



UCAR CARBON COMPANY INC.

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

October 6, 1997

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

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

Dear Mr. Hans,

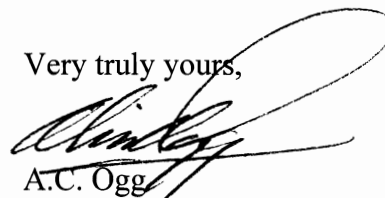
I am enclosing a copy of the thirty eighth (38) quarter's groundwater sampling analysis from the closed Republic Waste Management Facility. Bedrock well, BW-4, continues to demonstrate some slight volatile organic contamination in the less than one part per million range.

The attached table summarizes the positive organic parameters from BW-4 for the thirty eighth (38) quarter.

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

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

Very truly yours,



A.C. Ogg
Site Manager

A.C. Ogg
nm
encls.

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

38TH QUARTER

POSITIVE ORGANIC PARAMETERS FROM BW-4

CONTAMINATE	38th Quarter ppb	Mean Conc. ppb	Range ppb
1,2-Dichlorethene (Total)	250	324	200 - 570
Trichloroethene	450	295	30 - 740
Tetrachloroethene	250	232	72 - 440
Hexachlorethane	51	19	10 - 51

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

SEPTEMBER 1997

Prepared By:



"A Company Dedicated to Honesty, Quality and Service"

September 29, 1997
REF: CTC72KJ/100B
Lab ID No. 10233

QA/QC VERIFICATION FOR PROJECT ID 72KI

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.

Jeannie Kennedy
Metals Department

Linda A Ratka
Inorganic Chemistry

Elizabeth A. Buck
Organic Chemistry

John Alf
Field Services

W. Joseph McDougall
Quality Control

W. Joseph McDougall
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
September 3, 1997 thru September 5, 1997

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 72KI

Monitoring Well I.D.	Sampling Date	Sampling Time	Water Level (ft.)	Turbidity (NTU)	Filter Time	Field Comments/Observations
BW-1	9/3/97	2:22 PM	19.40	11	3:10 PM	Clear with odor
BW-2	9/3/97	1:57 PM	16.25	11	3:15 PM	Clear
BW-3	9/4/97	1:30 PM	15.74	5	3:15 PM	Clear.
BW-4	9/4/97	2:10 PM	15.81	10	3:30 PM	Clear
BW-5	9/3/97	11:30 AM	14.03	5	3:00 PM	Clear with odor
BW-6	9/5/97	10:50 AM	17.42	17	12:00 PM	Clear
MW-1	9/4/97	1:50 PM	15.70	8	3:20 PM	Clear
*MW-2	9/4/97	1:55 PM	24.23	150	NA	Cloudy with black solids
MW-3	9/4/97	1:11 PM	14.69	1,440	3:10 PM	Clear to tan/brown
OW-1 South	9/4/97	2:15 PM	8.54	NA	NA	Required to take water elevation only.
OW-2 North	9/4/97	2:20 PM	8.12	NA	NA	Required to take water elevation only.
Blind Dup	9/5/97	10:50 AM	17.42	16	12:00 PM	Clear
Trip Blank	9/4/97	9:00 AM	NA	3	NA	Deionized Water

The Blind Duplicate site was BW-6.

* Due to the lack of sufficient recharge from MW-2, the metals parameters could not be collected.


Field Technician 9-23-97
Date

Advanced Environmental Services, Inc.

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

QUARTERLY GROUNDWATER MONITORING - FIELD PARAMETER INFORMATION
September 3, 1997 thru September 5, 1997

UCAR CARBON COMPANY, INC.

Hyde Park Boulevard
Niagara Falls, New York

AES Code: CTC

Project I.D. # 72KI

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	9/3/97	610.72	4	19.39	591.33	28.85	6.18	25.0	C
BW-2	9/3/97	608.43	4	16.25	592.18	26.60	6.76	40.0	C
BW-3	9/4/97	604.72	4	15.72	589.00	22.91	4.69	20.0	C
BW-4	9/4/97	607.08	4	14.41	592.67	22.69	5.41	30.0	C
BW-5	9/3/97	603.33	4	13.99	589.34	28.80	9.67	35.0	C
BW-6	9/5/97	607.04	4	13.22	593.82	25.15	7.79	25.0	C
MW-1	9/3/97	609.43	2	13.31	596.12	23.40	1.65	1.75 (Dry)	S
MW-2	9/3/97	607.54	3	23.95	583.59	24.61	0.24	0.25 (Dry)	VS
MW-3	9/3/97	601.61	2	11.55	590.06	16.11	0.74	2.5 (Dry)	S
OW-1 SOUTH	9/6/4	608.81	2	8.54	600.27	36.05	4.49	NR	N/A
OW-2 NORTH	9/4/97	607.06	2	8.12	598.94	35.90	4.53	NR	N/A

Abbreviations:

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

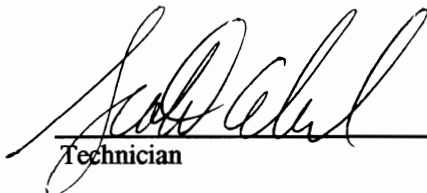
S = Slow ----- Recharge Rate within 24 hr period.

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

C = Continuous ---- Recharge Rate immediate.

NR = Not Required

N/A = Not Applicable



Technician

9-23-97

Date

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 09/04/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 72KI-1

PROJECT ID: 72KI

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	8	NTU	0.1	EPA 180.1
Ammonia	4.5	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	8.4 D	mg/L	0.4	EPA 351.3
Total Iron	4.2	mg/L	0.05	EPA 200.7
Soluble Iron	0.07	mg/L	0.05	EPA 200.7
Total Potassium	39	mg/L	1.0	EPA 200.7
Soluble Potassium	38	mg/L	1.0	EPA 200.7
Total Zinc	0.05	mg/L	0.02	EPA 200.7
Soluble Zinc	ND	mg/L	0.08	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 09/04/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 72K1-2

PROJECT ID: 72K1

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	1,440	NTU	0.1	EPA 180.1
Ammonia	1.2	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.4 **	HACH 8507
Total Kjeldahl Nitrogen	1.5 D	mg/L	0.4	EPA 351.3
Total Iron	47	mg/L	0.05	EPA 200.7
Soluble Iron	0.38	mg/L	0.05	EPA 200.7
Total Potassium	3.8	mg/L	1.0	EPA 200.7
Soluble Potassium	2.4	mg/L	1.0	EPA 200.7
Total Zinc	0.33	mg/L	0.02	EPA 200.7
Soluble Zinc	ND	mg/L	0.08	EPA 200.7

* Analysis performed in the field.

** High limit due to sample matrix; dilution was required.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-1
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 09/03/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 72K1-3

PROJECT ID: 72KI

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	11	NTU	0.1	EPA 180.1
Ammonia	1.5	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	3.8 D	mg/L	0.4	EPA 351.3
Total Iron	1.5	mg/L	0.05	EPA 200.7
Soluble Iron	1.4	mg/L	0.05	EPA 200.7
Total Potassium	12	mg/L	1.0	EPA 200.7
Soluble Potassium	10	mg/L	1.0	EPA 200.7
Total Zinc	0.10	mg/L	0.02	EPA 200.7
Soluble Zinc	ND	mg/L	0.08	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 09/03/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 72K1-4

PROJECT ID: 72K1

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	11	NTU	0.1	EPA 180.1
Ammonia	0.97	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	2.7 D	mg/L	0.4	EPA 351.3
Total Iron	3.8	mg/L	0.05	EPA 200.7
Soluble Iron	3.8	mg/L	0.05	EPA 200.7
Total Potassium	4.3	mg/L	1.0	EPA 200.7
Soluble Potassium	4.0	mg/L	1.0	EPA 200.7
Total Zinc	0.02	mg/L	0.02	EPA 200.7
Soluble Zinc	ND	mg/L	0.08	EPA 200.7

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-3
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 09/04/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 72K1-5

PROJECT ID: 72K1

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	5	NTU	0.1	EPA 180.1
Ammonia	0.82	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	1.2 D	mg/L	0.4	EPA 351.3
Total Iron	1.2	mg/L	0.05	EPA 200.7
Soluble Iron	1.1	mg/L	0.05	EPA 200.7
Total Potassium	5.4	mg/L	1.0	EPA 200.7
Soluble Potassium	3.4	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

* Analysis performed in the field.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/04/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72K1-6

PROJECT ID: 72K1

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	10	NTU	0.1	EPA 180.1
Ammonia	3.8	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	5.3 D	mg/L	0.4	EPA 351.3
Total Iron	3.8	mg/L	0.05	EPA 200.7
Soluble Iron	3.4	mg/L	0.05	EPA 200.7
Total Potassium	25	mg/L	1.0	EPA 200.7
Soluble Potassium	25	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	50	SW 846 8240
Bromomethane	ND	µg/L	50	SW 846 8240
Vinyl chloride	ND	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)	250 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.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/04/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72K1-6

PROJECT ID: 72K1

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Trichloroethene	450 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	250 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	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/04/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72K1-6

PROJECT ID: 72K1

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Hexachloroethane	51	µg/L	10	SW 846 8270
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270
2-Nitrophenol	ND	µg/L	10	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	10	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	10	SW 846 8270
Naphthalene	ND	µg/L	10	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	ND	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	10	SW 846 8270
2-Methylnaphthalene	ND	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	10	SW 846 8270
2-Chloronaphthalene	ND	µg/L	10	SW 846 8270
2-Nitroaniline	ND	µg/L	10	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	10	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	10	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	10	SW 846 8270
Dibenzofuran	ND	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	10	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-4
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/04/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72K1-6

PROJECT ID: 72K1

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

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: BW-5
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 09/03/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 72KI-7

PROJECT ID: 72KI

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	5	NTU	0.1	EPA 180.1
Ammonia	0.48	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	2.5 D	mg/L	0.4	EPA 351.3
Total Iron	1.5	mg/L	0.05	EPA 200.7
Soluble Iron	1.1	mg/L	0.05	EPA 200.7
Total Potassium	2.7 **	mg/L	1.0	EPA 200.7
Soluble Potassium	3.7	mg/L	1.0	EPA 200.7
Total Zinc	0.10	mg/L	0.02	EPA 200.7
Soluble Zinc	ND	mg/L	0.08	EPA 200.7

* Analysis performed in the field.

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

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/05/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72KI-8

PROJECT ID: 72KI

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	17	NTU	0.1	EPA 180.1
Ammonia	1.0	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	0.92 D	mg/L	0.4	EPA 351.3
Total Iron	5.5	mg/L	0.05	EPA 200.7
Soluble Iron	1.9	mg/L	0.05	EPA 200.7
Total Potassium	ND **	mg/L	1.0	EPA 200.7
Soluble Potassium	1.2	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.

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

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/05/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72K1-8

PROJECT ID: 72K1

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	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/05/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72KI-8

PROJECT ID: 72KI

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

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BW-6
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/05/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72KI-8

PROJECT ID: 72KI

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

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/05/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72KI-9

PROJECT ID: 72KI

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	16	NTU	0.1	EPA 180.1
Ammonia	0.7	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	0.76 D	mg/L	0.4	EPA 351.3
Total Iron	5.2	mg/L	0.05	EPA 200.7
Soluble Iron	2.0	mg/L	0.05	EPA 200.7
Total Potassium	ND	mg/L	1.0	EPA 200.7
Soluble Potassium	ND	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.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/05/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72KI-9

PROJECT ID: 72KI

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	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/05/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72K1-9

PROJECT ID: 72K1

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

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: BLIND DUPLICATE
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/05/97
 SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72KI-9

PROJECT ID: 72KI

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

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/04/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72K1-10

PROJECT ID: 72K1

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	3	NTU	0.1	EPA 180.1
Ammonia	ND	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.04	HACH 8507
Total Kjeldahl Nitrogen	0.64 D	mg/L	0.4	EPA 351.3
Total Iron	ND	mg/L	0.05	EPA 200.7
Total Potassium	ND	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.

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/04/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72KI-10

PROJECT ID: 72KI

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	10	SW 846 8270
Phenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethyl)ether	ND	µg/L	10	SW 846 8270
2-Chlorophenol	ND	µg/L	10	SW 846 8270
1,3-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,4-Dichlorobenzene	ND	µg/L	10	SW 846 8270
1,2-Dichlorobenzene	ND	µg/L	10	SW 846 8270
2-Methylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroisopropyl)ether	ND	µg/L	10	SW 846 8270
4-Methylphenol	ND	µg/L	10	SW 846 8270
n-Nitrosodi-n-propylamine	ND	µg/L	10	SW 846 8270
Hexachloroethane	ND	µg/L	10	SW 846 8270
Nitrobenzene	ND	µg/L	10	SW 846 8270
Isophorone	ND	µg/L	10	SW 846 8270

CLIENT: Ucar Carbon Company, Incorporated
 SAMPLE ID: TRIP BLANK
 COLLECTION METHOD: GRAB
 COLLECTION DATE(S): 09/04/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72K1-10

PROJECT ID: 72K1

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
2-Nitrophenol	ND	µg/L	10	SW 846 8270
2,4-Dimethylphenol	ND	µg/L	10	SW 846 8270
bis(2-chloroethoxy)methane	ND	µg/L	10	SW 846 8270
2,4-Dichlorophenol	ND	µg/L	10	SW 846 8270
1,2,4-Trichlorobenzene	ND	µg/L	10	SW 846 8270
Naphthalene	ND	µg/L	10	SW 846 8270
4-Chloroaniline	ND	µg/L	10	SW 846 8270
Hexachlorobutadiene	ND	µg/L	10	SW 846 8270
4-Chloro-3-methylphenol	ND	µg/L	10	SW 846 8270
2-Methylnaphthalene	ND	µg/L	10	SW 846 8270
Hexachlorocyclopentadiene	ND	µg/L	10	SW 846 8270
2,4,6-Trichlorophenol	ND	µg/L	10	SW 846 8270
2,4,5-Trichlorophenol	ND	µg/L	10	SW 846 8270
2-Chloronaphthalene	ND	µg/L	10	SW 846 8270
2-Nitroaniline	ND	µg/L	10	SW 846 8270
Dimethyl phthalate	ND	µg/L	10	SW 846 8270
Acenaphthylene	ND	µg/L	10	SW 846 8270
2,6-Dinitrotoluene	ND	µg/L	10	SW 846 8270
3-Nitroaniline	ND	µg/L	10	SW 846 8270
Acenaphthene	ND	µg/L	10	SW 846 8270
2,4-Dinitrophenol	ND	µg/L	10	SW 846 8270
4-Nitrophenol	ND	µg/L	10	SW 846 8270
Dibenzofuran	ND	µg/L	10	SW 846 8270
2,4-Dinitrotoluene	ND	µg/L	10	SW 846 8270
Diethyl phthalate	ND	µg/L	10	SW 846 8270
4-Chlorophenyl phenyl ether	ND	µg/L	10	SW 846 8270
Fluorene	ND	µg/L	10	SW 846 8270
4-Nitroaniline	ND	µg/L	10	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): 09/04/97
 SAMPLE TYPE: BAKER WATER

AES CLIENT ID: CTC
 AES SAMPLE ID: 72K1-10

PROJECT ID: 72K1

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

CLIENT: Ucar Carbon Company, Incorporated
SAMPLE ID: MW-2
COLLECTION METHOD: GRAB
COLLECTION DATE(S): 09/04/97
SAMPLE TYPE: GROUNDWATER

AES CLIENT ID: CTC
AES SAMPLE ID: 72K1-11

PROJECT ID: 72K1

Analytical Parameters	Analytical Results	Units	Practical Quantifiable Limit	Method
Turbidity *	150	NTU	0.1	EPA 180.1
Ammonia	7.5	mg/L	0.4	EPA 350.3
Nitrite	ND	mg/L	0.4 **	HACH 8507
Total Kjeldahl Nitrogen	8.8 D	mg/L	0.4	EPA 351.3

* Analysis performed in the field.

** High limit due to sample matrix; dilution was required.

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 72K1

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Ammonia	EPA 350.3	72K1-6	Matrix Spike	86
Nitrite	HACH 8507	72K1-6	Matrix Spike	120
Total Kjeldahl Nitrogen	EPA 351.3	72K1-6	Matrix Spike	101
Total Iron	EPA 200.7	72K1-6	Matrix Spike	78
Soluble Iron	EPA 200.7	72K1-6	Matrix Spike	120
Total Potassium	EPA 200.7	72K1-6	Matrix Spike	103
Soluble Potassium	EPA 200.7	72K1-6	Matrix Spike	77
Total Zinc	EPA 200.7	72K1-6	Matrix Spike	100
Soluble Zinc	EPA 200.7	72K1-6	Matrix Spike	97
Chloromethane	SW 846 8240	72K1-6	Matrix Spike	84
Bromomethane	SW 846 8240	72K1-6	Matrix Spike	102
Vinyl chloride	SW 846 8240	72K1-6	Matrix Spike	90
Chloroethane	SW 846 8240	72K1-6	Matrix Spike	82
Methylene chloride	SW 846 8240	72K1-6	Matrix Spike	110
Acetone	SW 846 8240	72K1-6	Matrix Spike	82
Carbon disulfide	SW 846 8240	72K1-6	Matrix Spike	80
1,1-Dichloroethene	SW 846 8240	72K1-6	Matrix Spike	74
1,1-Dichloroethane	SW 846 8240	72K1-6	Matrix Spike	88
1,2-Dichloroethylene (total)	SW 846 8240	72K1-6	Matrix Spike	96
Chloroform	SW 846 8240	72K1-6	Matrix Spike	98
1,2-Dichloroethane	SW 846 8240	72K1-6	Matrix Spike	100
2-Butanone	SW 846 8240	72K1-6	Matrix Spike	66
1,1,1-Trichloroethane	SW 846 8240	72K1-6	Matrix Spike	100
Carbon tetrachloride	SW 846 8240	72K1-6	Matrix Spike	92
Bromodichloromethane	SW 846 8240	72K1-6	Matrix Spike	106
1,2-Dichloropropane	SW 846 8240	72K1-6	Matrix Spike	86
cis-1,3-Dichloropropene	SW 846 8240	72K1-6	Matrix Spike	78
Trichloroethene	SW 846 8240	72K1-6	Matrix Spike	90
Chlorodibromomethane	SW 846 8240	72K1-6	Matrix Spike	112

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 72K1

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
1,1,2-Trichloroethane	SW 846 8240	72K1-6	Matrix Spike	90
Benzene	SW 846 8240	72K1-6	Matrix Spike	84
trans-1,3-Dichloropropene	SW 846 8240	72K1-6	Matrix Spike	78
Bromoform	SW 846 8240	72K1-6	Matrix Spike	104
4-Methyl-2-pentanone	SW 846 8240	72K1-6	Matrix Spike	70
2-Hexanone	SW 846 8240	72K1-6	Matrix Spike	70
Tetrachloroethene	SW 846 8240	72K1-6	Matrix Spike	110
Toluene	SW 846 8240	72K1-6	Matrix Spike	94
1,1,2,2-Tetrachloroethane	SW 846 8240	72K1-6	Matrix Spike	84
Chlorobenzene	SW 846 8240	72K1-6	Matrix Spike	90
Ethylbenzene	SW 846 8240	72K1-6	Matrix Spike	94
Styrene	SW 846 8240	72K1-6	Matrix Spike	86
m-Xylene	SW 846 8240	72K1-6	Matrix Spike	86
o/p-Xylene	SW 846 8240	72K1-6	Matrix Spike	88
Benzoic acid	SW 846 8270	72K1-6	Matrix Spike	84 *
Phenol	SW 846 8270	72K1-6	Matrix Spike	76
bis(2-chloroethyl)ether	SW 846 8270	72K1-6	Matrix Spike	78
2-Chlorophenol	SW 846 8270	72K1-6	Matrix Spike	82
1,3-Dichlorobenzene	SW 846 8270	72K1-6	Matrix Spike	81
1,4-Dichlorobenzene	SW 846 8270	72K1-6	Matrix Spike	81
1,2-Dichlorobenzene	SW 846 8270	72K1-6	Matrix Spike	82
2-Methylphenol	SW 846 8270	72K1-6	Matrix Spike	78
bis(2-chloroisopropyl)ether	SW 846 8270	72K1-6	Matrix Spike	82
4-Methylphenol	SW 846 8270	72K1-6	Matrix Spike	79
n-Nitrosodi-n-propylamine	SW 846 8270	72K1-6	Matrix Spike	75
Hexachloroethane	SW 846 8270	72K1-6	Matrix Spike	89
Nitrobenzene	SW 846 8270	72K1-6	Matrix Spike	81
Isophorone	SW 846 8270	72K1-6	Matrix Spike	86

* Recoveries based on analytical spike.

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 72KI

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
2-Nitrophenol	SW 846 8270	72KI-6	Matrix Spike	77
2,4-Dimethylphenol	SW 846 8270	72KI-6	Matrix Spike	84
bis(2-chloroethoxy)methane	SW 846 8270	72KI-6	Matrix Spike	76
2,4-Dichlorophenol	SW 846 8270	72KI-6	Matrix Spike	85
1,2,4-Trichlorobenzene	SW 846 8270	72KI-6	Matrix Spike	84
Naphthalene	SW 846 8270	72KI-6	Matrix Spike	83
Hexachlorobutadiene	SW 846 8270	72KI-6	Matrix Spike	135
4-Chloro-3-methylphenol	SW 846 8270	72KI-6	Matrix Spike	90
Hexachlorocyclopentadiene	SW 846 8270	72KI-6	Matrix Spike	78
2,4,6-Trichlorophenol	SW 846 8270	72KI-6	Matrix Spike	79
2,4,5-Trichlorophenol	SW 846 8270	72KI-6	Matrix Spike	77
2-Chloronaphthalene	SW 846 8270	72KI-6	Matrix Spike	75
Dimethyl phthalate	SW 846 8270	72KI-6	Matrix Spike	78
Acenaphthylene	SW 846 8270	72KI-6	Matrix Spike	80
2,6-Dinitrotoluene	SW 846 8270	72KI-6	Matrix Spike	71
Acenaphthene	SW 846 8270	72KI-6	Matrix Spike	77
2,4-Dinitrophenol	SW 846 8270	72KI-6	Matrix Spike	66
4-Nitrophenol	SW 846 8270	72KI-6	Matrix Spike	84
2,4-Dinitrotoluene	SW 846 8270	72KI-6	Matrix Spike	75
Diethyl phthalate	SW 846 8270	72KI-6	Matrix Spike	82
4-Chlorophenyl phenyl ether	SW 846 8270	72KI-6	Matrix Spike	80
Fluorene	SW 846 8270	72KI-6	Matrix Spike	80
4,6-Dinitro-2-methylphenol	SW 846 8270	72KI-6	Matrix Spike	85
n-Nitrosodiphenylamine	SW 846 8270	72KI-6	Matrix Spike	93
4-Bromophenyl phenyl ether	SW 846 8270	72KI-6	Matrix Spike	79
Hexachlorobenzene	SW 846 8270	72KI-6	Matrix Spike	77
Pentachlorophenol	SW 846 8270	72KI-6	Matrix Spike	76
Phenanthrene	SW 846 8270	72KI-6	Matrix Spike	84
Anthracene	SW 846 8270	72KI-6	Matrix Spike	83

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CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 72K1

ACCURACY

Analytical Parameter(s)	Method	Sample ID	Type	Percent Recovery
Carbazole	SW 846 8270	72K1-6	Matrix Spike	93
di-n-Butylphthalate	SW 846 8270	72K1-6	Matrix Spike	96
Fluoranthene	SW 846 8270	72K1-6	Matrix Spike	85
Pyrene	SW 846 8270	72K1-6	Matrix Spike	80
Butyl benzyl phthalate	SW 846 8270	72K1-6	Matrix Spike	83
3,3'-Dichlorobenzidine	SW 846 8270	72K1-6	Matrix Spike	57
Benzo(a)anthracene	SW 846 8270	72K1-6	Matrix Spike	83
Chrysene	SW 846 8270	72K1-6	Matrix Spike	82
bis(2ethylhexyl)phthalate	SW 846 8270	72K1-6	Matrix Spike	86
di-n-Octylphthalate	SW 846 8270	72K1-6	Matrix Spike	92
Benzo(b)fluoranthene	SW 846 8270	72K1-6	Matrix Spike	83
Benzo(k)fluoranthene	SW 846 8270	72K1-6	Matrix Spike	118
Benzo(a)pyrene	SW 846 8270	72K1-6	Matrix Spike	84
Indeno(1,2,3-cd)pyrene	SW 846 8270	72K1-6	Matrix Spike	83
Dibenzo(a,h)anthracene	SW 846 8270	72K1-6	Matrix Spike	75
Benzo(g,h,i)perylene	SW 846 8270	72K1-6	Matrix Spike	76

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 72KI

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Ammonia	EPA 350.3	72KI-6	Duplicate	0.5
Nitrite	HACH 8507	72KI-6	Duplicate	NA
Total Kjeldahl Nitrogen	EPA 351.3	72KI-6	Duplicate	0
Total Iron	EPA 200.7	72KI-6	Duplicate	8
Soluble Iron	EPA 200.7	72KI-6	Duplicate	0
Total Potassium	EPA 200.7	72KI-6	Duplicate	2
Soluble Potassium	EPA 200.7	72KI-6	Duplicate	0
Total Zinc	EPA 200.7	72KI-6	Duplicate	NA
Soluble Zinc	EPA 200.7	72KI-6	Duplicate	NA
Chloromethane	SW 846 8240	72KI-6	Duplicate	NA
Bromomethane	SW 846 8240	72KI-6	Duplicate	NA
Vinyl chloride	SW 846 8240	72KI-6	Duplicate	NA
Chloroethane	SW 846 8240	72KI-6	Duplicate	NA
Methylene chloride	SW 846 8240	72KI-6	Duplicate	NA
Acetone	SW 846 8240	72KI-6	Duplicate	NA
Carbon disulfide	SW 846 8240	72KI-6	Duplicate	NA
1,1-Dichloroethene	SW 846 8240	72KI-6	Duplicate	NA
1,1-Dichloroethane	SW 846 8240	72KI-6	Duplicate	NA
1,2-Dichloroethylene (total)	SW 846 8240	72KI-6	Duplicate	6
Chloroform	SW 846 8240	72KI-6	Duplicate	NA
1,2-Dichloroethane	SW 846 8240	72KI-6	Duplicate	NA
2-Butanone	SW 846 8240	72KI-6	Duplicate	NA
1,1,1-Trichloroethane	SW 846 8240	72KI-6	Duplicate	NA
Carbon tetrachloride	SW 846 8240	72KI-6	Duplicate	NA
Bromodichloromethane	SW 846 8240	72KI-6	Duplicate	NA
1,2-Dichloropropane	SW 846 8240	72KI-6	Duplicate	NA
cis-1,3-Dichloropropene	SW 846 8240	72KI-6	Duplicate	NA
Trichloroethene	SW 846 8240	72KI-6	Duplicate	5

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

CLIENT: Ucar Carbon Company, Incorporated

AES CLIENT ID: CTC
PROJECT ID: 72KI

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Chlorodibromomethane	SW 846 8240	72KI-6	Duplicate	NA
1,1,2-Trichloroethane	SW 846 8240	72KI-6	Duplicate	NA
Benzene	SW 846 8240	72KI-6	Duplicate	NA
trans-1,3-Dichloropropene	SW 846 8240	72KI-6	Duplicate	NA
Bromoform	SW 846 8240	72KI-6	Duplicate	NA
4-Methyl-2-pentanone	SW 846 8240	72KI-6	Duplicate	NA
2-Hexanone	SW 846 8240	72KI-6	Duplicate	NA
Tetrachloroethene	SW 846 8240	72KI-6	Duplicate	13
Toluene	SW 846 8240	72KI-6	Duplicate	NA
1,1,2,2-Tetrachloroethane	SW 846 8240	72KI-6	Duplicate	NA
Chlorobenzene	SW 846 8240	72KI-6	Duplicate	NA
Ethylbenzene	SW 846 8240	72KI-6	Duplicate	NA
Styrene	SW 846 8240	72KI-6	Duplicate	NA
m-Xylene	SW 846 8240	72KI-6	Duplicate	NA
o/p-Xylene	SW 846 8240	72KI-6	Duplicate	NA
Aniline	SW 846 8270	72KI-6	Duplicate	NA
Benzoic acid	SW 846 8270	72KI-6	Duplicate	NA
Benzyl alcohol	SW 846 8270	72KI-6	Duplicate	NA
Phenol	SW 846 8270	72KI-6	Duplicate	NA
bis(2-chloroethyl)ether	SW 846 8270	72KI-6	Duplicate	NA
2-Chlorophenol	SW 846 8270	72KI-6	Duplicate	NA
1,3-Dichlorobenzene	SW 846 8270	72KI-6	Duplicate	NA
1,4-Dichlorobenzene	SW 846 8270	72KI-6	Duplicate	NA
1,2-Dichlorobenzene	SW 846 8270	72KI-6	Duplicate	NA
2-Methylphenol	SW 846 8270	72KI-6	Duplicate	NA
bis(2-chloroisopropyl)ether	SW 846 8270	72KI-6	Duplicate	NA
4-Methylphenol	SW 846 8270	72KI-6	Duplicate	NA
n-Nitrosodi-n-propylamine	SW 846 8270	72KI-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: 72KI

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
Hexachloroethane	SW 846 8270	72KI-6	Duplicate	5.9
Nitrobenzene	SW 846 8270	72KI-6	Duplicate	NA
Isophorone	SW 846 8270	72KI-6	Duplicate	NA
2-Nitrophenol	SW 846 8270	72KI-6	Duplicate	NA
2,4-Dimethylphenol	SW 846 8270	72KI-6	Duplicate	NA
bis(2-chloroethoxy)methane	SW 846 8270	72KI-6	Duplicate	NA
2,4-Dichlorophenol	SW 846 8270	72KI-6	Duplicate	NA
1,2,4-Trichlorobenzene	SW 846 8270	72KI-6	Duplicate	NA
Naphthalene	SW 846 8270	72KI-6	Duplicate	NA
4-Chloroaniline	SW 846 8270	72KI-6	Duplicate	NA
Hexachlorobutadiene	SW 846 8270	72KI-6	Duplicate	NA
4-Chloro-3-methylphenol	SW 846 8270	72KI-6	Duplicate	NA
2-Methylnaphthalene	SW 846 8270	72KI-6	Duplicate	NA
Hexachlorocyclopentadiene	SW 846 8270	72KI-6	Duplicate	NA
2,4,6-Trichlorophenol	SW 846 8270	72KI-6	Duplicate	NA
2,4,5-Trichlorophenol	SW 846 8270	72KI-6	Duplicate	NA
2-Chloronaphthalene	SW 846 8270	72KI-6	Duplicate	NA
2-Nitroaniline	SW 846 8270	72KI-6	Duplicate	NA
Dimethyl phthalate	SW 846 8270	72KI-6	Duplicate	NA
Acenaphthylene	SW 846 8270	72KI-6	Duplicate	NA
2,6-Dinitrotoluene	SW 846 8270	72KI-6	Duplicate	NA
3-Nitroaniline	SW 846 8270	72KI-6	Duplicate	NA
Acenaphthene	SW 846 8270	72KI-6	Duplicate	NA
2,4-Dinitrophenol	SW 846 8270	72KI-6	Duplicate	NA
4-Nitrophenol	SW 846 8270	72KI-6	Duplicate	NA
Dibenzofuran	SW 846 8270	72KI-6	Duplicate	NA
2,4-Dinitrotoluene	SW 846 8270	72KI-6	Duplicate	NA
Diethyl phthalate	SW 846 8270	72KI-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: 72KI

PRECISION

Analytical Parameter(s)	Method	Sample ID	Type	Relative % Difference
4-Chlorophenyl phenyl ether	SW 846 8270	72KI-6	Duplicate	NA
Fluorene	SW 846 8270	72KI-6	Duplicate	NA
4-Nitroaniline	SW 846 8270	72KI-6	Duplicate	NA
4,6-Dinitro-2-methylphenol	SW 846 8270	72KI-6	Duplicate	NA
n-Nitrosodiphenylamine	SW 846 8270	72KI-6	Duplicate	NA
4-Bromophenyl phenyl ether	SW 846 8270	72KI-6	Duplicate	NA
Hexachlorobenzene	SW 846 8270	72KI-6	Duplicate	NA
Pentachlorophenol	SW 846 8270	72KI-6	Duplicate	NA
Phenanthrene	SW 846 8270	72KI-6	Duplicate	NA
Anthracene	SW 846 8270	72KI-6	Duplicate	NA
Carbazole	SW 846 8270	72KI-6	Duplicate	NA
di-n-Butylphthalate	SW 846 8270	72KI-6	Duplicate	NA
Fluoranthene	SW 846 8270	72KI-6	Duplicate	NA
Pyrene	SW 846 8270	72KI-6	Duplicate	NA
Butyl benzyl phthalate	SW 846 8270	72KI-6	Duplicate	NA
3,3'-Dichlorobenzidine	SW 846 8270	72KI-6	Duplicate	NA
Benzo(a)anthracene	SW 846 8270	72KI-6	Duplicate	NA
Chrysene	SW 846 8270	72KI-6	Duplicate	NA
bis(2ethylhexyl)phthalate	SW 846 8270	72KI-6	Duplicate	NA
di-n-Octylphthalate	SW 846 8270	72KI-6	Duplicate	NA
Benzo(b)fluoranthene	SW 846 8270	72KI-6	Duplicate	NA
Benzo(k)fluoranthene	SW 846 8270	72KI-6	Duplicate	NA
Benzo(a)pyrene	SW 846 8270	72KI-6	Duplicate	NA
Indeno(1,2,3-cd)pyrene	SW 846 8270	72KI-6	Duplicate	NA
Dibenzo(a,h)anthracene	SW 846 8270	72KI-6	Duplicate	NA
Benzo(g,h,i)perylene	SW 846 8270	72KI-6	Duplicate	NA

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

Advanced Environmental Services, Inc.

Sample Traceability Report

Project Identification

CTC TAKI

[illegible]

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

Advanced Environmental Services, Inc
Sample Traceability Report

Project Identification

CTC 72KI

[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.

Advanced Environmental Services, Inc.
Sample Traceability Report

Project Identification

CTC 72KI

[illegible]

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

ADVANCED
ENVIRONMENTAL SERVICES, INC.

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

SAMPLER'S SIGNATURE: *[Signature]*

JOB CODE: CTC

TOTAL NUMBER OF CONTAINERS 41

1. RELINQUISHED BY:

DATE _____

TIME

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

1. RELINQUISHED BY: 	DATE 9-3-97	TIME 3 ⁴⁵ PM	RECEIVED BY: 
2. RELINQUISHED BY: 	DATE	TIME	RECEIVED BY: 
3. RELINQUISHED BY: 	DATE	TIME	RECEIVED BY: 

ADVANCED
ENVIRONMENTAL SERVICES, INC.

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

SAMPLER'S SIGNATURE: Scott Clark

JOB CODE: CTS

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 9-5-97	TIME 1:45 PM	RECEIVED BY: 
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY: