracene	SW 846 8270	7308-8	Matrix Spike	48
Chrysene	SW 846 8270	7308-8	Matrix Spike	42
bis(2ethylhexyl)phthalate	SW 846 8270	7308-8	Matrix Spike	44
di-n-Octylphthalate	SW 846 8270	7308-8	Matrix Spike	54
Benzo(b)fluoranthene	SW 846 8270	7308-8	Matrix Spike	48
Benzo(k)fluoranthene	SW 846 8270	7308-8	Matrix Spike	48
Benzo(a)pyrene	SW 846 8270	7308-8	Matrix Spike	49
Indeno(1,2,3-cd)pyrene	SW 846 8270	7308-8	Matrix Spike	43
Dibenzo(a,h)anthracene	SW 846 8270	7308-8	Matrix Spike	43
Benzo(g,h,i)perylene	SW 846 8270	7308-8	Matrix Spike	39

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 73D8

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Ammonia	EPA 350.3	73D8-8	Duplicate	NA
Nitrite	HACH 8507	73D8-8	Duplicate	NA
Total Kjeldahl Nitrogen	EPA 351.3	73D8-8	Duplicate	1.5
Total Iron	EPA 200.7	73D8-8	Duplicate	1.5
Soluble Iron	EPA 200.7	73D8-8	Duplicate	1.1
Total Potassium	EPA 200.7	73D8-8	Duplicate	NA
Soluble Potassium	EPA 200.7	73D8-8	Duplicate	NA
Total Zinc	EPA 200.7	73D8-8	Duplicate	NA
Soluble Zinc	EPA 200.7	73D8-8	Duplicate	NA
1,1-Dichloroethene	SW 846 8240	73D8-8	Duplicate	1.2 **
Trichloroethene	SW 846 8240	73D8-8	Duplicate	3.0 **
Benzene	SW 846 8240	73D8-8	Duplicate	0.6 **
Toluene	SW 846 8240	73D8-8	Duplicate	2.0 **
Chlorobenzene	SW 846 8240	73D8-8	Duplicate	0.2 **
Aniline	SW 846 8270	73D8-8	Duplicate	NA
Benzoic acid	SW 846 8270	73D8-8	Duplicate	NA
Benzyl alcohol	SW 846 8270	73D8-8	Duplicate	NA
Phenol	SW 846 8270	73D8-8	Duplicate	NA
bis(2-chloroethyl)ether	SW 846 8270	73D8-8	Duplicate	NA
2-Chlorophenol	SW 846 8270	73D8-8	Duplicate	NA
1,3-Dichlorobenzene	SW 846 8270	73D8-8	Duplicate	NA
1,4-Dichlorobenzene	SW 846 8270	73D8-8	Duplicate	NA
1,2-Dichlorobenzene	SW 846 8270	73D8-8	Duplicate	NA
2-Methylphenol	SW 846 8270	73D8-8	Duplicate	NA
bis(2-chloroisopropyl)ether	SW 846 8270	73D8-8	Duplicate	NA
4-Methylphenol	SW 846 8270	73D8-8	Duplicate	NA
n-Nitrosodi-n-propylamine	SW 846 8270	73D8-8	Duplicate	NA

NA = NOT AVAILABLE - ORIGINAL AND/OR DUPLICATE RESULTS ARE BELOW REPORTED LIMITS

* Matrix spike duplicate.

** Method 8240 duplicates represent relative percent dif. between spike & spike duplicate.

=====

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7308

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Hexachloroethane	SW 846 8270	7308-8	Duplicate	NA
Nitrobenzene	SW 846 8270	7308-8	Duplicate	NA
Isophorone	SW 846 8270	7308-8	Duplicate	NA
2-Nitrophenol	SW 846 8270	7308-8	Duplicate	NA
2,4-Dimethylphenol	SW 846 8270	7308-8	Duplicate	NA
bis(2-chloroethoxy)methane	SW 846 8270	7308-8	Duplicate	NA
2,4-Dichlorophenol	SW 846 8270	7308-8	Duplicate	NA
1,2,4-Trichlorobenzene	SW 846 8270	7308-8	Duplicate	NA
Naphthalene	SW 846 8270	7308-8	Duplicate	NA
4-Chloroaniline	SW 846 8270	7308-8	Duplicate	NA
Hexachlorobutadiene	SW 846 8270	7308-8	Duplicate	NA
4-Chloro-3-methylphenol	SW 846 8270	7308-8	Duplicate	NA
2-Methylnaphthalene	SW 846 8270	7308-8	Duplicate	NA
Hexachlorocyclopentadiene	SW 846 8270	7308-8	Duplicate	NA
2,4,6-Trichlorophenol	SW 846 8270	7308-8	Duplicate	NA
2,4,5-Trichlorophenol	SW 846 8270	7308-8	Duplicate	NA
2-Chloronaphthalene	SW 846 8270	7308-8	Duplicate	NA
2-Nitroaniline	SW 846 8270	7308-8	Duplicate	NA
Dimethyl phthalate	SW 846 8270	7308-8	Duplicate	NA
Acenaphthylene	SW 846 8270	7308-8	Duplicate	NA
2,6-Dinitrotoluene	SW 846 8270	7308-8	Duplicate	NA
3-Nitroaniline	SW 846 8270	7308-8	Duplicate	NA
Acenaphthene	SW 846 8270	7308-8	Duplicate	NA
2,4-Dinitrophenol	SW 846 8270	7308-8	Duplicate	NA
4-Nitrophenol	SW 846 8270	7308-8	Duplicate	NA
Dibenzofuran	SW 846 8270	7308-8	Duplicate	NA
2,4-Dinitrotoluene	SW 846 8270	7308-8	Duplicate	NA
Diethyl phthalate	SW 846 8270	7308-8	Duplicate	NA

NA = NOT AVAILABLE - ORIGINAL AND/OR DUPLICATE RESULTS ARE BELOW REPORTED LIMITS

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7308

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
4-Chlorophenyl phenyl ether	SW 846 8270	7308-8	Duplicate	NA
Fluorene	SW 846 8270	7308-8	Duplicate	NA
4-Nitroaniline	SW 846 8270	7308-8	Duplicate	NA
4,6-Dinitro-2-methylphenol	SW 846 8270	7308-8	Duplicate	NA
n-Nitrosodiphenylamine	SW 846 8270	7308-8	Duplicate	NA
4-Bromophenyl phenyl ether	SW 846 8270	7308-8	Duplicate	NA
Hexachlorobenzene	SW 846 8270	7308-8	Duplicate	NA
Pentachlorophenol	SW 846 8270	7308-8	Duplicate	NA
Phenanthrene	SW 846 8270	7308-8	Duplicate	NA
Anthracene	SW 846 8270	7308-8	Duplicate	NA
Carbazole	SW 846 8270	7308-8	Duplicate	NA
di-n-Butylphthalate	SW 846 8270	7308-8	Duplicate	NA
Fluoranthene	SW 846 8270	7308-8	Duplicate	NA
Pyrene	SW 846 8270	7308-8	Duplicate	NA
Butyl benzyl phthalate	SW 846 8270	7308-8	Duplicate	NA
3,3'-Dichlorobenzidine	SW 846 8270	7308-8	Duplicate	NA
Benzo(a)anthracene	SW 846 8270	7308-8	Duplicate	NA
Chrysene	SW 846 8270	7308-8	Duplicate	NA
bis(2ethylhexyl)phthalate	SW 846 8270	7308-8	Duplicate	NA
di-n-Octylphthalate	SW 846 8270	7308-8	Duplicate	NA
Benzo(b)fluoranthene	SW 846 8270	7308-8	Duplicate	NA
Benzo(k)fluoranthene	SW 846 8270	7308-8	Duplicate	NA
Benzo(a)pyrene	SW 846 8270	7308-8	Duplicate	NA
Indeno(1,2,3-cd)pyrene	SW 846 8270	7308-8	Duplicate	NA
Dibenzo(a,h)anthracene	SW 846 8270	7308-8	Duplicate	NA
Benzo(g,h,i)perylene	SW 846 8270	7308-8	Duplicate	NA

NA = NOT AVAILABLE - ORIGINAL AND/OR DUPLICATE RESULTS ARE BELOW REPORTED LIMITS

Project Identification

[illegible]

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology

Advanced Environmental Services, Inc.
Sample Traceability Report

Project Identification

CTC 73D8

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
73D8-6	11/20/97	-	-	3510 8270	11/26/97	SH	8270	12/03/97	LB
1-8	11/21/97	-	-						
1-9	11/20/97	-	-						
1-10	11/20/97	-	-						

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology

Project Identification

[illegible]

Please note: Areas marked by a dash indicate that no sample preparation is required under the applied methodology.

ADVANCED
ENVIRONMENTAL SERVICES INC.

(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

SAMPLER'S SIGNATURE: [Signature]

JOB CODE: CTC

TOTAL NUMBER OF CONTAINERS 29

RECEIVED BY:

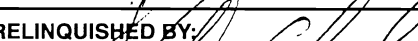
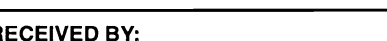
ADVANCED
ENVIRONMENTAL SERVICES INC.

(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

SAMPLER'S SIGNATURE:

JOB CODE: CTC

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: 	DATE 11-19-97	TIME 3:50 pm	RECEIVED BY: 
2. RELINQUISHED BY: 	DATE	TIME	RECEIVED BY: 
3. RELINQUISHED BY: 	DATE	TIME	RECEIVED BY: 

CHAIN OF CUSTODY RECORD



ENVIRONMENTAL SERVICES, INC.
2186 Liberty Drive
Niagara Falls, NY 14304

(716) 283-3120
(800) 791-3120
Fax (716) 283-4727

CUSTOMER NAME: WCAR CARBON

PROJECT NAME: _____

SAMPLER'S SIGNATURE: [Signature]

CONTAINER CLASSIFICATION									
UNPRESERVED	HNO ₃	H ₂ SO ₄	HCL	NaOH	VIAL (PRES.)	VIAL (UNPRES.)	OTHER	TOTAL	

PROJECT I.D.#: 73D8

JOB CODE: CTC

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	UNPRESERVED	HNO ₃	H ₂ SO ₄	HCL	NaOH	VIAL (PRES.)	VIAL (UNPRES.)	OTHER	TOTAL	PARAMETERS / REMARKS
11-20-97	11:05 AM	BW-2	X		WATER	1	2	1						4	TOTAL 9 SOL METALS, TRN
	1:40 PM	BW-3	X			1	2	1						4	AMMONIA, NITRITE, *TURB
	10:20 AM	MW-3	X			1	2	1						4	
	9:30 AM	TRIP BLANK	X		P.I. WATER	3	1	1		2				7	TOTAL METALS, TRN, AMMONIA, NITRITE, *TURB TCLV, TCLSV.
	2:25 PM	BW-4	X		WATER	2	2	1		2				7	TOTAL 9 SOL METALS, TRN
		BLIND DUPLICATE	X		"	2	2	1		2				7	AMMONIA, NITRITE, *TURB TCLV, TCLSV

TOTAL NUMBER OF CONTAINERS 33

NOTE: Please indicate required analysis, and whom we may contact with questions, if you have not yet done so through your customer service representative.

1. RELINQUISHED BY: <u>[Signature]</u>	DATE 11-20-97	TIME 4:00 PM	RECEIVED BY: <u>[Signature]</u>
2. RELINQUISHED BY: _____	DATE	TIME	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE	TIME	RECEIVED BY: _____