



UCAR CARBON COMPANY INC.

32N03.6W42

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

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computer

March 27, 1997

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

1 - 2 - 1997
32N03
X

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 sixth (36) 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 sixth (36) quarter.

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

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

36TH QUARTER

POSITIVE ORGANIC PARAMETERS FROM BW-4

CONTAMINATE	36th Quarter ppb	Mean Conc. ppb	Range ppb
1,2-Dichlorethene (Total)	330	320	200 - 570
Trichloroethene	190	293	30 - 740
Tetrachloroethene	92	233	72 - 440
Vinyl Chloride	130	97	29 - 300
Hexachlorobutadiene	29	49	10 - 160

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

FEBRUARY 1997

Prepared By:



"A Company Dedicated to Honesty, Quality and Service"

March 12, 1997
REF: CTC7185/100B

QA/QC VERIFICATION FOR PROJECT ID 7185

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.



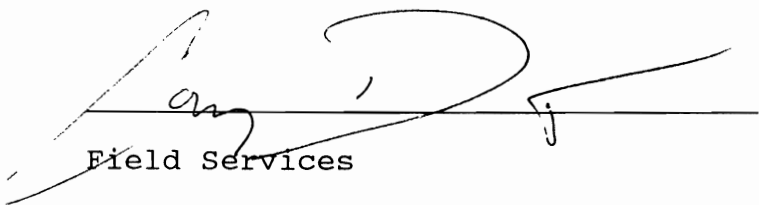
Metals Department



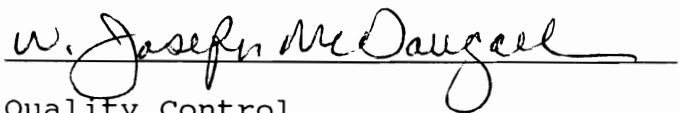
Inorganic Chemistry



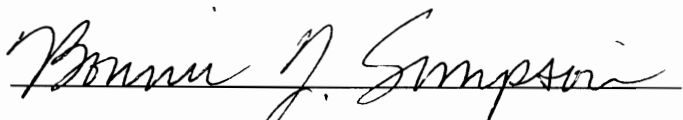
Organic Chemistry



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
February 19, 1997 thru February 21, 1997

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

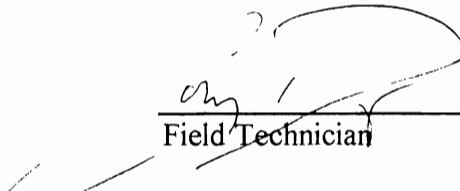
AES Code: CTC

Project I.D. # 7185

Monitoring Well I.D.	Sampling Date	Sampling Time	Water Level (ft.)	Turbidity (NTU)	Filter Time	Field Comments/Observations
BW-1	2/21/97	12:35 PM	14.53	10	3:10 PM	Clear
BW-2	2/20/97	3:10 PM	11.06	13	4:00 PM	Clear
BW-3	2/20/97	10:35 AM	5.21	2	3:30 PM	Clear.
BW-4	2/20/97	2:15 PM	6.85	2	3:55 PM	Clear with odor
BW-5	2/20/97	11:35 AM	4.01	1	3:35 PM	Clear
BW-6	2/21/97	1:35 PM	15.93	20	3:15 PM	Clear
MW-1	2/20/97	1:40 PM	10.31	29	3:50 PM	Slightly Tan with a few solids
*MW-2	2/21/97	2:30 PM	23.96	265	3:20 PM	Turbid Dark Brown
MW-3	2/19/97	2:30 PM	3.61	Frozen Well , No samples collected		
OW-1 South	2/19/97	2:50 PM	4.62	NA	NA	Required to take water elevation only.
OW-2 North	2/19/97	3:10 PM	4.61	NA	NA	Required to take water elevation only.
Blind Dup	2/21/97	1:35 PM	15.93	23	3:15 PM	Clear
Trip Blank	2/21/97	9:35 AM	NA	1	NA	Deionized Water

The Blind Duplicate site was BW-6.

* Due to the lack of sufficient recharge from MW-2, ammonia and TKN could not be collected.


Field Technician

3-5-97
Date

Advanced Environmental Services, Inc.

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

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

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 7185

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	2/21/97	610.72	4	13.45	597.27	28.85	10.05	30.0	C
BW-2	2/20/97	608.43	4	10.91	597.52	26.60	10.24	33.0	C
BW-3	2/20/97	604.72	4	5.21	599.51	22.91	11.55	36.0	C
BW-4	2/20/97	607.08	4	6.79	600.29	22.69	10.38	38.0	C
BW-5	2/20/97	603.33	4	4.01	599.32	28.80	16.18	50.0	C
BW-6	2/21/97	607.04	4	12.96	594.08	25.15	7.96	24.0	C
MW-1	2/19/97	609.43	2	10.13	599.30	23.40	2.17	2.50 (Dry)	S
MW-2	2/20/97	607.54	3	23.79	583.75	24.61	0.30	0.5 (Dry)	VS
* MW-3	2/19/97	601.61	2	3.61	598.00	16.11	2.04	0.0	S
OW-1 SOUTH	2/19/97	608.81	2	4.62	604.19	36.05	5.13	NR	N/A
OW-2 NORTH	2/19/97	607.06	2	4.61	602.45	35.90	5.11	NR	N/A

* Monitoring well frozen at 3.61 feet, well could not be purged or sampled.

Abbreviations:

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

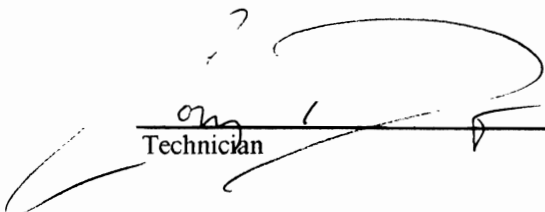
S = Slow ----- Recharge Rate within 24 hr period.

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

C = Continuous ---- Recharge Rate immediate.

NR = Not Required

N/A = Not Applicable


Technician

3/5/97
Date

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/20/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 7185-1

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	28.9	NTU	0.1	EPA 180.1
Ammonia **	6.31	mg/L	0.028	EPA 350.1
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	6.65 D	mg/L	0.5	EPA 351.3
Total Iron	11	mg/L	0.05	EPA 200.7
Soluble Iron	0.08	mg/L	0.05	EPA 200.7
Total Potassium	38	mg/L	1.0	EPA 200.7
Soluble Potassium	35	mg/L	1.0	EPA 200.7
Total Zinc	0.08	mg/L	0.02	EPA 200.7
Soluble Zinc	0.08	mg/L	0.02	EPA 200.7

* Analysis performed in the field.
** Subcontracted to Buffalo Testing.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/21/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 7185-3

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	10	NTU	0.1	EPA 180.1
Ammonia **	1.80	mg/L	0.028	EPA 350.1
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	2.29 D	mg/L	0.5	EPA 351.3
Total Iron	1.6	mg/L	0.05	EPA 200.7
Soluble Iron	1.6	mg/L	0.05	EPA 200.7
Total Potassium	11	mg/L	1.0	EPA 200.7
Soluble Potassium	10	mg/L	1.0	EPA 200.7
Total Zinc	0.05	mg/L	0.02	EPA 200.7
Soluble Zinc	0.02	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

** Subcontracted to Buffalo Testing.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/20/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 7185-4

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	13	NTU	0.1	EPA 180.1
Ammonia **	1.62	mg/L	0.028	EPA 350.1
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	1.70 D	mg/L	0.5	EPA 351.3
Total Iron	2.8	mg/L	0.05	EPA 200.7
Soluble Iron	2.7	mg/L	0.05	EPA 200.7
Total Potassium	8.8	mg/L	1.0	EPA 200.7
Soluble Potassium	6.7	mg/L	1.0	EPA 200.7
Total Zinc	0.05	mg/L	0.02	EPA 200.7
Soluble Zinc	0.02	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

** Subcontracted to Buffalo Testing.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 02/20/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 7185-5

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	2.1	NTU	0.1	EPA 180.1
Ammonia **	0.79	mg/L	0.028	EPA 350.1
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.78 D	mg/L	0.5	EPA 351.3
Total Iron	0.25	mg/L	0.05	EPA 200.7
Soluble Iron	0.23	mg/L	0.05	EPA 200.7
Total Potassium	2.2	mg/L	1.0	EPA 200.7
Soluble Potassium	2.5	mg/L	1.0	EPA 200.7
Total Zinc	0.16	mg/L	0.02	EPA 200.7
Soluble Zinc	0.18	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

** Subcontracted to Buffalo Testing.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-6

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	1.9	NTU	0.1	EPA 180.1
Ammonia **	2.57	mg/L	0.028	EPA 350.1
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	2.40 D	mg/L	0.5	EPA 351.3
Total Iron	2.1	mg/L	0.05	EPA 200.7
Soluble Iron	2.0	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	0.06	mg/L	0.02	EPA 200.7
Soluble Zinc	0.05	mg/L	0.02	EPA 200.7
Chloromethane	ND	µg/L	50	SW 846 8240
Bromomethane	ND	µg/L	50	SW 846 8240
Vinyl chloride	130 D	µg/L	50	SW 846 8240
Chloroethane	ND	µg/L	50	SW 846 8240
Methylene chloride	ND	µg/L	50	SW 846 8240
Acetone	ND	µg/L	50	SW 846 8240
Carbon disulfide	ND	µg/L	50	SW 846 8240
1,1-Dichloroethene	ND	µg/L	50	SW 846 8240
1,1-Dichloroethane	ND	µg/L	50	SW 846 8240
1,2-Dichloroethylene (total)	330 D	µg/L	50	SW 846 8240
Chloroform	ND	µg/L	50	SW 846 8240
1,2-Dichloroethane	ND	µg/L	50	SW 846 8240
2-Butanone	ND	µg/L	50	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	50	SW 846 8240
Carbon tetrachloride	ND	µg/L	50	SW 846 8240
Bromodichloromethane	ND	µg/L	50	SW 846 8240
1,2-Dichloropropane	ND	µg/L	50	SW 846 8240
cis-1,3-Dichloropropene	ND	µg/L	50	SW 846 8240

* Analysis performed in the field.

** Subcontracted to Buffalo Testing.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-6

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Trichloroethene	190 D	µg/L	50	SW 846 8240
Chlorodibromomethane	ND	µg/L	50	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	50	SW 846 8240
Benzene	ND	µg/L	50	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	50	SW 846 8240
Bromoform	ND	µg/L	50	SW 846 8240
4-Methyl-2-pentanone	ND	µg/L	50	SW 846 8240
2-Hexanone	ND	µg/L	50	SW 846 8240
Tetrachloroethene	92 D	µg/L	50	SW 846 8240
Toluene	ND	µg/L	50	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	50	SW 846 8240
Chlorobenzene	ND	µg/L	50	SW 846 8240
Ethylbenzene	ND	µg/L	50	SW 846 8240
Styrene	ND	µg/L	50	SW 846 8240
m-Xylene	ND	µg/L	50	SW 846 8240
o/p-Xylene	ND	µg/L	50	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	5.0	SW 846 8270
Phenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	5.0	SW 846 8270
2-Chlorophenol	ND	µg/L	5.0	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
2-Methylphenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	5.0	SW 846 8270
4-Methylphenol	ND	µg/L	5.0	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	5.0	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-6

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Hexachloroethane	ND	µg/L	5.0	SW 846 8270
Nitrobenzene	ND	µg/L	5.0	SW 846 8270
Isophorone	ND	µg/L	5.0	SW 846 8270
2-Nitrophenol	ND	µg/L	5.0	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	5.0	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	5.0	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	5.0	SW 846 8270
Naphthalene	ND	µg/L	5.0	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	29	µg/L	5.0	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	5.0	SW 846 8270
2-Methylnaphthalene	ND	µg/L	5.0	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	5.0	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	5.0	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	5.0	SW 846 8270
2-Chloronaphthalene	ND	µg/L	5.0	SW 846 8270
2-Nitroaniline	ND	µg/L	5.0	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	5.0	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	5.0	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	5.0	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	5.0	SW 846 8270
Dibenzofuran	ND	µg/L	5.0	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	5.0	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	5.0	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/20/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-6

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fluorene	ND	µg/L	5.0	SW 846 8270
4-Nitroaniline	ND	µg/L	5.0	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	5.0	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	5.0	SW 846 8270
Hexachlorobenzene	ND	µg/L	5.0	SW 846 8270
Pentachlorophenol	ND	µg/L	5.0	SW 846 8270
Phenanthrene	ND	µg/L	5.0	SW 846 8270
Anthracene	ND	µg/L	5.0	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	5.0	SW 846 8270
Pyrene	ND	µg/L	5.0	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	5.0	SW 846 8270
Chrysene	ND	µg/L	5.0	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	5.0	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	5.0	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	5.0	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): 02/20/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 7185-7

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	1.2	NTU	0.1	EPA 180.1
Ammonia **	1.42	mg/L	0.028	EPA 350.1
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	27.6 D	mg/L	0.5	EPA 351.3
Total Iron	1.0	mg/L	0.05	EPA 200.7
Soluble Iron	1.0	mg/L	0.05	EPA 200.7
Total Potassium	3.2	mg/L	1.0	EPA 200.7
Soluble Potassium	3.5	mg/L	1.0	EPA 200.7
Total Zinc	0.09	mg/L	0.02	EPA 200.7
Soluble Zinc	0.09	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

** Subcontracted to Buffalo Testing.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-8

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	20	NTU	0.1	EPA 180.1
Ammonia **	2.50	mg/L	0.028	EPA 350.1
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	1.10 D	mg/L	0.5	EPA 351.3
Total Iron	3.2	mg/L	0.05	EPA 200.7
Soluble Iron	2.4	mg/L	0.05	EPA 200.7
Total Potassium	2.1	mg/L	1.0	EPA 200.7
Soluble Potassium	2.1	mg/L	1.0	EPA 200.7
Total Zinc	ND	mg/L	0.02	EPA 200.7
Soluble Zinc	ND	mg/L	0.08	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	10	SW 846 8240
Acetone	ND	µg/L	10	SW 846 8240
Carbon disulfide	ND	µg/L	10	SW 846 8240
1,1-Dichloroethene	ND	µg/L	10	SW 846 8240
1,1-Dichloroethane	ND	µg/L	10	SW 846 8240
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8240
Chloroform	ND	µg/L	10	SW 846 8240
1,2-Dichloroethane	ND	µg/L	10	SW 846 8240
2-Butanone	ND	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8240
Carbon tetrachloride	ND	µg/L	10	SW 846 8240
Bromodichloromethane	ND	µg/L	10	SW 846 8240
1,2-Dichloropropane	ND	µg/L	10	SW 846 8240
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240

* Analysis performed in the field.

** Subcontracted to Buffalo Testing.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-8

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Trichloroethene	ND	µg/L	10	SW 846 8240
Chlorodibromomethane	ND	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8240
Benzene	ND	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240
Bromoform	ND	µg/L	10	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	10	SW 846 8240
Toluene	ND	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8240
Chlorobenzene	ND	µg/L	10	SW 846 8240
Ethylbenzene	ND	µg/L	10	SW 846 8240
Styrene	ND	µg/L	10	SW 846 8240
m-Xylene	ND	µg/L	10	SW 846 8240
o/p-Xylene	ND	µg/L	10	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	5.0	SW 846 8270
Phenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	5.0	SW 846 8270
2-Chlorophenol	ND	µg/L	5.0	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
2-Methylphenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	5.0	SW 846 8270
4-Methylphenol	ND	µg/L	5.0	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	5.0	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-8

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Hexachloroethane	ND	µg/L	5.0	SW 846 8270
Nitrobenzene	ND	µg/L	5.0	SW 846 8270
Isophorone	ND	µg/L	5.0	SW 846 8270
2-Nitrophenol	ND	µg/L	5.0	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	5.0	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	5.0	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	5.0	SW 846 8270
Naphthalene	ND	µg/L	5.0	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	ND	µg/L	5.0	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	5.0	SW 846 8270
2-Methylnaphthalene	ND	µg/L	5.0	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	5.0	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	5.0	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	5.0	SW 846 8270
2-Chloronaphthalene	ND	µg/L	5.0	SW 846 8270
2-Nitroaniline	ND	µg/L	5.0	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	5.0	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	5.0	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	5.0	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	5.0	SW 846 8270
Dibenzofuran	ND	µg/L	5.0	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	5.0	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	5.0	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-8

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fluorene	ND	µg/L	5.0	SW 846 8270
4-Nitroaniline	ND	µg/L	5.0	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	5.0	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	5.0	SW 846 8270
Hexachlorobenzene	ND	µg/L	5.0	SW 846 8270
Pentachlorophenol	ND	µg/L	5.0	SW 846 8270
Phenanthrene	ND	µg/L	5.0	SW 846 8270
Anthracene	ND	µg/L	5.0	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	5.0	SW 846 8270
Pyrene	ND	µg/L	5.0	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	5.0	SW 846 8270
Chrysene	ND	µg/L	5.0	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	5.0	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	5.0	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	5.0	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): 02/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-9

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	23	NTU	0.1	EPA 180.1
Ammonia **	2.93	mg/L	0.028	EPA 350.1
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.64 D	mg/L	0.5	EPA 351.3
Total Iron	3.3	mg/L	0.05	EPA 200.7
Soluble Iron	2.3	mg/L	0.05	EPA 200.7
Total Potassium	1.8	mg/L	1.0	EPA 200.7
Soluble Potassium	1.4	mg/L	1.0	EPA 200.7
Total Zinc	ND	mg/L	0.02	EPA 200.7
Soluble Zinc	ND	mg/L	0.02	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	10	SW 846 8240
Acetone	ND	µg/L	10	SW 846 8240
Carbon disulfide	ND	µg/L	10	SW 846 8240
1,1-Dichloroethene	ND	µg/L	10	SW 846 8240
1,1-Dichloroethane	ND	µg/L	10	SW 846 8240
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8240
Chloroform	ND	µg/L	10	SW 846 8240
1,2-Dichloroethane	ND	µg/L	10	SW 846 8240
2-Butanone	ND	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8240
Carbon tetrachloride	ND	µg/L	10	SW 846 8240
Bromodichloromethane	ND	µg/L	10	SW 846 8240
1,2-Dichloropropane	ND	µg/L	10	SW 846 8240
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240

* Analysis performed in the field.

** Subcontracted to Buffalo Testing.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-9

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Trichloroethene	ND	µg/L	10	SW 846 8240
Chlorodibromomethane	ND	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8240
Benzene	ND	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240
Bromoform	ND	µg/L	10	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	10	SW 846 8240
Toluene	ND	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8240
Chlorobenzene	ND	µg/L	10	SW 846 8240
Ethylbenzene	ND	µg/L	10	SW 846 8240
Styrene	ND	µg/L	10	SW 846 8240
m-Xylene	ND	µg/L	10	SW 846 8240
o/p-Xylene	ND	µg/L	10	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	5.0	SW 846 8270
Phenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	5.0	SW 846 8270
2-Chlorophenol	ND	µg/L	5.0	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
2-Methylphenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	5.0	SW 846 8270
4-Methylphenol	ND	µg/L	5.0	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	5.0	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-9

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Hexachloroethane	ND	µg/L	5.0	SW 846 8270
Nitrobenzene	ND	µg/L	5.0	SW 846 8270
Isophorone	ND	µg/L	5.0	SW 846 8270
2-Nitrophenol	ND	µg/L	5.0	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	5.0	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	5.0	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	5.0	SW 846 8270
Naphthalene	ND	µg/L	5.0	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	ND	µg/L	5.0	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	5.0	SW 846 8270
2-Methylnaphthalene	ND	µg/L	5.0	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	5.0	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	5.0	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	5.0	SW 846 8270
2-Chloronaphthalene	ND	µg/L	5.0	SW 846 8270
2-Nitroaniline	ND	µg/L	5.0	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	5.0	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	5.0	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	5.0	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	5.0	SW 846 8270
Dibenzofuran	ND	µg/L	5.0	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	5.0	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	5.0	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/21/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-9

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Fluorene	ND	µg/L	5.0	SW 846 8270
4-Nitroaniline	ND	µg/L	5.0	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodiphenylamine	ND	µg/L	5.0	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	5.0	SW 846 8270
Hexachlorobenzene	ND	µg/L	5.0	SW 846 8270
Pentachlorophenol	ND	µg/L	5.0	SW 846 8270
Phenanthrene	ND	µg/L	5.0	SW 846 8270
Anthracene	ND	µg/L	5.0	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	5.0	SW 846 8270
Pyrene	ND	µg/L	5.0	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	5.0	SW 846 8270
Chrysene	ND	µg/L	5.0	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	5.0	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	5.0	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	5.0	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): 02/21/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-10

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	0.59	NTU	0.1	EPA 180.1
Ammonia **	1.39	mg/L	0.028	EPA 350.1
Nitrite	ND	mg/L	0.2	HACH 8507
Total Kjeldahl Nitrogen	0.50 D	mg/L	0.5	EPA 351.3
Total Iron	ND	mg/L	0.05	EPA 200.7
Total Potassium	1.3	mg/L	1.0	EPA 200.7
Total Zinc	ND	mg/L	0.02	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	10	SW 846 8240
Acetone	ND	µg/L	10	SW 846 8240
Carbon disulfide	ND	µg/L	10	SW 846 8240
1,1-Dichloroethene	ND	µg/L	10	SW 846 8240
1,1-Dichloroethane	ND	µg/L	10	SW 846 8240
1,2-Dichloroethylene (total)	ND	µg/L	10	SW 846 8240
Chloroform	ND	µg/L	10	SW 846 8240
1,2-Dichloroethane	ND	µg/L	10	SW 846 8240
2-Butanone	ND	µg/L	10	SW 846 8240
1,1,1-Trichloroethane	ND	µg/L	10	SW 846 8240
Carbon tetrachloride	ND	µg/L	10	SW 846 8240
Bromodichloromethane	ND	µg/L	10	SW 846 8240
1,2-Dichloropropane	ND	µg/L	10	SW 846 8240
cis-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240
Trichloroethene	ND	µg/L	10	SW 846 8240
Chlorodibromomethane	ND	µg/L	10	SW 846 8240
1,1,2-Trichloroethane	ND	µg/L	10	SW 846 8240

* Analysis performed in the field.

** Subcontracted to Buffalo Testing.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/21/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-10

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Benzene	ND	µg/L	10	SW 846 8240
trans-1,3-Dichloropropene	ND	µg/L	10	SW 846 8240
Bromoform	ND	µg/L	10	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	10	SW 846 8240
Toluene	ND	µg/L	10	SW 846 8240
1,1,2,2-Tetrachloroethane	ND	µg/L	10	SW 846 8240
Chlorobenzene	ND	µg/L	10	SW 846 8240
Ethylbenzene	ND	µg/L	10	SW 846 8240
Styrene	ND	µg/L	10	SW 846 8240
m-Xylene	ND	µg/L	10	SW 846 8240
o/p-Xylene	ND	µg/L	10	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	5.0	SW 846 8270
Phenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	5.0	SW 846 8270
2-Chlorophenol	ND	µg/L	5.0	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	5.0	SW 846 8270
2-Methylphenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	5.0	SW 846 8270
4-Methylphenol	ND	µg/L	5.0	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	5.0	SW 846 8270
Hexachloroethane	ND	µg/L	5.0	SW 846 8270
Nitrobenzene	ND	µg/L	5.0	SW 846 8270
Isophorone	ND	µg/L	5.0	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/21/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-10

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
2-Nitrophenol	ND	µg/L	5.0	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	5.0	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	5.0	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	5.0	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	5.0	SW 846 8270
Naphthalene	ND	µg/L	5.0	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	ND	µg/L	5.0	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	5.0	SW 846 8270
2-Methylnaphthalene	ND	µg/L	5.0	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	5.0	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	5.0	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	5.0	SW 846 8270
2-Chloronaphthalene	ND	µg/L	5.0	SW 846 8270
2-Nitroaniline	ND	µg/L	5.0	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	5.0	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	5.0	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	5.0	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	5.0	SW 846 8270
Dibenzofuran	ND	µg/L	5.0	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	5.0	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	5.0	SW 846 8270
Fluorene	ND	µg/L	5.0	SW 846 8270
4-Nitroaniline	ND	µg/L	5.0	SW 846 8270
4,6-Dinitro-2-methylphenol	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 02/21/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 7185-10

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
n-Nitrosodiphenylamine	ND	µg/L	5.0	SW 846 8270
4-Bromophenyl phenyl ether	ND	µg/L	5.0	SW 846 8270
Hexachlorobenzene	ND	µg/L	5.0	SW 846 8270
Pentachlorophenol	ND	µg/L	5.0	SW 846 8270
Phenanthrene	ND	µg/L	5.0	SW 846 8270
Anthracene	ND	µg/L	5.0	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	5.0	SW 846 8270
Pyrene	ND	µg/L	5.0	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	5.0	SW 846 8270
Chrysene	ND	µg/L	5.0	SW 846 8270
bis(2ethylhexyl)phthalate	ND	µg/L	10	SW 846 8270
di-n-Octylphthalate	ND	µg/L	5.0	SW 846 8270
Benzo(b)fluoranthene	ND	µg/L	5.0	SW 846 8270
Benzo(k)fluoranthene	ND	µg/L	10	SW 846 8270
Benzo(a)pyrene	ND	µg/L	5.0	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): 02/21/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 7185-11

PROJECT ID: 7185

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	265	NTU	0.1	EPA 180.1
Nitrite	ND	mg/L	0.2	HACH 8507
Total Iron	3.7	mg/L	0.05	EPA 200.7
Soluble Iron	ND	mg/L	0.05	EPA 200.7
Total Potassium	3.7	mg/L	1.0	EPA 200.7
Soluble Potassium	4.0	mg/L	1.0	EPA 200.7
Total Zinc	6.5	mg/L	0.02	EPA 200.7
Soluble Zinc	0.02	mg/L	0.02	EPA 200.7

* Analysis performed in the field.

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT

PAGE 1

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7185

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Ammonia **	EPA 350.1	7185-6	Matrix Spike	101
Nitrite	HACH 8507	7185-6	Matrix Spike	104
Total Kjeldahl Nitrogen	EPA 351.3	7185-6	Matrix Spike	93
Total Iron	EPA 200.7	7185-6	Matrix Spike	90
Soluble Iron	EPA 200.7	7185-6	Matrix Spike	93
Total Potassium	EPA 200.7	7185-6	Matrix Spike	99
Soluble Potassium	EPA 200.7	7185-6	Matrix Spike	95
Total Zinc	EPA 200.7	7185-6	Matrix Spike	100
Soluble Zinc	EPA 200.7	7185-6	Matrix Spike	102
Chloromethane	SW 846 8240	7185-6	Matrix Spike	90
Bromomethane	SW 846 8240	7185-6	Matrix Spike	104
Vinyl chloride	SW 846 8240	7185-6	Matrix Spike	94
Chloroethane	SW 846 8240	7185-6	Matrix Spike	94
Methylene chloride	SW 846 8240	7185-6	Matrix Spike	114
Acetone	SW 846 8240	7185-6	Matrix Spike	56
Carbon disulfide	SW 846 8240	7185-6	Matrix Spike	90
1,1-Dichloroethene	SW 846 8240	7185-6	Matrix Spike	82
1,1-Dichloroethane	SW 846 8240	7185-6	Matrix Spike	94
1,2-Dichloroethylene (total)	SW 846 8240	7185-6	Matrix Spike	95
Chloroform	SW 846 8240	7185-6	Matrix Spike	102
1,2-Dichloroethane	SW 846 8240	7185-6	Matrix Spike	102
2-Butanone	SW 846 8240	7185-6	Matrix Spike	60
1,1,1-Trichloroethane	SW 846 8240	7185-6	Matrix Spike	98
Carbon tetrachloride	SW 846 8240	7185-6	Matrix Spike	98
Bromodichloromethane	SW 846 8240	7185-6	Matrix Spike	100
1,2-Dichloropropane	SW 846 8240	7185-6	Matrix Spike	92
cis-1,3-Dichloropropene	SW 846 8240	7185-6	Matrix Spike	82
Trichloroethene	SW 846 8240	7185-6	Matrix Spike	90
Chlorodibromomethane	SW 846 8240	7185-6	Matrix Spike	100

** Subcontracted to Buffalo Testing.

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT

PAGE 2

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7185

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
1,1,2-Trichloroethane	SW 846 8240	7185-6	Matrix Spike	98
Benzene	SW 846 8240	7185-6	Matrix Spike	90
trans-1,3-Dichloropropene	SW 846 8240	7185-6	Matrix Spike	84
Bromoform	SW 846 8240	7185-6	Matrix Spike	98
4-Methyl-2-pentanone	SW 846 8240	7185-6	Matrix Spike	72
2-Hexanone	SW 846 8240	7185-6	Matrix Spike	66
Tetrachloroethene	SW 846 8240	7185-6	Matrix Spike	104
Toluene	SW 846 8240	7185-6	Matrix Spike	96
1,1,2,2-Tetrachloroethane	SW 846 8240	7185-6	Matrix Spike	92
Chlorobenzene	SW 846 8240	7185-6	Matrix Spike	94
Ethylbenzene	SW 846 8240	7185-6	Matrix Spike	98
Styrene	SW 846 8240	7185-6	Matrix Spike	96
m-Xylene	SW 846 8240	7185-6	Matrix Spike	96
o/p-Xylene	SW 846 8240	7185-6	Matrix Spike	95
Phenol	SW 846 8270	7185-6	Matrix Spike	47
bis(2-chloroethyl)ether	SW 846 8270	7185-6	Matrix Spike	74
2-Chlorophenol	SW 846 8270	7185-6	Matrix Spike	78
1,3-Dichlorobenzene	SW 846 8270	7185-6	Matrix Spike	37
1,4-Dichlorobenzene	SW 846 8270	7185-6	Matrix Spike	39
1,2-Dichlorobenzene	SW 846 8270	7185-6	Matrix Spike	44
bis(2-chloroisopropyl)ether	SW 846 8270	7185-6	Matrix Spike	72
n-Nitrosodi-n-propylamine	SW 846 8270	7185-6	Matrix Spike	80
Hexachloroethane	SW 846 8270	7185-6	Matrix Spike	31
Nitrobenzene	SW 846 8270	7185-6	Matrix Spike	74
Isophorone	SW 846 8270	7185-6	Matrix Spike	75
2-Nitrophenol	SW 846 8270	7185-6	Matrix Spike	72
2,4-Dimethylphenol	SW 846 8270	7185-6	Matrix Spike	64
bis(2-chloroethoxy)methane	SW 846 8270	7185-6	Matrix Spike	75
2,4-Dichlorophenol	SW 846 8270	7185-6	Matrix Spike	76

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7185

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
1,2,4-Trichlorobenzene	SW 846 8270	7185-6	Matrix Spike	50
Naphthalene	SW 846 8270	7185-6	Matrix Spike	58
4-Chloroaniline	SW 846 8270	7185-6	Matrix Spike	21
Hexachlorobutadiene	SW 846 8270	7185-6	Matrix Spike	36
4-Chloro-3-methylphenol	SW 846 8270	7185-6	Matrix Spike	77
Hexachlorocyclopentadiene	SW 846 8270	7185-6	Matrix Spike	50
2,4,6-Trichlorophenol	SW 846 8270	7185-6	Matrix Spike	77
2,4,5-Trichlorophenol	SW 846 8270	7185-6	Matrix Spike	77
2-Chloronaphthalene	SW 846 8270	7185-6	Matrix Spike	68
Dimethyl phthalate	SW 846 8270	7185-6	Matrix Spike	75
Acenaphthylene	SW 846 8270	7185-6	Matrix Spike	67
2,6-Dinitrotoluene	SW 846 8270	7185-6	Matrix Spike	79
Acenaphthene	SW 846 8270	7185-6	Matrix Spike	69
2,4-Dinitrophenol	SW 846 8270	7185-6	Matrix Spike	115
4-Nitrophenol	SW 846 8270	7185-6	Matrix Spike	70
2,4-Dinitrotoluene	SW 846 8270	7185-6	Matrix Spike	83
Diethyl phthalate	SW 846 8270	7185-6	Matrix Spike	74
4-Chlorophenyl phenyl ether	SW 846 8270	7185-6	Matrix Spike	72
Fluorene	SW 846 8270	7185-6	Matrix Spike	69
4,6-Dinitro-2-methylphenol	SW 846 8270	7185-6	Matrix Spike	92
n-Nitrosodiphenylamine	SW 846 8270	7185-6	Matrix Spike	79
4-Bromophenyl phenyl ether	SW 846 8270	7185-6	Matrix Spike	72
Hexachlorobenzene	SW 846 8270	7185-6	Matrix Spike	69
Pentachlorophenol	SW 846 8270	7185-6	Matrix Spike	79
Phenanthrene	SW 846 8270	7185-6	Matrix Spike	74
Anthracene	SW 846 8270	7185-6	Matrix Spike	74
Carbazole	SW 846 8270	7185-6	Matrix Spike	87
di-n-Butylphthalate	SW 846 8270	7185-6	Matrix Spike	72
Fluoranthene	SW 846 8270	7185-6	Matrix Spike	73

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CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7185

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Pyrene	SW 846 8270	7185-6	Matrix Spike	75
Butyl benzyl phthalate	SW 846 8270	7185-6	Matrix Spike	82
3,3'-Dichlorobenzidine	SW 846 8270	7185-6	Matrix Spike	83
Benzo(a)anthracene	SW 846 8270	7185-6	Matrix Spike	79
Chrysene	SW 846 8270	7185-6	Matrix Spike	80
bis(2ethylhexyl)phthalate	SW 846 8270	7185-6	Matrix Spike	77
di-n-Octylphthalate	SW 846 8270	7185-6	Matrix Spike	74
Benzo(b)fluoranthene	SW 846 8270	7185-6	Matrix Spike	76
Benzo(k)fluoranthene	SW 846 8270	7185-6	Matrix Spike	76
Benzo(a)pyrene	SW 846 8270	7185-6	Matrix Spike	72
Indeno(1,2,3-cd)pyrene	SW 846 8270	7185-6	Matrix Spike	81
Dibenzo(a,h)anthracene	SW 846 8270	7185-6	Matrix Spike	65
Benzo(g,h,i)perylene	SW 846 8270	7185-6	Matrix Spike	54

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7185

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Ammonia **	EPA 350.1	7185-6	Duplicate	1.1
Nitrite	HACH 8507	7185-6	Duplicate	NA
Total Kjeldahl Nitrogen	EPA 351.3	7185-6	Duplicate	6.0
Total Iron	EPA 200.7	7185-6	Duplicate	0.5
Soluble Iron	EPA 200.7	7185-6	Duplicate	2.0
Total Potassium	EPA 200.7	7185-6	Duplicate	11
Soluble Potassium	EPA 200.7	7185-6	Duplicate	2.7
Total Zinc	EPA 200.7	7185-6	Duplicate	0
Soluble Zinc	EPA 200.7	7185-6	Duplicate	0
Chloromethane	SW 846 8240	7185-6	Duplicate	NA
Bromomethane	SW 846 8240	7185-6	Duplicate	NA
Vinyl chloride	SW 846 8240	7185-6	Duplicate	4.1
Chloroethane	SW 846 8240	7185-6	Duplicate	NA
Methylene chloride	SW 846 8240	7185-6	Duplicate	NA
Acetone	SW 846 8240	7185-6	Duplicate	NA
Carbon disulfide	SW 846 8240	7185-6	Duplicate	NA
1,1-Dichloroethene	SW 846 8240	7185-6	Duplicate	NA
1,1-Dichloroethane	SW 846 8240	7185-6	Duplicate	NA
1,2-Dichloroethylene (total)	SW 846 8240	7185-6	Duplicate	1.5
Chloroform	SW 846 8240	7185-6	Duplicate	NA
1,2-Dichloroethane	SW 846 8240	7185-6	Duplicate	NA
2-Butanone	SW 846 8240	7185-6	Duplicate	NA
1,1,1-Trichloroethane	SW 846 8240	7185-6	Duplicate	NA
Carbon tetrachloride	SW 846 8240	7185-6	Duplicate	NA
Bromodichloromethane	SW 846 8240	7185-6	Duplicate	NA
1,2-Dichloropropane	SW 846 8240	7185-6	Duplicate	NA
cis-1,3-Dichloropropene	SW 846 8240	7185-6	Duplicate	NA
Trichloroethene	SW 846 8240	7185-6	Duplicate	2.6

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

** Subcontracted to Buffalo Testing.

ADVANCED ENVIRONMENTAL SERVICES, INC.
QUALITY CONTROL REPORT

PAGE 2

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7185

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Chlorodibromomethane	SW 846 8240	7185-6	Duplicate	NA
1,1,2-Trichloroethane	SW 846 8240	7185-6	Duplicate	NA
Benzene	SW 846 8240	7185-6	Duplicate	NA
trans-1,3-Dichloropropene	SW 846 8240	7185-6	Duplicate	NA
Bromoform	SW 846 8240	7185-6	Duplicate	NA
4-Methyl-2-pentanone	SW 846 8240	7185-6	Duplicate	NA
2-Hexanone	SW 846 8240	7185-6	Duplicate	NA
Tetrachloroethene	SW 846 8240	7185-6	Duplicate	0.0
Toluene	SW 846 8240	7185-6	Duplicate	NA
1,1,2,2-Tetrachloroethane	SW 846 8240	7185-6	Duplicate	NA
Chlorobenzene	SW 846 8240	7185-6	Duplicate	NA
Ethylbenzene	SW 846 8240	7185-6	Duplicate	NA
Styrene	SW 846 8240	7185-6	Duplicate	NA
m-Xylene	SW 846 8240	7185-6	Duplicate	NA
o/p-Xylene	SW 846 8240	7185-6	Duplicate	NA
Phenol	SW 846 8270	7185-6	Duplicate	NA
bis(2-chloroethyl)ether	SW 846 8270	7185-6	Duplicate	NA
2-Chlorophenol	SW 846 8270	7185-6	Duplicate	NA
1,3-Dichlorobenzene	SW 846 8270	7185-6	Duplicate	NA
1,4-Dichlorobenzene	SW 846 8270	7185-6	Duplicate	NA
1,2-Dichlorobenzene	SW 846 8270	7185-6	Duplicate	NA
2-Methylphenol	SW 846 8270	7185-6	Duplicate	NA
bis(2-chloroisopropyl)ether	SW 846 8270	7185-6	Duplicate	NA
n-Nitrosodi-n-propylamine	SW 846 8270	7185-6	Duplicate	NA
Hexachloroethane	SW 846 8270	7185-6	Duplicate	NA
Nitrobenzene	SW 846 8270	7185-6	Duplicate	NA
Isophorone	SW 846 8270	7185-6	Duplicate	NA
2-Nitrophenol	SW 846 8270	7185-6	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: 7185

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
2,4-Dimethylphenol	SW 846 8270	7185-6	Duplicate	NA
bis(2-chloroethoxy)methane	SW 846 8270	7185-6	Duplicate	NA
2,4-Dichlorophenol	SW 846 8270	7185-6	Duplicate	NA
1,2,4-Trichlorobenzene	SW 846 8270	7185-6	Duplicate	NA
Naphthalene	SW 846 8270	7185-6	Duplicate	NA
Hexachlorobutadiene	SW 846 8270	7185-6	Duplicate	0
4-Chloro-3-methylphenol	SW 846 8270	7185-6	Duplicate	NA
Hexachlorocyclopentadiene	SW 846 8270	7185-6	Duplicate	NA
2,4,6-Trichlorophenol	SW 846 8270	7185-6	Duplicate	NA
2,4,5-Trichlorophenol	SW 846 8270	7185-6	Duplicate	NA
2-Chloronaphthalene	SW 846 8270	7185-6	Duplicate	NA
Dimethyl phthalate	SW 846 8270	7185-6	Duplicate	NA
Acenaphthylene	SW 846 8270	7185-6	Duplicate	NA
2,6-Dinitrotoluene	SW 846 8270	7185-6	Duplicate	NA
Acenaphthene	SW 846 8270	7185-6	Duplicate	NA
2,4-Dinitrophenol	SW 846 8270	7185-6	Duplicate	NA
4-Nitrophenol	SW 846 8270	7185-6	Duplicate	NA
Dibenzofuran	SW 846 8270	7185-6	Duplicate	NA
2,4-Dinitrotoluene	SW 846 8270	7185-6	Duplicate	NA
Diethyl phthalate	SW 846 8270	7185-6	Duplicate	NA
4-Chlorophenyl phenyl ether	SW 846 8270	7185-6	Duplicate	NA
Fluorene	SW 846 8270	7185-6	Duplicate	NA
4,6-Dinitro-2-methylphenol	SW 846 8270	7185-6	Duplicate	NA
n-Nitrosodiphenylamine	SW 846 8270	7185-6	Duplicate	NA
4-Bromophenyl phenyl ether	SW 846 8270	7185-6	Duplicate	NA
Hexachlorobenzene	SW 846 8270	7185-6	Duplicate	NA
Pentachlorophenol	SW 846 8270	7185-6	Duplicate	NA
Phenanthrene	SW 846 8270	7185-6	Duplicate	NA

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 7185

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Anthracene	SW 846 8270	7185-6	Duplicate	NA
Carbazole	SW 846 8270	7185-6	Duplicate	NA
di-n-Butylphthalate	SW 846 8270	7185-6	Duplicate	NA
Fluoranthene	SW 846 8270	7185-6	Duplicate	NA
Pyrene	SW 846 8270	7185-6	Duplicate	NA
Butyl benzyl phthalate	SW 846 8270	7185-6	Duplicate	NA
3,3'-Dichlorobenzidine	SW 846 8270	7185-6	Duplicate	NA
Benzo(a)anthracene	SW 846 8270	7185-6	Duplicate	NA
Chrysene	SW 846 8270	7185-6	Duplicate	NA
bis(2ethylhexyl)phthalate	SW 846 8270	7185-6	Duplicate	NA
di-n-Octylphthalate	SW 846 8270	7185-6	Duplicate	NA
Benzo(b)fluoranthene	SW 846 8270	7185-6	Duplicate	NA
Benzo(k)fluoranthene	SW 846 8270	7185-6	Duplicate	NA
Benzo(a)pyrene	SW 846 8270	7185-6	Duplicate	NA
Indeno(1,2,3-cd)pyrene	SW 846 8270	7185-6	Duplicate	NA
Dibenzo(a,h)anthracene	SW 846 8270	7185-6	Duplicate	NA
Benzo(g,h,i)perylene	SW 846 8270	7185-6	Duplicate	NA

Advanced Environmental Services, Inc.

Sample Traceability Report

Project Identification

CTC 7/85

[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 CTL 7185

Sample #	Sample Collection	Group #	Run #	Prep Method	Prep Date	Analyst	Analytical Methodology	Analysis Date	Analyst
7185-6	2-20-97	—	—	—	—	—	624	2-27-97	MM
I -8	2-21-97	—	—	—	—	—	I	I	I
I -9	2-21-97	—	—	—	—	—	I	I	I
I -10	2-21-97	—	—	—	—	—	I	I	I

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

Object Identification

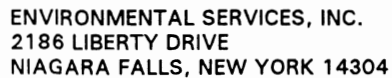
[illegible]

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



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

ULCAR CARBON

URE: 

SAMPLE IDENTIFICATION

GRAB COMP

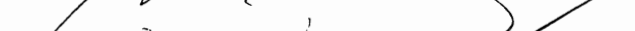
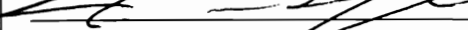
SAMPLE TY

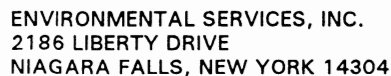
CONTAINER CLASSIFICATION

7185

 $C\pi$ **TOTAL NUMBER OF CONTAINERS**

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 2/21/97	TIME 3:45pm	RECEIVED BY: 
2. RELINQUISHED BY: 	DATE	TIME	RECEIVED BY: 
3. RELINQUISHED BY: 	DATE	TIME	RECEIVED BY: 



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

PROJECT NAME: UCAR CARBON

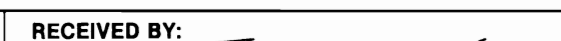
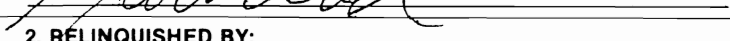
SAMPLER'S SIGNATURE: [Signature]

PROJECT I.D. #: 7185

JOB CODE: CTC

TOTAL NUMBER OF CONTAINERS	33
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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 2-20-97	TIME 16:35	RECEIVED BY: 
2. RELINQUISHED BY: 	DATE	TIME	RECEIVED BY: 
3. RELINQUISHED BY: 	DATE	TIME	RECEIVED BY: 