M.M.I.-1054
32N05 6W56

UCAR CARBON COMPANY INC. P.O. BOX 513, COLUMBIA, TENNESSEE 38402-0513

October 26, 1992

Mr. Robert J. Mitrey
Associate Sanitary Engineer
New York State Department of Environmental Conservation
600 Delaware Street
Buffalo, N. Y. 14202-1073

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

Dear Mr. Mitrey:

I am enclosing a copy of the seventeenth quarter's groundwater sampling analysis from the closed Republic Solid 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 following will summarize the positive organic parameters:

CONTAMINATE	17th Qtr. ppb	Mean Conc. ppb	Range ppb
Chloroform	10.5	8.3	6 - 11.4
Trichloroethene	379	334	30 - 740
Vinyl Chloride	68.1	87.6	29 - 300
Tetrachloroethene	312	287	72 - 380
Trans - 1,2 Dichloroethene	442	298.9	5.6 - 466
Hexachlorobotadiene	48	54	10 - 150

UCAR Carbon Company continues to maintain the opinion that this contamination at well, BW-4-86 is not related to the closed Republic Solid Waste Management Facility particularly since the downgradient bedrock well, BW-6, continues to show no contamination.

If you have any further questions or concerns about this data, please contact me at 615-380-4215.

Very truly yours,

R. A. Bolton

R. A. Bolton, Manager
HS & EP

MEMO to Robert J. Mitrey
October 26, 1992

cc: Mr. Jim Devold, Sr. Public Health Engineer
Niagara County Health Department
P. O. Box 428
Niagara Falls, N. Y. 14302-0428

Mr. Dave O'Tool
New York Department of Environmental Conservation
50 Wolf Road
Albany, N. Y. 12233

Mr. A. C. Ogg

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OCT 30 1992

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UCAR CARBON COMPANY, INC.

QUARTERLY REPUBLIC WASTE MANAGEMENT FACILITY
POST CLOSURE MONITORING PROGRAM

Prepared By:

ADVANCED
ENVIRONMENTAL SERVICES INC.

"A Company Dedicated to Honesty, Quality and Service"

October 9, 1992
Ref. # CTC20ne

QA/QC Verification

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.

Denise R. Tyhovak
Organics Supervisor

Linda A. Ratka
Inorganic Senior Technician

Paul T. McMahon
Quality Control Officer

Thomas J. Mulligan
Project Manager

All "Total" results on soil matrices are calculated on a dry weight basis, unless otherwise noted.

The following are standard abbreviations:

BQL - Below Quantifiable Limits
ND - None Detected
NG - No Growth of Colonies
NR - Not Requested

ADVANCED ENVIRONMENTAL SERVICES, INC.

QUARTERLY MONITORING WELL INFORMATION

UCAR Carbon Company, Inc.
Niagara Falls, New York

AES Code: CTC

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	9/10/92	610.72	4	16.11	594.61	28.60	8.15	25.0	C
BW-2	9/14/92	608.43	4	14.20	594.23	26.10	7.77	24.0	C
BW-3	9/11/92	604.72	4	12.03	592.69	24.70	8.27	25.0	C
BW-4	9/11/92	607.08	4	11.68	595.40	22.50	7.06	22.0	C
BW-5	9/9/92	603.33	4	10.04	593.29	25.70	10.22	31.0	C
BW-6	9/10/92	607.04	4	14.93	592.11	24.65	6.35	19.0	R
MW-1	9/9/92	609.43	2	11.63	597.80	21.10	1.55	2.0(DRY)	S
MW-2	9/9/92	607.54	2	24.05	583.49	24.40	0.06	.06(DRY)	VS
*MW-3	9/9/92	601.61	2	8.41	593.20	16.20	1.27	3.0(DRY)	S
OW-1 SOUTH	9/14/92	608.81	2	7.33	608.81	36.05	4.69	NR	N/A
OW-2 NORTH	9/14/92	607.06	2	7.65	607.06	35.90	4.61	NR	N/A

*MW-3 was repurged on 9-14-92 and sampled on 9-15-92.

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

Mike Champ — Technician

9-22-92 — Date

ADVANCED ENVIRONMENTAL SERVICES, INC.

QUARTERLY MONITORING FIELD INFORMATION

UCAR Carbon Company, Inc.

Niagara Falls, New York

AES Code: CTC

Monitoring Well I.D.	Date	Sampling Time	Water Level (ft.)	Turbidity (NTU)	Filter Time	Comments
BW-1	9/10/92	2:35 PM	16.12	6.7	4:45 PM	Clear w/orange particuli, no odor.
BW-2	9/14/92	2:45 PM	14.35	192.0	4:30 PM	Cloudy, some solids, no odor
BW-3	9/11/92	3:55 PM	12.05	34.2	4:25 PM	Slightly turbid tan, no odor
BW-4	9/11/92	3:00 PM	12.00	14.6	4:20 PM	Clear with black solids, strong odor
BW-5	9/9/92	4:00 PM	10.04	26.8	4:40 PM	Clear, some solids, no odor
BW-6	9/10/92	3:55 PM	17.77	24.7	4:50 PM	Clear, some black solids, slight odor
MW-1	9/10/92	2:00 PM	16.51	13.1	4:35 PM	Clear, some black solids, no odor
MW-2**	9/10/92	3:00 PM	24.20	WELL	DRY	No sample collected
MW-3	9/15/92	2:30 PM	9.49	13.85	3:30 PM	Clear, no odor
OW-1 South	N/A	N/A	N/A	N/A	N/A	N/A
OW-2 North	N/A	N/A	N/A	N/A	N/A	N/A
Blind Duplicate	9/11/92	3:00 PM	NR	16.4	4:20 PM	Clear, black solids, strong odor
Trip Blank	9/10/92	9:00 AM	N/A	0.8	N/A	Very Clear Deionized Water.

The blind duplicate site was BW-4 and the quality control site was BW-6.

N/A = Not Applicable

**Well MW-2 had insufficient recharge to sample .

Mike Champ — Technician

9-22-92 — Date

LABORATORY REPORT | MW-1

QUARTER: 3rd Quarter
PURGE DATE: 09/09/92
SAMPLE DATE: 09/10/92

SAMPLE NO: 1

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Turbidity	13.1	---		NTU	0.1	EPA 180.1
Ammonia	6.5	---		mg/L	0.02	EPA 350.1
Nitrite	BQL	---		mg/L	0.01	EPA 353.2
Total Kjeldahl Nitrogen	8.0	---		mg/L	0.1	EPA 351.2
Total Iron	3.78	---		mg/L	0.05	EPA 200.7
Soluble Iron	0.12	---		mg/L	0.05	EPA 200.7
Total Potassium	39.7	---		mg/L	1.00	EPA 200.7
Soluble Potassium	39.8	---		mg/L	1.00	EPA 200.7
Total Zinc	0.06	---		mg/L	0.02	EPA 200.7
Soluble Zinc	0.02	---		mg/L	0.02	EPA 200.7

LABORATORY REPORT | MW-3

QUARTER: 3rd Quarter
PURGE DATE: 09/09/92
SAMPLE DATE: 09/15/92

SAMPLE NO: 2

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Turbidity	13.85	---		NTU	0.1	EPA 180.1
Ammonia	0.02	---		mg/L	0.02	EPA 350.1
Nitrite	0.01	---		mg/L	0.01	EPA 353.2
Total Kjeldahl Nitrogen	0.2	---		mg/L	0.1	EPA 351.2
Total Iron	2.21	---		mg/L	0.05	EPA 200.7
Soluble Iron	0.08	---		mg/L	0.05	EPA 200.7
Total Potassium	2.22	---		mg/L	1.00	EPA 200.7
Soluble Potassium	1.86	---		mg/L	1.00	EPA 200.7
Total Zinc	0.03	---		mg/L	0.02	EPA 200.7
Soluble Zinc	0.03	---		mg/L	0.02	EPA 200.7

LABORATORY REPORT | BW-1

QUARTER: 3rd Quarter
PURGE DATE: 09/10/92
SAMPLE DATE: 09/10/92

SAMPLE NO: 3

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Turbidity	6.7	---		NTU	0.1	EPA 180.1
Ammonia	0.14	---		mg/L	0.02	EPA 350.1
Nitrite	BQL	---		mg/L	0.01	EPA 353.2
Total Kjeldahl Nitrogen	0.4	---		mg/L	0.1	EPA 351.2
Total Iron	1.78	---		mg/L	0.05	EPA 200.7
Soluble Iron	1.14	---		mg/L	0.05	EPA 200.7
Total Potassium	3.70	---		mg/L	1.00	EPA 200.7
Soluble Potassium	4.18	---		mg/L	1.00	EPA 200.7
Total Zinc	0.97	---		mg/L	0.02	EPA 200.7
Soluble Zinc	0.35	---		mg/L	0.02	EPA 200.7

LABORATORY REPORT | BW-2

QUARTER: 3rd Quarter
PURGE DATE: 09/14/92
SAMPLE DATE: 09/14/92

SAMPLE NO: 4

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Turbidity	192.0	---		NTU	0.1	EPA 180.1
Ammonia	1.30	---		mg/L	0.02	EPA 350.1
Nitrite	BQL	---		mg/L	0.01	EPA 353.2
Total Kjeldahl Nitrogen	1.8	---		mg/L	0.1	EPA 351.2
Total Iron	10.0	---		mg/L	0.05	EPA 200.7
Soluble Iron	2.39	---		mg/L	0.05	EPA 200.7
Total Potassium	8.43	---		mg/L	1.00	EPA 200.7
Soluble Potassium	8.31	---		mg/L	1.00	EPA 200.7
Total Zinc	24.8	---		mg/L	0.02	EPA 200.7
Soluble Zinc	BQL	---		mg/L	0.02	EPA 200.7

LABORATORY REPORT | BW-3

QUARTER: 3rd Quarter
PURGE DATE: 09/11/92
SAMPLE DATE: 09/11/92

SAMPLE NO: 5

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Turbidity	34.2	---		NTU	0.1	EPA 180.1
Ammonia	0.75	---		mg/L	0.02	EPA 350.1
Nitrite	BQL	---		mg/L	0.01	EPA 353.2
Total Kjeldahl Nitrogen	1.8	---		mg/L	0.1	EPA 351.2
Total Iron	9.68	---		mg/L	0.05	EPA 200.7
Soluble Iron	1.02	---		mg/L	0.05	EPA 200.7
Total Potassium	7.42	---		mg/L	1.00	EPA 200.7
Soluble Potassium	7.26	---		mg/L	1.00	EPA 200.7
Total Zinc	1.02	---		mg/L	0.02	EPA 200.7
Soluble Zinc	0.32	---		mg/L	0.02	EPA 200.7

LABORATORY REPORT | BW-4

QUARTER: 3rd Quarter
PURGE DATE: 09/11/92
SAMPLE DATE: 09/11/92

SAMPLE NO: 6

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Turbidity	14.6	---		NTU	0.1	EPA 180.1
Ammonia	6.0	---		mg/L	0.02	EPA 350.1
Nitrite	0.02	---		mg/L	0.01	EPA 353.2
Total Kjeldahl Nitrogen	7.5	---		mg/L	0.1	EPA 351.2
Total Iron	18.6	---		mg/L	0.05	EPA 200.7
Soluble Iron	2.43	---		mg/L	0.05	EPA 200.7
Total Potassium	27.9	---		mg/L	1.00	EPA 200.7
Soluble Potassium	26.1	---		mg/L	1.00	EPA 200.7
Total Zinc	2.66	---		mg/L	0.02	EPA 200.7
Soluble Zinc	0.03	---		mg/L	0.02	EPA 200.7
Chloromethane	BQL	---		µg/l	10.0	SW 846 8240
1,1-Dichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Vinyl acetate	BQL	---		µg/l	10.0	SW 846 8240
2-Butanone	BQL	---		µg/l	10.0	SW 846 8240

LABORATORY REPORT | BW-4

QUARTER: 3rd Quarter
PURGE DATE: 09/11/92
SAMPLE DATE: 09/11/92

SAMPLE NO: 6

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Chloroform	10.5	---		µg/l	10.0	SW 846 8240
1,1,1-Trichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Carbon tetrachloride	BQL	---		µg/l	10.0	SW 846 8240
Benzene	BQL	---		µg/l	10.0	SW 846 8240
1,2-Dichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Trichloroethene	379	---		µg/l	10.0	SW 846 8240
1,2-Dichloropropane	BQL	---		µg/l	10.0	SW 846 8240
Vinyl chloride	68.1	---		µg/l	10.0	SW 846 8240
Bromodichloromethane	BQL	---		µg/l	10.0	SW 846 8240
4-Methyl-2-pentanone	BQL	---		µg/l	10.0	SW 846 8240
cis-1,3-Dichloropropene	BQL	---		µg/l	10.0	SW 846 8240
Toluene	BQL	---		µg/l	10.0	SW 846 8240
trans-1,3-Dichloropropene	BQL	---		µg/l	10.0	SW 846 8240
1,1,2-Trichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Tetrachloroethene	312	---		µg/l	10.0	SW 846 8240
Chlorodibromomethane	BQL	---		µg/l	10.0	SW 846 8240

LABORATORY REPORT | BW-4

QUARTER: 3rd Quarter
PURGE DATE: 09/11/92
SAMPLE DATE: 09/11/92

SAMPLE NO: 6

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Chlorobenzene	BQL	---		µg/l	10.0	SW 846 8240
Chloroethane	BQL	---		µg/l	10.0	SW 846 8240
Ethylbenzene	BQL	---		µg/l	10.0	SW 846 8240
Bromoform	BQL	---		µg/l	10.0	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	---		µg/l	10.0	SW 846 8240
2-Hexanone	BQL	---		µg/l	20.0	SW 846 8240
m/p-Xylene	BQL	---		µg/l	10.0	SW 846 8240
o-Xylene	BQL	---		µg/l	10.0	SW 846 8240
Styrene	BQL	---		µg/l	10.0	SW 846 8240
Bromomethane	BQL	---		µg/l	10.0	SW 846 8240
Acetone	BQL	---		µg/l	20.0	SW 846 8240
1,1-Dichloroethene	BQL	---		µg/l	10.0	SW 846 8240
Carbon disulfide	BQL	---		µg/l	10.0	SW 846 8240
Methylene chloride	BQL	---		µg/l	10.0	SW 846 8240
✓ trans-1,2-Dichloroethene	442	---		µg/l	10.0	SW 846 8240
Nitrobenzene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BW-4

QUARTER: 3rd Quarter
PURGE DATE: 09/11/92
SAMPLE DATE: 09/11/92

SAMPLE NO: 6

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Isophorone	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroethoxy) methane	BQL	---		µg/l	10.0	SW 846 8270
1,2,4-Trichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Naphthalene	BQL	---		µg/l	10.0	SW 846 8270
4-Chloroaniline	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorobutadiene	48	---		µg/l	10.0	SW 846 8270
2-Methylnaphthalene	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorocyclopentadiene	BQL	---		µg/l	10.0	SW 846 8270
2-Chloronaphthalene	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroethyl) ether	BQL	---		µg/l	10.0	SW 846 8270
2-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
Dimethylphthalate	BQL	---		µg/l	10.0	SW 846 8270
2,6-Dinitrotoluene	BQL	---		µg/l	10.0	SW 846 8270
Acenaphthylene	BQL	---		µg/l	10.0	SW 846 8270
3-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
Acenaphthene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BW-4

QUARTER: 3rd Quarter
PURGE DATE: 09/11/92
SAMPLE DATE: 09/11/92

SAMPLE NO: 6

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Dibenzofuran	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dinitrotoluene	BQL	---		µg/l	10.0	SW 846 8270
Diethylphthalate	BQL	---		µg/l	10.0	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	---		µg/l	10.0	SW 846 8270
1,3-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Fluorene	BQL	---		µg/l	10.0	SW 846 8270
4-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
N-Nitrosodiphenylamine	BQL	---		µg/l	10.0	SW 846 8270
4-Bromophenyl phenyl ether	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Phenanthracene	BQL	---		µg/l	10.0	SW 846 8270
Anthracene	BQL	---		µg/l	10.0	SW 846 8270
Di-n-butylphthalate	BQL	---		µg/l	10.0	SW 846 8270
Fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
1,4-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Pyrene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BW-4

QUARTER: 3rd Quarter
PURGE DATE: 09/11/92
SAMPLE DATE: 09/11/92

SAMPLE NO: 6

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Butyl benzyl phthalate	BQL	---		µg/l	10.0	SW 846 8270
3,3-Dichlorobenzidine	BQL	---		µg/l	10.0	SW 846 8270
Benzo (a) anthracene	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-ethylhexyl) phthalate	BQL	---		µg/l	10.0	SW 846 8270
Chyrsene	BQL	---		µg/l	10.0	SW 846 8270
Di-n-octylphthalate	BQL	---		µg/l	10.0	SW 846 8270
Benzo (b) fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (k) fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (a) pyrene	BQL	---		µg/l	10.0	SW 846 8270
Benzyl alcohol	BQL	---		µg/l	10.0	SW 846 8270
Indeno (1,2,3-cd)pyrene	BQL	---		µg/l	10.0	SW 846 8270
Dibenz (a,h) anthracene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (g,h,i) perylene	BQL	---		µg/l	10.0	SW 846 8270
Phenol	BQL	---		µg/l	10.0	SW 846 8270
2-Methylphenol	BQL	---		µg/l	10.0	SW 846 8270
4-Methylphenol	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BW-4

QUARTER: 3rd Quarter
PURGE DATE: 09/11/92
SAMPLE DATE: 09/11/92

SAMPLE NO: 6

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
2-Nitrophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dimethylphenol	BQL	---		µg/l	10.0	SW 846 8270
Benzoic acid	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
1,2-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
2-Chlorophenol	BQL	---		µg/l	10.0	SW 846 8270
4-Chloro-3-methylphenol	BQL	---		µg/l	10.0	SW 846 8270
2,4,6-Trichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4,5-Trichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dinitrophenol	BQL	---		µg/l	10.0	SW 846 8270
4-Nitrophenol	BQL	---		µg/l	10.0	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	---		µg/l	10.0	SW 846 8270
Pentachlorophenol	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroisopropyl) ether	BQL	---		µg/l	10.0	SW 846 8270
N-Nitrosodi-n-propylamine	BQL	---		µg/l	10.0	SW 846 8270
Hexachloroethane	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BW-6

QUARTER: 3rd Quarter
PURGE DATE: 09/10/92
SAMPLE DATE: 09/10/92

SAMPLE NO: 8

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Turbidity	24.7	---		NTU	0.1	EPA 180.1
Ammonia	0.27	---		mg/L	0.02	EPA 350.1
Nitrite	BQL	---		mg/L	0.01	EPA 353.2
Total Kjeldahl Nitrogen	0.5	---		mg/L	0.1	EPA 351.2
Total Iron	13.3	---		mg/L	0.05	EPA 200.7
Soluble Iron	4.93	---		mg/L	0.05	EPA 200.7
Total Potassium	2.56	---		mg/L	1.00	EPA 200.7
Soluble Potassium	2.36	---		mg/L	1.00	EPA 200.7
Total Zinc	BQL	---		mg/L	0.02	EPA 200.7
Soluble Zinc	BQL	---		mg/L	0.02	EPA 200.7
Chloromethane	BQL	---		µg/l	10.0	SW 846 8240
1,1-Dichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Vinyl acetate	BQL	---		µg/l	10.0	SW 846 8240
2-Butanone	BQL	---		µg/l	10.0	SW 846 8240

LABORATORY REPORT | BW-6

QUARTER: 3rd Quarter
PURGE DATE: 09/10/92
SAMPLE DATE: 09/10/92

SAMPLE NO: 8

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Chloroform	BQL	---		µg/l	10.0	SW 846 8240
1,1,1-Trichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Carbon tetrachloride	BQL	---		µg/l	10.0	SW 846 8240
Benzene	BQL	---		µg/l	10.0	SW 846 8240
1,2-Dichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Trichloroethene	BQL	---		µg/l	10.0	SW 846 8240
1,2-Dichloropropane	BQL	---		µg/l	10.0	SW 846 8240
Vinyl chloride	BQL	---		µg/l	10.0	SW 846 8240
Bromodichloromethane	BQL	---		µg/l	10.0	SW 846 8240
4-Methyl-2-pentanone	BQL	---		µg/l	10.0	SW 846 8240
cis-1,3-Dichloropropene	BQL	---		µg/l	10.0	SW 846 8240
Toluene	BQL	---		µg/l	10.0	SW 846 8240
trans-1,3-Dichloropropene	BQL	---		µg/l	10.0	SW 846 8240
1,1,2-Trichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Tetrachloroethene	BQL	---		µg/l	10.0	SW 846 8240
Chlorodibromomethane	BQL	---		µg/l	10.0	SW 846 8240

LABORATORY REPORT | BW-6

QUARTER: 3rd Quarter
PURGE DATE: 09/10/92
SAMPLE DATE: 09/10/92

SAMPLE NO: 8

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Chlorobenzene	BQL	---		µg/l	10.0	SW 846 8240
Chloroethane	BQL	---		µg/l	10.0	SW 846 8240
Ethylbenzene	BQL	---		µg/l	10.0	SW 846 8240
Bromoform	BQL	---		µg/l	10.0	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	---		µg/l	10.0	SW 846 8240
2-Hexanone	BQL	---		µg/l	20.0	SW 846 8240
m/p-Xylene	BQL	---		µg/l	10.0	SW 846 8240
o-Xylene	BQL	---		µg/l	10.0	SW 846 8240
Styrene	BQL	---		µg/l	10.0	SW 846 8240
Bromomethane	BQL	---		µg/l	10.0	SW 846 8240
Acetone	BQL	---		µg/l	20.0	SW 846 8240
1,1-Dichloroethene	BQL	---		µg/l	10.0	SW 846 8240
Carbon disulfide	BQL	---		µg/l	10.0	SW 846 8240
Methylene chloride	BQL	---		µg/l	10.0	SW 846 8240
trans-1,2-Dichloroethene	BQL	---		µg/l	10.0	SW 846 8240
Nitrobenzene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BW-6

QUARTER: 3rd Quarter
PURGE DATE: 09/10/92
SAMPLE DATE: 09/10/92

SAMPLE NO: 8

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Isophorone	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroethoxy) methane	BQL	---		µg/l	10.0	SW 846 8270
1,2,4-Trichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Naphthalene	BQL	---		µg/l	10.0	SW 846 8270
4-Chloroaniline	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorobutadiene	BQL	---		µg/l	10.0	SW 846 8270
2-Methylnaphthalene	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorocyclopentadiene	BQL	---		µg/l	10.0	SW 846 8270
2-Chloronaphthalene	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroethyl) ether	BQL	---		µg/l	10.0	SW 846 8270
2-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
Dimethylphthalate	BQL	---		µg/l	10.0	SW 846 8270
2,6-Dinitrotoluene	BQL	---		µg/l	10.0	SW 846 8270
Acenaphthylene	BQL	---		µg/l	10.0	SW 846 8270
3-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
Acenaphthene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BW-6

QUARTER: 3rd Quarter
PURGE DATE: 09/10/92
SAMPLE DATE: 09/10/92

SAMPLE NO: 8

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Dibenzofuran	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dinitrotoluene	BQL	---		µg/l	10.0	SW 846 8270
Diethylphthalate	BQL	---		µg/l	10.0	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	---		µg/l	10.0	SW 846 8270
1,3-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Fluorene	BQL	---		µg/l	10.0	SW 846 8270
4-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
N-Nitrosodiphenylamine	BQL	---		µg/l	10.0	SW 846 8270
4-Bromophenyl phenyl ether	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Phenanthracene	BQL	---		µg/l	10.0	SW 846 8270
Anthracene	BQL	---		µg/l	10.0	SW 846 8270
Di-n-butylphthalate	BQL	---		µg/l	10.0	SW 846 8270
Fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
1,4-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Pyrene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BW-6

QUARTER: 3rd Quarter
PURGE DATE: 09/10/92
SAMPLE DATE: 09/10/92

SAMPLE NO: 8

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Butyl benzyl phthalate	BQL	---		µg/l	10.0	SW 846 8270
3,3-Dichlorobenzidine	BQL	---		µg/l	10.0	SW 846 8270
Benzo (a) anthracene	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-ethylhexyl) phthalate	BQL	---		µg/l	10.0	SW 846 8270
Chyrsene	BQL	---		µg/l	10.0	SW 846 8270
Di-n-octylphthalate	BQL	---		µg/l	10.0	SW 846 8270
Benzo (b) fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (k) fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (a) pyrene	BQL	---		µg/l	10.0	SW 846 8270
Benzyl alcohol	BQL	---		µg/l	10.0	SW 846 8270
Indeno (1,2,3-cd)pyrene	BQL	---		µg/l	10.0	SW 846 8270
Dibenz (a,h) anthracene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (g,h,i) perylene	BQL	---		µg/l	10.0	SW 846 8270
Phenol	BQL	---		µg/l	10.0	SW 846 8270
2-Methylphenol	BQL	---		µg/l	10.0	SW 846 8270
4-Methylphenol	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BW-6

QUARTER: 3rd Quarter
PURGE DATE: 09/10/92
SAMPLE DATE: 09/10/92

SAMPLE NO: 8

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
2-Nitrophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dimethylphenol	BQL	---		µg/l	10.0	SW 846 8270
Benzoic acid	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
1,2-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
2-Chlorophenol	BQL	---		µg/l	10.0	SW 846 8270
4-Chloro-3-methylphenol	BQL	---		µg/l	10.0	SW 846 8270
2,4,6-Trichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4,5-Trichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dinitrophenol	BQL	---		µg/l	10.0	SW 846 8270
4-Nitrophenol	BQL	---		µg/l	10.0	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	---		µg/l	10.0	SW 846 8270
Pentachlorophenol	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroisopropyl) ether	BQL	---		µg/l	10.0	SW 846 8270
N-Nitrosodi-n-propylamine	BQL	---		µg/l	10.0	SW 846 8270
Hexachloroethane	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BLIND DUPLICATE (BW-4)

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 9

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Turbidity	16.4	---		NTU	0.1	EPA 180.1
Ammonia	4.5	---		mg/L	0.02	EPA 350.1
Nitrite	0.04	---		mg/L	0.01	EPA 353.2
Total Kjeldahl Nitrogen	7.5	---		mg/L	0.1	EPA 351.2
Total Irlm	5.86	---		mg/L	0.05	EPA 200.7
Soluble Iron	2.64	---		mg/L	0.05	EPA 200.7
Total Potassium	28.3	---		mg/L	1.00	EPA 200.7
Soluble Potassium	27.0	---		mg/L	1.00	EPA 200.7
Total Zinc	1.35	---		mg/L	0.02	EPA 200.7
Soluble Zinc	0.06	---		mg/L	0.02	EPA 200.7
Chloromethane	BQL	---		µg/l	10.0	SW 846 8240
1,1-Dichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Vinyl acetate	BQL	---		µg/l	10.0	SW 846 8240
2-Butanone	BQL	---		µg/l	10.0	SW 846 8240

LABORATORY REPORT | BLIND DUPLICATE (BW-4)

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 9

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Chloroform	10.4	---		µg/l	10.0	SW 846 8240
1,1,1-Trichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Carbon tetrachloride	BQL	---		µg/l	10.0	SW 846 8240
Benzene	BQL	---		µg/l	10.0	SW 846 8240
1,2-Dichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Trichloroethene	385	---		µg/l	10.0	SW 846 8240
1,2-Dichloropropane	BQL	---		µg/l	10.0	SW 846 8240
Vinyl chloride	66.8	---		µg/l	10.0	SW 846 8240
Bromodichloromethane	BQL	---		µg/l	10.0	SW 846 8240
4-Methyl-2-pentanone	BQL	---		µg/l	10.0	SW 846 8240
cis-1,3-Dichloropropene	BQL	---		µg/l	10.0	SW 846 8240
Toluene	BQL	---		µg/l	10.0	SW 846 8240
trans-1,3-Dichloropropene	BQL	---		µg/l	10.0	SW 846 8240
1,1,2-Trichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Tetrachloroethene	283	---		µg/l	10.0	SW 846 8240
Chlorodibromomethane	BQL	---		µg/l	10.0	SW 846 8240

LABORATORY REPORT | BLIND DUPLICATE (BW-4)

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 9

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Chlorobenzene	BQL	---		µg/l	10.0	SW 846 8240
Chloroethane	BQL	---		µg/l	10.0	SW 846 8240
Ethylbenzene	BQL	---		µg/l	10.0	SW 846 8240
Bromoform	BQL	---		µg/l	10.0	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	---		µg/l	10.0	SW 846 8240
2-Hexanone	BQL	---		µg/l	20.0	SW 846 8240
m/p-Xylene	BQL	---		µg/l	10.0	SW 846 8240
o-Xylene	BQL	---		µg/l	10.0	SW 846 8240
Styrene	BQL	---		µg/l	10.0	SW 846 8240
Bromomethane	BQL	---		µg/l	10.0	SW 846 8240
Acetone	BQL	---		µg/l	20.0	SW 846 8240
1,1-Dichloroethene	BQL	---		µg/l	10.0	SW 846 8240
Carbon disulfide	BQL	---		µg/l	10.0	SW 846 8240
Methylene chloride	BQL	---		µg/l	10.0	SW 846 8240
trans-1,2-Dichloroethene	448	---		µg/l	10.0	SW 846 8240
Nitrobenzene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BLIND DUPLICATE (BW-4)

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 9

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Isophorone	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroethoxy) methane	BQL	---		µg/l	10.0	SW 846 8270
1,2,4-Trichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Naphthalene	BQL	---		µg/l	10.0	SW 846 8270
4-Chloroaniline	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorobutadiene	52	---		µg/l	10.0	SW 846 8270
2-Methylnaphthalene	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorocyclopentadiene	BQL	---		µg/l	10.0	SW 846 8270
2-Chloronaphthalene	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroethyl) ether	BQL	---		µg/l	10.0	SW 846 8270
2-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
Dimethylphthalate	BQL	---		µg/l	10.0	SW 846 8270
2,6-Dinitrotoluene	BQL	---		µg/l	10.0	SW 846 8270
Acenaphthylene	BQL	---		µg/l	10.0	SW 846 8270
3-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
Acenaphthene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BLIND DUPLICATE (BW-4)

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 9

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Dibenzofuran	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dinitrotoluene	BQL	---		µg/l	10.0	SW 846 8270
Diethylphthalate	BQL	---		µg/l	10.0	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	---		µg/l	10.0	SW 846 8270
1,3-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Fluorene	BQL	---		µg/l	10.0	SW 846 8270
4-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
N-Nitrosodiphenylamine	BQL	---		µg/l	10.0	SW 846 8270
4-Bromophenyl phenyl ether	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Phenanthracene	BQL	---		µg/l	10.0	SW 846 8270
Anthracene	BQL	---		µg/l	10.0	SW 846 8270
Di-n-butylphthalate	BQL	---		µg/l	10.0	SW 846 8270
Fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
1,4-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Pyrene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BLIND DUPLICATE (BW-4)

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 9

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Butyl benzyl phthalate	BQL	---		µg/l	10.0	SW 846 8270
3,3-Dichlorobenzidine	BQL	---		µg/l	10.0	SW 846 8270
Benzo (a) anthracene	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-ethylhexyl) phthalate	BQL	---		µg/l	10.0	SW 846 8270
Chyrsene	BQL	---		µg/l	10.0	SW 846 8270
Di-n-octylphthalate	BQL	---		µg/l	10.0	SW 846 8270
Benzo (b) fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (k) fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (a) pyrene	BQL	---		µg/l	10.0	SW 846 8270
Benzyl alcohol	BQL	---		µg/l	10.0	SW 846 8270
Indeno (1,2,3-cd)pyrene	BQL	---		µg/l	10.0	SW 846 8270
Dibenz (a,h) anthracene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (g,h,i) perylene	BQL	---		µg/l	10.0	SW 846 8270
Phenol	BQL	---		µg/l	10.0	SW 846 8270
2-Methylphenol	BQL	---		µg/l	10.0	SW 846 8270
4-Methylphenol	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | BLIND DUPLICATE (BW-4)

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 9

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
2-Nitrophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dimethylphenol	BQL	---		µg/l	10.0	SW 846 8270
Benzoic acid	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
1,2-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
2-Chlorophenol	BQL	---		µg/l	10.0	SW 846 8270
4-Chloro-3-methylphenol	BQL	---		µg/l	10.0	SW 846 8270
2,4,6-Trichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4,5-Trichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dinitrophenol	BQL	---		µg/l	10.0	SW 846 8270
4-Nitrophenol	BQL	---		µg/l	10.0	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	---		µg/l	10.0	SW 846 8270
Pentachlorophenol	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroisopropyl) ether	BQL	---		µg/l	10.0	SW 846 8270
N-Nitrosodi-n-propylamine	BQL	---		µg/l	10.0	SW 846 8270
Hexachloroethane	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | TRIP BLANK

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 10

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Total Kjeldahl Nitrogen	BQL	---		mg/L	0.1	EPA 351.2
Total Iron	BQL	---		mg/L	0.05	EPA 200.7
Total Potassium	BQL	---		mg/L	1.00	EPA 200.7
Total Zinc	BQL	---		mg/L	0.02	EPA 200.7
Chloromethane	BQL	---		µg/l	10.0	SW 846 8240
1,1-Dichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Vinyl acetate	BQL	---		µg/l	10.0	SW 846 8240
2-Butanone	BQL	---		µg/l	10.0	SW 846 8240
Chloroform	BQL	---		µg/l	10.0	SW 846 8240
1,1,1-Trichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Carbon tetrachloride	BQL	---		µg/l	10.0	SW 846 8240
Benzene	BQL	---		µg/l	10.0	SW 846 8240
1,2-Dichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Trichloroethene	BQL	---		µg/l	10.0	SW 846 8240

LABORATORY REPORT | TRIP BLANK

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 10

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
1,2-Dichloropropane	BQL	---		µg/l	10.0	SW 846 8240
Vinyl chloride	BQL	---		µg/l	10.0	SW 846 8240
Bromodichloromethane	BQL	---		µg/l	10.0	SW 846 8240
4-Methyl-2-pentanone	BQL	---		µg/l	10.0	SW 846 8240
cis-1,3-Dichloropropene	BQL	---		µg/l	10.0	SW 846 8240
Toluene	BQL	---		µg/l	10.0	SW 846 8240
trans-1,3-Dichloropropene	BQL	---		µg/l	10.0	SW 846 8240
1,1,2-Trichloroethane	BQL	---		µg/l	10.0	SW 846 8240
Tetrachloroethene	BQL	---		µg/l	10.0	SW 846 8240
Chlorodibromomethane	BQL	---		µg/l	10.0	SW 846 8240
Chlorobenzene	BQL	---		µg/l	10.0	SW 846 8240
Chloroethane	BQL	---		µg/l	10.0	SW 846 8240
Ethylbenzene	BQL	---		µg/l	10.0	SW 846 8240
Bromoform	BQL	---		µg/l	10.0	SW 846 8240
1,1,2,2-Tetrachloroethane	BQL	---		µg/l	10.0	SW 846 8240
2-Hexanone	BQL	---		µg/l	20.0	SW 846 8240

LABORATORY REPORT | TRIP BLANK

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 10

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
m/p-Xylene	BQL	---		µg/l	10.0	SW 846 8240
o-Xylene	BQL	---		µg/l	10.0	SW 846 8240
Styrene	BQL	---		µg/l	10.0	SW 846 8240
Bromomethane	BQL	---		µg/l	10.0	SW 846 8240
Acetone	BQL	---		µg/l	20.0	SW 846 8240
1,1-Dichloroethene	BQL	---		µg/l	10.0	SW 846 8240
Carbon disulfide	BQL	---		µg/l	10.0	SW 846 8240
Methylene chloride	BQL	---		µg/l	10.0	SW 846 8240
trans-1,2-Dichloroethene	BQL	---		µg/l	10.0	SW 846 8240
Nitrobenzene	BQL	---		µg/l	10.0	SW 846 8270
Isophorone	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroethoxy) methane	BQL	---		µg/l	10.0	SW 846 8270
1,2,4-Trichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Naphthalene	BQL	---		µg/l	10.0	SW 846 8270
4-Chloroaniline	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorobutadiene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | TRIP BLANK

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 10

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
2-Methylnaphthalene	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorocyclopentadiene	BQL	---		µg/l	10.0	SW 846 8270
2-Chloronaphthalene	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroethyl) ether	BQL	---		µg/l	10.0	SW 846 8270
2-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
Dimethylphthalate	BQL	---		µg/l	10.0	SW 846 8270
2,6-Dinitrotoluene	BQL	---		µg/l	10.0	SW 846 8270
Acenaphthylene	BQL	---		µg/l	10.0	SW 846 8270
3-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
Acenaphthene	BQL	---		µg/l	10.0	SW 846 8270
Dibenzofuran	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dinitrotoluene	BQL	---		µg/l	10.0	SW 846 8270
Diethylphthalate	BQL	---		µg/l	10.0	SW 846 8270
4-Chlorophenyl phenyl ether	BQL	---		µg/l	10.0	SW 846 8270
1,3-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Fluorene	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | TRIP BLANK

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 10

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
4-Nitroaniline	BQL	---		µg/l	10.0	SW 846 8270
N-Nitrosodiphenylamine	BQL	---		µg/l	10.0	SW 846 8270
4-Bromophenyl phenyl ether	BQL	---		µg/l	10.0	SW 846 8270
Hexachlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Phenanthracene	BQL	---		µg/l	10.0	SW 846 8270
Anthracene	BQL	---		µg/l	10.0	SW 846 8270
Di-n-butylphthalate	BQL	---		µg/l	10.0	SW 846 8270
Fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
1,4-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
Pyrene	BQL	---		µg/l	10.0	SW 846 8270
Butyl benzyl phthalate	BQL	---		µg/l	10.0	SW 846 8270
3,3-Dichlorobenzidine	BQL	---		µg/l	10.0	SW 846 8270
Benzo (a) anthracene	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-ethylhexyl) phthalate	BQL	---		µg/l	10.0	SW 846 8270
Chyrsene	BQL	---		µg/l	10.0	SW 846 8270
Di-n-octylphthalate	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | TRIP BLANK

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 10

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
Benzo (b) fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (k) fluoranthene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (a) pyrene	BQL	---		µg/l	10.0	SW 846 8270
Benzyl alcohol	BQL	---		µg/l	10.0	SW 846 8270
Indeno (1,2,3-cd)pyrene	BQL	---		µg/l	10.0	SW 846 8270
Dibenz (a,h) anthracene	BQL	---		µg/l	10.0	SW 846 8270
Benzo (g,h,i) perylene	BQL	---		µg/l	10.0	SW 846 8270
Phenol	BQL	---		µg/l	10.0	SW 846 8270
2-Methylphenol	BQL	---		µg/l	10.0	SW 846 8270
4-Methylphenol	BQL	---		µg/l	10.0	SW 846 8270
2-Nitrophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dimethylphenol	BQL	---		µg/l	10.0	SW 846 8270
Benzoic acid	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
1,2-Dichlorobenzene	BQL	---		µg/l	10.0	SW 846 8270
2-Chlorophenol	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT | TRIP BLANK

QUARTER: 3rd Quarter
PURGE DATE:
SAMPLE DATE: 09/11/92

SAMPLE NO: 10

Analytical Parameters	Analytical Results	D.E.C. Guidance Values	Statistical Triggers	Units	Practical Quantifiable Limit	
4-Chloro-3-methylphenol	BQL	---		µg/l	10.0	SW 846 8270
2,4,6-Trichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4,5-Trichlorophenol	BQL	---		µg/l	10.0	SW 846 8270
2,4-Dinitrophenol	BQL	---		µg/l	10.0	SW 846 8270
4-Nitrophenol	BQL	---		µg/l	10.0	SW 846 8270
4,6-Dinitro-2-methylphenol	BQL	---		µg/l	10.0	SW 846 8270
Pentachlorophenol	BQL	---		µg/l	10.0	SW 846 8270
Bis (2-chloroisopropyl) ether	BQL	---		µg/l	10.0	SW 846 8270
N-Nitrosodi-n-propylamine	BQL	---		µg/l	10.0	SW 846 8270
Hexachloroethane	BQL	---		µg/l	10.0	SW 846 8270

LABORATORY REPORT
QUALITY CONTROL - PRECISION

Client: UCAR CARBON
Type of Analysis: Duplicate

A.E.S. Job Code: CTC
Units: mg/l

Analytical Parameters	Sample No.	Original Concentration	Duplicate Concentration	Average Concentration	Range	Relative % Difference
Nitrite	20ne-8	BQL	BQL	BQL	NA*	NA
Ammonia	20ne-8	0.30	0.24	0.27	0.06	22
Total Kjeldahl Nitrogen	20ne-8	0.5	0.5	0.5	0	0
Total Iron	20ne-8	13.4	13.2	13.3	0.20	1.5
Soluble Iron	20ne-8	4.86	5.00	4.93	0.14	2.8
Total Potassium	20ne-8	2.33	2.80	2.56	0.47	18
Soluble Potassium	20ne-8	2.33	2.39	2.36	0.06	2.5
Total Zinc	20ne-8	BQL	BQL	BQL	NA	NA
Soluble Zinc	20ne-8	BQL	BQL	BQL	NA	NA
All 8270 Compounds (ug/L)	20ne-8	BQL	BQL	BQL	NA	NA
All 8240 Compounds (ug/L)	20ne-8	BQL	BQL	BQL	NA	NA

* Relative Percent Difference = (Range/Average) X 100

FOOTNOTES

* Not Applicable

LABORATORY CONTROL
QUALITY CONTROL - ACCURACY

Client: UCAR CARBON A.E.S. Job Code: CTC
Type of Analysis: Matrix Spike and Independent Standards Units: mg/l

Analytical Parameters	Sample No.	Type	Observed Concentration	Original Concentration	Added Concentration	Percent Recovery*
Nitrate	20ne-8	Matrix Spike	0.28	BQL	0.25	112
Ammonia	20ne-8	Matrix Spike	0.72	0.27	0.50	90
Total Kjeldahl Nitrogen	20ne-8	Matrix Spike	3.2	0.5	3.0	90
Total Iron	20ne-8	Matrix Spike	17.1	13.3	4.00	95
Soluble Iron	20ne-8	Matrix Spike	8.63	4.93	4.00	92
Total Potassium	20ne-8	Matrix Spike	56.0	2.56	50.0	107
Soluble Potassium	20ne-8	Matrix Spike	53.4	2.36	50.0	102
Total Zinc	20ne-8	Matrix Spike	0.48	BQL	0.50	96
Soluble Zinc	20ne-8	Matrix Spike	0.51	BQL	0.50	102
Phenol (ug/L)	20ne-8	Matrix Spike	104	BQL	200	52
2-Chlorophenol (ug/L)	20ne-8	Matrix Spike	137	BQL	200	68
1,4-Dichlorobenzene (ug/L)	20ne-8	Matrix Spike	82.5	BQL	100	82
N-Nitrosodipropylamine (ug/L)	20ne-8	Matrix Spike	123	BQL	100	123
1,2,4-Trichlorobenzene (ug/L)	20ne-8	Matrix Spike	84.2	BQL	100	84
4-Chloro-3-Methylphenol (ug/L)	20ne-8	Matrix Spike	139	BQL	200	70
Acenapthtene (ug/L)	20ne-8	Matrix Spike	71.3	BQL	100	71

* % Recovery = 100 x ((Observed Concentration - "background" Original Concentration) / "Spike" Added Concentration)

* If Added=NONE: % Recovery = 100 x (Observed Concentration / "background" Original Concentration)

LABORATORY CONTROL
QUALITY CONTROL - ACCURACY

Client: UCAR CARBON
Type of Analysis: Matrix Spike and Independent Standards

A.E.S. Job Code: CTC
Units: ug/L

Analytical Parameters	Sample No.	Type	Observed Concentration	Original Concentration	Added Concentration	Percent Recovery*
4-Nitrophenol	20ne-8	Matrix Spike	72.0	BQL	200	36
2,4-Dinitrotoluene	20ne-8	Matrix Spike	88.9	BQL	100	89
Pentachlorophenol	20ne-8	Matrix Spike	243	BQL	200	121
Pyrene	20ne-8	Matrix Spike	86.4	BQL	100	86
1,1-Dichloroethene	20ne-8	Matrix Spike	55.3	BQL	50.0	111
Trichloroethene	20ne-8	Matrix Spike	48.4	BQL	50.0	97
Benzene	20ne-8	Matrix Spike	52.4	BQL	50.0	105
Toluene	20ne-8	Matrix Spike	53.1	BQL	50.0	106
Chlorobenzene	20ne-8	Matrix Spike	57.9	BQL	50.0	116

* % Recovery = 100 x ((Observed Concentration - "background" Original Concentration) / Added Spike Concentration)

If Added=NONE: % Recovery = 100 x (Observed Concentration / "background" Original Concentration)

Advanced Environmental Services

Sample Traceability Report

Inorganics Analysis

AES Job Code UTI

AES Job No. [illegible]

		Sample Prep			Analysis		
AES Sample No.	Sample Date	Method Number	Date	Analyst	Method Number	Date	Analyst
Zone-1 to 10	9/10, 11, 14, 15/92	9.3	9/17/92	KAS	200.7	9/18 & 21/92	CLP

Advanced Environmental Services

Sample Traceability Report

Organics Analysis

AES Job Code [illegible]

AES Job No. 20NE

		Sample Prep			Analysis		
AES Sample No.	Sample Date	Method Number	Date	Analyst	Method Number	Date	Analyst
20NE-6	9-11-92	3510 (8270)	9-16-92	MM	8270	9/21/92	JF
20NE-8	9-10-92	↓	↓	↓	↓	↓	↓
20NE-9	9-11-92	↓	↓	↓	↓	↓	↓
20NE-10	9-11-92	↓	↓	↓	↓	↓	↓
20NE-6	9/11/92	—	—	—	8240	9/18/92	KR
20NE-8					↓	9/17/92	↓
20NE-9					↓	9/17/92	↓
20NE-10					↓	9/17/92	↓

Advanced Environmental Services

Sample Traceability Report

Inorganics Analysis

AES Job Code CTL

AES Job No. 20NE

		Sample Prep			Analysis		
AES Sample No.	Sample Date	Method Number	Date	Analyst	Method Number	Date	Analyst
20ne1-9	9/10,11,14,15/92				353.2	9-21-92	TS/DTR
20ne1-9	9/10,11,14,15/92				350.1	9-22-92	T.S.
20ne(1-9),10	9/10,11,14,15/92				351.2	9-23-92	T.S.

ADVANCED ENVIRONMENTAL SERVICES, INC.

2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304 • (716) 283-3120

CHAIN OF CUSTODY RECORD

PROJECT NAME: UCAR CARBON

SAMPLER'S SIGNATURE: [signature]

JOB CODE: CTC

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: —

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO_3	H_2SO_4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
9/15/92	2:30Pm	MW-3	X		GROUNDWATER		2	1					3	TOTAL & SOL METALS, TKN, AMMO, NITE

TOTAL NUMBER OF CONTAINERS 3

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

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: [signature]	9/15/92	3:50 Pm	[signature]
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304 • (716) 283-3120

CHAIN OF CUSTODY RECORD

PROJECT NAME: UCAR Carbon

SAMPLER'S SIGNATURE: Mike Champ

JOB CODE: CTC

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: _____

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO₃	H₂SO₄	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
9-9-92	4⁰⁰ Pm	BW-5	✓		Groundwater		2	1					3	Tot & Sol Metals, TKN, Ammo., N/ITE

TOTAL NUMBER OF CONTAINERS (3)

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

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: Mike Champ	9-9-92	4⁵⁰ Pm	Wendy M. Herbst
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304 • (716) 283-3120

CHAIN OF CUSTODY RECORD

PROJECT NAME: UCAR CARBON

SAMPLER'S SIGNATURE:

JOB CODE: CTC

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: BW-4

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO3	H2SO4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
9/11/92	3:55 PM	BW-3			GROUNDWATER		2	1					3	TOC, SOA METAL, TKN, AMMO, W/LITE
	—	TRIP BLANK			D.I. WATER	1	1	1			2		5	TOTAL ~~SOA~~ METAL, TKN, AMMO, W/LITE, TCA SU, TCA V
	3:00 PM	BW-4			GROUNDWATER	1	2	1			2		6	TOTAL SOA METAL, TKN, AMMO,
	3:00 PM	BLIND DUP				1	2	1			2		6	W/LITE, TCA SU, TCA V

TOTAL NUMBER OF CONTAINERS: 20

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

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY:	9/11/92	4:50 PM	
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:

CHAIN OF CUSTODY RECORD

2 one

ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304 • (716) 283-3120

PROJECT NAME: VCAR Carbon

SAMPLER'S SIGNATURE: Mike Clamp

JOB CODE: CTC

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: —

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	CONTAINER CLASSIFICATION: UNPRESERVED	HNO₃	H₂SO₄	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
9-10-92	2 00 Pm	MW-1	✓		Groundwater		2	1					3	Tot & Sol. Metals, TKN, Ammo., N/ITE
1	2 35 Pm	BW-1	✓		1		2	1					3	" " " " " "
1	3 55 Pm	BW-6 (QC)	✓		1	3	2	2			2		9	Tot. & Sol Metals, TKN, Ammo., N/ITE Volatiles, Semi-Volatiles

TOTAL NUMBER OF CONTAINERS: 15

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

	DATE	TIME	RECEIVED BY:
1. RELINQUISHED BY: Mike Clamp	9-10-92	5 00 Pm	Wendy Herbst
2. RELINQUISHED BY:			
3. RELINQUISHED BY:			

ADVANCED
ENVIRONMENTAL SERVICES, INC.
2186 LIBERTY DRIVE
NIAGARA FALLS, NY 14304 • (716) 283-3120

CHAIN OF CUSTODY RECORD

PROJECT NAME: UCAR CARBON

JOB CODE: CTC

SAMPLER'S SIGNATURE: [signature]

IDENTIFICATION OF BLIND FIELD DUPLICATE SITE: ______

DATE	TIME	SAMPLE IDENTIFICATION	GRAB	COMP	SAMPLE TYPE	UNPRESERVED	HNO_3	H_2SO_4	HCL	NAOH	VIAL (PRES.)	VIAL (UNPRES.)	TOTAL	PARAMETERS/REMARKS
9/14/92	2:45 Pm	BW-2	X		WATER		2	1					3	TOTAL & SOL METALS
														N/ITE, Ammo, TKN

CONTAINER CLASSIFICATION

TOTAL NUMBER OF CONTAINERS: 3

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

RELINQUISHED BY	DATE	TIME	RECEIVED BY
1. RELINQUISHED BY: [signature]	9/14/92	4:55 Pm	RECEIVED BY: [signature]
2. RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
3. RELINQUISHED BY:	DATE	TIME	RECEIVED BY: