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UCAR CARBON COMPANY INC. P.O. BOX 887, NIAGARA FALLS, NEW YORK 14302

MAR 20 1995

March 17, 1995

NYSDEC-REG. 9
FOIL
☒ REL ☐ UNREL

32nk

Mr. Peter J. Buechi, PE
Regional Engineer
NYS Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

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

Dear Mr. Buechi:

I am enclosing a copy of the twenty-eighth quarter's groundwater sampling analysis from the closed Republic Waste Management Facility. Bedrock well, BW-4-86, continues to demonstrate some slight volatile organic contamination in the less than one part per million range.

The following will summarize the positive organic parameters:

<u>Contaminate</u>	<u>Conc. 28th</u> <u>Qtr. ppb.</u>	<u>Mean Conc.</u> <u>ppb.</u>	<u>Range</u> <u>ppb</u>
Trans-1,2-Dichlorethene	420	378	6-1000
Trichloroethene	170	300	30-740
Tetrachloroethene	140	253	72-440
Hexachlorobutadiene	36	52	10-160
Vinyl Chloride	130	96	29-300

UCAR Carbon Company Inc. continues to maintain the position that this contamination at well, BW-4-86 is not related to the closed Republic Waste Management Facility given the fact that

Letter to Peter J. Buechi
March 17, 1995
Page 2

downgradient bedrock well, BW-6-86, continues to show no similar contamination.

Per the February 3, 1995 request from your Buffalo Office, we have discontinued sending Albany Central Office a copy of this report.

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

Very truly yours,

A handwritten signature in cursive script, appearing to read "A.C. Ogg".

A.C. Ogg
Site Manager

A.C. Ogg
nm
enc.

cc: Mr. Jim Devald, Dir. of Environmental Health
Niagara County Health Department
P.O. Box 428
Niagara Falls, N.Y. 14302-0428

UCAR CARBON COMPANY, INCORPORATED

REPUBLIC WASTE MANAGEMENT FACILITY

POST CLOSURE MONITORING PROGRAM

QUARTERLY REPORT

FIRST QUARTER 1995

Prepared By:



"A Company Dedicated to Honesty, Quality and Service"

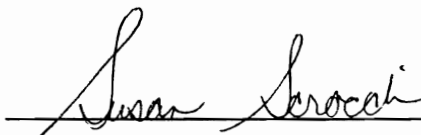
March 16, 1995
REF: CTC51D3/100B

QA/QC VERIFICATION FOR PROJECT ID 51D3

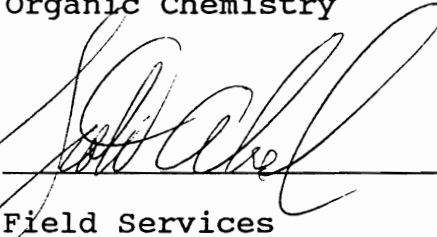
The following report, as well as the supporting data, have been carefully reviewed for accuracy, adherence to the cited methods, and completeness. All data contained in this report was generated in accordance with the AES Laboratory Quality Assurance/Quality Control Program.



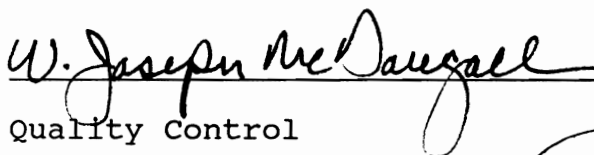
Inorganic Chemistry



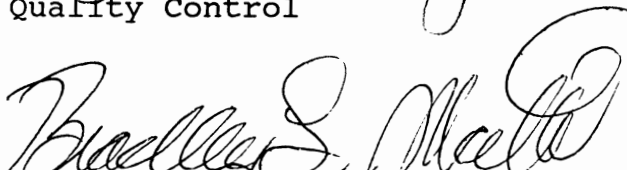
Organic Chemistry



Field Services



Quality Control



Bradley Martin
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

ADVANCED ENVIRONMENTAL SERVICES, INC.

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION

February 22, 1995 thru February 24, 1995

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

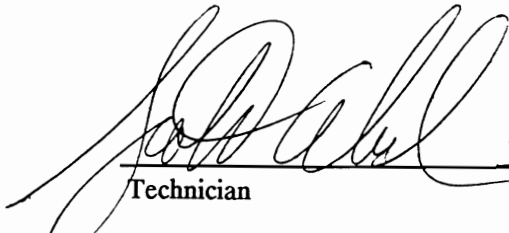
AES Code: CTC

Project I.D. # 51D3

Monitoring Well I.D.	Sampling Date	Sampling Time	Water Level (ft.)	Turbidity (NTU)	Filter Time	Field Comments / Observations
BW-1	2/24/95	3:05 PM	14.85	86.0	3:05 PM	Slightly turbid tan, no odor.
BW-2	2/22/95	3:15 PM	12.05	12.0	3:15 PM	Clear, strong odor.
BW-3	2/23/95	11:35 AM	7.61	15.0	11:35 AM	Clear, no odor
BW-4	2/23/95	11:05 AM	8.85	92.0	4:10 PM	Clear with sheen and black particulates
BW-5	2/23/95	3:10 PM	5.72	11.0	3:10 PM	Clear
BW-6	2/24/95	1:35 PM	14.15	51.0	1:35 PM	Slightly turbid tan
MW-1	2/23/95	2:45 PM	10.67	16.0	4:20 PM	Slightly cloudy
MW-2	2/24/95	2:05 PM	22.99	185.00	2:45 PM	Clear to orange
* MW-3	2/22/95	NS	NS	NS	NS	NS
OW-1 South	N/A	N/A	N/A	N/A	N/A	N/A
OW-2 North	N/A	N/A	N/A	N/A	N/A	N/A
Blind Duplicate	2/23/95	11:05 AM	8.85	95.0	4:15 PM	Clear with sheen and black particulates
Trip Blank	2/24/95	10:15 AM	N/A	5.50	N/A	Very Clear Deionized Water.

* Groundwater frozen at approximately three feet (3') below the top of the riser pipe.
The blind duplicate site was BW-4 and the quality control site was BW-6.

N/A = Not Applicable


Technician
3-15-95
Date

ADVANCED ENVIRONMENTAL SERVICES, INC.

QUARTERLY GROUNDWATER MONITORING - WELL INFORMATION February 22, 1995 thru February 24, 1995

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 51D3

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	2/24/95	610.72	4	14.61	596.11	34.50	12.98	40.0	C
BW-2	2/22/95	608.43	4	11.95	596.48	35.00	15.05	40.0	C
BW-3	2/23/95	604.72	4	7.61	597.11	22.40	9.65	28.0	C
BW-4	2/23/95	607.08	4	8.05	599.03	25.00	11.06	35.0	C
BW-5	2/23/95	603.33	4	5.72	597.61	24.90	12.52	40.0	C
BW-6	2/24/95	607.04	4	13.26	593.78	32.90	12.82	40.0	C
MW-1	2/22/95	609.43	2	10.60	598.83	21.10	1.71	2.25 (Dry)	S
MW-2	2/22/95	607.54	3	9.24	598.30	24.60	5.64	5.0 (Dry)	R
MW-2	2/23/95	607.54	3	9.24	598.30	24.60	5.64	8.0 (Dry)	R
* MW-3	2/22/95	601.61	2	3.00	598.61	15.25	2.00	0.0	Frozen
OW-1 SOUTH	2/24/95	608.81	2	5.57	603.24	8.70	0.51	NR	N/A
OW-2 NORTH	2/24/95	607.06	2	5.64	601.42	9.74	0.67	NR	N/A

* Groundwater frozen at approximately three feet (3') below the top of casing.

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.


Field Technician

3-15-95
Date

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/23/95 - 14:45
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 5103-1

PROJECT ID: 5103

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	16.0	NTU	0.1	EPA 180.1
Ammonia	8.5 **	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	7.0	mg/L	0.1	EPA 351.2
Total Iron	3.9	mg/L	0.05	EPA 200.7
Soluble Iron	BQL	mg/L	0.05	EPA 200.7
Total Potassium	37	mg/L	1.0	EPA 200.7
Soluble Potassium	40	mg/L	1.0	EPA 200.7
Total Zinc	0.04	mg/L	0.02	EPA 200.7
Soluble Zinc	BQL	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

** Ammonia is greater than TKN but the relative percent difference is less than the ASP guideline of 20%.
This difference is not significant.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/24/95 - 15:05
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 51D3-3

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	86.0	NTU	0.1	EPA 180.1
Ammonia	0.4	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	0.4	mg/L	0.1	EPA 351.2
Total Iron	2.9	mg/L	0.05	EPA 200.7
Soluble Iron	1.1	mg/L	0.05	EPA 200.7
Total Potassium	3.3	mg/L	1.0	EPA 200.7
Soluble Potassium	3.4	mg/L	1.0	EPA 200.7
Total Zinc	1.2	mg/L	0.02	EPA 200.7
Soluble Zinc	0.03	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/22/95 - 02/23/95
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 51D3-4

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	12.0	NTU	0.1	EPA 180.1
Ammonia	1.5	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	2.0	mg/L	0.1	EPA 351.2
Total Iron	2.7	mg/L	0.05	EPA 200.7
Soluble Iron	2.8	mg/L	0.05	EPA 200.7
Total Potassium	3.4	mg/L	1.0	EPA 200.7
Soluble Potassium	2.7	mg/L	1.0	EPA 200.7
Total Zinc	0.08	mg/L	0.02	EPA 200.7
Soluble Zinc	BQL	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/23/95 - 11:35
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 5103-5

PROJECT ID: 5103

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	15.0	NTU	0.1	EPA 180.1
Ammonia	1.3 **	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	0.8	mg/L	0.1	EPA 351.2
Total Iron	1.3	mg/L	0.05	EPA 200.7
Soluble Iron	1.3	mg/L	0.05	EPA 200.7
Total Potassium	6.3	mg/L	1.0	EPA 200.7
Soluble Potassium	6.8	mg/L	1.0	EPA 200.7
Total Zinc	0.10	mg/L	0.02	EPA 200.7
Soluble Zinc	0.08	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

** Ammonia is greater than TKN; the relative percent difference is greater than the ASP guideline of 20%. Both parameters were analyzed twice with similar results.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/23/95 - 11:05
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-6

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	92.0	NTU	0.1	EPA 180.1
Ammonia	3.0 **	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	2.5	mg/L	0.1	EPA 351.2
Total Iron	25	mg/L	0.05	EPA 200.7
Soluble Iron	1.9	mg/L	0.05	EPA 200.7
Total Potassium	12	mg/L	1.0	EPA 200.7
Soluble Potassium	12	mg/L	1.0	EPA 200.7
Total Zinc	16	mg/L	0.02	EPA 200.7
Soluble Zinc	0.07	mg/L	0.02	EPA 200.7
Chloromethane	BQL	µg/L	10	SW 846 8240
Bromomethane	BQL	µg/L	10	SW 846 8240
Vinyl chloride	130	µg/L	10	SW 846 8240
Chloroethane	BQL	µg/L	10	SW 846 8240
Methylene chloride	BQL	µg/L	10	SW 846 8240
Acetone	BQL	µg/L	10	SW 846 8240
Carbon disulfide	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethene	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethane	BQL	µg/L	10	SW 846 8240
trans-1,2-Dichloroethene	420	µg/L	10	SW 846 8240
Chloroform	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethane	BQL	µg/L	10	SW 846 8240
2-Butanone	BQL	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	BQL	µg/L	10	SW 846 8240
Carbon tetrachloride	BQL	µg/L	10	SW 846 8240
Vinyl acetate	BQL	µg/L	10	SW 846 8240
Bromodichloromethane	BQL	µg/L	10	SW 846 8240

* Analysis performed in the field.

** Ammonia is greater than TKN but the relative percent difference is less than the ASP guideline of 20%. This difference is not significant.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/23/95 - 11:05
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-6

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,2-Dichloropropane	BQL	µg/L	10	SW 846 8240
cis-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Trichloroethene	170	µg/L	10	SW 846 8240
Benzene	BQL	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Chlorodibromomethane	BQL	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	BQL	µg/L	10	SW 846 8240
Bromoform	BQL	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	BQL	µg/L	10	SW 846 8240
2-Hexanone	BQL	µg/L	10	SW 846 8240
Tetrachloroethene	140	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	µg/L	10	SW 846 8240
Toluene	BQL	µg/L	10	SW 846 8240
Chlorobenzene	BQL	µg/L	10	SW 846 8240
Ethylbenzene	BQL	µg/L	10	SW 846 8240
Styrene	BQL	µg/L	10	SW 846 8240
m-Xylene	BQL	µg/L	10	SW 846 8240
o/p-Xylene	BQL	µg/L	10	SW 846 8240
bis(2-chloroethyl)ether	BQL	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
Benzyl alcohol	BQL	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	BQL	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	BQL	µg/L	10	SW 846 8270
Hexachloroethane	BQL	µg/L	10	SW 846 8270
Nitrobenzene	BQL	µg/L	10	SW 846 8270
Isophorone	BQL	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/23/95 - 11:05
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-6

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,2,4-Trichlorobenzene	BQL	µg/L	10	SW 846 8270
Naphthalene	BQL	µg/L	10	SW 846 8270
4-Chloroaniline	BQL	µg/L	10	SW 846 8270
Hexachlorobutadiene	36	µg/L	10	SW 846 8270
2-Methylnaphthalene	BQL	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	BQL	µg/L	10	SW 846 8270
2-Chloronaphthalene	BQL	µg/L	10	SW 846 8270
2-Nitroaniline	BQL	µg/L	10	SW 846 8270
Dimethyl phthalate	BQL	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Acenaphthylene	BQL	µg/L	10	SW 846 8270
3-Nitroaniline	BQL	µg/L	10	SW 846 8270
Acenaphthene	BQL	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Dibenzofuran	BQL	µg/L	10	SW 846 8270
Diethyl phthalate	BQL	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Fluorene	BQL	µg/L	10	SW 846 8270
4-Nitroaniline	BQL	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	BQL	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Hexachlorobenzene	BQL	µg/L	10	SW 846 8270
Phenanthrene	BQL	µg/L	10	SW 846 8270
Anthracene	BQL	µg/L	10	SW 846 8270
di-n-Butylphthalate	BQL	µg/L	10	SW 846 8270
Fluoranthene	BQL	µg/L	10	SW 846 8270
Pyrene	BQL	µg/L	10	SW 846 8270
Butyl benzyl phthalate	BQL	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/23/95 - 11:05
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-6

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
bis(2ethylhexyl)phthalate	BQL	µg/L	10	SW 846 8270
Benzo(a)anthracene	BQL	µg/L	10	SW 846 8270
Chrysene	BQL	µg/L	10	SW 846 8270
di-n-Octylphthalate	BQL	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(a)pyrene	BQL	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	BQL	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	BQL	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	BQL	µg/L	10	SW 846 8270
Phenol	BQL	µg/L	10	SW 846 8270
2-Chlorophenol	BQL	µg/L	10	SW 846 8270
2-Methylphenol	BQL	µg/L	10	SW 846 8270
4-Methylphenol	BQL	µg/L	10	SW 846 8270
2-Nitrophenol	BQL	µg/L	10	SW 846 8270
2,4-Dimethylphenol	BQL	µg/L	10	SW 846 8270
Benzoic acid	BQL	µg/L	10	SW 846 8270
2,4-Dichlorophenol	BQL	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	BQL	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4-Dinitrophenol	BQL	µg/L	10	SW 846 8270
4-Nitrophenol	BQL	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	µg/L	10	SW 846 8270
Pentachlorophenol	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-5
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/23/95 - 15:10
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 51D3-7

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	11.0	NTU	0.1	EPA 180.1
Ammonia	0.09	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	BQL	mg/L	0.1	EPA 351.2
Total Iron	1.0	mg/L	0.05	EPA 200.7
Soluble Iron	1.0	mg/L	0.05	EPA 200.7
Total Potassium	BQL	mg/L	1.0	EPA 200.7
Soluble Potassium	BQL	mg/L	1.0	EPA 200.7
Total Zinc	0.09	mg/L	0.02	EPA 200.7
Soluble Zinc	0.10	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/24/95 - 13:35
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 5103-8

PROJECT ID: 5103

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	51.0	NTU	0.1	EPA 180.1
Ammonia	0.14 **	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	0.13	mg/L	0.1	EPA 351.2
Total Iron	7.3	mg/L	0.05	EPA 200.7
Soluble Iron	3.3	mg/L	0.05	EPA 200.7
Total Potassium	BQL	mg/L	1.0	EPA 200.7
Soluble Potassium	BQL	mg/L	1.0	EPA 200.7
Total Zinc	BQL	mg/L	0.02	EPA 200.7
Soluble Zinc	BQL	mg/L	0.02	EPA 200.7
Chloromethane	BQL	µg/L	10	SW 846 8240
Bromomethane	BQL	µg/L	10	SW 846 8240
Vinyl chloride	BQL	µg/L	10	SW 846 8240
Chloroethane	BQL	µg/L	10	SW 846 8240
Methylene chloride	BQL	µg/L	10	SW 846 8240
Acetone	BQL	µg/L	10	SW 846 8240
Carbon disulfide	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethene	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethane	BQL	µg/L	10	SW 846 8240
trans-1,2-Dichloroethene	BQL	µg/L	10	SW 846 8240
Chloroform	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethane	BQL	µg/L	10	SW 846 8240
2-Butanone	BQL	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	BQL	µg/L	10	SW 846 8240
Carbon tetrachloride	BQL	µg/L	10	SW 846 8240
Vinyl acetate	BQL	µg/L	10	SW 846 8240
Bromodichloromethane	BQL	µg/L	10	SW 846 8240

* Analysis performed in the field.

** Ammonia is greater than TKN but the relative percent difference is less than the ASP guideline of 20%.
 This difference is not significant.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/24/95 - 13:35
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-8

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,2-Dichloropropane	BQL	µg/L	10	SW 846 8240
cis-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Trichloroethene	BQL	µg/L	10	SW 846 8240
Benzene	BQL	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Chlorodibromomethane	BQL	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	BQL	µg/L	10	SW 846 8240
Bromoform	BQL	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	BQL	µg/L	10	SW 846 8240
2-Hexanone	BQL	µg/L	10	SW 846 8240
Tetrachloroethene	BQL	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	µg/L	10	SW 846 8240
Toluene	BQL	µg/L	10	SW 846 8240
Chlorobenzene	BQL	µg/L	10	SW 846 8240
Ethylbenzene	BQL	µg/L	10	SW 846 8240
Styrene	BQL	µg/L	10	SW 846 8240
m-Xylene	BQL	µg/L	10	SW 846 8240
o/p-Xylene	BQL	µg/L	10	SW 846 8240
bis(2-chloroethyl)ether	BQL	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
Benzyl alcohol	BQL	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	BQL	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	BQL	µg/L	10	SW 846 8270
Hexachloroethane	BQL	µg/L	10	SW 846 8270
Nitrobenzene	BQL	µg/L	10	SW 846 8270
Isophorone	BQL	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/24/95 - 13:35
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-8

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
1,2,4-Trichlorobenzene	BQL	µg/L	10	SW 846 8270
Naphthalene	BQL	µg/L	10	SW 846 8270
4-Chloroaniline	BQL	µg/L	10	SW 846 8270
Hexachlorobutadiene	BQL	µg/L	10	SW 846 8270
2-Methylnaphthalene	BQL	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	BQL	µg/L	10	SW 846 8270
2-Chloronaphthalene	BQL	µg/L	10	SW 846 8270
2-Nitroaniline	BQL	µg/L	10	SW 846 8270
Dimethyl phthalate	BQL	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Acenaphthylene	BQL	µg/L	10	SW 846 8270
3-Nitroaniline	BQL	µg/L	10	SW 846 8270
Acenaphthene	BQL	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Dibenzofuran	BQL	µg/L	10	SW 846 8270
Diethyl phthalate	BQL	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Fluorene	BQL	µg/L	10	SW 846 8270
4-Nitroaniline	BQL	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	BQL	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Hexachlorobenzene	BQL	µg/L	10	SW 846 8270
Phenanthrene	BQL	µg/L	10	SW 846 8270
Anthracene	BQL	µg/L	10	SW 846 8270
di-n-Butylphthalate	BQL	µg/L	10	SW 846 8270
Fluoranthene	BQL	µg/L	10	SW 846 8270
Pyrene	BQL	µg/L	10	SW 846 8270
Butyl benzyl phthalate	BQL	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/24/95 - 13:35
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-8

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
bis(2ethylhexyl)phthalate	BQL	µg/L	10	SW 846 8270
Benzo(a)anthracene	BQL	µg/L	10	SW 846 8270
Chrysene	BQL	µg/L	10	SW 846 8270
di-n-Octylphthalate	BQL	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(a)pyrene	BQL	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	BQL	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	BQL	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	BQL	µg/L	10	SW 846 8270
Phenol	BQL	µg/L	10	SW 846 8270
2-Chlorophenol	BQL	µg/L	10	SW 846 8270
2-Methylphenol	BQL	µg/L	10	SW 846 8270
4-Methylphenol	BQL	µg/L	10	SW 846 8270
2-Nitrophenol	BQL	µg/L	10	SW 846 8270
2,4-Dimethylphenol	BQL	µg/L	10	SW 846 8270
Benzoic acid	BQL	µg/L	10	SW 846 8270
2,4-Dichlorophenol	BQL	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	BQL	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4-Dinitrophenol	BQL	µg/L	10	SW 846 8270
4-Nitrophenol	BQL	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	µg/L	10	SW 846 8270
Pentachlorophenol	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/23/95
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-9

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	95.0	NTU	0.1	EPA 180.1
Ammonia	2.0	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	2.7	mg/L	0.1	EPA 351.2
Total Iron	20	mg/L	0.05	EPA 200.7
Soluble Iron	1.8	mg/L	0.05	EPA 200.7
Total Potassium	11	mg/L	1.0	EPA 200.7
Soluble Potassium	11	mg/L	1.0	EPA 200.7
Total Zinc	13	mg/L	0.02	EPA 200.7
Soluble Zinc	0.07	mg/L	0.02	EPA 200.7
Chloromethane	BQL	µg/L	10	SW 846 8240
Bromomethane	BQL	µg/L	10	SW 846 8240
Vinyl chloride	140	µg/L	10	SW 846 8240
Chloroethane	BQL	µg/L	10	SW 846 8240
Methylene chloride	BQL	µg/L	10	SW 846 8240
Acetone	BQL	µg/L	10	SW 846 8240
Carbon disulfide	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethene	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethane	BQL	µg/L	10	SW 846 8240
trans-1,2-Dichloroethene	400	µg/L	10	SW 846 8240
Chloroform	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethane	BQL	µg/L	10	SW 846 8240
2-Butanone	BQL	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	BQL	µg/L	10	SW 846 8240
Carbon tetrachloride	BQL	µg/L	10	SW 846 8240
Vinyl acetate	BQL	µg/L	10	SW 846 8240
Bromodichloromethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloropropane	BQL	µg/L	10	SW 846 8240

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/23/95
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 5103-9

PROJECT ID: 5103

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
cis-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Trichloroethene	170	µg/L	10	SW 846 8240
Benzene	BQL	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Chlorodibromomethane	BQL	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	BQL	µg/L	10	SW 846 8240
Bromoform	BQL	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	BQL	µg/L	10	SW 846 8240
2-Hexanone	BQL	µg/L	10	SW 846 8240
Tetrachloroethene	140	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	µg/L	10	SW 846 8240
Toluene	BQL	µg/L	10	SW 846 8240
Chlorobenzene	BQL	µg/L	10	SW 846 8240
Ethylbenzene	BQL	µg/L	10	SW 846 8240
Styrene	BQL	µg/L	10	SW 846 8240
m-Xylene	BQL	µg/L	10	SW 846 8240
o/p-Xylene	BQL	µg/L	10	SW 846 8240
bis(2-chloroethyl)ether	BQL	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
Benzyl alcohol	BQL	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	BQL	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	BQL	µg/L	10	SW 846 8270
Hexachloroethane	BQL	µg/L	10	SW 846 8270
Nitrobenzene	BQL	µg/L	10	SW 846 8270
Isophorone	BQL	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	BQL	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/23/95
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-9

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Naphthalene	BQL	µg/L	10	SW 846 8270
4-Chloroaniline	BQL	µg/L	10	SW 846 8270
Hexachlorobutadiene	41	µg/L	10	SW 846 8270
2-Methylnaphthalene	BQL	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	BQL	µg/L	10	SW 846 8270
2-Chloronaphthalene	BQL	µg/L	10	SW 846 8270
2-Nitroaniline	BQL	µg/L	10	SW 846 8270
Dimethyl phthalate	BQL	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Acenaphthylene	BQL	µg/L	10	SW 846 8270
3-Nitroaniline	BQL	µg/L	10	SW 846 8270
Acenaphthene	BQL	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Dibenzofuran	BQL	µg/L	10	SW 846 8270
Diethyl phthalate	BQL	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Fluorene	BQL	µg/L	10	SW 846 8270
4-Nitroaniline	BQL	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	BQL	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Hexachlorobenzene	BQL	µg/L	10	SW 846 8270
Phenanthrene	BQL	µg/L	10	SW 846 8270
Anthracene	BQL	µg/L	10	SW 846 8270
di-n-Butylphthalate	BQL	µg/L	10	SW 846 8270
Fluoranthene	BQL	µg/L	10	SW 846 8270
Pyrene	BQL	µg/L	10	SW 846 8270
Butyl benzyl phthalate	BQL	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	BQL	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/23/95
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-9

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzo(a)anthracene	BQL	µg/L	10	SW 846 8270
Chrysene	BQL	µg/L	10	SW 846 8270
di-n-Octylphthalate	BQL	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(a)pyrene	BQL	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	BQL	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	BQL	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	BQL	µg/L	10	SW 846 8270
Phenol	BQL	µg/L	10	SW 846 8270
2-Chlorophenol	BQL	µg/L	10	SW 846 8270
2-Methylphenol	BQL	µg/L	10	SW 846 8270
4-Methylphenol	BQL	µg/L	10	SW 846 8270
2-Nitrophenol	BQL	µg/L	10	SW 846 8270
2,4-Dimethylphenol	BQL	µg/L	10	SW 846 8270
Benzoic acid	BQL	µg/L	10	SW 846 8270
2,4-Dichlorophenol	BQL	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	BQL	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4-Dinitrophenol	BQL	µg/L	10	SW 846 8270
4-Nitrophenol	BQL	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	µg/L	10	SW 846 8270
Pentachlorophenol	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/24/95 - 10:15
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-10

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	5.5	NTU	0.1	EPA 180.1
Ammonia	0.10	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	BQL	mg/L	0.1	EPA 351.2
Total Iron	BQL	mg/L	0.05	EPA 200.7
Total Potassium	BQL	mg/L	1.0	EPA 200.7
Total Zinc	BQL	mg/L	0.02	EPA 200.7
Chloromethane	BQL	µg/L	10	SW 846 8240
Bromomethane	BQL	µg/L	10	SW 846 8240
Vinyl chloride	BQL	µg/L	10	SW 846 8240
Chloroethane	BQL	µg/L	10	SW 846 8240
Methylene chloride	BQL	µg/L	10	SW 846 8240
Acetone	BQL	µg/L	10	SW 846 8240
Carbon disulfide	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethene	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethane	BQL	µg/L	10	SW 846 8240
trans-1,2-Dichloroethene	BQL	µg/L	10	SW 846 8240
Chloroform	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethane	BQL	µg/L	10	SW 846 8240
2-Butanone	BQL	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	BQL	µg/L	10	SW 846 8240
Carbon tetrachloride	BQL	µg/L	10	SW 846 8240
Vinyl acetate	BQL	µg/L	10	SW 846 8240
Bromodichloromethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloropropane	BQL	µg/L	10	SW 846 8240
cis-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Trichloroethene	BQL	µg/L	10	SW 846 8240
Benzene	BQL	µg/L	10	SW 846 8240

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/24/95 - 10:15
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 5103-10

PROJECT ID: 5103

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
trans-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Chlorodibromomethane	BQL	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	BQL	µg/L	10	SW 846 8240
Bromoform	BQL	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	BQL	µg/L	10	SW 846 8240
2-Hexanone	BQL	µg/L	10	SW 846 8240
Tetrachloroethene	BQL	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	µg/L	10	SW 846 8240
Toluene	BQL	µg/L	10	SW 846 8240
Chlorobenzene	BQL	µg/L	10	SW 846 8240
Ethylbenzene	BQL	µg/L	10	SW 846 8240
Styrene	BQL	µg/L	10	SW 846 8240
m-Xylene	BQL	µg/L	10	SW 846 8240
o/p-Xylene	BQL	µg/L	10	SW 846 8240
bis(2-chloroethyl)ether	BQL	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
Benzyl alcohol	BQL	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	BQL	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	BQL	µg/L	10	SW 846 8270
Hexachloroethane	BQL	µg/L	10	SW 846 8270
Nitrobenzene	BQL	µg/L	10	SW 846 8270
Isophorone	BQL	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	BQL	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	BQL	µg/L	10	SW 846 8270
Naphthalene	BQL	µg/L	10	SW 846 8270
4-Chloroaniline	BQL	µg/L	10	SW 846 8270
Hexachlorobutadiene	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/24/95 - 10:15
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-10

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
2-Methylnaphthalene	BQL	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	BQL	µg/L	10	SW 846 8270
2-Chloronaphthalene	BQL	µg/L	10	SW 846 8270
2-Nitroaniline	BQL	µg/L	10	SW 846 8270
Dimethyl phthalate	BQL	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Acenaphthylene	BQL	µg/L	10	SW 846 8270
3-Nitroaniline	BQL	µg/L	10	SW 846 8270
Acenaphthene	BQL	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Dibenzofuran	BQL	µg/L	10	SW 846 8270
Diethyl phthalate	BQL	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Fluorene	BQL	µg/L	10	SW 846 8270
4-Nitroaniline	BQL	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	BQL	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Hexachlorobenzene	BQL	µg/L	10	SW 846 8270
Phenanthrene	BQL	µg/L	10	SW 846 8270
Anthracene	BQL	µg/L	10	SW 846 8270
di-n-Butylphthalate	BQL	µg/L	10	SW 846 8270
Fluoranthene	BQL	µg/L	10	SW 846 8270
Pyrene	BQL	µg/L	10	SW 846 8270
Butyl benzyl phthalate	BQL	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	BQL	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	BQL	µg/L	10	SW 846 8270
Benzo(a)anthracene	BQL	µg/L	10	SW 846 8270
Chrysene	BQL	µg/L	10	SW 846 8270
di-n-Octylphthalate	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/24/95 - 10:15
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 51D3-10

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzo(b)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(a)pyrene	BQL	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	BQL	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	BQL	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	BQL	µg/L	10	SW 846 8270
Phenol	BQL	µg/L	10	SW 846 8270
2-Chlorophenol	BQL	µg/L	10	SW 846 8270
2-Methylphenol	BQL	µg/L	10	SW 846 8270
4-Methylphenol	BQL	µg/L	10	SW 846 8270
2-Nitrophenol	BQL	µg/L	10	SW 846 8270
2,4-Dimethylphenol	BQL	µg/L	10	SW 846 8270
Benzoic acid	BQL	µg/L	10	SW 846 8270
2,4-Dichlorophenol	BQL	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	BQL	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4-Dinitrophenol	BQL	µg/L	10	SW 846 8270
4-Nitrophenol	BQL	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	µg/L	10	SW 846 8270
Pentachlorophenol	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/24/95 - 14:05
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 51D3-11

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	185.0	NTU	0.1	EPA 180.1
Ammonia	0.06	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	0.23	mg/L	0.1	EPA 351.2
Total Iron	36	mg/L	0.05	EPA 200.7
Soluble Iron	BQL	mg/L	0.05	EPA 200.7
Total Potassium	2.6	mg/L	1.0	EPA 200.7
Soluble Potassium	2.3	mg/L	1.0	EPA 200.7
Total Zinc	0.56	mg/L	0.02	EPA 200.7
Soluble Zinc	BQL	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: CTC

PROJECT ID: 5103

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Ammonia	BQL	mg/L	0.05	EPA 350.1
Nitrite	BQL	mg/L	0.05	EPA 353.2
Total Kjeldahl Nitrogen	BQL	mg/L	0.1	EPA 351.2
Total Iron	BQL	mg/L	0.05	EPA 200.7
Soluble Iron	BQL	mg/L	0.05	EPA 200.7
Total Potassium	BQL	mg/L	1.0	EPA 200.7
Soluble Potassium	BQL	mg/L	1.0	EPA 200.7
Total Zinc	BQL	mg/L	0.02	EPA 200.7
Soluble Zinc	BQL	mg/L	0.02	EPA 200.7
Chloromethane	BQL	µg/L	10	SW 846 8240
Bromomethane	BQL	µg/L	10	SW 846 8240
Vinyl chloride	BQL	µg/L	10	SW 846 8240
Chloroethane	BQL	µg/L	10	SW 846 8240
Methylene chloride	BQL	µg/L	10	SW 846 8240
Acetone	BQL	µg/L	10	SW 846 8240
Carbon disulfide	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethene	BQL	µg/L	10	SW 846 8240
1,1-Dichloroethane	BQL	µg/L	10	SW 846 8240
trans-1,2-Dichloroethene	BQL	µg/L	10	SW 846 8240
Chloroform	BQL	µg/L	10	SW 846 8240
1,2-Dichloroethane	BQL	µg/L	10	SW 846 8240
2-Butanone	BQL	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	BQL	µg/L	10	SW 846 8240
Carbon tetrachloride	BQL	µg/L	10	SW 846 8240
Vinyl acetate	BQL	µg/L	10	SW 846 8240
Bromodichloromethane	BQL	µg/L	10	SW 846 8240
1,2-Dichloropropane	BQL	µg/L	10	SW 846 8240
cis-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Trichloroethene	BQL	µg/L	10	SW 846 8240

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: CTC

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	BQL	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	BQL	µg/L	10	SW 846 8240
Chlorodibromomethane	BQL	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	BQL	µg/L	10	SW 846 8240
Bromoform	BQL	µg/L	10	SW 846 8240
4-Methyl-2-pentanone	BQL	µg/L	10	SW 846 8240
2-Hexanone	BQL	µg/L	10	SW 846 8240
Tetrachloroethene	BQL	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	µg/L	10	SW 846 8240
Toluene	BQL	µg/L	10	SW 846 8240
Chlorobenzene	BQL	µg/L	10	SW 846 8240
Ethylbenzene	BQL	µg/L	10	SW 846 8240
Styrene	BQL	µg/L	10	SW 846 8240
m-Xylene	BQL	µg/L	10	SW 846 8240
o/p-Xylene	BQL	µg/L	10	SW 846 8240
bis(2-chloroethyl)ether	BQL	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
Benzyl alcohol	BQL	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	BQL	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	BQL	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	BQL	µg/L	10	SW 846 8270
Hexachloroethane	BQL	µg/L	10	SW 846 8270
Nitrobenzene	BQL	µg/L	10	SW 846 8270
Isophorone	BQL	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	BQL	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	BQL	µg/L	10	SW 846 8270
Naphthalene	BQL	µg/L	10	SW 846 8270
4-Chloroaniline	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: CTC

PROJECT ID: 5103

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Hexachlorobutadiene	BQL	µg/L	10	SW 846 8270
2-Methylnaphthalene	BQL	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	BQL	µg/L	10	SW 846 8270
2-Chloronaphthalene	BQL	µg/L	10	SW 846 8270
2-Nitroaniline	BQL	µg/L	10	SW 846 8270
Dimethyl phthalate	BQL	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Acenaphthylene	BQL	µg/L	10	SW 846 8270
3-Nitroaniline	BQL	µg/L	10	SW 846 8270
Acenaphthene	BQL	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	BQL	µg/L	10	SW 846 8270
Dibenzofuran	BQL	µg/L	10	SW 846 8270
Diethyl phthalate	BQL	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Fluorene	BQL	µg/L	10	SW 846 8270
4-Nitroaniline	BQL	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	BQL	µg/L	10	SW 846 8270
4-Bromophenyl phenyl ether	BQL	µg/L	10	SW 846 8270
Hexachlorobenzene	BQL	µg/L	10	SW 846 8270
Phenanthrene	BQL	µg/L	10	SW 846 8270
Anthracene	BQL	µg/L	10	SW 846 8270
di-n-Butylphthalate	BQL	µg/L	10	SW 846 8270
Fluoranthene	BQL	µg/L	10	SW 846 8270
Pyrene	BQL	µg/L	10	SW 846 8270
Butyl benzyl phthalate	BQL	µg/L	10	SW 846 8270
3,3'-Dichlorobenzidine	BQL	µg/L	10	SW 846 8270
bis(2ethylhexyl)phthalate	BQL	µg/L	10	SW 846 8270
Benzo(a)anthracene	BQL	µg/L	10	SW 846 8270
Chrysene	BQL	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: METHOD BLANK
 COLLECTION METHOD:
 COLLECTION DATE(S):
 SAMPLE TYPE:

AES CLIENT ID: CTC

PROJECT ID: 51D3

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
di-n-Octylphthalate	BQL	µg/L	10	SW 846 8270
Benzo(b)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(k)fluoranthene	BQL	µg/L	10	SW 846 8270
Benzo(a)pyrene	BQL	µg/L	10	SW 846 8270
Indeno(1,2,3-cd)pyrene	BQL	µg/L	10	SW 846 8270
Dibenzo(a,h)anthracene	BQL	µg/L	10	SW 846 8270
Benzo(g,h,i)perylene	BQL	µg/L	10	SW 846 8270
Phenol	BQL	µg/L	10	SW 846 8270
2-Chlorophenol	BQL	µg/L	10	SW 846 8270
2-Methylphenol	BQL	µg/L	10	SW 846 8270
4-Methylphenol	BQL	µg/L	10	SW 846 8270
2-Nitrophenol	BQL	µg/L	10	SW 846 8270
2,4-Dimethylphenol	BQL	µg/L	10	SW 846 8270
Benzoic acid	BQL	µg/L	10	SW 846 8270
2,4-Dichlorophenol	BQL	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	BQL	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	BQL	µg/L	10	SW 846 8270
2,4-Dinitrophenol	BQL	µg/L	10	SW 846 8270
4-Nitrophenol	BQL	µg/L	10	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	µg/L	10	SW 846 8270
Pentachlorophenol	BQL	µg/L	10	SW 846 8270

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT

PAGE 27

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 51D3

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Ammonia	EPA 350.1	51D3-8	Matrix Spike	110
Ammonia	EPA 350.1	---	Independent Standard	105
Nitrite	EPA 353.2	51D3-8	Matrix Spike	104
Nitrite	EPA 353.2	---	Independent Standard	98
Total Kjeldahl Nitrogen	EPA 351.2	51D3-8	Matrix Spike	89
Total Kjeldahl Nitrogen	EPA 351.2	---	Independent Standard	102
Total Iron	EPA 200.7	51D3-8	Matrix Spike	81
Total Iron	EPA 200.7	---	Independent Standard	102
Soluble Iron	EPA 200.7	51D3-8	Matrix Spike	83
Total Potassium	EPA 200.7	51D3-8	Matrix Spike	84
Total Potassium	EPA 200.7	---	Independent Standard	93
Soluble Potassium	EPA 200.7	51D3-8	Matrix Spike	85
Total Zinc	EPA 200.7	51D3-8	Matrix Spike	87
Total Zinc	EPA 200.7	---	Independent Standard	100
Soluble Zinc	EPA 200.7	51D3-8	Matrix Spike	87
1,1-Dichloroethene	SW 846 8240	51D3-8	Matrix Spike	88
1,1-Dichloroethene	SW 846 8240	---	Independent Standard	86
Trichloroethene	SW 846 8240	51D3-8	Matrix Spike	90
Trichloroethene	SW 846 8240	---	Independent Standard	97
Benzene	SW 846 8240	51D3-8	Matrix Spike	80
Benzene	SW 846 8240	---	Independent Standard	82
Toluene	SW 846 8240	51D3-8	Matrix Spike	84
Toluene	SW 846 8240	---	Independent Standard	87
Chlorobenzene	SW 846 8240	51D3-8	Matrix Spike	92
Chlorobenzene	SW 846 8240	---	Independent Standard	98
1,4-Dichlorobenzene	SW 846 8270	51D3-8	Matrix Spike	76
1,4-Dichlorobenzene	SW 846 8270	---	Independent Standard	74
n-Nitrosodi-n-propylamine	SW 846 8270	51D3-8	Matrix Spike	110
n-Nitrosodi-n-propylamine	SW 846 8270	---	Independent Standard	111

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 51D3

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
1,2,4-Trichlorobenzene	SW 846 8270	51D3-8	Matrix Spike	84
1,2,4-Trichlorobenzene	SW 846 8270	---	Independent Standard	82
Acenaphthene	SW 846 8270	51D3-8	Matrix Spike	93
Acenaphthene	SW 846 8270	---	Independent Standard	92
2,4-Dinitrotoluene	SW 846 8270	51D3-8	Matrix Spike	100
2,4-Dinitrotoluene	SW 846 8270	---	Independent Standard	95
Pyrene	SW 846 8270	51D3-8	Matrix Spike	86
Pyrene	SW 846 8270	---	Independent Standard	92
Phenol	SW 846 8270	51D3-8	Matrix Spike	32
Phenol	SW 846 8270	---	Independent Standard	46
2-Chlorophenol	SW 846 8270	51D3-8	Matrix Spike	67
2-Chlorophenol	SW 846 8270	---	Independent Standard	84
4-Chloro-3-methylphenol	SW 846 8270	51D3-8	Matrix Spike	56
4-Chloro-3-methylphenol	SW 846 8270	---	Independent Standard	82
4-Nitrophenol	SW 846 8270	51D3-8	Matrix Spike	56
4-Nitrophenol	SW 846 8270	---	Independent Standard	46
Pentachlorophenol	SW 846 8270	51D3-8	Matrix Spike	74
Pentachlorophenol	SW 846 8270	---	Independent Standard	93

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT
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CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 51D3

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Ammonia	EPA 350.1	51D3-8	Duplicate	0
Nitrite	EPA 353.2	51D3-8	Duplicate	NA
Total Kjeldahl Nitrogen	EPA 351.2	51D3-8	Duplicate	0
Total Iron	EPA 200.7	51D3-8	Duplicate	0
Soluble Iron	EPA 200.7	51D3-8	Duplicate	0
Total Potassium	EPA 200.7	51D3-8	Duplicate	NA
Soluble Potassium	EPA 200.7	51D3-8	Duplicate	NA
Total Zinc	EPA 200.7	51D3-8	Duplicate	NA
Soluble Zinc	EPA 200.7	51D3-8	Duplicate	NA
Chloromethane	SW 846 8240	51D3-8	Duplicate	NA
Bromomethane	SW 846 8240	51D3-8	Duplicate	NA
Vinyl chloride	SW 846 8240	51D3-8	Duplicate	NA
Chloroethane	SW 846 8240	51D3-8	Duplicate	NA
Methylene chloride	SW 846 8240	51D3-8	Duplicate	NA
Acetone	SW 846 8240	51D3-8	Duplicate	NA
Carbon disulfide	SW 846 8240	51D3-8	Duplicate	NA
1,1-Dichloroethene	SW 846 8240	51D3-8	Duplicate	NA
1,1-Dichloroethane	SW 846 8240	51D3-8	Duplicate	NA
trans-1,2-Dichloroethene	SW 846 8240	51D3-8	Duplicate	NA
Chloroform	SW 846 8240	51D3-8	Duplicate	NA
1,2-Dichloroethane	SW 846 8240	51D3-8	Duplicate	NA
2-Butanone	SW 846 8240	51D3-8	Duplicate	NA
1,1,1-Trichloroethane	SW 846 8240	51D3-8	Duplicate	NA
Carbon tetrachloride	SW 846 8240	51D3-8	Duplicate	NA
Vinyl acetate	SW 846 8240	51D3-8	Duplicate	NA
Bromodichloromethane	SW 846 8240	51D3-8	Duplicate	NA
1,2-Dichloropropane	SW 846 8240	51D3-8	Duplicate	NA
cis-1,3-Dichloropropene	SW 846 8240	51D3-8	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: 51D3

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Trichloroethene	SW 846 8240	51D3-8	Duplicate	NA
Benzene	SW 846 8240	51D3-8	Duplicate	NA
trans-1,3-Dichloropropene	SW 846 8240	51D3-8	Duplicate	NA
Chlorodibromomethane	SW 846 8240	51D3-8	Duplicate	NA
1,1,2-Trichloroethane	SW 846 8240	51D3-8	Duplicate	NA
Bromoform	SW 846 8240	51D3-8	Duplicate	NA
4-Methyl-2-pentanone	SW 846 8240	51D3-8	Duplicate	NA
2-Hexanone	SW 846 8240	51D3-8	Duplicate	NA
Tetrachloroethene	SW 846 8240	51D3-8	Duplicate	NA
1,1,2,2-Tetrachloroethane	SW 846 8240	51D3-8	Duplicate	NA
Toluene	SW 846 8240	51D3-8	Duplicate	NA
Chlorobenzene	SW 846 8240	51D3-8	Duplicate	NA
Ethylbenzene	SW 846 8240	51D3-8	Duplicate	NA
Styrene	SW 846 8240	51D3-8	Duplicate	NA
m-Xylene	SW 846 8240	51D3-8	Duplicate	NA
o/p-Xylene	SW 846 8240	51D3-8	Duplicate	NA
bis(2-chloroethyl)ether	SW 846 8270	51D3-8	Duplicate	NA
1,3-Dichlorobenzene	SW 846 8270	51D3-8	Duplicate	NA
1,4-Dichlorobenzene	SW 846 8270	51D3-8	Duplicate	NA
Benzyl alcohol	SW 846 8270	51D3-8	Duplicate	NA
1,2-Dichlorobenzene	SW 846 8270	51D3-8	Duplicate	NA
bis(2-chloroisopropyl)ether	SW 846 8270	51D3-8	Duplicate	NA
n-Nitrosodi-n-propylamine	SW 846 8270	51D3-8	Duplicate	NA
Hexachloroethane	SW 846 8270	51D3-8	Duplicate	NA
Nitrobenzene	SW 846 8270	51D3-8	Duplicate	NA
Isophorone	SW 846 8270	51D3-8	Duplicate	NA
bis(2-chloroethoxy)methane	SW 846 8270	51D3-8	Duplicate	NA
1,2,4-Trichlorobenzene	SW 846 8270	51D3-8	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: 51D3

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Naphthalene	SW 846 8270	51D3-8	Duplicate	NA
4-Chloroaniline	SW 846 8270	51D3-8	Duplicate	NA
Hexachlorobutadiene	SW 846 8270	51D3-8	Duplicate	NA
2-Methylnaphthalene	SW 846 8270	51D3-8	Duplicate	NA
Hexachlorocyclopentadiene	SW 846 8270	51D3-8	Duplicate	NA
2-Chloronaphthalene	SW 846 8270	51D3-8	Duplicate	NA
2-Nitroaniline	SW 846 8270	51D3-8	Duplicate	NA
Dimethyl phthalate	SW 846 8270	51D3-8	Duplicate	NA
2,6-Dinitrotoluene	SW 846 8270	51D3-8	Duplicate	NA
Acenaphthylene	SW 846 8270	51D3-8	Duplicate	NA
3-Nitroaniline	SW 846 8270	51D3-8	Duplicate	NA
Acenaphthene	SW 846 8270	51D3-8	Duplicate	NA
2,4-Dinitrotoluene	SW 846 8270	51D3-8	Duplicate	NA
Dibenzofuran	SW 846 8270	51D3-8	Duplicate	NA
Diethyl phthalate	SW 846 8270	51D3-8	Duplicate	NA
4-Chlorophenyl phenyl ether	SW 846 8270	51D3-8	Duplicate	NA
Fluorene	SW 846 8270	51D3-8	Duplicate	NA
4-Nitroaniline	SW 846 8270	51D3-8	Duplicate	NA
n-Nitrosodiphenylamine	SW 846 8270	51D3-8	Duplicate	NA
4-Bromophenyl phenyl ether	SW 846 8270	51D3-8	Duplicate	NA
Hexachlorobenzene	SW 846 8270	51D3-8	Duplicate	NA
Phenanthrene	SW 846 8270	51D3-8	Duplicate	NA
Anthracene	SW 846 8270	51D3-8	Duplicate	NA
di-n-Butylphthalate	SW 846 8270	51D3-8	Duplicate	NA
Fluoranthene	SW 846 8270	51D3-8	Duplicate	NA
Pyrene	SW 846 8270	51D3-8	Duplicate	NA
Butyl benzyl phthalate	SW 846 8270	51D3-8	Duplicate	NA
3,3'-Dichlorobenzidine	SW 846 8270	51D3-8	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: 51D3

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
bis(2ethylhexyl)phthalate	SW 846 8270	51D3-8	Duplicate	NA
Benzo(a)anthracene	SW 846 8270	51D3-8	Duplicate	NA
Chrysene	SW 846 8270	51D3-8	Duplicate	NA
di-n-Octylphthalate	SW 846 8270	51D3-8	Duplicate	NA
Benzo(b)fluoranthene	SW 846 8270	51D3-8	Duplicate	NA
Benzo(k)fluoranthene	SW 846 8270	51D3-8	Duplicate	NA
Benzo(a)pyrene	SW 846 8270	51D3-8	Duplicate	NA
Indeno(1,2,3-cd)pyrene	SW 846 8270	51D3-8	Duplicate	NA
Dibenzo(a,h)anthracene	SW 846 8270	51D3-8	Duplicate	NA
Benzo(g,h,i)perylene	SW 846 8270	51D3-8	Duplicate	NA
Phenol	SW 846 8270	51D3-8	Duplicate	NA
2-Chlorophenol	SW 846 8270	51D3-8	Duplicate	NA
2-Methylphenol	SW 846 8270	51D3-8	Duplicate	NA
4-Methylphenol	SW 846 8270	51D3-8	Duplicate	NA
2-Nitrophenol	SW 846 8270	51D3-8	Duplicate	NA
2,4-Dimethylphenol	SW 846 8270	51D3-8	Duplicate	NA
Benzoic acid	SW 846 8270	51D3-8	Duplicate	NA
2,4-Dichlorophenol	SW 846 8270	51D3-8	Duplicate	NA
4-Chloro-3-methylphenol	SW 846 8270	51D3-8	Duplicate	NA
2,4,6-Trichlorophenol	SW 846 8270	51D3-8	Duplicate	NA
2,4,5-Trichlorophenol	SW 846 8270	51D3-8	Duplicate	NA
2,4-Dinitrophenol	SW 846 8270	51D3-8	Duplicate	NA
4-Nitrophenol	SW 846 8270	51D3-8	Duplicate	NA
4,6-Dinitro-2-methylphenol	SW 846 8270	51D3-8	Duplicate	NA
Pentachlorophenol	SW 846 8270	51D3-8	Duplicate	NA

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

Advanced Environmental Services

AES Job Code CTC

Sample Traceability Report

AES Job No. 5103

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
5103-06	2/23/95	4300	143	8270	2/23/95	SF / SD	8270	3/1/95	SCS
-08	2/24/95								
-08 QUA									
-08 MS									
-19									
-10	2/23/95								

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.

Advanced Environmental Services

Sample Traceability Report

AES Job Code CTC

AES Job No. 5103

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
51031,3-11	2-22-05	1010	257	9.3	2-27	CS	200.7	2-28	HR
		1400	—	—	—	—	200.7	2-28	HR

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.

Advanced Environmental Services

Sample Traceability Report

AES Job Code CTC

AES Job No. 5103

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
5103-6	-	-	-	-	-	-	8240	2/24/95 2/27/95	KB
5103-9	-	-	-	-	-	-	8240	+	KB+MM
5103-10	-	-	-	-	-	-	8240	2/24/95	KB
5103-8	-	-	-	-	-	-	8240	2/27/95	MM/KB

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.

Advanced Environmental Services

Sample Traceability Report

AES Job Code CTC

AES Job No. 51D3

				SAMPLE PREP			ANALYSIS		
AES Sample No.	Sample Date	Group #	Run #	Method Number	Date	Analyst	Method Number	Date	Analyst
51D3(1,4,5)	2/22,23/95	2027	85	351.2	2/24/95	TS	351.2	2/24/95	JK
51D3(3,6,7,9,10)	2/22,23/95	2027	86	351.2	2/27/95	TS	351.2	2/27/95	JK
51D3(1,3-11)	2/22-24/95	2005	73	—	—	—	350.1	2/28/95	TS
51D3(1,4,5,7)	2/22-24/95	2027	85, 86	351.2	3/1/95	TS	351.2	3/1/95	TS
51D3(3,8,11)	2/24/95	2027	88	351.2	3/3/95	TS	351.2	3/3/95	TS
51D3(1,3,5,7)	2/22-24/95	2005	74	—	—	—	350.1	3/9/95	TS
51D3(1,3-11)	2/22-24/95	2122	56	—	—	—	353.2	2/28/95	JK

Note: Areas marked using a dash indicate that no sample preparation was required under the applied methodology.



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

PROJECT NAME:

UCAR CARBON

SAMPLER'S SIGNATURE:

AB COMP

UNPRESERVED	HNO ₃	H ₂ SO ₄	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL
-------------	------------------	--------------------------------	-----	------	--------------	----------------	-------

PROJECT I.D. #: 51D3

JOB CODE: CTC

DATE _____

TIME

SAMPLE IDENTIFICATION

GRAB COMP

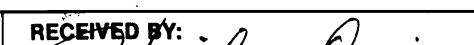
SAMPLE TYPE

PARAMETERS/REMARKS

[illegible]**TOTAL NUMBER OF CONTAINERS**

3

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 2/22/95	TIME 15:45	RECEIVED BY: 
2. RELINQUISHED BY: _____	DATE _____	TIME _____	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE _____	TIME _____	RECEIVED BY: _____

ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NEW YORK 14304

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

CHAIN OF CUSTODY RECORD

PROJECT NAME:

UCAR CARBON

SAMPLER'S SIGNATURE:

UCAR CARBON

CONTAINER CLASSIFICATION

PROJECT I.D. #: 5103

5103

JOB CODE:

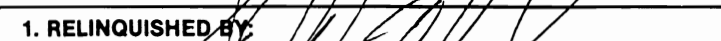
CTC

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	UNPRES.	HNO ₃	H ₂ SO ₄	HCL	NAOH	VIAL (PH)	VIAL (U)	TOTAL	PARAMETERS/REMARKS
2/23/95	2:45 pm	MW-1	✓		GROUND WATER	2	1						3	TOT. + SOL (⊕) METALS, N/ITE, AMMO,
"	1:35 am	BW-3	✓		"	2	1						3	TKN, TURB* →
"	3:10 pm	BW-5	✓		"	2	1						3	→
2/23/95	11:05 am	BW-4	✓		GROUND WATER	1	2	1				2	6	TOT. + SOL (⊕) METALS, N/ITE, AMMO,
"	11:05 am	BLIND DUPLICATE	✓		"	1	2	1				2	6	TKN, TOLSV, TCLV, TURB* →
														→

TOTAL NUMBER OF CONTAINERS

21

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 2-23-95	TIME 4:30pm	RECEIVED BY: 
2. RELINQUISHED BY: 	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NEW YORK 14304

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

CHAIN OF CUSTODY RECORD

PROJECT NAME: UCAR CARBON

SAMPLER'S SIGNATURE: _____

PROJECT I.D. #: 51D3

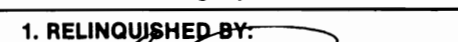
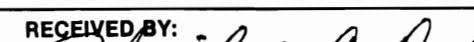
JOB CODE: CTC

DATE	TIME	SAMPLE IDENTIFICATION	GRAB COMP	SAMPLE TYPE	UNPRES.	HNO ₃	H ₂ SO ₄	HCL	NAOH	VIAL (PH)	VIAL (U)	TOTAL	PARAMETERS/REMARKS
2-24-95	3:05 pm	BW-1	✓	GROUND WATER	2	1						3	TOT - S _(*) METALS, AMMO, TRN, N/ITE,
"	2:05 pm	MW-2	✓	" "	2	1						3	TURB*.
2-24-95	10:15 AM	TRIP BLANK	✓	DI H ₂ O	1	1	1					2 5	TOTAL METALS, AMMO, N/ITE, TRN, TCLSV, TCLV, TURB*.
2-24-95	1:35 pm	BW-6 (OC SITE)	✓	GROUND WATER	4	4	2					3 13	TOTAL - S _(*) METALS, AMMO, TRN, N/ITE, TCLSV, TCLV, TURB*
													* = DONE IN FIELD
													(*) = FILTERED IN FIELD

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

TOTAL NUMBER OF CONTAINERS

24

1. RELINQUISHED BY: 	DATE 2-24-95	TIME 4:20 pm	RECEIVED BY: 
2. RELINQUISHED BY: _____	DATE	TIME	RECEIVED BY: _____
3. RELINQUISHED BY: _____	DATE	TIME	RECEIVED BY: _____