ANDREWS
ENGINEERING, INC.

April 9, 2013

Illinois Environmental Protection Agency
Permit Section
Bureau of Land – #33
P.O. Box 19276
Springfield, Illinois 62794-9276

US EPA RECORDS CENTER REGION 5
472810

Re: 2018080001 – Winnebago County
Winnebago Reclamation Service - Northern and Southern Units
Permit No. 1991-138-LF
First Quarter 2013 Potential Observed Increases

Dear Correspondent:

In accordance with the applicable conditions of the permit, a groundwater monitoring review has been conducted on the first quarter 2013 monitoring results. Parameters indicating "observed increases" from the Southern and Northern Units are listed in Tables 1 and 2, respectively.

The sample results from each unit well network have been reviewed pursuant to Condition VIII.13 of Permit No. 1991-138-LF, Modification No. 59. Confirmation sampling will be completed in accordance with Condition VIII.14 of the above referenced permit.

If you have any questions or require further information, please contact Mr. Tom Hilbert at (815) 963-7516. Thank you.

Sincerely,

Teresa N. Sharp

Teresa N. Sharp
Environmental Scientist

TNS:tns:slm

Enclosures

cc: Tom Hilbert – Rock River Environmental Services
Bernie Schorle – US EPA Region 5

J:\1990\90-114 (Winnebago)\DOC\Quarterly Reviews\2013\WNS\Winn NS 1Q13 Observed.doc
Reporting

2200 Ginger Creek Drive, Springfield, Illinois 62711 ◆ 217.787.2334 fax 217.787.9495 www.andrews-eng.com

Table 1
Winnebago Landfill - South Unit
First Quarter 2013 Observed Exceedences

Parameter	Units	1stQtr13	AGQS	Notes
R25D				
Sulfate, Dissolved	mg/l	430	420	

Table 2
Winnebago Reclamation Service - North Unit
First Quarter 2013 Observed Exceedences

Parameter	Units	1stQtr13	AGQS	Notes
G13S - Upgradient				
Sulfate, Dissolved	mg/l	450	360	

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
SOLID WASTE REPORTING FORM

This form must be used as a cover for the following list of notices and reports required by the Illinois EPA's Bureau of Land, Permit Section. All reports must be submitted to the Illinois EPA's Bureau of Land Permit Section. This form must be used for Solid Waste facilities only. Reporting for Hazardous Waste facilities should be submitted on a separate Hazardous Waste Reporting Form. All reports submitted to the Illinois EPA's Bureau of Land Permit Section must contain an original, plus a minimum of two copies.

Note: This form may NOT be used for any request to modify the permit, sampling or operating procedures. Modification requests must be submitted separately in the form of a permit application.

This form is not to be used with permit applications. Your permit will state whether the document you are submitting is required as a report or an application.

Facility Name: Winnebago Landfill - Northern and Southern Units Site ID#: 2018080001

Check one of the following, identifying the contents of your submittal:

- ☐ LPC-160 Forms
  - ☐ Quarterly Groundwater Data
  - ☐ Quarterly Leachate Data
  - ☐ Annual Groundwater Data
  - ☐ Annual Leachate Data
  - ☐ Semi-Annual Groundwater Data
  - ☐ Semi-Annual Leachate Data
  - ☐ Biennial Groundwater Data
  - ☐ Biennial Leachate Data
- ☐ Annual Groundwater Flow Evaluation
- ☐ Well Survey Data
- ☐ Well Construction Forms and Boring Logs
- ☐ Well Abandonment Forms
- ☑ Notice of Observed Increase in Groundwater
  Notice of Intent to Perform Confirmation Procedures (Re-sampling) in Groundwater
- ☐ Notice of Confirmed Increase of Groundwater Exceedence from Re-sample
- ☐ Notice of Methane Exceedences
- ☐ Annual Facility Report (per 35 Ill. Adm. Code 813.504) and Gas Monitoring Report
- ☐ Annual Certifications per 35 Ill. Adm. Code 813.501
- ☐ Other (identify): Not to be used for Permit Applications

LPC-591

Winnebago Reclamation Service, Inc.

August 21, 2000

US EPA RECORDS CENTER REGION 5
472803

Mr. Bernie Schorle
Remedial Project Manager
United State Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, IL 60604-3590

Recycling and waste disposal

4920 Forest Hills Road
Loves Park
Illinois 61111

P.O. Box 2071
Loves Park
Illinois 61130

815.654.5952
Fax 815.654.4717

Re: Pagel Facility, Northern Unit -Eastern Portion Closure Plans and Specifications, Approval of contractors, Analytical Results for Pagel Facility, Northern Unit - groundwater and leachate monitoring May 2000 (2nd Qtr);

Dear Bernie:

Winnebago Reclamation Service (WRS) has decided to complete the closure of the Pagel North Unit this year (2000). The construction work was initiated on August 7, 2000. We are currently anticipating that it will take approximately 10-12 weeks to perform the majority of the closure work. Drilling and completion of the landfill gas/leachate wells may extend into November and add another 3-4 weeks onto the overall schedule. The list of contractors on the job remains essentially the same as for the closure of the western portion of landfill. Rockford Blacktop Construction will be the general contractor and will also be responsible for the subcontractor hired to install the geomembrane and geocomposite drainage net. The geomembrane contractor is Northern Seal and they will be installing material manufactured by Serrot. The construction quality assurance (CQA) will be done by Feezor Engineering. Dan Feezor was the CQA officer during the closure of the western portion of the landfill in 1997 but, was working for EMCON in 1997. EMCON has subsequently been purchased by the IT Group inc. and Dan has started his own company. Dan is very familiar with the Pagel facility and has been the primary engineering consultant at the site since 1990. His statement of qualification is enclosed for your records. The construction plan set and specifications are enclosed. If you have any questions or would like additional regarding the closure work please call or send an e-mail to let me know what I can do.

I have also enclosed the most recent sampling performed under our existing permit for your use and review. The sampling is from the second quarter of 2000 and is the annual organic scan. In addition the 1999 annual report summarizing the monitoring results and significant activities for the 1999 year is enclosed for your review. If you have any questions or would like additional information please, feel free to give me a call

Sincerely,

Thomas Hilbert
Winnebago Reclamation Service

Winnebago Reclamation Service, Inc.

Thomas Hilbert
Environmental Engineer
Winnebago Reclamation
8403 Lindenwood Rd.
Rockford, IL 61109
(815) 874-4806
December 8, 1994

Recycling and
waste disposal

Mr. Bernie Schorle
Remedial Project Manager
United State Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, IL 60604-3590
Re: Monitoring data

US EPA RECORDS CENTER REGION 5
472804

Dear Bernie:

Enclosed is the Monitoring data for Pagel collected recently. I have additional data that requires some validation prior to my forwarding. I hope this is of some use to you. If you have any questions or feel that any portion of the report is in error, please feel free to give me a call.

Sincerely,

Thomas Hilbert

4920 Forest
Hills Road
Loves Park
Illinois,61111

P.O. Box 2071
Loves Park
Illinois 61130

815.654.5952
Fax 815.654.4717

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MONITORING WELL DATA FOR ACME SOLVENTS/ PAGELS PIT STUDY AREA

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (ft/d)		TOOC	TOIC	GROUND	STICKUP	SCREENED INTERVAL	HYDRAULIC CONDUCTIV (cm/s)*
G101	803387.30	2001281.20	2.0E+01	D		745.74	744.10	1.64		7.1E-03
G102	801693.40	2002695.20				738.61	737.40	1.21		
G104	799546.00	2002339.50			730.48	730.42	??	730.42	683.2	
G105R	801757.00	2001636.50	2.4E+00		761.85	761.65	758.82	2.83	715.0	8.5E-04
G106	799929.50	2001261.00			722.54	722.46	720.60	1.86	682.2	4.91E-03
G107	800994.80	2002777.80	6.0E+01		739.74	739.58	737.50	2.08	699.1-709.1	2.1E-02
G108	801724.00	2002292.10	1.3E+01	D	751.37	751.29	749.10	2.19		4.7E-03
G109	801760.50	2001645.20	9.1E-01	D	760.80	760.79	759.00	1.79	707.2-717.2	3.2E-04
G109A	801762.20	2001650.40	1.3E-02	D	761.26	761.03	759.10	1.93	679.4-689.4	4.6E-06
G110	801237.10	2001485.20	1.5E+01	D	748.22	748.08	745.00	3.08		5.3E-03
G110R	801243.66	2001494.23	1.8E+01		748.83	748.55	745.74	2.81		6.3E-03
R111	801792.13	2000991.88			741.03	740.83	738.83	2.00	702.5-712.5	
~~G111~~	~~801788.20~~	~~2000990.70~~	~~6.8E+01~~	~~D~~	~~741.24~~	~~741.04~~	~~738.90~~	~~2.14~~	~~702.6~~	~~2.4E-02~~
G111A	801789.40	2000984.80			740.72	740.53	738.40	2.13	683.3	
G112	801853.90	2001743.30			763.48	763.29	760.40	2.89		
G113	801720.90	2001424.20	4.0E-01	D	762.29	762.22	759.90	2.32		1.4E-04
G113A	801714.80	2001430.90	1.5E-01	D	762.85	762.89	760.00	2.89	685-695	5.4E-05
G114	801486.10	2001576.10	1.9E-01	D	758.25	758.11	755.50	2.61		6.6E-05
G115	800020.50	2001246.00	1.4E+02	U	729.30	729.03	727.10	1.93	706-716	4.8E-02
G116	798812.10	2002021.00	2.1E+01	U	713.92	713.76	711.40	2.36	698-708	7.5E-03
G116A	798806.70	2002021.50	2.3E+00	U	714.23	714.06	711.40	2.66	668.5-673.5	8.0E-04
G116D	798808.79	2002016.47		D	712.92	712.83	711.47	1.36	614.6-625.3	
G117	799202.40	2002550.20	1.4E+00	U	723.61	723.28	722.20	1.08	697.3-707.3	5.1E-04
G118R	799604.10	2002790.50	2.7E+01		717.93	717.61	715.30	2.31	701.3-710.8	9.4E-03
G118A	799607.40	2002786.70	1.1E+02		718.39	718.21	715.80	2.41	672.5-677.5	3.8E-02
~~G119~~	~~799226.00~~	~~2003118.70~~	1.6E+02	~~U~~	~~720.44~~	~~720.22~~	~~717.60~~	2.62		5.7E-02
R119	799230.30	2003114.00		U	720.81	720.31	718.20	2.11	697.1-707.1	
~~G119A~~	~~799230.30~~	~~2003126.20~~	7.9E+00	~~U~~	~~720.19~~	~~720.04~~				2.8E-03
G119A	799230.30	2003126.20		U	721.01	720.51	717.20	3.31	669.6-674.6	
G120B	802387.90	2001608.90				758.44	755.50	2.94	607.5-617.5	
G122	801860.90	2001880.00	6.0E+00		763.34	762.82	760.00	2.82		2.1E-03
G123	800818.72	2000211.04	3.4E+01	U	724.15	723.65	721.69	1.96	698.9-708.9	1.2E-02

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MONITORING WELL DATA FOR
ACME SOLVENTS/ PAGELS PIT STUDY AREA

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (ft/d)		TOOC	TOIC	GROUND	STICKUP	SCREENED INTERVAL	HYDRAULIC CONDUCTIV (cm/s)*
G124	800814.61	2000400.59	8.6E+01	U	719.18	718.64	716.57	2.07	698.6-708.6	3.0E-02
G125	800808.77	2000597.06	6.7E+00	U	718.41	717.92	715.58	2.34	695.6-705.6	2.4E-03
G26S	800703.17	2000687.65	3.9E+02	U	716.81	716.25	714.23	2.02	694.2-704.2	1.4E-01
G26D	800711.05	2000679.85	1.0E+01	U	716.92	716.41	714.30	2.11	681.2-691.2	3.6E-03
G127	800652.34	2000805.30		U	719.84	719.24	717.34	1.90	?	
G128	800544.13	2000900.89		U	719.15	718.63	716.76	1.87	?	
G130	799381.87	2001198.76		U	715.60	715.09	712.96	2.13		
G130A	799377.88	2001194.77		D	715.60	715.08	713.03	2.05		
G131	799991.88	2000752.88		U	715.30	714.96	712.63	2.33		
G131A	799986.24	2000753.20		D	715.40	715.00	712.63	2.37		
G132	799383.69	2002040.67		D	727.85	727.65	725.66	1.99	626.7-631.7	
B1	804385.10	2002143.60			773.19	772.87	770.50	2.37		
B2	803629.60	2002143.40			792.66	792.40	790.20	2.20		
B3	802526.10	2000515.70			745.14	745.00	742.30	2.70		
B4	803477.20	2001666.90	1.3E+00	D	757.97	757.66	755.10	2.56		4.6E-04
B5	803545.80	2001037.30	1.1E-01	U	752.94	752.85	750.10	2.75		3.9E-05
B6S	803015.40	2001583.70	4.9E-01	D	754.34	754.02	751.70	2.32		1.7E-04
B6D	803020.10	2001583.80	3.0E-02	D	754.53	754.21	751.70	2.51		1.1E-05
B7	802855.00	2001929.80	1.5E+00		752.15	751.85	749.00	2.85		5.3E-04
B8	802311.80	2001001.50			750.55	750.22	747.50	2.72		
B9	802380.90	2001565.90	3.7E-01	D	758.79	758.58	755.30	3.28		1.3E-04
B10	801516.10	2002503.40	8.2E-01	D	744.65	744.34	741.90	2.44	701.6-706.6	2.9E-04
B10A	801520.50	2002499.90	1.0E+01	D	743.93	743.94	742.00	1.94	680.2-685.2	3.7E-03
B11	801929.80	2002085.50	3.3E+00	D	761.04	760.74	757.80	2.94		1.2E-03
B11A	801924.50	2002085.90	3.2E-01	D	759.23	759.09	756.60	2.49		1.1E-04
B12	801767.10	2001588.80	1.6E-01	D	760.85	760.52	758.40	2.12		5.6E-05
B13	800990.10	2001316.60	4.0E+00	D	739.69	739.46	736.60	2.86	703.9-708.9	1.4E-03
B14	800694.20	2000728.00		U	717.62	717.3	714.30	3.00	699.8-704.8	
B14A	800692.90	2000721.40		U	716.74	716.16	713.80	2.36	681.3-686.3	
B15	800415.10	2002373.80	8.3E+02	U	744.88	744.55	743.10	1.45		2.9E-01
B15R	800534.40	2002384.00	2.3E+02		~~746.16~~	~~746.29~~	~~742.90~~			8.15E-02
11-9-93 resurvey					746.62	746.31	743.30	3.01	698.8-703.8	

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MONITORING WELL DATA FOR ACME SOLVENTS/ PAGELS PIT STUDY AREA

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (ft/d)		TOOC	TOIC	GROUND	STICKUP	SCREENED INTERVAL	HYDRAULIC CONDUCTIV (cm/s)*
B15P	800417.40	2002387.00	4.3E+00	U	743.68	743.52	741.50	2.02	678.3-683.3	1.5E-03
B16	802389.70	2002103.70	2.4E+00	D	763.23	762.87	760.70	2.17		8.6E-04
B16A	802384.30	2002103.40	4.5E-01	D	762.84	762.72	760.40	2.32		1.6E-04
MW101	803599.50	2002510.00				800.04	797.60	2.44		
MW102	805724.50	2002220.00				760.81	759.50	1.31		
MW103	804573.50	2001600.00			751.65	751.17	748.60	2.57		
MW104	803563.50	2000842.50	2.9E+00	D	757.16	756.72	754.40	2.32		1.0E-03
MW105	803041.10	2001584.60	2.5E-01	D	753.47	752.82	750.60	2.22		8.8E-05
MW106	799325.60	2002065.60			727.47	725.89	724.90	0.99	664.4-674.4	
MW107	802233.50	2002727.90	1.2E-01		750.62	749.78	746.70	3.08		4.4E-05
MW201A	803052.50	2001593.50				752.12	750.10	2.02		
MW201B	803072.50	2001592.50	5.8E-02	D		751.15	749.00	2.15		2.1E-05
MW202	803528.50	2001512.00	1.8E+00	D		752.81	750.40	2.41		6.4E-04
P1	799343.50	2002055.90			728.06	727.69	725.50	2.19	689.7-694.7	
P3	799779.00	2001792.00					723.30			
P3R	799552.50	2001897.30			749.74	749.58	747.70	1.88	699.2-709.2	
P4	799749.00	2001823.00					721.90			
P4R	799555.90	2001885.10	6.5E+02		749.98	749.80	748.20	1.60	679.8-684.8	2.31E-01
P5	799718.00	2001848.00					721.50			
P6	801016.80	2001315.90			740.31	739.71	737.20	2.51	689.7-694.7	
P8	803790.90	2001247.40	2.1E+00	D	748.77	748.18	746.00	2.18		7.3E-04
P9	803766.60	2001239.50	8.0E-01	D	749.12	748.67	745.80	2.87		2.8E-04
PZ-1	803148.00	2001535.00				747.48				
PZ-2	803172.00	2001560.00				745.17				
PZ-3	803196.00	2001585.00				743.85				
PZ-4	803211.50	2001602.00				744.27				
PZ-5	803240.00	2001627.50				747.33				
PZ-6	803268.00	2001657.00				749.67				
PZ-8	802856.00	2001891.50				752.39				
PZ-9	802902.00	2001944.00				747.09				
PZ-10	802943.00	2001994.50				757.20				
PZ-11	802951.00	2002008.00				754.53				

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MONITORING WELL DATA FOR ACME SOLVENTS/ PAGELS PIT STUDY AREA

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (ft/d)	TOOC	TOIC	GROUND	STICKUP	SCREENED INTERVAL	HYDRAULIC CONDUCTIV (cm/s)*
STI-SP1	802991.00	2001593.00			~~751.80~~	~~752.00~~	~~-0.20~~		
STI-SP2	803472.00	2004452.00			769.94	768.70	1.24		
STI-1S	806201.50	2001724.50			766.65	765.00	1.65		
STI-1I	806192.50	2001723.00			766.04	764.70	1.34		
STI-1D	806211.00	2001725.00			766.86	764.90	1.96		
STI-2S	802935.50	2000519.00			748.47	747.20	1.27		
STI-2I	802936.00	2000513.50			748.35	746.90	1.45		
STI-2D	802937.00	2000504.00			747.89	746.30	1.59		
STI-3S	803389.00	2002479.00			768.38	768.00	0.38		
STI-3I	803380.00	2002472.00			~~767.88~~	~~768.10~~	~~-0.22~~		
STI-3D	803847.00	2002485.50			~~768.26~~	~~768.30~~	~~-0.04~~		
STI-4S	802566.00	2003420.00			772.83	771.60	1.23		
STI-4I	802554.50	2003419.50			771.52	771.40	0.12		
STI-4D	802516.50	2003419.00			770.00	768.90	1.10		
STI-5I	802376.00	2001883.00	3.9E-02		762.41	762.00	0.41		1.4E-05
STI-5D	802373.50	2001862.50	2.4E-02		762.67	761.90	0.77		8.5E-06
~~E1(G22S)~~	~~801792.90~~	~~2000417.70~~			~~737.15~~	~~735.00~~	~~2.15~~	~~710.4-720.4~~	
R22S	801782.48	2000416.32		737.26	736.70	734.59	2.11	710.6-720.6	
E1A(G22D)	801792.70	2000409.10			736.89	734.90	1.99		
E2	801198.10	2000002.90			725.16	721.60	3.56		
E2A	801207.40	2000003.30			723.97	721.90	2.07		
E3	800745.20	2000058.30			716.44	714.30	2.14		
E3A	800744.20	2000042.00			717.56	714.50	3.06		
E4	800244.40	2001075.20			721.50	720.20	1.30	701.06-711.06	
E4A	800273.30	2001042.70			721.50	718.50	3.00	681.1-691.1	
RW01	799387.30	2002060.99		726.9?	na	na		662-701	
T1	799315.45	2002040.67		725.48	725.32	723.34	1.98	655.2-695	
T2	799410.94	2002068.17		729.35	729.17	727.05	2.12	659.9-700.1	
W. Sump					755.57		755.57		
Stream Gage 1	799259.14	2002043.24			706.64				
Stream Gage 2	799491.99	2001640.24			708.64				
Stream Gage 3	799773.77	2000910.59			710.19				

File: welsum.xls

MONITORING WELL DATA FOR
ACME SOLVENTS/ PAGELS PIT STUDY AREA

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (ft/d)	TOOC	TOIC	GROUND	STICKUP	SCREENED INTERVAL	HYDRAULIC CONDUCTIV (cm/s)*
Stream Gage 4	798864.30	2002608.27			705.78				
Manhole #1	800273.80	2001626.85			815.90				
Manhole #2	800091.80	2001916.85			830.86				
Manhole #3	800090.50	2002043.60			811.70				

* Hydraulic Conductivity is the Geometric mean of all reported measurements.

DRAFT

INORGANIC REPORT
WINNEBAGO RECLAMATION LANDFILL
ROCKFORD IL
Project Number: 55006603

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L9647-001	E4A	Aluminum	< 0.05	0.05	GroundH2O	mg/L	04-NOV-94	16-NOV-94
		Antimony	0.006	0.002	GroundH2O	mg/L	04-NOV-94	15-NOV-94
		Arsenic	< 0.001	0.001	GroundH2O	mg/L	04-NOV-94	10-NOV-94
		Barium	0.09	0.01	GroundH2O	mg/L	04-NOV-94	09-NOV-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	04-NOV-94	14-NOV-94
		Cadmium	< 0.0002	0.0002	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Calcium	77.3	1.00	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Chromium, Total	0.0006	0.0002	GroundH2O	mg/L	04-NOV-94	15-NOV-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	04-NOV-94	10-NOV-94
		Copper	0.01	0.01	GroundH2O	mg/L	04-NOV-94	08-NOV-94
		Cyanide, Total	< 0.005	0.005	GroundH2O	mg/L	04-NOV-94	17-NOV-94
		Iron	< 0.05	0.05	GroundH2O	mg/L	04-NOV-94	09-NOV-94
		Lead	< 0.0015	0.0015	GroundH2O	mg/L	04-NOV-94	09-NOV-94
		Magnesium	40.4	1.00	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Manganese	< 0.01	0.01	GroundH2O	mg/L	04-NOV-94	08-NOV-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Nickel	< 0.02	0.02	GroundH2O	mg/L	04-NOV-94	09-NOV-94
		Potassium	1.17	0.10	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Silver	< 0.0005	0.0005	GroundH2O	mg/L	04-NOV-94	08-NOV-94
		Sodium	8.62	2.00	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Sulfide, Total	< 1.0	1.0	GroundH2O	mg/L	04-NOV-94	10-NOV-94
		Zinc	< 0.01	0.01	GroundH2O	mg/L	04-NOV-94	09-NOV-94

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

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INORGANIC REPORT
WINNEBAGO RECLAMATION LANDFILL
ROCKFORD IL
Project Number: 55006603

Sample #	Description	Test	Result	Reporting Limit	Matrix	Units	Sample Date	Analysis Date
L9647-002	E4	Aluminum	0.05	0.05	GroundH2O	mg/L	04-NOV-94	16-NOV-94
		Antimony	0.005	0.002	GroundH2O	mg/L	04-NOV-94	15-NOV-94
		Arsenic	< 0.001	0.001	GroundH2O	mg/L	04-NOV-94	10-NOV-94
		Barium	0.05	0.01	GroundH2O	mg/L	04-NOV-94	09-NOV-94
		Beryllium	< 0.0002	0.0002	GroundH2O	mg/L	04-NOV-94	14-NOV-94
		Cadmium	< 0.0002	0.0002	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Calcium	108	1.00	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Chromium, Total	0.0016	0.0002	GroundH2O	mg/L	04-NOV-94	15-NOV-94
		Cobalt	< 0.01	0.01	GroundH2O	mg/L	04-NOV-94	10-NOV-94
		Copper	< 0.01	0.01	GroundH2O	mg/L	04-NOV-94	08-NOV-94
		Cyanide, Total	0.006	0.005	GroundH2O	mg/L	04-NOV-94	17-NOV-94
		Iron	0.08	0.02	GroundH2O	mg/L	04-NOV-94	08-NOV-94
		Lead	< 0.0015	0.0015	GroundH2O	mg/L	04-NOV-94	09-NOV-94
		Magnesium	57.2	1.00	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Manganese	< 0.01	0.01	GroundH2O	mg/L	04-NOV-94	08-NOV-94
		Mercury	< 0.0002	0.0002	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Nickel	< 0.02	0.02	GroundH2O	mg/L	04-NOV-94	09-NOV-94
		Potassium	0.67	0.10	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Selenium	< 0.002	0.002	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Silver	< 0.0005	0.0005	GroundH2O	mg/L	04-NOV-94	08-NOV-94
		Sodium	11.0	2.00	GroundH2O	mg/L	04-NOV-94	11-NOV-94
		Sulfide, Total	< 1.0	1.0	GroundH2O	mg/L	04-NOV-94	10-NOV-94
		Zinc	< 0.01	0.01	GroundH2O	mg/L	04-NOV-94	09-NOV-94

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION LANDFILL
ROCKFORD IL
Project Number: 55006603

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Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L9647-001	E4A	n-Nitrosodimethylamine	< 50	50	GroundH2O	ug/L	
		Phenol	< 10	10	GroundH2O	ug/L	
		2-Chlorophenol	< 10	10	GroundH2O	ug/L	
		Bis(2-Chloroethyl)ether	< 10	10	GroundH2O	ug/L	
		1,3-Dichlorobenzene	< 10	10	GroundH2O	ug/L	
		1,4-Dichlorobenzene	< 10	10	GroundH2O	ug/L	
		1,2-Dichlorobenzene	< 10	10	GroundH2O	ug/L	
		2-Methylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroisopropyl)ether	< 10	10	GroundH2O	ug/L	
		n-Nitroso-di-n-propylamine	< 10	10	GroundH2O	ug/L	
		Hexachloroethane	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2-Nitrophenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		2,4-Dichlorophenol	< 10	10	GroundH2O	ug/L	
		1,2,4-Trichlorobenzene	< 10	10	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		4-Chloroaniline	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		4-Chloro-3-methylphenol	< 10	10	GroundH2O	ug/L	
		2-Methylnaphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorocyclopentadiene	< 20	20	GroundH2O	ug/L	
		2,4,6-Trichlorophenol	< 10	10	GroundH2O	ug/L	
		2,4,5-Trichlorophenol	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		2-Nitroaniline	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		Acenaphthylene	< 10	10	GroundH2O	ug/L	
		2,6-Dinitrotoluene	< 10	10	GroundH2O	ug/L	
		3-Nitroaniline	< 10	10	GroundH2O	ug/L	
		Acenaphthene	< 10	10	GroundH2O	ug/L	
		2,4-Dinitrophenol	< 50	50	GroundH2O	ug/L	
		Dibenzofuran	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		2,4-Dinitrotoluene	< 10	10	GroundH2O	ug/L	
		Fluorene	< 10	10	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION LANDFILL
ROCKFORD IL
Project Number: 55006603

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L9647-001	E4A	4-Chlorophenyl phenyl ether	< 10	10	GroundH2O	ug/L	
		4-Nitroaniline	< 10	10	GroundH2O	ug/L	
		4,6-Dinitro-2-methylphenol	< 50	50	GroundH2O	ug/L	
		n-Nitrosodiphenylamine	< 10	10	GroundH2O	ug/L	G15
		1,2-Diphenylhydrazine	< 10	10	GroundH2O	ug/L	
		4-Bromophenyl phenyl ether	< 10	10	GroundH2O	ug/L	
		Hexachlorobenzene	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Anthracene	< 10	10	GroundH2O	ug/L	
		Carbazole	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Fluoranthene	< 10	10	GroundH2O	ug/L	
		Pyrene	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Benzidine	< 50	50	GroundH2O	ug/L	
		3,3-Dichlorobenzidine	< 20	20	GroundH2O	ug/L	
		Benzo(a)anthracene	< 10	10	GroundH2O	ug/L	
		Chrysene	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 10	10	GroundH2O	ug/L	
		Di-n-octyl phthalate	< 10	10	GroundH2O	ug/L	
		Benzo(a)pyrene	< 10	10	GroundH2O	ug/L	
		Benzo(b)fluoranthene	< 10	10	GroundH2O	ug/L	
		Benzo(k)fluoranthene	< 10	10	GroundH2O	ug/L	
		Indeno(1,2,3-cd)pyrene	< 10	10	GroundH2O	ug/L	
		Dibenzo(a,h)anthracene	< 10	10	GroundH2O	ug/L	
		Benzo(g,h,i)perylene	< 10	10	GroundH2O	ug/L	

Sample Date: 04-NOV-94
Extract Date: 11-NOV-94
Analysis Date: 11-NOV-94

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION LANDFILL
ROCKFORD IL
Project Number: 55006603

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L9647-002	E4	n-Nitrosodimethylamine	< 50	50	GroundH2O	ug/L	
		Phenol	< 10	10	GroundH2O	ug/L	
		2-Chlorophenol	< 10	10	GroundH2O	ug/L	
		Bis(2-Chloroethyl)ether	< 10	10	GroundH2O	ug/L	
		1,3-Dichlorobenzene	< 10	10	GroundH2O	ug/L	
		1,4-Dichlorobenzene	< 10	10	GroundH2O	ug/L	
		1,2-Dichlorobenzene	< 10	10	GroundH2O	ug/L	
		2-Methylphenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroisopropyl)ether	< 10	10	GroundH2O	ug/L	
		n-Nitroso-di-n-propylamine	< 10	10	GroundH2O	ug/L	
		Hexachloroethane	< 10	10	GroundH2O	ug/L	
		3&4-Methylphenol	< 10	10	GroundH2O	ug/L	
		Nitrobenzene	< 10	10	GroundH2O	ug/L	
		Isophorone	< 10	10	GroundH2O	ug/L	
		2-Nitrophenol	< 10	10	GroundH2O	ug/L	
		Bis(2-chloroethoxy)methane	< 10	10	GroundH2O	ug/L	
		2,4-Dimethylphenol	< 10	10	GroundH2O	ug/L	
		2,4-Dichlorophenol	< 10	10	GroundH2O	ug/L	
		1,2,4-Trichlorobenzene	< 10	10	GroundH2O	ug/L	
		Naphthalene	< 10	10	GroundH2O	ug/L	
		4-Chloroaniline	< 10	10	GroundH2O	ug/L	
		Hexachlorobutadiene	< 10	10	GroundH2O	ug/L	
		4-Chloro-3-methylphenol	< 10	10	GroundH2O	ug/L	
		2-Methylnaphthalene	< 10	10	GroundH2O	ug/L	
		Hexachlorocyclopentadiene	< 20	20	GroundH2O	ug/L	
		2,4,6-Trichlorophenol	< 10	10	GroundH2O	ug/L	
		2,4,5-Trichlorophenol	< 10	10	GroundH2O	ug/L	
		2-Chloronaphthalene	< 10	10	GroundH2O	ug/L	
		2-Nitroaniline	< 10	10	GroundH2O	ug/L	
		Dimethyl phthalate	< 10	10	GroundH2O	ug/L	
		Acenaphthylene	< 10	10	GroundH2O	ug/L	
		2,6-Dinitrotoluene	< 10	10	GroundH2O	ug/L	
		3-Nitroaniline	< 10	10	GroundH2O	ug/L	
		Acenaphthene	< 10	10	GroundH2O	ug/L	
		2,4-Dinitrophenol	< 50	50	GroundH2O	ug/L	
		Dibenzofuran	< 10	10	GroundH2O	ug/L	
		4-Nitrophenol	< 50	50	GroundH2O	ug/L	
		2,4-Dinitrotoluene	< 10	10	GroundH2O	ug/L	
		Fluorene	< 10	10	GroundH2O	ug/L	
		Diethyl phthalate	< 10	10	GroundH2O	ug/L	

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

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SEMIVOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION LANDFILL
ROCKFORD IL
Project Number: 55006603

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L9647-002	E4	4-Chlorophenyl phenyl ether	< 10	10	GroundH2O	ug/L	
		4-Nitroaniline	< 10	10	GroundH2O	ug/L	
		4,6-Dinitro-2-methylphenol	< 50	50	GroundH2O	ug/L	
		n-Nitrosodiphenylamine	< 10	10	GroundH2O	ug/L	G15
		1,2-Diphenylhydrazine	< 10	10	GroundH2O	ug/L	
		4-Bromophenyl phenyl ether	< 10	10	GroundH2O	ug/L	
		Hexachlorobenzene	< 10	10	GroundH2O	ug/L	
		Pentachlorophenol	< 50	50	GroundH2O	ug/L	
		Phenanthrene	< 10	10	GroundH2O	ug/L	
		Anthracene	< 10	10	GroundH2O	ug/L	
		Carbazole	< 10	10	GroundH2O	ug/L	
		Di-n-butylphthalate	< 10	10	GroundH2O	ug/L	
		Fluoranthene	< 10	10	GroundH2O	ug/L	
		Pyrene	< 10	10	GroundH2O	ug/L	
		Butylbenzylphthalate	< 10	10	GroundH2O	ug/L	
		Benzidine	< 50	50	GroundH2O	ug/L	
		3,3-Dichlorobenzidine	< 20	20	GroundH2O	ug/L	
		Benzo(a)anthracene	< 10	10	GroundH2O	ug/L	
		Chrysene	< 10	10	GroundH2O	ug/L	
		Bis(2-ethylhexyl)phthalate	< 10	10	GroundH2O	ug/L	
		Di-n-octyl phthalate	< 10	10	GroundH2O	ug/L	
		Benzo(a)pyrene	< 10	10	GroundH2O	ug/L	
		Benzo(b)fluoranthene	< 10	10	GroundH2O	ug/L	
		Benzo(k)fluoranthene	< 10	10	GroundH2O	ug/L	
		Indeno(1,2,3-cd)pyrene	< 10	10	GroundH2O	ug/L	
		Dibenzo(a,h)anthracene	< 10	10	GroundH2O	ug/L	
		Benzo(g,h,i)perylene	< 10	10	GroundH2O	ug/L	

Sample Date: 04-NOV-94
Extract Date: 11-NOV-94
Analysis Date: 11-NOV-94

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

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VOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION LANDFILL
ROCKFORD IL
Project Number: 55006603

Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L9647-001	E4A	Benzene	< 1.0	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 1.0	1.0	GroundH2O	ug/L	
		Bromoform	< 1.0	1.0	GroundH2O	ug/L	A5
		Bromomethane	< 2.0	2.0	GroundH2O	ug/L	A5
		Carbon tetrachloride	< 1.0	1.0	GroundH2O	ug/L	
		Chlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		Chlorodibromomethane	< 1.0	1.0	GroundH2O	ug/L	A5
		Chloroethane	< 2.0	2.0	GroundH2O	ug/L	
		2-Chloroethyl vinyl ether	< 10	10	GroundH2O	ug/L	
		Chloroform	< 1.0	1.0	GroundH2O	ug/L	
		Chloromethane	< 2.0	2.0	GroundH2O	ug/L	A5
		1,2-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,3-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,4-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,2-Dichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		cis-1,2-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		1,2-Dichloropropane	< 1.0	1.0	GroundH2O	ug/L	
		cis-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		Ethylbenzene	< 1.0	1.0	GroundH2O	ug/L	
		Methylene chloride	< 3.0	3.0	GroundH2O	ug/L	
		1,1,2,2-Tetrachloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Tetrachloroethene	4.3	1.0	GroundH2O	ug/L	
		Toluene	< 1.0	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	1.6	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Trichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		Trichlorofluoromethane	< 1.0	1.0	GroundH2O	ug/L	
		Vinyl chloride	< 1.0	1.0	GroundH2O	ug/L	
		m + p-Xylene	< 2.0	2.0	GroundH2O	ug/L	
		o-Xylene	< 1.0	1.0	GroundH2O	ug/L	
		Acrolein	< 100	100	GroundH2O	ug/L	G12
		Acrylonitrile	< 100	100	GroundH2O	ug/L	G12

Sample Date: 04-NOV-94
Analysis Date: 15, 17-NOV-94

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

VOLATILE ORGANIC REPORT
WINNEBAGO RECLAMATION LANDFILL
ROCKFORD IL
Project Number: 55006603

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Sample #	Description	Compound	Result	Reporting Limit	Matrix	Units	Footnotes
L9647-002	E4	Benzene	< 1.0	1.0	GroundH2O	ug/L	
		Bromodichloromethane	< 1.0	1.0	GroundH2O	ug/L	A5
		Bromoform	< 1.0	1.0	GroundH2O	ug/L	
		Bromomethane	< 2.0	2.0	GroundH2O	ug/L	A5
		Carbon tetrachloride	< 1.0	1.0	GroundH2O	ug/L	A5
		Chlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		Chlorodibromomethane	< 1.0	1.0	GroundH2O	ug/L	A5
		Chloroethane	< 2.0	2.0	GroundH2O	ug/L	
		2-Chloroethyl vinyl ether	< 10	10	GroundH2O	ug/L	
		Chloroform	< 1.0	1.0	GroundH2O	ug/L	
		Chloromethane	< 2.0	2.0	GroundH2O	ug/L	
		1,2-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,3-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,4-Dichlorobenzene	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,2-Dichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,1-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		cis-1,2-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,2-Dichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		1,2-Dichloropropane	< 1.0	1.0	GroundH2O	ug/L	
		cis-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		trans-1,3-Dichloropropene	< 1.0	1.0	GroundH2O	ug/L	
		Ethylbenzene	< 1.0	1.0	GroundH2O	ug/L	
		Methylene chloride	< 3.9	3.0	GroundH2O	ug/L	A2
		1,1,2,2-Tetrachloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Tetrachloroethene	< 1.0	1.0	GroundH2O	ug/L	
		Toluene	< 1.0	1.0	GroundH2O	ug/L	
		1,1,1-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		1,1,2-Trichloroethane	< 1.0	1.0	GroundH2O	ug/L	
		Trichloroethene	< 1.0	1.0	GroundH2O	ug/L	
		Trichlorofluoromethane	< 1.0	1.0	GroundH2O	ug/L	
		Vinyl chloride	< 1.0	1.0	GroundH2O	ug/L	
		m + p-Xylene	< 2.0	2.0	GroundH2O	ug/L	
		o-Xylene	< 1.0	1.0	GroundH2O	ug/L	
		Acrolein	< 100	100	GroundH2O	ug/L	G12
		Acrylonitrile	< 100	100	GroundH2O	ug/L	G12

Sample Date: 04-NOV-94
Analysis Date: 16-NOV-94

Chk'd: App'd:
Date App'd:

WI Lab Certification ID#: 113138300

WARZYN

CHAIN OF CUSTODY RECORD

010458

PROJECT No.	PROJECT NAME	CITY & STATE
[illegible]	[illegible]	Rockford IL

SAMPLERS (Signature): [illegible]

LAB No.	DATE	TIME	COMP.	GRAB	STATION LOCATION	No. OF CONTAINERS	[illegible]	[illegible]	[illegible]	[illegible]			REMARKS
	[illegible]	[illegible]		x	[illegible]	9	3	4	1	1			
	↓	[illegible]		x	[illegible]	9	3	4	1	1			

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	[illegible]				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)		Date/Time	

REMARKS: [illegible]

PROJECT MANAGER: [illegible]

Distribution: White — Accompanies Shipment; Yellow — Laboratory File; Pink — Coordinator Field Files

DEC 01 '94 12:02PM MONTGOMERY WATSON 6082314777 P.10/14

State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director
2200 Churchill Road, Springfield, IL 62794-9276

October 3, 1994

John D. Lichty
Manager
Winnebago Reclamation Service, Inc.

Dear John:

Enclosed is a copy of the Target Compound List containing the substances which the samples collected next month will be analyzed for. The CERCLA Integrated Assessment site inspection is scheduled for the week of October 31, 1994. I will notify you several weeks prior to the inspection of the exact date, type and number of samples which will be collected.

Yours truly,

Bob Casper

Bob Casper
Project Manager

Analytical List for E4/E4A
11-4-94
Note: No pesticides or PCB's

R2ZS, EIA, GIIIA, RIIIS
TOC/TDS
TOX

2-Methylnaphthalene	Di-n-Butylphthalate
1,2,4-Trichlorobenzene	Fluoranthene
Isophorone	Pyrene
Naphthalene	Butylbenzylphthalate
4-Chloroaniline	bis(2-Ethylhexyl)Phthalate
bis(2-chloroethoxy)Methane	Chrysene
Hexachlorocyclopentadiene	Benzo(a)Anthracene
2-Chloronaphthalene	3-3'-Dichlorobenzidene
2-Nitroaniline	Di-n-Octyl Phthalate
Acenaphthylene	Benzo(b)Fluoranthene
3-Nitroaniline	Benzo(k)Fluoranthene
Acenaphthene	Benzo(a)Pyrene
Dibenzofuran	Ideno(1,2,3-cd)Pyrene
Dimethyl Phthalate	Dibenz(a,h)Anthracene
2,6-Dinitrotoluene	Benzo(g,h,i)Perylene
Fluorene	1,2-Dichlorobenzene
4-Nitroaniline	1,3-Dichlorobenzene
4-Chlorophenyl-phenylether	1,4-Dichlorobenzene

Acid Target Compounds

Benzoic Acid	2,4,6-Trichlorophenol
Phenol	2,4,5-Trichlorophenol
2-Chlorophenol	4-Chloro-3-methylphenol
2-Nitrophenol	2,4-Dinitrophenol
2-Methylphenol	2-Methyl-4,6-dinitrophenol
2,4-Dimethylphenol	Pentachlorophenol
4-Methylphenol	4-Nitrophenol
2,4-Dichlorophenol	

TARGET COMPOUND LIST

Volatile Target Compounds

Chloromethane	1,2-Dichloropropane
Bromomethane	cis-1,3-Dichloropropene
Vinyl Chloride	Trichloroethene
Chloroethane	Dibromochloromethane
Methylene Chloride	1,1,2-Trichloroethane
Acetone	Benzene
Carbon Disulfide	trans-1,3-Dichloropropene
1,1-Dichloroethene	Bromoform
1,1-Dichloroethane	4-Methyl-2-pentanone
1,2-Dichloroehtene (total)	2-Hexanone
Chloroform	Tetrachloroethene
1,2-Dichloroethane	1,1,2,2-Tetrachloroethane
2-Butanone	Toluene
1,1,1-Trichloroethane	Chlorobenzene
Carbon Tetrachloride	Ethylbenzene
Vinyl Acetate	Styrene
Bromodichloromethane	Xylenes (total)

Base/Neutral Target Compounds

Hexachloroethane	2,4-Dinitrotoluene
bis(2-Chloroethyl) Ether	Diethylphthalate
Benzyl Alcohol	N-Nitrosodiphenylamine
bis (2-Chloroisopropyl) Ether	Hexachlorobenzene
N-Nitroso-Di-n-Propylamine	Phenanthrene
Nitrobenzene	4-Bromophenyl-phenylether
Hexachlorobutadiene	Anthracene

Pesticide/PCB Target Compounds

alpha-BHC	Endrin Ketone
beta-BHC	Endosulfan Sulfate
delta-BHC	Methoxychlor
gamma-BHC (Lindane)	alpha-Chlordane
Heptachlor	gamma-Chlordane
Aldrin	Toxaphene
Heptachlor epoxide	Aroclor-1016
Endosulfan I	Aroclor-1221
4,4'-DDE	Aroclor-1232
Dieldrin	Aroclor-1242
Endrin	Aroclor-1248
4,4'-DDD	Aroclor-1254
Endosulfan II	Aroclor-1260
4,4'-DDT	

Inorganic Target Compounds

Aluminum	Manganese
Antimony	Mercury
Arsenic	Nickel
Barium	Potassium
Beryllium	Selenium
Cadmium	Silver
Calcium	Sodium
Chromium	Thallium
Cobolt	Vanadium
Copper	Zinc
Iron	Cyanide
Lead	Sulfide
Magnesium	

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GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL
Monitoring for determining Applicable Groundwater Quality Standards in Expansion Permit (note at bottom of pg 16)

PROGRAM No. 4 - Revised 2-14-94

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)		MEASURING POINT ELEV. TOIC	SAMPLED INTERVAL*	
G111(G11S)	801788.2	2000990.7	2.40E-02	U	741.04	703-716	
G111A(G11D)	801789.4	2000984.8		D	740.53	683-690	
~~E1(G22S)~~	~~801792.9~~	~~2000417.7~~		~~U~~	737.15	~~710-724~~	
E1A(G22D)	801792.7	2000409.1		U	736.89	676-684	
R22S	801782.5	2000416.3		U	736.70	710.6-720.6	-installed 2-14-94

NOTES:

1) "X" next to AGQS indicates that less than 4 quarters of data was collected

2) If all four quarters of analytical results were below the Reporting Limit (PQL) the lowest PQL was used to determine the AGQS

3) AGQS values of zero indicate that less than 4 quarters of data were collected and none of the sampled quarters were above the PQL

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Sampling Quarter	Analytical Parameters
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April-May	List 1 & 2 & 3 &4
July-Aug	List 1 & 2 & 3 &4
Oct-Nov	List 1 & 2 & 3 &4

LIST 1

FIELD PARAMETERS	CAS Number	AGQS	Method	G11S (G111) 26-Aug-93	15-Nov-93	22-Feb-94	17-May-94	Prediction Limit	Poisson Prediction Limit	Mean	Max	Min	Standard Deviation	Sample Number	Students t-Value
pH (unfiltered)	n/a	7.46	Field	7.12	6.60	6.95	6.73	7.46	14.46	6.85	7.12	6.60	0.23	4.00	2.353
Specific Conductance<unfiltered, umhos/cm @25C>	n/a	715.69	Field	616.00	445.00	430.00	450.00	715.69	543.91	485.25	616.00	430.00	87.58	4.00	2.353
Water Temp<deg. F>	n/a		Field	57.00	50.00	48.20	54.50	63.06	72.18	52.43	57.00	48.20	4.04	4.00	2.353
Depth to Water<BLGS>	n/a		Field	18.99	20.86	20.81	22.24	24.23	33.42	20.73	22.24	18.99	1.33	4.00	2.353
Depth to Water<BLTOIC>	n/a		Field	21.13	23.00	22.95	24.38	26.37	36.16	22.87	24.38	21.13	1.33	4.00	2.353
Top of Inner Casing<MSL>	n/a		Field	741.04	741.04	741.04	741.04	741.04	813.36	741.04	741.04	741.04	0.00	4.00	2.353
Groundwater Elev.<MSL>	n/a		Field	719.91	718.04	718.09	716.66	721.68	789.38	718.18	719.91	716.66	1.33	4.00	2.353
Bottom of Well<MSL>	n/a		Field	703.97	702.60	702.60	702.60	704.74	773.40	702.94	703.97	702.60	0.68	4.00	2.353

LIST 2

MISCELLANEOUS PARAMETERS		AGQS													
Total Organic Carbon, mg/l	n/a	44.77 x	E415.1		1.20		8.50	44.77	34.55	4.85	8.50	1.20	5.16	2.00	6.314
Total Organic Halogens, mg/l	n/a	0.00 x	E402.2		0.02	0.02	0.02	0.02	2.92	0.02	0.02	0.02	0.00	3.00	2.920
Total Dissolved Solids(TDS),mg/l	n/a	527.04 x	E160.1		348.00		378.00	527.04	520.63	363.00	378.00	348.00	21.21	2.00	6.314

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GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL
Monitoring for determining Applicable Groundwater Quality Standards in Expansion Permit (note at bottom of pg 16)

PROGRAM No. 4 - Revised 2-14-94

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)		MEASURING POINT ELEV. TOIC	SAMPLED INTERVAL*	
G111(G11S)	801788.2	2000990.7	2.40E-02	U	741.04	703-716	
G111A(G11D)	801789.4	2000984.8		D	740.53	683-690	
~~E1(G22S)~~	~~801792.9~~	~~2000417.7~~		~~U~~	737.15	~~710-724~~	
E1A(G22D)	801792.7	2000409.1		U	736.89	676-684	
R22S	801782.5	2000416.3		U	736.70	710.6-720.6	-installed 2-14-94

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Sampling Quarter	Analytical Parameters
Jan-Feb	List 1 & 2 & 3 &4
April-May	List 1 & 2 & 3 &4
July-Aug	List 1 & 2 & 3 &4
Oct-Nov	List 1 & 2 & 3 &4

LIST 3

INORGANIC PARAMETERS	CAS Number	AGQS		UNITS	Method	G11S (G111) 26-Aug-93	15-Nov-93	22-Feb-94	17-May-94	Prediction Limit	Poisson Prediction Limit	Mean	Max	Min	Standard Deviation	Sample Number	Students t-Value
Alkalinity(CaCO3,mg/l)		**267.30**		mg/l	E310.2	246.00	250.00	260.00	251.00	267.30	294.20	251.75	260.00	246.00	5.91	4.00	2.353
Aluminum	7429-90-5	**34660.32**	x	ug/l	E200.7	420.00	7360.00	16200.00		34660.32	8296.21	7993.33	16200.00	420.00	7909.04	3.00	2.920
Aluminum (dis)		**222.86**	p	ug/l		670.00	25.00	25.00	25.00	1034.79	222.86	186.25	670.00	25.00	322.50	4.00	2.353
Antimony	7440-36-0	**0.00**	x	ug/l	E200.7	250.00	2.50	2.50		566.80	117.54	85.00	250.00	2.50	142.89	3.00	2.920
Antimony (dis)		**5.00**		ug/l	E200.7	250.00	2.50	2.50	2.50	389.98	86.19	64.38	250.00	2.50	123.75	4.00	2.353
Arsenic	7440-38-2	**11.97**		ug/l	E206.2	0.50	7.00	6.00	2.50	11.97	10.00	4.00	7.00	0.50	3.03	4.00	2.353
Barium	7440-39-3	**244.90**		ug/l	E200.7	100.00	140.00	190.00	100.00	244.90	163.49	132.50	190.00	100.00	42.72	4.00	2.353
Beryllium	7440-41-7	**5.14**		ug/l	E200.7	2.50	3.00	0.80	0.20	5.14	5.74	1.63	3.00	0.20	1.34	4.00	2.353
Boron	7440-42-8	**50.00**		ug/l	E200.7	25.00	50.00	50.00	50.00	76.64	61.86	43.75	50.00	25.00	12.50	4.00	2.353
Cadium	7440-43-9	**18.44**		ug/l	E213.2	5.00	10.00	12.00	12.00	18.44	18.69	9.75	12.00	5.00	3.30	4.00	2.353
Calcium (mg/l)	7440-70-2	**631.91**		mg/l	E200.7	102.00	336.00	418.00	251.00	631.91	321.22	276.75	418.00	102.00	134.98	4.00	2.353
Chloride (mg/l)	6887-00-6	**29.97**		mg/l	E325.2	24.00	22.00	22.00	27.00	29.97	37.28	23.75	27.00	22.00	2.36	4.00	2.353
Chromium	7440-47-3	**108.28**		ug/l	E200.7	10.00	50.00	70.00	40.00	108.28	60.36	42.50	70.00	10.00	25.00	4.00	2.353
Cobalt	7440-48-4	**73.41**		ug/l	E200.7	50.00	20.00	20.00	5.00	73.41	37.28	23.75	50.00	5.00	18.87	4.00	2.353
Copper	7440-50-8	**131.07**		ug/l	E200.7	10.00	80.00	60.00	60.00	131.07	72.27	52.50	80.00	10.00	29.86	4.00	2.353
Fluoride (mg/l)	7782-41-4	**0.22**		mg/l	E340.2	0.15	0.12	0.05	0.07	0.22	1.86	0.10	0.15	0.05	0.05	4.00	2.353
Iron	7439-89-6	**90088.18**		ug/l	E200.7	380.00	45400.00	49700.00	29900.00	90088.18	31811.52	31345.00	49700.00	380.00	22326.13	4.00	2.353
Lead	7439-92-1	**544.90**		ug/l	E239.2	2.50	297.00	216.00	266.00	544.90	232.85	195.38	297.00	2.50	132.84	4.00	2.353

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GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL
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G11S (G111)

					26-Aug-93	15-Nov-93	22-Feb-94	17-May-94	Prediction Limit	Poisson Prediction Limit	Mean	Max	Min	Standard Deviation	Sample Number	Students t-Value
Magnesium (mg/l)	7439-95-4	**339.69**	mg/l	E200.7	48.00	168.00	226.00	133.00	339.69	176.00	143.75	226.00	48.00	74.47	4.00	2.353
Manganese	7439-96-5	**2487.86**	ug/l	E200.7	104.00	1140.00	1530.00	560.00	2487.86	910.16	833.50	1530.00	104.00	628.76	4.00	2.353
Mercury	7439-97-6	**0.20**	ug/l	E245.1	0.10	0.10	0.10	0.10	0.10	1.87	0.10	0.10	0.10	0.00	4.00	2.353
Nickel	7440-02-0	**97.31**	ug/l	E200.7	20.00	50.00	60.00	60.00	97.31	66.34	47.50	60.00	20.00	18.93	4.00	2.353
Nitrate (Total as N)	7727-37-9	**11282.35**	ug/l	E353.2	10300.00	8950.00	9460.00	8580.00	11282.35	9577.24	9322.50	10300.00	8580.00	744.87	4.00	2.353
Potassium(mg/l)		**2.64**	mg/l		2.00	2.14	2.20	2.41	2.64	6.83	2.19	2.41	2.00	0.17	4.00	2.353
Radium-226		**2.15**	pci/l	E903.0M	0.30	0.78	1.50	0.51	2.15	3.88	0.77	1.50	0.30	0.52	4.00	2.353
Radium-226(counting error)		**0.88**	pci/l		0.10	0.45	0.56	0.32	0.88	2.77	0.36	0.56	0.10	0.20	4.00	2.353
Radium-228		**2.94**	pci/l	E904.0	0.00	0.10	0.09	1.90	2.94	3.24	0.52	1.90	0.00	0.92	4.00	2.353
Radium-228(counting error)		**2.27**	pci/l		0.50	1.50	1.30	1.20	2.27	4.69	1.13	1.50	0.50	0.43	4.00	2.353
Selenium	7782-49-2	**2.00**	ug/l	E270.2	1.00	1.00	1.00	1.00	1.00	4.41	1.00	1.00	1.00	0.00	4.00	2.353
Silver	7440-22-4	**10.00**	ug/l	E200.7	5.00	5.00	5.00	5.00	5.00	11.62	5.00	5.00	5.00	0.00	4.00	2.353
Sodium(mg/l)	7440-23-5	**45.05**	mg/l	E200.7	8.00	20.20	8.80	30.60	45.05	28.43	16.90	30.60	8.00	10.70	4.00	2.353
Sodium(dis,mg/l)		**14.12**	mg/l		12.00	8.25	9.59	8.41	14.12	18.42	9.56	12.00	8.25	1.73	4.00	2.353
Strontium-90		**6.21 p**	pci/l	E905.0	1.00	0.50	2.75	3.20	5.32	6.21	1.86	3.20	0.50	1.31	4.00	2.353
Sulfate(mg/l)	4808-79-8	**31.86**	mg/l	E375.2	25.00	18.00	25.00	24.00	31.86	36.33	23.00	25.00	18.00	3.37	4.00	2.353
Thallium	7440-28-0	**2.00**	ug/l	E279.2	100.00	1.00	2.00	1.00	155.81	40.13	26.00	100.00	1.00	49.34	4.00	2.353
Tritium		**500.00**	pci/l	E906.0	250.00	460.00	455.00	470.00	687.70	462.64	408.75	470.00	250.00	106.02	4.00	2.353
Vanadium	7440-62-2	**50.00**	ug/l	200.7	25.00	25.00	25.00	25.00	25.00	38.87	25.00	25.00	25.00	0.00	4.00	2.353
Zinc	7440-66-6	**23685.40**	ug/l	E200.7	3500.00	11000.00	9580.00	16100.00	23685.40	10309.40	10045.00	16100.00	3500.00	5184.22	4.00	2.353

* Analytical Methods for Flame Spectrophotometry, Varian, 1979

File: G111.wb1

GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL
Monitoring for determining Applicable Groundwater Quality Standards in Expansion Permit (note at bottom of pg 16)

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Oct-Nov	List 1 & 2 & 3 &4

LIST 4

ORGANIC CONSTITUENTS	CAS Number	AGQS		UNITS	Method	G11S (G111) 26-Aug-93	15-Nov-93	22-Feb-94	17-May-94	Prediction Limit	Poisson Prediction Limit	Mean	Max	Min	Standard Deviation	Sample Number	Students t-Value
bis Chloromethyl ether	542-88-1	ERR	x	ug/l	SW8260					ERR	ERR	ERR	ERR	ERR	ERR	0.00	ERR
Carbofuran	1563-66-2	10.00		ug/l	SW8270	25.00	5.00	5.50	5.00	36.22	19.22	10.13	25.00	5.00	9.92	4.00	2.353
DDT	50-29-3	0.00	x	ug/l	E413.1		0.05	0.05	0.05	0.05	3.08	0.05	0.05	0.05	0.00	3.00	2.920
Gross Alpha (pci/l		9.51		ug/l	E900.0	1.80	6.80	2.50	2.00	9.51	8.78	3.28	6.80	1.80	2.37	4.00	2.353
Hexanes		1.00		ug/l		0.50	2.50	2.50	2.50	4.63	6.48	2.00	2.50	0.50	1.00	4.00	2.353
Oil (Hexane soluble or Equiv.) mg/l		1.00		mg/l		2.50	0.50	0.50	0.50	3.63	4.41	1.00	2.50	0.50	1.00	4.00	2.353
Iodomethane; Methyl iodide	74-88-4	1.00		ug/l		0.50	2.50	2.50	2.50	4.63	6.48	2.00	2.50	0.50	1.00	4.00	2.353
Chlorotoluene, o-	95-49-8	1.00		ug/l		0.50	2.50	2.50	2.50	4.63	6.48	2.00	2.50	0.50	1.00	4.00	2.353
Chlorotoluene, p-	106-43-4	1.00		ug/l		0.50	2.50	2.50	2.50	4.63	6.48	2.00	2.50	0.50	1.00	4.00	2.353

File: G111A.wb1

GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL
Monitoring for determining Applicable Groundwater Quality Standards in Expansion Permit (note at bottom of pg 16)

PROGRAM No. 4 - Revised 2-14-94

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)		MEASURING POINT ELEV. TOIC	SAMPLED INTERVAL*	
G111(G11S)	801788.2	2000990.7	2.40E-02	U	741.04	703-716	
G111A(G11D)	801789.4	2000984.8		D	740.53	683-690	
E1(G22S)	801792.9	2000417.7		U	737.15	710-724	
E1A(G22D)	801792.7	2000409.1		U	736.89	676-684	
R22S	801782.5	2000416.3		U	736.70	710.6-720.6	-installed 2-14-94

NOTES:

1) "X" next to AGQS indicates that less than 4 quarters of data was collected

2) If all four quarters of analytical results were below the Reporting Limit (PQL) the lowest PQL was used to determine the AGQS

3) AGQS values of zero indicate that less than 4 quarters of data were collected and none of the sampled quarters were above the PQL

4) "p" next to the AGQS indicates that a Poisson Prediction limit was used to determine the AGQS. This was done for samples in which >50% and <90% of the samples are nondetect

Sampling Quarter	Analytical Parameters
Jan-Feb	List 1 & 2 & 3 &4
April-May	List 1 & 2 & 3 &4
July-Aug	List 1 & 2 & 3 &4
Oct-Nov	List 1 & 2 & 3 &4

LIST 1

FIELD PARAMETERS	CAS Number	AGQS	Method	G11D (G111A) 26-Aug-93	15-Nov-93	22-Feb-94	17-May-94	Prediction Limit	Poisson Prediction Limit	Mean	Max	Min	Deviation	Sample Number	Students t-Value
pH (unfiltered)	n/a	6.97	Field	6.80	6.83	6.72	6.64	6.97	14.31	6.75	6.83	6.64	0.09	4.00	2.353
Specific Conductance<unfiltered, umhos/cm @25C>	n/a	773.49	Field	659.00	470.00	440.00	490.00	773.49	575.14	514.75	659.00	440.00	98.34	4.00	2.353
Water Temp<deg. F>	n/a		Field	66.00	50.00	47.30	54.50	76.16	74.57	54.45	66.00	47.30	8.25	4.00	2.353
Depth to Water<BLGS>	n/a		Field	18.45	20.33	20.35	21.79	23.83	32.78	20.23	21.79	18.45	1.37	4.00	2.353
Depth to Water<BLTOIC>	n/a		Field	20.58	22.46	22.48	23.92	25.96	35.51	22.36	23.92	20.58	1.37	4.00	2.353
Top of Inner Casing<MSL>	n/a		Field	740.53	740.53	740.53	740.53	740.53	812.83	740.53	740.53	740.53	0.00	4.00	2.353
Groundwater Elev.<MSL>	n/a		Field	719.95	718.07	718.05	716.61	721.77	789.38	718.17	719.95	716.61	1.37	4.00	2.353
Bottom of Well<MSL>	n/a		Field	683.30	683.30	683.30	683.30	683.30	752.77	683.30	683.30	683.30	0.00	4.00	2.353

LIST 2

MISCELLANEOUS PARAMETERS		AGQS													
Total Organic Carbon, mg/l	n/a	0.00 x	E415.1		0.50		0.90	2.89	22.55	0.70	0.90	0.50	0.28	2.00	6.314
Total Organic Halogens, mg/l	n/a	0.00 x	E402.2		0.02	0.02	0.02	0.02	2.92	0.02	0.02	0.02	0.00	3.00	2.920
Total Dissolved Solids(TDS),mg/l	n/a	409.81 x	E160.1		374.00		380.00	409.81	537.44	377.00	380.00	374.00	4.24	2.00	6.314

File: G111A.wb1

GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL
Monitoring for determining Applicable Groundwater Quality Standards in Expansion Permit (note at bottom of pg 16)

PROGRAM No. 4 - Revised 2-14-94

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)		MEASURING POINT ELEV. TOIC	SAMPLED INTERVAL*	
G111(G11S)	801788.2	2000990.7	2.40E-02	U	741.04	703-716	
G111A(G11D)	801789.4	2000984.8		D	740.53	683-690	
E1(G22S)	801792.9	2000417.7		U	737.15	710-724	
E1A(G22D)	801792.7	2000409.1		U	736.89	676-684	
R22S	801782.5	2000416.3		U	736.70	710.6-720.6	-installed 2-14-94

NOTES:

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2) If all four quarters of analytical results were below the Reporting Limit (PQL) the lowest PQL was used to determine the AGQS

3) AGQS values of zero indicate that less than 4 quarters of data were collected and none of the sampled quarters were above the PQL

4) "p" next to the AGQS indicates that a Poisson Prediction limit was used to determine the AGQS. This was done for samples in which >50% and <90% of the samples are nondetect

Sampling Quarter	Analytical Parameters
Jan-Feb	List 1 & 2 & 3 &4
April-May	List 1 & 2 & 3 &4
July-Aug	List 1 & 2 & 3 &4
Oct-Nov	List 1 & 2 & 3 &4

LIST 3

INORGANIC PARAMETERS	CAS Number	AGQS		UNITS	Method	G11D (G111A) 26-Aug-93	15-Nov-93	22-Feb-94	17-May-94	Prediction Limit	Poisson Prediction Limit	Mean	Max	Min	Deviation	Sample Number	Students t-Value
Alkalinity(CaCO3,mg/l)		**274.81**		mg/l	E310.2	246.00	252.00	263.00	259.00	274.81	297.71	255.00	263.00	246.00	7.53	4.00	2.353
Aluminum	7429-90-5	**3765.04**	x	ug/l	E200.7	460.00	1970.00	740.00		3765.04	1167.70	1056.67	1970.00	460.00	803.26	3.00	2.920
Aluminum (dis)		**164.88**	p	ug/l		460.00	25.00	25.00	25.00	706.02	164.88	133.75	460.00	25.00	217.50	4.00	2.353
Antimony	7440-36-0	**0.00**	x	ug/l	E200.7	250.00	2.50	2.50		566.80	117.54	85.00	250.00	2.50	142.89	3.00	2.920
Antimony (dis)		**5.00**		ug/l	E200.7	250.00	2.50	2.50	2.50	389.98	86.19	64.38	250.00	2.50	123.75	4.00	2.353
Arsenic	7440-38-2	**1.00**		ug/l	E206.2	0.50	2.00	1.00	1.00	2.78	4.69	1.13	2.00	0.50	0.63	4.00	2.353
Barium	7440-39-3	**122.69**		ug/l	E200.7	100.00	110.00	90.00	90.00	122.69	124.18	97.50	110.00	90.00	9.57	4.00	2.353
Beryllium	7440-41-7	**0.20**		ug/l	E200.7	2.50	0.10	0.10	0.10	3.86	3.70	0.70	2.50	0.10	1.20	4.00	2.353
Boron	7440-42-8	**72.56**	p	ug/l	E200.7	61.00	50.00	50.00	50.00	67.22	72.56	52.75	61.00	50.00	5.50	4.00	2.353
Cadium	7440-43-9	**0.20**		ug/l	E213.2	5.00	2.50	2.50	0.10	7.79	7.46	2.53	5.00	0.10	2.00	4.00	2.353
Calcium (mg/l)	7440-70-2	**100.29**		mg/l	E200.7	89.00	88.30	78.90	76.10	100.29	107.76	83.08	89.00	76.10	6.54	4.00	2.353
Chloride (mg/l)	6887-00-6	**28.24**		mg/l	E325.2	26.00	23.00	22.00	24.00	28.24	37.28	23.75	26.00	22.00	1.71	4.00	2.353
Chromium	7440-47-3	**57.21**		ug/l	E200.7	10.00	40.00	20.00	10.00	57.21	32.48	20.00	40.00	10.00	14.14	4.00	2.353
Cobalt	7440-48-4	**10.00**		ug/l	E200.7	50.00	5.00	5.00	5.00	75.45	27.57	16.25	50.00	5.00	22.50	4.00	2.353
Copper	7440-50-8	**19.04**	p	ug/l	E200.7	10.00	20.00	5.00	5.00	28.60	19.04	10.00	20.00	5.00	7.07	4.00	2.353
Fluoride (mg/l)	7782-41-4	**1.73**	p	mg/l	E340.2	0.05	0.11	0.05	0.06	0.14	1.73	0.07	0.11	0.05	0.03	4.00	2.353
Iron	7439-89-6	**10931.46**		ug/l	E200.7	3700.00	7080.00	2840.00	190.00	10931.46	3607.79	3452.50	7080.00	190.00	2842.48	4.00	2.353
Lead	7439-92-1	**3.00**		ug/l	E239.2	2.50	1.50	1.50	1.50	3.07	5.99	1.75	2.50	1.50	0.50	4.00	2.353

File: G111A.wb1

GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL
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PROGRAM No. 4 - Revised 2-14-94

WELL NUMBER	EASTING	NORTHING	HYDRAULIC CONDUCTIVITY (cm/s)		MEASURING POINT ELEV. TOIC	SAMPLED INTERVAL*	
G111(G11S)	801788.2	2000990.7	2.40E-02	U	741.04	703-716	
G111A(G11D)	801789.4	2000984.8		D	740.53	683-690	
E1(G22S)	801792.9	2000417.7		U	737.15	710-724	
E1A(G22D)	801792.7	2000409.1		U	736.89	676-684	
R22S	801782.5	2000416.3		U	736.70	710.6-720.6	-installed 2-14-94

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Sampling Quarter	Analytical Parameters
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Oct-Nov	List 1 & 2 & 3 &4

G11D (G111A)

					26-Aug-93	15-Nov-93	22-Feb-94	17-May-94	Prediction Limit	Poisson Prediction Limit	Mean	Max	Min	Deviation	Sample Number	Students t-Value
Magnesium (mg/l)	7439-95-4	**47.80**	mg/l	E200.7	42.00	44.90	39.70	40.50	47.80	59.49	41.78	44.90	39.70	2.29	4.00	2.353
Manganese	7439-96-5	**273.90**	ug/l	E200.7	90.00	180.00	50.00	10.00	273.90	107.10	82.50	180.00	10.00	72.74	4.00	2.353
Mercury	7439-97-6	**0.20**	ug/l	E245.1	0.10	0.10	0.10	0.10	0.10	1.87	0.10	0.10	0.10	0.00	4.00	2.353
Nickel	7440-02-0	**41.48**	ug/l	E200.7	20.00	30.00	10.00	20.00	41.48	32.48	20.00	30.00	10.00	8.16	4.00	2.353
Nitrate (Total as N)	7727-37-9	**14059.03**	ug/l	E353.2	13000.00	12000.00	11500.00	11100.00	14059.03	12187.72	11900.00	13000.00	11100.00	820.57	4.00	2.353
Potassium(mg/l)		**2.31**	mg/l		2.00	1.58	1.86	1.58	2.31	6.00	1.76	2.00	1.58	0.21	4.00	2.353
Radium-226		**1.14**	Pci/l	E903.0M	0.10	0.73	0.30	0.53	1.14	2.93	0.41	0.73	0.10	0.27	4.00	2.353
Radium-226(counting error)		**0.61**	Pci/l		0.10	0.29	0.39	0.34	0.61	2.53	0.28	0.39	0.10	0.13	4.00	2.353
Radium-228		**2.30**	Pci/l	E904.0	1.50	0.06	0.60	0.20	2.30	3.42	0.59	1.50	0.06	0.65	4.00	2.353
Radium-228(counting error)		**2.30**	Pci/l		0.60	0.90	1.50	0.12	2.30	3.90	0.78	1.50	0.12	0.58	4.00	2.353
Selenium	7782-49-2	**2.00**	ug/l	E270.2	1.00	1.00	1.00	1.00	1.00	4.41	1.00	1.00	1.00	0.00	4.00	2.353
Silver	7440-22-4	**10.00**	ug/l	E200.7	5.00	5.00	5.00	5.00	5.00	11.62	5.00	5.00	5.00	0.00	4.00	2.353
Sodium (mg/l)	7440-23-5	**10.29**	mg/l	E200.7	7.00	6.79	6.90	9.06	10.29	15.34	7.44	9.06	6.79	1.09	4.00	2.353
Sodium(dis,mg/l)		**9.72**	mg/l		9.00	7.81	7.61	7.91	9.72	16.29	8.08	9.00	7.61	0.62	4.00	2.353
Strontium-90		**6.38** p	Pci/l	E905.0	1.00	0.55	2.65	3.60	5.69	6.38	1.95	3.60	0.55	1.42	4.00	2.353
Sulfate(mg/l)	4808-79-8	**53.80**	mg/l	E375.2	44.00	25.00	29.00	29.00	53.80	47.28	31.75	44.00	25.00	8.38	4.00	2.353
Thallium	7440-28-0	**2.00**	ug/l	E279.2	100.00	1.00	2.00	1.00	155.81	40.13	26.00	100.00	1.00	49.34	4.00	2.353
Tritium		**500.00**	Pci/l	E906.0	250.00	460.00	455.00	470.00	687.70	462.64	408.75	470.00	250.00	106.02	4.00	2.353
Vanadium	7440-62-2	**50.00**	ug/l	200.7	25.00	25.00	25.00	25.00	25.00	38.87	25.00	25.00	25.00	0.00	4.00	2.353
Zinc	7440-66-6	**118.58**	ug/l	E200.7	10.00	80.00	10.00	20.00	118.58	45.12	30.00	80.00	10.00	33.67	4.00	2.353

* Analytical Methods for Flame Spectrophotometry, Varian, 1979

File: G111A.wb1

GROUNDWATER MONITORING WINNEBAGO RECLAMATION SERVICE
PAGEL LANDFILL
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LIST 4

ORGANIC CONSTITUENTS	CAS Number	AGQS		UNITS	Method	G11D (G111A) 26-Aug-93	15-Nov-93	22-Feb-94	17-May-94	Prediction Limit	Poisson Prediction Limit	Mean	Max	Min	Deviation	Sample Number	Students t-Value
bis Chloromethyl ether	542-88-1	ERR	x	ug/l	SW8260					ERR	ERR	ERR	ERR	ERR	ERR	0.00	ERR
Carbofuran	1563-66-2	10.00		ug/l	SW8270	25.00	5.00	5.00	5.00	36.31	19.04	10.00	25.00	5.00	10.00	4.00	2.353
DDT	50-29-3	0.00	x	ug/l	E413.1		0.05	0.05	0.05	0.05	3.08	0.05	0.05	0.05	0.00	3.00	2.920
Gross Alpha (pci/l		4.86		ug/l	E900.0	0.60	3.40	1.15	1.00	4.86	5.56	1.54	3.40	0.60	1.26	4.00	2.353
Hexanes		1.00		ug/l		0.50	2.50	2.50	2.50	4.63	6.48	2.00	2.50	0.50	1.00	4.00	2.353
Oil (Hexane soluble or Equiv.) mg/l		1.00		mg/l		2.50	0.50	0.50	1.00	3.62	4.69	1.13	2.50	0.50	0.95	4.00	2.353
Iodomethane; Methyl iodide	74-88-4	1.00		ug/l		0.50	2.50	2.50	2.50	4.63	6.48	2.00	2.50	0.50	1.00	4.00	2.353
Chlorotoluene, o-	95-49-8	1.00		ug/l		0.50	2.50	2.50	2.50	4.63	6.48	2.00	2.50	0.50	1.00	4.00	2.353
Chlorotoluene, p-	106-43-4	1.00		ug/l		0.50	2.50	2.50	2.50	4.63	6.48	2.00	2.50	0.50	1.00	4.00	2.353