



UCAR CARBON COMPANY INC.

32NO3 6060
10/29/01
J. Bucci
P.O. Box 887, Niagara Falls, New York 14302-0887

October 29, 2001

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

SUBJECT: UCAR Republic Landfill #32NO3

Dear Mr. Hans,

Please find enclosed a copy of the sampling results that were sent to Mary E. McIntosh, Engineering Geologist II of the New York State Department of Environmental Conservation Region 9 Office.

If you have any questions please feel free to call me at 278-3486.

Very truly yours,

Robert Bucci
Site Manager

R. Bucci

nm

enc.

cc: Mr. Jim Devald, Dir. of Environmental Health
Niagara County Health Department
Environmental Division
5467 Upper Mountain Road
Lockport, New York 14094-1899



UCAR CARBON COMPANY INC.

P.O. Box 887, Niagara Falls, New York 14302-0887

October 29, 2001

Ms. Mary F. McIntosh
Engineering Geologist II
NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
270 Michigan Avenue
Buffalo, NY 14203-2999

Dear Ms. McIntosh:

SUBJECT: Semi-Annual Monitoring Event
UCAR Republic SWMF #32N03

The annual monitoring event for the above-referenced Site was conducted March 19 and 20, 2001. The sample collection and analyses were performed in accordance with the program outlined in the letters from M. McIntosh (New York State Department of Environmental Conservation) to R. Bucci (UCAR), dated January 18, 2000 and February 23, 2000. A sample collection and analysis summary is presented in Table 1, water level elevations measured at the time of sampling are presented in Table 2, and an analytical data summary is presented in Table 3. The analytical laboratory report for this sampling event is enclosed. The data obtained from this monitoring event are consistent with previous data.

The next Post-Closure Monitoring Program event will be conducted in March 2002.

Should you have any questions or require additional information, please do not hesitate to contact the undersigned.

Very truly yours,

A handwritten signature in black ink, appearing to read "Robert Bucci", is written over a horizontal line.

Robert Bucci
Site Manager

R. Bucci
encl.

cc: M. Hans, M. Hinton

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
UCAR REPUBLIC SWMF #32N03

Well No.	Sample Collection Date	One Well Volume (Gallons)	No. of Volumes Purged	Volume Purged (Gallons)	Analytical Parameters				
					Turbidity (NTUs)	VOCs	Total Metals	Dissolved Metals	General Parameters
BW-1	09/05/01	8.2	4	37	5	x	x		x
GW-9B	09/05/01	5.9	3	18	25		x		x
GW-8B	09/05/01	6.4	1	6.4	38	x	x		x
BW-5	09/05/01	6.1	5	31	0		x		x
MW-2	09/05/01	0.7	1	0.7	8.9		x		x
MW-3	09/05/01	0.1	4	0.4	16		x		x
BW-2	09/05/01	9.6	4	43	7		x		x
BW-4	09/05/01	4.7	5	24	10	x	x		x
BW-3	09/06/01	5.1	3	17	10	x	x		x
BW-6	09/05/01	10.7	4	46	190	x	x	x	x
MW-1	09/06/01	2.0	1	2	NM		x		x

Notes:

NTUs Nephelometric Turbidity Units.
VOCs Volatile Organic Compounds.

TABLE 2
SUMMARY OF WATER LEVEL ELEVATIONS
UCAR REPUBLIC SWMU #32N03
SEPTEMBER 2001

<i>Well No.</i>	<i>TOC Elevation (ft. AMSL)</i>	<i>Depth to Water (ft. BTOC)</i>	<i>Water Level Elevation (ft. AMSL)</i>
MW-1	612.00	8.90	603.10
MW-2	608.17	23.54	584.63
MW-3	601.89	14.39	587.50
BW-1	610.72	16.95	593.77
BW-2	608.43	15.45	592.98
BW-3	604.72	15.00	589.72
BW-4	607.08	14.82	592.26
BW-5	603.33	12.36	590.97
BW-6	607.04	13.55	593.49
GW-8B	603.90	12.28	591.62
GW-9B	603.40	15.76	587.64

Notes:

AMSL Above Mean Sea Level.

BTOC Below Top of Casing.

TOC Total Organic Carbon.

Wells GW-8B and BW-6 redeveloped prior to monitoring.

TABLE 3

**ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR REPUBLIC SWMF #32N03
SEPTEMBER 2001**

	Sample ID:	GW-5513-DJT-001	GW-5513-JEP-002	GW-5513-JEP-003	GW-5513-DJT-004	GW-5513-DJT-005	GW-5513-DJT-006
	Location ID:	MW-3	BW-4	BW-2	BW-6	GW-9B	GW-8B
	Collection Date:	09/05/01	09/05/01	09/05/01	09/05/01	09/05/01	09/05/01
Parameters	Units						
TCL Volatiles							
Acetone	µg/L	-	100 U	-	20 U	-	20 U
Benzene	µg/L	-	25 U	-	5.0 U	-	5.0 U
Bromodichloromethane	µg/L	-	25 U	-	5.0 U	-	5.0 U
Bromoform	µg/L	-	25 U	-	5.0 U	-	5.0 U
Bromomethane	µg/L	-	25 U	-	5.0 U	-	5.0 U
2-Butanone	µg/L	-	50 U	-	10 U	-	10 U
Carbon disulfide	µg/L	-	50 U	-	10 U	-	10 U
Carbon tetrachloride	µg/L	-	25 U	-	5.0 U	-	5.0 U
Chlorobenzene	µg/L	-	25 U	-	5.0 U	-	5.0 U
Chloroethane	µg/L	-	25 U	-	5.0 U	-	5.0 U
Chloroform	µg/L	-	25 U	-	5.0 U	-	5.0 U
Chloromethane	µg/L	-	25 U	-	5.0 U	-	5.0 U
Dibromochloromethane	µg/L	-	25 U	-	5.0 U	-	5.0 U
1,1-Dichloroethane	µg/L	-	25 U	-	5.0 U	-	5.0 U
1,2-Dichloroethane	µg/L	-	25 U	-	5.0 U	-	5.0 U
1,1-Dichloroethene	µg/L	-	25 U	-	5.0 U	-	5.0 U
cis-1,2-Dichloroethene	µg/L	-	270	-	5.0 U	-	23
trans-1,2-Dichloroethene	µg/L	-	25 U	-	5.0 U	-	5.0 U
1,2-Dichloropropane	µg/L	-	25 U	-	5.0 U	-	5.0 U
cis-1,3-Dichloropropene	µg/L	-	25 U	-	5.0 U	-	5.0 U
trans-1,3-Dichloropropene	µg/L	-	25 U	-	5.0 U	-	5.0 U
Ethyl benzene	µg/L	-	25 U	-	5.0 U	-	5.0 U
2-Hexanone	µg/L	-	50 U	-	10 U	-	10 U
Methylene chloride	µg/L	-	25 U	-	5.0 U	-	5.0 U
4-Methyl-2-pentanone	µg/L	-	50 U	-	10 U	-	10 U
Styrene	µg/L	-	25 U	-	5.0 U	-	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	-	25 U	-	5.0 U	-	5.0 U
Tetrachloroethene	µg/L	-	240	-	5.0 U	-	5.0 U
1,1,1-Trichloroethane	µg/L	-	25 U	-	5.0 U	-	5.0 U
1,1,2-Trichloroethane	µg/L	-	25 U	-	5.0 U	-	5.0 U
Toluene	µg/L	-	25 U	-	5.0 U	-	5.0 U
Trichloroethene	µg/L	-	410	-	5.0 U	-	7.5
Vinyl chloride	µg/L	-	74	-	5.0 U	-	5.0 U
o-Xylenes	µg/L	-	25 U	-	5.0 U	-	5.0 U

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SEMI-ANNUAL GROUNDWATER MONITORING
UCAR REPUBLIC SWMF #32N03
SEPTEMBER 2001

	<i>Sample ID:</i>	GW-5513-DJT-001	GW-5513-JEP-002	GW-5513-JEP-003	GW-5513-DJT-004	GW-5513-DJT-005	GW-5513-DJT-006
	<i>Location ID:</i>	MW-3	BW-4	BW-2	BW-6	GW-9B	GW-8B
	<i>Collection Date:</i>	09/05/01	09/05/01	09/05/01	09/05/01	09/05/01	09/05/01
<i>Parameters</i>	<i>Units</i>						
m/p-Xylenes	µg/L	-	25 U	-	5.0 U	-	5.0 U

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ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR REPUBLIC SWMF #32N03
SEPTEMBER 2001

		<i>Sample ID:</i>	<i>GW-5513-DJT-001</i>	<i>GW-5513-JEP-002</i>	<i>GW-5513-JEP-003</i>	<i>GW-5513-DJT-004</i>	<i>GW-5513-DJT-005</i>	<i>GW-5513-DJT-006</i>
		<i>Location ID:</i>	<i>MW-3</i>	<i>BW-4</i>	<i>BW-2</i>	<i>BW-6</i>	<i>GW-9B</i>	<i>GW-8B</i>
		<i>Collection Date:</i>	<i>09/05/01</i>	<i>09/05/01</i>	<i>09/05/01</i>	<i>09/05/01</i>	<i>09/05/01</i>	<i>09/05/01</i>
<i>Parameters</i>	<i>Units</i>							
<i>Metals</i>								
Iron (total)	mg/L	3.88	6.96	3.00	8.93	0.217	0.261	
Iron (dissolved)	mg/L	-	-	-	2.37	-	-	
Potassium (total)	mg/L	2.04	22.7	6.57	2.47	4.34	6.67	
Potassium (dissolved)	mg/L	-	-	-	2.00 U	-	-	
Zinc (total)	mg/L	0.0200 U	0.187	0.596	0.399	0.0200 U	1.11	
Zinc (dissolved)	mg/L	-	-	-	0.0200 U	-	-	
<i>General Chemistry</i>								
Ammonia	mg/L	0.0500 UJ	4.64 J	0.330 J	0.0500 UJ	0.458 J	0.0500 UJ	
Nitrite	mg/L	0.0109	0.0221	0.0100 U	0.0100 U	0.0100 U	0.0100 U	
Total Kjeldahl Nitrogen	mg/L	0.279	5.06	1.09	0.371	0.937	0.221	

Notes:

- Not analyzed.

J Estimated.

TCL Target Compound List

U Non-detect at associated value.

TABLE 3

**ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR REPUBLIC SWMF #32N03
SEPTEMBER 2001**

	Sample ID:	GW-5513-DJT-007	GW-5513-DJT-008	GW-5513-DJT-009	GW-5513-DJT-010	GW-5513-DJT-011
	Location ID:	GW-8B	BW-1	BW-5	BW-3	MW-1
	Collection Date:	09/05/01	09/05/01	09/05/01	09/06/01	09/06/01
		(Field Duplicate)				
Parameters	Units					
TCL Volatiles						
Acetone	µg/L	20 U	20 U	-	20 U	-
Benzene	µg/L	5.0 U	5.0 U	-	5.0 U	-
Bromodichloromethane	µg/L	5.0 U	5.0 U	-	5.0 U	-
Bromoform	µg/L	5.0 U	5.0 U	-	5.0 U	-
Bromomethane	µg/L	5.0 U	5.0 U	-	5.0 U	-
2-Butanone	µg/L	10 U	10 U	-	10 U	-
Carbon disulfide	µg/L	10 U	10 U	-	10 U	-
Carbon tetrachloride	µg/L	5.0 U	5.0 U	-	5.0 U	-
Chlorobenzene	µg/L	5.0 U	5.0 U	-	5.0 U	-
Chloroethane	µg/L	5.0 U	7.5	-	5.0 U	-
Chloroform	µg/L	5.0 U	5.0 U	-	5.0 U	-
Chloromethane	µg/L	5.0 U	5.0 U	-	5.0 U	-
Dibromochloromethane	µg/L	5.0 U	5.0 U	-	5.0 U	-
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	-	5.0 U	-
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	-	5.0 U	-
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	-	5.0 U	-
cis-1,2-Dichloroethene	µg/L	22	5.6	-	5.0 U	-
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	-	5.0 U	-
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	-	5.0 U	-
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	-	5.0 U	-
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	-	5.0 U	-
Ethyl benzene	µg/L	5.0 U	5.0 U	-	5.0 U	-
2-Hexanone	µg/L	10 U	10 U	-	10 U	-
Methylene chloride	µg/L	5.0 U	5.0 U	-	5.0 U	-
4-Methyl-2-pentanone	µg/L	10 U	10 U	-	10 U	-
Styrene	µg/L	5.0 U	5.0 U	-	5.0 U	-
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	-	5.0 U	-
Tetrachloroethene	µg/L	5.0 U	5.0 U	-	5.0 U	-
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	-	5.0 U	-
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	-	5.0 U	-
Toluene	µg/L	5.0 U	5.0 U	-	5.0 U	-
Trichloroethene	µg/L	7.2	5.0 U	-	5.0 U	-
Vinyl chloride	µg/L	5.0 U	5.0 U	-	5.0 U	-
o-Xylenes	µg/L	5.0 U	5.0 U	-	5.0 U	-

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ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR REPUBLIC SWMF #32N03
SEPTEMBER 2001

	<i>Sample ID:</i>	GW-5513-DJT-007	GW-5513-DJT-008	GW-5513-DJT-009	GW-5513-DJT-010	GW-5513-DJT-011
	<i>Location ID:</i>	GW-8B	BW-1	BW-5	BW-3	MW-1
	<i>Collection Date:</i>	09/05/01	09/05/01	09/05/01	09/06/01	09/06/01
		<i>(Field Duplicate)</i>				
<i>Parameters</i>	<i>Units</i>					
m/p-Xylenes	µg/L	5.0 U	5.0 U	-	5.0 U	-

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**ANALYTICAL RESULTS SUMMARY
SEMI-ANNUAL GROUNDWATER MONITORING
UCAR REPUBLIC SWMF #32N03
SEPTEMBER 2001**

		<i>Sample ID:</i> GW-5513-DJT-007	GW-5513-DJT-008	GW-5513-DJT-009	GW-5513-DJT-010	GW-5513-DJT-011
		<i>Location ID:</i> GW-8B	BW-1	BW-5	BW-3	MW-1
		<i>Collection Date:</i> 09/05/01	09/05/01	09/05/01	09/06/01	09/06/01
		<i>(Field Duplicate)</i>				
<i>Parameters</i>	<i>Units</i>					
<i>Metals</i>						
Iron (total)	mg/L	0.354	1.80	2.04	1.09	56.2
Iron (dissolved)	mg/L	-	-	-	-	-
Potassium (total)	mg/L	6.66	5.64	2.80	3.28	46.3
Potassium (dissolved)	mg/L	-	-	-	-	-
Zinc (total)	mg/L	1.26	1.28	0.526	0.0567	0.442
Zinc (dissolved)	mg/L	-	-	-	-	-
<i>General Chemistry</i>						
Ammonia	mg/L	0.0500 UJ	0.693 J	0.179 J	0.405 J	-
Nitrite	mg/L	0.0100 U	0.0100 U	0.0100 U	0.0100 U	-
Total Kjeldahl Nitrogen	mg/L	0.202	1.08	0.447	0.804	-

Notes:

- Not analyzed.

J Estimated.

TCL Target Compound List

U Non-detect at associated value.