

# LEGGETTE, BRASHEARS & GRAHAM, INC.

## PROFESSIONAL GROUND-WATER AND ENVIRONMENTAL ENGINEERING SERVICES

140 EAST HINKS LANE, SUITE 126  
SIOUX FALLS, SD 57104  
605-334-6000  
FAX 605-334-1850  
www.lbgweb.com

July 28, 2006

Ms. Barb Gnabasik  
Minnesota Pollution Control Agency  
525 S. Lake Avenue, Suite 400  
Duluth, MN 55802

RE: April 2006 Ground-Water Monitoring Event  
DeZurik/City of Sartell Closed Hazardous  
Waste Lagoon #3 - MND985668342

Dear Ms. Gnabasik:

Leggette, Brashears & Graham, Inc. (LBG) has completed the April 2006 ground-water monitoring and sampling event at the DeZurik Hazardous Waste Lagoon #3. The purpose of this letter is to summarize and submit the data to the Minnesota Pollution Control Agency (MPCA) on behalf of the City of Sartell. These data were obtained and are reported in accordance with the hazardous waste permit dated September 29, 1994.

### Work Completed

On April 11, 2006, LBG collected fluid-level data and ground-water samples from the monitor wells in accordance with the required ground-water monitoring schedule. Figure 1 shows the monitor well locations and the water-table elevation contours for this monitoring event. Table 1 summarizes the fluid-level measurements and calculated elevations for each well.

Ground-water samples were collected from monitor wells P-5R, P-9R, P-12R, and P-13 on April 11, 2006. Field sampling data sheets are provided in Appendix I. The samples were submitted to TestAmerica Analytical Testing Corporation (TestAmerica) in Cedar Falls, Iowa for analysis of inorganics, nutrients, and trace metals. Ground-water samples were also collected from the City of

Sartell Landfill wells P-5A, P-6, P-7, P-10, P-11A, and PW-0 on April 11, 2006. The samples were submitted to TestAmerica for analysis of dissolved boron. The laboratory analytical report is provided in Appendix II.

### **Problems or Delays and Solutions**

There were no notable problems or delays during the sampling event. All wells were sampled as specified in the monitoring plan.

### **Anticipated Work Schedule**

The next monitoring and sampling event is scheduled for October 2006.

### **Sampling and Analytical Results**

Figure 1 shows that the indicated ground-water flow direction is generally to the southeast. This is normal for the site. No anomalies in the fluid-level data are apparent.

A summary of the analytical results from the April 2006 event are provided on Table 2. Of the hazardous constituents to which the ground-water protection standards apply (arsenic, barium, cadmium, lead and selenium), only barium and cadmium were detected. A summary of the hazardous constituents can be found on Table 3. Other contaminants that exceeded either a secondary maximum contaminant limit (SMCL), an intervention limit (IL) or a health risk limit (HRL) include total dissolved solids, sulfate, and dissolved boron.

Barium was detected in all the wells during the April 2006 sampling event. The concentrations ranged from 71.6 to 102  $\mu\text{g/L}$ . The detections of barium are below the regulatory limits; however, the detections of barium exceed the calculated site-specific Tolerance Limit of 66  $\mu\text{g/L}$ . Please note that the barium concentration in P-13 also exceeded the Tolerance Limit, suggesting that the barium concentrations for this analytical event are anomalous. Additionally, the

barium results for this event were subjected to an outlier analysis via the Dixon's Test of Outliers. The barium results for both P-9R and P-13 were identified as outliers. Given the apparently anomalous nature of the barium results for the April 2006 event, no further action is warranted at this time.

Cadmium was detected in P-9R and P-13 during the April 2006 sampling event at concentrations of  $0.273 \mu\text{g/L}$  and  $0.415 \mu\text{g/L}$ , respectively. This is the fourth consecutive detection of cadmium in P-9R but the first detection of cadmium in P-13 since 1994. The detected concentrations are below the regulatory limits. A site-specific Tolerance Limit for cadmium has previously been calculated, but it has been based predominantly on the background detection limits (15 of 16 events), which are artifacts and not indicative of any real concentrations at the site. Consequently, the calculated Tolerance Limit is of little practical use in evaluating the current detections of cadmium. Because the cadmium concentration does not exceed the regulatory limits, no further action is warranted at this time. Additionally, given the apparently anomalous nature of the cadmium detection in P-13 no further action is warranted at this time.

Total dissolved solids (TDS) were detected above the SMCL of 500 mg/L in all the wells during the April 2006 sampling event. The detected concentrations range from 508 mg/L (P-13) to 952 mg/L (P-5R). The detected concentrations are within the historical range for the site.

Sulfate was detected above the SMCL of 250 mg/L in P-5R during the April 2006 sampling event. The detected concentration of 281 mg/L is the highest concentration detected for this well. The sulfate concentration in P-5R has previously exceeded the SMCL on three occasions and with one exception, has declined below the SMCL in subsequent events.

For the DeZurik Hazardous Waste Lagoon wells, dissolved boron was detected above the HRL of 0.6 mg/L only in P-5R during the April 2006 sampling event. The detected concentration of 1.91 mg/L is the highest concentration detected in P-5R. For the City of Sartell Landfill wells, dissolved boron was detected above the HRL in PW-0, P-5A, and P-11A during the April 2006 event. The concentrations detected in PW-0 and P-11A are within historic concentrations for the

site. The dissolved boron concentration detected in P-5A, 1.21 mg/L, was the highest concentration detected for P-5A. In contrast with the two previous dissolved boron concentrations in P-5A, 0.52 mg/L and 0.74 mg/L, the current concentration appears anomalously high and no further action appears warranted at this time. The requested receptor survey that was prompted by the dissolved boron concentration is nearly complete and will be submitted under separate cover.

**Recommendations**

No changes to the monitoring program are warranted at this time. The continuation of ground-water monitoring as directed by the MPCA is recommended.

Sincerely,

LEGGETTE, BRASHEARS & GRAHAM, INC.



Melissa Karstens  
Environmental Scientist II

Reviewed by:



Tim Kenyon, PG  
Vice President

MK/kak

I:\Data\WP\LANDFILL\DeZurik and Sartell\Dezurik\DeZurik April 2006.RPT.wpd

cc: Mr. Brad Borders, City of Sartell  
Mr. Dan McGrade, SPX Corporation

**TABLES**

**TABLE 1**

**DEZURIK HAZARDOUS WASTE LAGOON #3  
SARTELL, MINNESOTA**

**Ground-Water Elevation Data**

<b>DATE</b>	<b>P-5R</b>	<b>P-5R</b>	<b>P-9R</b>	<b>P-9R</b>	<b>P-12R</b>	<b>P-12R</b>	<b>P-13</b>	<b>P-13</b>
<b>Elevation</b>		<b>1099.04</b>		<b>1102.98</b>		<b>1101.33</b>		<b>1105.12</b>
4/4/1990								
6/26/1990				1020.74				1025.77
10/2/1990				1023.05				1026.18
12/18/1990				1023.25				1026.23
4/4/1991				1022.79				1026.14
8/1/1991				1024.43				1026.45
10/31/1991				1024.97				1026.48
4/23/1992				1024.36				1026.46
10/21/1992				1024.28				
4/20/1993				1022.94				1026.00
10/27/1993		1026.14		1025.2		1025.37		1026.98
4/20/1994		1024.73		1024.56		1024.75		1026.59
7/11/1994				1025.52				
10/17/1994		1025.47		1025.34		1025.44		1027.04
4/11/1995		1024.79		1025.01		1024.80		1026.75
10/9/1995		1025.63		1025.52		1025.53		1026.98
4/17/1996		1024.94		1024.83		1024.97		1026.59
10/15/1996		1024.40		1024.25		1024.37		1026.47
4/15/1997		1024.35		1024.22		1024.23		1026.45
10/14/1997		1026.04		1025.81		1025.91		1027.27
4/13/1998		1024.84		1024.69		1024.84		1026.44
10/6/1998		1024.62		1024.47		1024.63		1026.37
4/27/1999		1023.63		1023.48		1023.64		1026.10
10/27/1999		1023.93		1023.81		1023.93		1026.24
4/25/2000	76.04	1023.00	79.13	1023.85	78.33	1023.00	78.90	1026.22
10/23/2000	76.87	1022.17	80.08	1022.90	79.15	1022.18	79.04	1026.08
4/18/2001	76.92	1022.12	80.12	1022.86	79.23	1022.10	79.18	1025.94
7/24/2001	75.12	1023.92	78.27	1024.71	77.39	1024.06	78.91	1026.21
10/23/2001	75.29	1023.75	78.46	1024.52	77.54	1023.79	78.94	1026.18
4/29/2002	75.53	1023.51	78.68	1024.30	77.79	1023.54	79.08	1026.04
10/16/2002		1025.57		1026.33		1025.58		1026.75
4/15/2003	74.39	1024.65		1025.43		1024.69		1026.33
10/7/2003	74.93	1024.11	78.1	1024.88	77.16	1024.17	79.05	1026.07
4/27/2004	75.65	1023.39	78.85	1024.13	77.94	1023.39	78.89	1026.23
10/12/2004	75.06	1023.98	78.25	1024.73	77.33	1024.00	78.8	1026.32
4/27/2005	75.42	1023.62	78.6	1024.38	77.7	1023.63	78.91	1026.21
10/12/2005	74.80	1024.24	77.96	1025.02	77.07	1024.26	78.68	1026.44
4/11/2006	74.28	1024.76	77.45	1025.53	76.56	1024.77	78.54	1026.58

blank = not measured

TABLE 2

**DEZURIK HAZARDOUS WASTE LAGOON #3  
SARTELL, MINNESOTA**

**2006 Water Quality Data Summary**

Analyte	Units	MCL (mg/L)	SMCL (mg/L)	IL (mg/L)	HRL (mg/L)	P-5R	Duplicate P-5R	P-9R	P-12R	P-13	Pump Blank	PW-0*	P-5A*
						11-Apr-06	11-Apr-06	11-Apr-06	11-Apr-06	11-Apr-06	11-Apr-06	11-Apr-06	11-Apr-06
Total Organic Carbon	mg/L					<b>3.18</b>	<b>3.21</b>	<b>3.53</b>	<b>2.99</b>	<b>1.97</b>	<b>1.22</b>		
Chloride	mg/L		250			<b>49.4</b>	<b>49.6</b>	<b>49.4</b>	<b>47.5</b>	<b>32.9</b>	<b>22.4</b>	<b>32.4</b>	<b>35.4</b>
Specific Conductance	umhos/cm					<b>1320</b>	<b>1040</b>	<b>1040</b>	<b>996</b>	<b>775</b>	<b>548</b>	<b>1030</b>	<b>1180</b>
Chemical Oxygen Demand	mg/L					<b>5.10</b>	<b>9.80</b>	<b>8.00</b>	<b>3.2</b>	<b>&lt;1.82</b>	<b>&lt;1.82</b>		
pH	su		6.5-8.5			<b>7.0</b>	<b>7.0</b>	<b>7.1</b>	<b>7.2</b>	<b>7.3</b>	<b>7.8</b>	<b>7.3</b>	<b>7.1</b>
Total Phenols	mg/L					<b>&lt;0.0007</b>	<b>&lt;0.0007</b>	<b>0.00121</b>	<b>&lt;0.0007</b>	<b>&lt;0.0007</b>	<b>&lt;0.000633</b>		
Sodium	mg/L					<b>44.7</b>	<b>44.9</b>	<b>12.7</b>	<b>22.5</b>	<b>5.84</b>	<b>97.6</b>	<b>34.7</b>	<b>35.8</b>
Total Dissolved Solids	mg/L		500			<b>948</b>	<b>952</b>	<b>708</b>	<b>684</b>	<b>508</b>	<b>350</b>	<b>692</b>	<b>953</b>
Sulfate	mg/L		250			<b>281</b>	<b>288</b>	<b>132</b>	<b>113</b>	<b>51.6</b>	<b>29.6</b>	<b>168</b>	<b>159</b>
Total Cyanide	mg/L	0.2			0.1	<b>&lt;0.002</b>	<b>&lt;0.002</b>	<b>&lt;0.002</b>	<b>&lt;0.002</b>	<b>&lt;0.002</b>	<b>&lt;0.002</b>		
Fluoride	mg/L	4	2			<b>0.47</b>	<b>&lt;0.13</b>	<b>0.137</b>	<b>&lt;0.13</b>	<b>0.13</b>	<b>1.01</b>		
Nitrate as Nitrogen	mg/L					<b>5.36</b>	<b>4.83</b>	<b>4.79</b>	<b>4.68</b>	<b>4.52</b>	<b>1.3</b>		
Dissolved Arsenic	mg/L	0.01		0.0125		<b>&lt;0.00042</b>	<b>&lt;0.00042</b>	<b>&lt;0.00042</b>	<b>&lt;0.00042</b>	<b>&lt;0.00042</b>	<b>&lt;0.00042</b>	<b>0.000512</b>	<b>&lt;0.00042</b>
Dissolved Barium	mg/L	2		0.375		<b>0.0837</b>	<b>0.0793</b>	<b>0.102</b>	<b>0.0716</b>	<b>0.0764</b>	<b>0.00157</b>		
Dissolved Boron	mg/L				0.6	<b>1.91</b>	<b>1.92</b>	<b>&lt;0.058</b>	<b>0.087</b>	<b>0.114</b>	<b>&lt;0.058</b>	<b>0.839</b>	<b>1.21</b>
Dissolved Cadmium	mg/L	0.005		0.0125	0.004	<b>&lt;0.00013</b>	<b>&lt;0.00013</b>	<b>0.000273</b>	<b>&lt;0.00013</b>	<b>0.000415</b>	<b>&lt;0.00013</b>	<b>&lt;0.00013</b>	<b>&lt;0.00013</b>
Dissolved Calcium	mg/L					<b>186</b>	<b>185</b>	<b>157</b>	<b>147</b>	<b>123</b>	<b>4.48</b>	<b>140</b>	<b>171</b>
Dissolved Chromium	mg/L	0.1		0.03	0.02	<b>&lt;0.0027</b>	<b>&lt;0.0027</b>	<b>&lt;0.0027</b>	<b>0.0028</b>	<b>&lt;0.0027</b>	<b>&lt;0.0027</b>	<b>&lt;0.0027</b>	<b>&lt;0.0027</b>
Dissolved Iron	mg/L	0.3				<b>&lt;0.017</b>	<b>&lt;0.017</b>	<b>&lt;0.017</b>	<b>0.196</b>	<b>&lt;0.017</b>	<b>&lt;0.017</b>	<b>0.264</b>	<b>&lt;0.017</b>
Dissolved Lead	mg/L	0.015		0.005		<b>&lt;0.00082</b>	<b>&lt;0.00082</b>	<b>&lt;0.00082</b>	<b>&lt;0.00082</b>	<b>&lt;0.00082</b>	<b>&lt;0.00082</b>	<b>&lt;0.00082</b>	<b>&lt;0.00082</b>
Dissolved Magnesium	mg/L					<b>54.7</b>	<b>54.6</b>	<b>43.4</b>	<b>38.4</b>	<b>30.7</b>	<b>1.76</b>	<b>40.9</b>	<b>53.9</b>
Dissolved Manganese	mg/L		0.05		0.1	<b>0.00633</b>	<b>0.00637</b>	<b>0.032</b>	<b>0.0134</b>	<b>&lt;0.0013</b>	<b>&lt;0.0013</b>	<b>0.0122</b>	<b>1.88</b>
Dissolved Selenium	mg/L	0.05		0.011	0.03	<b>&lt;0.0022</b>	<b>&lt;0.0022</b>	<b>&lt;0.0022</b>	<b>&lt;0.0022</b>	<b>&lt;0.0022</b>	<b>&lt;0.0022</b>		
Dissolved Zinc	mg/L		5		2	<b>0.0486</b>	<b>0.0373</b>	<b>0.0489</b>	<b>0.0408</b>	<b>0.0507</b>	<b>0.161</b>	<b>0.033</b>	<b>0.0393</b>

Blank = not analyzed

Detections are in **BOLD**

\* - Except for Dissolved Boron, the data for the City of Sartell wells was not collected as part of the DeZurik Hazardous Waste Lagoon monitoring program, but has been included herein for context.

TABLE 2

DEZURIK HAZARDOUS WASTE LAGOON #3  
SARTELL, MINNESOTA

2006 Water Quality Data Summary

Analyte	Units	MCL (mg/L)	SMCL (mg/L)	IL (mg/L)	HRL (mg/L)	P-6* 11-Apr-06	P-7* 11-Apr-06	P-10* 11-Apr-06	P-11A* 11-Apr-06
Total Organic Carbon	mg/L								
Chloride	mg/L		250			21.8	13.4	6.26	11.1
Specific Conductance	umhos/cm					657	1140	789	1960
Chemical Oxygen Demand	mg/L								
pH	su		6.5-8.5			7.5	7.4	7.2	7.0
Total Phenols	mg/L								
Sodium	mg/L					11.9	117	16.7	70.0
Total Dissolved Solids	mg/L		500			533	913	508	1640
Sulfate	mg/L		250			31.3	226	17.3	688.0
Total Cyanide	mg/L	0.2			0.1				
Fluoride	mg/L	4	2						
Nitrate as Nitrogen	mg/L								
Dissolved Arsenic	mg/L	0.01		0.0125		<0.00042	<0.00042	<0.00042	<0.00042
Dissolved Barium	mg/L	2		0.375	2				
Dissolved Boron	mg/L				0.6	<0.058	0.309	0.0649	6.23
Dissolved Cadmium	mg/L	0.005		0.0125	0.004	<0.00013	<0.00013	<0.00013	<0.00013
Dissolved Calcium	mg/L					99	114	113	268
Dissolved Chromium	mg/L	0.1		0.03	0.02	<0.0027	0.00296	<0.0027	<0.0027
Dissolved Iron	mg/L		0.3			0.194	<0.017	<0.017	<0.017
Dissolved Lead	mg/L	0.015		0.005		<0.00082	<0.00082	<0.00082	<0.00082
Dissolved Magnesium	mg/L					29.9	37.5	29.1	114.0
Dissolved Manganese	mg/L	0.05	0.05		0.1	0.229	<0.0013	0.00617	0.0315
Dissolved Selenium	mg/L	0.05		0.011	0.03				
Dissolved Zinc	mg/L		5		2	0.0257	0.026	<0.0029	<0.0029

Blank = not analyzed

Detections are in **BOLD**

\* - Except for Dissolved Boron, the data for the City of Sartell wells was not collected as part of the DeZurik Hazardous Waste Lagoon monitoring program, but has been included herein for context.



**TABLE 3**  
**Summary of Analytical and Statistical Analysis Results**  
**DeZurik Hazardous Waste Lagoon No. 3**  
**(units = µg/L, dissolved)**

WELL NUMBER	DATE	ARSENIC	BARIUM	CADMIUM	LEAD	SELENIUM
P-5A	12/27/1989	ND	50	ND	ND	ND
P-5A	6/28/1990	ND	ND	0.5	5	ND
P-5A	10/4/1990	ND	110	ND	ND	ND
P-5A	12/18/1990	ND	80	ND	ND	ND
P-5A	4/4/1991	ND	60	0.4	ND	ND
P-5A	8/1/1991	ND	67	ND	ND	ND
P-5A-1	10/31/1991	ND	63	0.32	ND	ND
P-5A-2	10/31/1991	ND	60	0.43	ND	ND
P-5A-3	10/31/1991	ND	62	0.38	ND	ND
P-5A-4	10/31/1991	ND	62	0.55	ND	ND
P-5A	4/23/1992	ND	56	ND	ND	ND
P-5A	9/30/1992	ND	ND	ND	ND	ND
P-5A	4/20/1993	ND	ND	ND	ND	ND
P-5R	10/27/1993	ND	78	1.4	ND	ND
P-5R	1/10/1994	--	ND	--	--	--
P-5R	4/20/1994	ND	ND	ND	ND	<6.02
P-5R	10/17/1994	ND	ND	ND	ND	ND
P-5R	4/11/1995	ND	ND	ND	ND	ND
P-5R	10/11/1995	ND	52	ND	ND	ND
P-5R	4/17/1996	ND	ND	ND	ND	ND
P-5R	10/16/1996	< 3.0	ND	0.36	< 3.0	< 3.0
P-5R	4/17/1997	< 3.0	50	< 0.30	< 3.0	< 3.0
P-5R	10/16/1997	<3.0	ND	<0.30	<3.0	<3.0
P-5R	4/13/1998	<2	16	<0.2	<1	<3
P-5R	10/6/1998	<2	33	<0.2	<1	<3
P-5R	4/27/1999	<2	131	<0.2	<1	<1
P-5R	10/27/1999	<2	210*	<0.2	<1	<1
P-5R	4/24/2000	<2	204	<0.2	<1	<1
P-5R	10/23/2000	<2	183	<0.2	<1	<1
P-5R	4/18/2001	<10	79	<1	<10	10
P-5R Resample	7/26/2001	<5	66	<0.5	<2	<5
P-5R Resample Dup	7/26/2001	<5	71	<0.5	<2	<5
P-5R	10/23/2001	<5	49	<0.5	<2	<5
P-5R	4/29/2002	7	50	<0.5	<2	5
P-5R	10/16/2002	<1	53	<2	<0.5	<1
P-5R	4/15/2003	<1	54	<0.2	<0.5	1.44
P-5R	10/7/2003	<5	54	<0.1	<0.5	<0.5
P-5R	4/27/2004	<0.5	60	<0.1	<0.5	0.89
P-5R	10/12/2004	0.77	66	<0.1	<0.5	2.62
P-5R	4/27/2005	0.66	69	<0.1	<0.5	1.2
P-5R	10/12/2005	0.61	74	<0.1	<0.5	<5
P-5R (DUP)	10/12/2005	0.67	74	<0.1	<0.5	<5
P-5R	4/11/2006	<0.42	83.7	<0.13	<0.82	<2.2
P-5R (DUP)	4/11/2006	<0.42	79.3	<0.13	<0.82	<2.2
P-9R	4/4/1991	ND	ND	ND	ND	ND
P-9R	8/1/1991	ND	ND	ND	ND	ND
P-9R-1	10/31/1991	ND	ND	ND	ND	ND
P-9R-2	10/31/1991	ND	ND	ND	ND	ND
P-9R-3	10/31/1991	ND	ND	0.3	ND	ND
P-9R-4	10/31/1991	ND	ND	ND	ND	ND

**TABLE 3**  
**Summary of Analytical and Statistical Analysis Results**  
**DeZurik Hazardous Waste Lagoon No. 3**  
**(units = µg/L, dissolved)**

WELL NUMBER	DATE	ARSENIC	BARIUM	CADMIUM	LEAD	SELENIUM
P-9R	4/23/1992	ND	ND	0.19	ND	ND
P-9R	9/30/1992	ND	ND	ND	ND	ND
P-9R	4/20/1993	ND	ND	ND	ND	ND
P-9R	10/27/1993	ND	ND	0.7	ND	ND
P-9R	4/20/1994	ND	ND	ND	ND	<6.02
P-9R	10/17/1994	ND	ND	ND	ND	ND
P-9R	4/11/1995	ND	ND	ND	ND	ND
P-9R	10/10/1995	ND	ND	ND	ND	ND
P-9R	4/17/1996	ND	ND	ND	ND	ND
P-9R	10/16/1996	< 3.0	ND	< 0.30	< 3.0	< 3.0
P-9R	4/16/1997	< 3.0	53	< 0.30	< 3.0	< 3.0
P-9R	10/15/1997	<3.0	61	1.4	<3.0	<3.0
P-9R	4/10/1998	<2	17	0.7	2	<3
P-9R	10/6/1998	<2	46	<0.2	<1	<3
P-9R	4/27/1999	<2	191	<0.2	1.4	<1
P-9R	10/27/1999	<2	126*	0.35	<1	<1
P-9R	4/25/2000	<2	99	0.26	<1	<1
P-9R	10/23/2000	<2	115	<0.2	<1	<1
P-9R	4/18/2001	<10	80	<1	<10	10
P-9R Resample	7/25/2001	<5	79	<0.5	<2	<5
P-9R	10/23/2001	<5	70	<0.5	<2	<5
P-9R	4/29/2002	10	70	<0.5	<2	<5
P-9R	10/16/2002	<1	62	<0.2	<0.5	1.54
P-9R	4/15/2003	<1	69	<0.2	<0.5	1.81
P-9R	10/7/2003	<0.5	72	<0.1	<0.5	<0.5
P-9R	4/27/2004	<0.5	64	<0.1	<0.5	<0.5
P-9R	10/12/2004	<0.5	73	0.1	<0.5	2.08
P-9R	4/27/2005	0.51	76	0.41	<0.5	0.88
P-9R	10/12/2005	<0.5	79	0.25	<0.5	<5
P-9R	4/11/2006	<0.42	102	0.273	<0.82	<2.2
P-12	4/4/1991	ND	ND	ND	ND	ND
P-12	8/1/1991	ND	ND	0.32	ND	ND
P-12-1	10/31/1991	ND	ND	0.31	ND	ND
P-12-2	10/31/1991	ND	ND	0.33	ND	ND
P-12-3	10/31/1991	ND	ND	ND	ND	ND
P-12-4	10/31/1991	ND	ND	ND	ND	ND
P-12	4/23/1992	ND	ND	ND	ND	ND
P-12	9/30/1992	ND	ND	ND	ND	ND
P-12	4/20/1993	ND	ND	ND	ND	ND
P-12R	10/27/1993	ND	ND	13	ND	ND
P-12R	1/10/1994	--	--	ND	--	--
P-12R	4/20/1994	ND	ND	ND	ND	<6.02
P-12R	10/17/1994	ND	ND	ND	ND	ND
P-12R	4/11/1995	ND	ND	ND	ND	ND
P-12R	10/10/1995	ND	ND	ND	5.2	ND
P-12R	4/17/1996	ND	ND	ND	ND	ND
P-12R	10/16/1996	< 3.0	ND	0.63	< 3.0	< 3.0
P-12R	4/17/1997	< 3.0	ND	< 0.30	< 3.0	< 3.0
P-12R	10/16/1997	<3.0	ND	<0.30	<3.0	<3.0
P-12R	4/13/1998	<2	9	<0.2	<1	<3
P-12R	10/6/1998	<2	30	<0.2	<1	<3

**TABLE 3**  
**Summary of Analytical and Statistical Analysis Results**  
**DeZurik Hazardous Waste Lagoon No. 3**  
**(units = µg/L, dissolved)**

WELL NUMBER	DATE	ARSENIC	BARIIUM	CADMIUM	LEAD	SELENIUM
P-12R	4/27/1999	<2	54	<0.2	<1	<1
P-12R	10/27/1999	<2	159*	<0.2	<1	<1
P-12R	4/25/2000	<2	135	<0.2	1.1	<1
P-12R	10/24/2000	<2	185	<0.2	<1	<1
P-12R	4/18/2001	<10	60	<1	<10	<10
P-12R Resample	7/26/2001	<5	64	<0.5	<2	<5
P-12R	10/23/2001	<5	37	<0.5	<2	<5
P-12R	4/29/2002	9	50	<0.5	<2	10
P-12R	10/16/2002	<1	60	<0.2	<0.5	6.28
P-12R	4/15/2003	<1	49	<0.2	<0.5	3.88
P-12R	10/7/2003	<0.5	57	<0.1	<0.5	2.35
P-12R	4/27/2004	<0.5	57	<0.1	<0.5	0.72
P-12R	10/12/2004	<0.5	63	<0.1	<0.5	3.2
P-12R	4/27/2005	0.59	60	<0.1	<0.5	1.3
P-12R	10/12/2005	<0.5	67	<0.1	<0.5	<5
P-12R	4/11/2006	<0.42	71.6	<0.13	<0.82	<2.2
P-13	6/28/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	6/28/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	6/28/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	6/28/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	10/4/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	10/4/1990	< 3.0	60	< 0.3	< 3.0	< 3.0
P-13B	10/4/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	10/4/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	12/18/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	12/18/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	12/18/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13D	12/18/1990	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	4/4/1991	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	8/1/1991	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-1	10/31/1991	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-2	10/31/1991	< 3.0	< 50	0.88	< 3.0	< 3.0
P-13-3	10/31/1991	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-4	10/31/1991	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-1	4/23/1992	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-2	4/23/1992	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-3	4/23/1992	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-4	4/23/1992	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	9/30/1992	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-1	10/8-9/92	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-2	10/8-9/92	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13-3	10/8-9/92	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	4/20/1993	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	4/20/1993	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	4/20/1993	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13D	4/20/1993	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	10/29/1993	< 3.0	< 50	3.3*	< 3.0	< 3.0
P-13B	10/29/1993	< 3.0	< 50	5.5*	< 3.0	< 3.0
P-13C	10/29/1993	< 3.0	< 50	3.9*	< 3.0	< 3.0
P-13D	10/29/1993	< 3.0	< 50	17*	< 3.0	< 3.0
P-13	4/20/1994	< 3.0	< 50	< 0.3	< 3.0	< 6.02

**TABLE 3**  
**Summary of Analytical and Statistical Analysis Results**  
**DeZurik Hazardous Waste Lagoon No. 3**  
**(units = µg/L, dissolved)**

WELL NUMBER	DATE	ARSENIC	BARIUM	CADMIUM	LEAD	SELENIUM
P-13A	4/20/1994	< 3.0	< 50	< 0.3	< 3.0	< 6.02
P-13B	4/20/1994	< 3.0	< 50	0.31	< 3.0	< 6.02
P-13C	4/20/1994	< 3.0	< 50	< 0.3	< 3.0	< 6.02
P-13	10/17/1994	< 3.0	54	< 0.3	< 3.0	< 3.0
P-13A	10/18/1994	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	10/18/1994	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	10/18/1994	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	4/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	4/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	4/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	4/12/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	10/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	10/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	10/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	10/11/1995	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	4/17/1996	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13A	4/17/1996	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13B	4/17/1996	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13C	4/17/1996	< 3.0	< 50	< 0.3	< 3.0	< 3.0
P-13	10/16/1996	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13A	10/16/1996	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13B	10/17/1996	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13C	10/17/1996	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13	4/16/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13A	4/17/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13B	4/17/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13C	4/17/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13	10/15/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13A	10/16/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13B	10/16/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13C	10/16/1997	< 3.0	< 50	< 0.30	< 3.0	< 3.0
P-13A	4/9/1998	< 2	< 6	< 0.2	< 1	< 3
P-13B	4/10/1998	< 2	< 6	< 0.2	< 1	< 3
P-13C	4/10/1998	2.2	< 6	< 0.2	< 1	< 3
P-13D	4/13/1998	< 2	< 6	< 0.2	< 1	< 3
P-13A	10/5/1998	< 2	27	< 0.2	< 1	< 3
P-13B	10/5/1998	< 2	101	< 0.2	< 1	< 3
P-13C	10/6/1998	< 2	180	< 0.2	< 1	< 3
P-13D	10/6/1998	< 2	135	< 0.2	< 1	< 3
P-13A	4/26/1999	< 2	66	< 0.2	< 1	< 1
P-13B	4/26/1999	< 2	178	< 0.2	< 1	< 1
P-13C	4/27/1999	< 2	114	< 0.2	< 1	< 1
P-13D	4/27/1999	< 2	151	< 0.2	< 1	< 1
P-13A	10/26/1999	< 2	95*	< 0.2	< 1	< 1
P-13B	10/27/1999	< 2	300*	< 0.2	< 1	< 1
P-13C	10/27/1999	< 2	196*	< 0.2	< 1	< 1
P-13D	10/27/1999	< 2	229*	< 0.2	< 1	< 1
P-13A	4/24/2000	< 2	156	< 0.2	< 1	< 1
P-13A	10/23/2000	< 2	115	< 0.2	< 1	< 1
P-13	4/18/2001	< 10	43	< 1	< 10	< 10
P-13Dup	4/18/2001	< 10	43	< 1	< 10	< 10
P-13 Resample	7/26/2001	< 5	42	< 0.5	< 2	< 5
P-13	10/23/2001	< 5	38	< 0.5	< 2	< 5

**TABLE 3**  
**Summary of Analytical and Statistical Analysis Results**  
**DeZurik Hazardous Waste Lagoon No. 3**  
**(units = µg/L, dissolved)**

WELL NUMBER	DATE	ARSENIC	BARIUM	CADMIUM	LEAD	SELENIUM
P-13Dup	10/23/2001	<5	37	<0.5	<2	<5
P-13	4/29/2002	10	40	<0.5	<2	<5
P-13Dup	4/29/2002	10	40	<0.5	<2	<5
P-13	10/16/2002	<1	37	<0.2	<0.5	<1
P-13 Dup	10/16/2002	<1	36	<0.2	<0.5	<1
P-13	4/15/2003	<1	38	<0.2	<0.5	1.22
P-13 DUP	4/15/2003	<1	37	<0.2	<0.5	1.23
P-13	10/7/2003	<0.5	42	<0.1	<0.5	<0.5
P-13 DUP	10/7/2003	<0.5	40	<0.1	<0.5	<0.5
P-13	4/27/2004	<0.5	36	<0.1	<0.5	<0.5
P-13 DUP	4/27/2004	<0.5	35	<0.1	<0.5	<0.5
P-13	10/12/2004	0.52	37	<0.1	<0.5	1.22
P-13 Dup	10/12/2004	0.5	37	<0.1	<0.5	1.27
P-13	4/27/2005	0.71	40	<0.1	<0.5	0.63
P-13 Dup	4/27/2005	0.65	42	<0.1	<0.5	0.72
P-13	10/12/2005	<0.5	44	<0.1	<0.5	<5
P-13	4/11/2006	<0.42	76.4	0.415	<0.82	<2.2

Regulatory Limits:

MCL:	50	2000	5	15	50
SMCL:	N/A	N/A	N/A	N/A	N/A
HRL:	N/A	2000	4	N/A	30
IL:	12.5	375	1.25	5	11

Background Detection limit\*\*

Background Mean#

Background Standard deviation#

K<sub>0.95</sub>

Tolerance level#\*\*

3	50	0.3	3	3
3	41	0.307	3	3
1.732	9.754	0.554	1.732	1.732
2.523	2.523	2.523	2.523	2.523
7.4	66	1.7	7.4	7.4

ND Not detected.

-- Not measured.

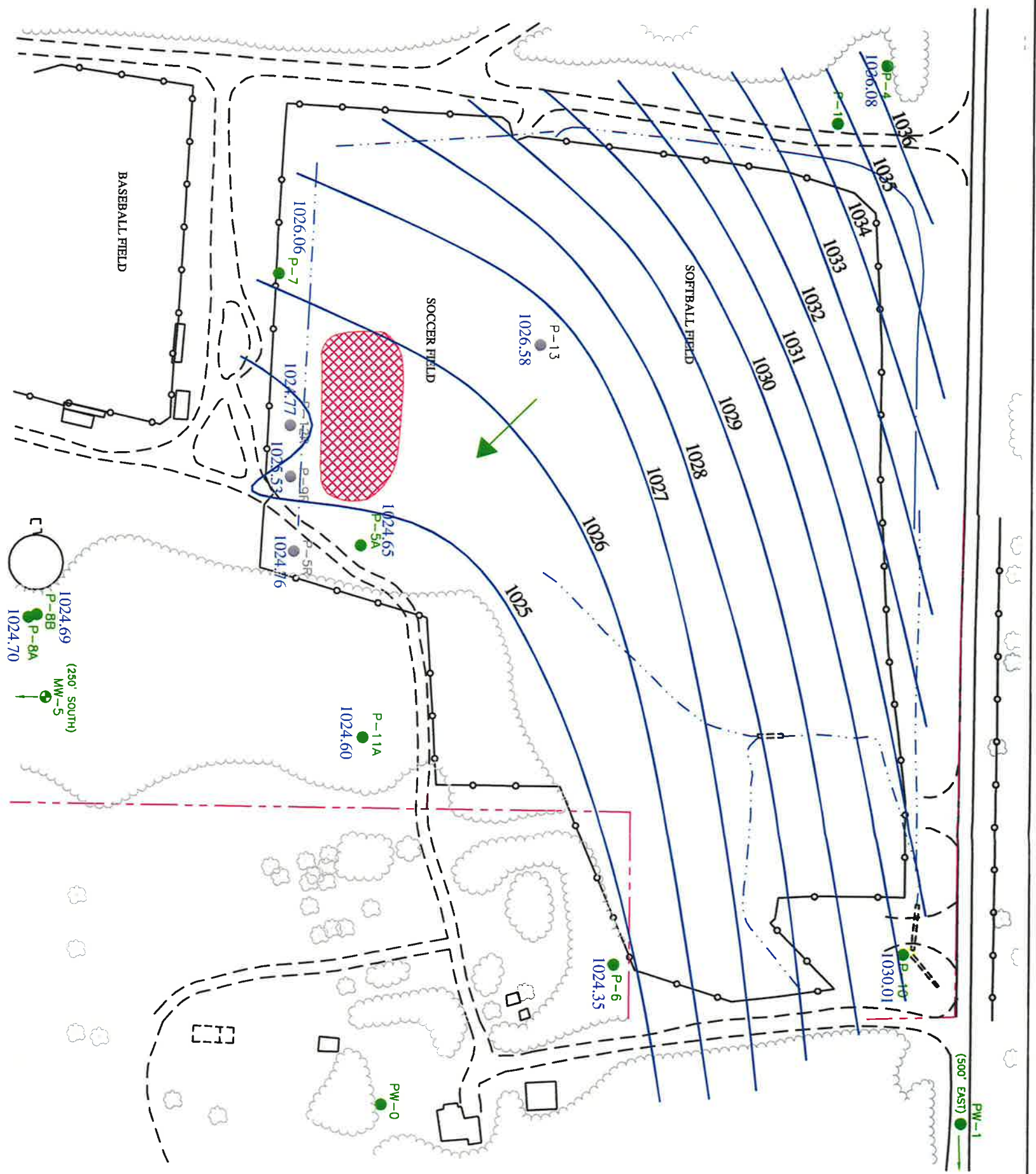
# The Poisson Distribution method was used for calculating the mean and standard deviation for background constituents with two or less reported results above the detection limit. For background constituents with three or more results above the detection limit, the arithmetic mean and standard deviation is calculated.

\* Data collected is considered suspect.

\*\* In 1998, new analytical equipment allowed the laboratory to obtain lower detection limits than that obtained in previous sampling years. These detection limits are lower than those required in the August 1994 Part B Permit Application for evaluating compliance of wells. Where the reported detection limit is lower than the required detection limit, the required detection limit is used for calculating the tolerance level to maintain continuity in evaluating compliance.

Note: The sample size for background is kept at 16 based on page 15 of August 1994 Part B Permit Application. Use the last 4 quarters of background data.

**FIGURE**



- LEGEND**
- - - PROPERTY BOUNDARIES
  - APPROXIMATE LIMITS OF LAGOON
  - SARTELL LANDFILL WELL LOCATIONS
  - DEZURIK LAGOON WELL LOCATIONS
  - FENCE
  - TREES AND TOWER LINE
  - 1024.35 GROUNDWATER ELEVATION
  - 1030 — GROUNDWATER CONTOUR
  - ➔ GROUNDWATER FLOW DIRECTION



DATE	REVISED
7/7/05	M. Karstens



**LEGGETTE, BRASHEARS & GRAHAM, INC.**  
 Professional Ground-Water  
 and Environmental Services  
 140 East Hinks Lane, Suite 126  
 Sioux Falls, South Dakota 57104  
 (605) 334-6000

City of Sartell Landfill & DeZurik Hazardous Waste Lagoon  
 Sartell, Minnesota

GROUND-WATER ELEVATIONS AND INFERRED FLOW DIRECTION (11 APR 06)

FILE: Sar-Dez Site Map.dwg      DATE: July 2001      FIGURE: 1

**APPENDIX I**

**Field Sampling Data Sheets**



FLUID-LEVEL DATA SHEET

APR 17 2006

DATE: 4.11.06  
 CLIENT NAME: DEZURIK LANDFILL LAGOON #3  
 CLIENT CODE: 6SARBT  
 JOB CODE: DESHWL  
 RECORDED BY: CMH

LOCATION: 12 TH ST N, SARTELL, MN  
 WEATHER CONDITIONS: OVERCAST WINDY 70°  
 MEASURING DEVICE: SOLINST

WELL	DEPTH TO HYDROCARBON	DEPTH TO WATER	ELEVATION TOC	ELEVATION WATER	PRODUCT THICKNESS	FLOW THROUGH D.O.
P-5R		74.28				0.4
P-9R		77.45				0.3
P-12R		76.56				2.9
P-13		78.54				1.9

DAILY ACTIVITY LOG

7:07	DEPARTURE
8:00	ARRIVAL ON SITE
8:01	FLUID LEVELS SELECT SARTELL WELLS (P-4, P-8A, P-8B + P-10)
8:30	SAMPLING - PUMP BLANK (ALL PARAMETERS) P-13, P-5R, P-9R, P-12R
12:53	COMPLETE SAMPLING
	- SEVERAL WELLS, FROM SARTELL LANDFILL, WILL BE SAMPLED FOR DISSOLVED BORON TODAY AND TOMMORROW AND REPORTED UNDER DEZURIK.
	- ALL SAMPLES COLLECTED THROUGH DC PUMP AND DEDICATED TUBING.
	- TUBING LEFT HANGING IN EACH WELL
	- PUMP BLANK COLLECTED THROUGH PUMP + TUBING
	- DUPLICATE SAMPLE P-5R ALL PARAMETERS
	- D.O. MEASUREMENTS THROUGH "FLOW THROUGH" CELL, NOT DOWN HOLE
	- ALL METALS SAMPLES COLLECTED THROUGH IN-LINE FILTERS (NOT PREVIOUSLY USED)
1300	SAMPLING SARTELL WELLS
1600	COMPLETE SARTELL WELL SAMPLING
1605	DEPARTURE FROM SITE
1635	ARRIVAL AT FEDEX SAMPLE SHIPMENT TO TEST AMERICA CEDAR FALLS

## GROUND-WATER SAMPLING DATA SHEET

Client Code: <b>6SARBT</b>	Project Title: <b>DEZURIK LANDFILL LAGOON #3</b>
Job Code: <b>DESHWL</b>	Address: <b>12TH ST N</b>
Date: <b>4-11-06</b>	City, State, Zip: <b>SARTELL, MN.</b>

General Data	Stabilization Data						
Location ID:	Volume (gallons)	Well Volume	Temp (C)	ORP (mV)	SC (uS)	pH	D.O. Flow through
<b>P-5R</b>	5.00	1.0	11.9	168	1297	6.68	0.4
Key Number: <b>10G013</b>	9.50	2.0	11.6	152	1303	6.70	0.4
Casing Diameter (in): <b>4"</b>	14.00	3.0	11.6	136	1296	6.68	0.4
Well Depth (ft): <b>81.35 TD TOC</b>	18.50	4.0	11.6	125	1294	6.67	0.4
Depth to water (ft): <b>74.28</b>							
Column length (ft): <b>7.07</b>							
Column volume (gal): <b>4.62</b>							
Total volume purged(gal): <b>18.50</b>							

### Miscellaneous

Purge Method: **DC PUMP**

Sampling Method: **DC PUMP**

Analysis Requested: **Dissolved metals, CL, FL, NO3, SO4, COD, Cyanide, Phenols, TOC, TDS, pH, Conductivity**

Weather Conditions: **OVERCAST WINDY 68°**

Sample Description: **SUBMIT SAMPLE RUST TINT, NO O2 OR**

Remarks: **DUPLICATE SAMPLE ALL PARAMETERS**

Sampler: **CMH**      Time Sample Collected: **1045**

**Leggette, Brashears & Graham, Inc.**  
 8 Pine Tree Drive, Suite 250  
 St. Paul, Minnesota 55112

## GROUND-WATER SAMPLING DATA SHEET

Client Code: **6SARBT**

Project Title: **DEZURIK LANDFILL LAGOON #3**

Job Code: **DESHWL**

Address: **12TH ST N**

Date: **4.11.06**

City, State, Zip: **SARTELL, MN.**

### General Data

### Stabilization Data

Location ID:	Volume (gallons)	Well Volume	Temp (C)	ORP (mV)	SC (uS)	pH	D.O. Flow through
<b>P-9R</b>							
Key Number: <b>10G013</b>	<b>6.00</b>	<b>1.0</b>	<b>11.2</b>	<b>108</b>	<b>968</b>	<b>7.19</b>	<b>0.3</b>
Casing Diameter (in): <b>4"</b>	<b>11.50</b>	<b>2.0</b>	<b>11.1</b>	<b>112</b>	<b>1021</b>	<b>6.91</b>	<b>0.2</b>
Well Depth (ft): <b>86.00 TD TOC</b>	<b>17.00</b>	<b>3.0</b>	<b>11.1</b>	<b>110</b>	<b>1028</b>	<b>6.78</b>	<b>0.2</b>
Depth to water (ft): <b>77.45</b>	<b>22.50</b>	<b>4.0</b>	<b>11.0</b>	<b>108</b>	<b>1033</b>	<b>6.75</b>	<b>0.3</b>
Column length (ft): <b>8.55</b>	<b>28.00</b>	<b>5.0</b>	<b>11.0</b>	<b>106</b>	<b>1033</b>	<b>6.74</b>	<b>0.3</b>
Column volume (gal): <b>5.58</b>							
Total volume purged (gal): <b>28.00</b>							

### Miscellaneous

Purge Method: **DC PUMP**

Sampling Method: **DC PUMP**

Analysis Requested: **Dissolved metals, CL, FL, NO3, SO4, COD, Cyanide, Phenols, TOC, TDS, pH, Conductivity**

Weather Conditions: **overcast windy 69°**

Sample Description: **CLEAR NO ODOMOR**

Remarks:

Sampler: **CMH**

Time Sample Collected: **1149**

**Leggette, Brashears & Graham, Inc.**  
**8 Pine Tree Drive, Suite 250**  
**St. Paul, Minnesota 55112**

## GROUND-WATER SAMPLING DATA SHEET

Client Code: 6SARBT

Project Title: DEZURIK LANDFILL LAGOON #3

Job Code: DESHWL

Address: 12TH ST N

Date:

4.11.06

City, State, Zip: SARTELL, MN.

### General Data

### Stabilization Data

Location ID:	Volume (gallons)	Well Volume	Temp (C)	ORP (mV)	SC (uS)	pH	D.O. Flow through
P-12R	7.00	1.0	11.0	109	984	6.87	2.4
Key Number: 10G013	13.50	2.0	10.9	55	982	6.89	2.9
Casing Diameter (in): 4"	20.50	3.0	10.9	46	981	6.88	2.9
Well Depth (ft): 86.80 TD TOC							
Depth to water (ft): 76.56							
Column length (ft): 10.24							
Column volume (gal): 6.69							
Total volume purged (gal): 20.50							

### Miscellaneous

Purge Method: DC PUMP

Sampling Method: DC PUMP

Analysis Requested: Dissolved metals, CL, FL, NO3, SO4, COD, Cyanide, Phenols, TOC, TDS, pH, Conductivity

Weather Conditions: P. Cloudy, Windy, 69°

Sample Description: CLEAR, NO ODOOR

Remarks:

Sampler: CMH

Time Sample Collected: 1242

**Leggette, Brashears & Graham, Inc.**  
8 Pine Tree Drive, Suite 250  
St. Paul, Minnesota 55112

## GROUND-WATER SAMPLING DATA SHEET

Client Code: 6SARBT

Project Title: DEZURIK LANDFILL LAGOON #3

Job Code: DESHWL

Address: 12TH ST N

Date: 4.11.06

City, State, Zip: SARTELL, MN.

### General Data

### Stabilization Data

Location ID:	Volume (gallons)	Well Volume	Temp (C)	ORP (mV)	SC (uS)	pH	D.O. Flow through
P-13	6.00	1.0	11.7	103	745	6.90	1.8
Key Number: 10G013	11.00	2.0	11.8	105	746	6.77	1.8
Casing Diameter (in): 4"	16.50	3.0	11.7	103	745	6.78	1.9
Well Depth (ft): 86.90 TD TOC	22.00	4.0	11.7	101	758	6.79	1.9
Depth to water (ft): 78.54							
Column length (ft): 8.36							
Column volume (gal): 5.46							
Total volume purged(gal): 22.00							

### Miscellaneous

Purge Method: DC PUMP

Sampling Method: DC PUMP

Analysis Requested: Dissolved metals, CL, FL, NO3, SO4, COD, Cyanide, Phenols, TOC, TDS, pH, Conductivity

Weather Conditions: P. CLOUDY 67° WINDY

Sample Description: CLEAR NO ODOOR

Remarks: ~~BAKED BLANK~~ (ACTUALLY PUMP BLANK) COLLECTED BEFORE THIS WELL (840)  
PUMP

Sampler: CMH

Time Sample Collected: 9:53

**Leggette, Brashears & Graham, Inc.**  
8 Pine Tree Drive, Suite 250  
St. Paul, Minnesota 55112









**APPENDIX II**

**Laboratory Analytical Results**

May 01, 2006

MAY - 4 2006

## Client:

LBG - SIOUX FALLS - LANDFILLS  
140 East Hinks Lane, #126  
Sioux Falls, SD 57104

Work Order: CPD0596  
Project Name: DeZurik Landfill  
Project Number: DeZurik Landfill

Attn: Melissa Karstens

Date Received: 04/12/06

An executed copy of the chain of custody is also included as an addendum to this report

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(800)750-2401

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
P-5R	CPD0596-01	04/11/06 10:45
P-9R	CPD0596-02	04/11/06 11:49
P-12R	CPD0596-03	04/11/06 12:42
Pump Blank	CPD0596-04	04/11/06 08:40
P-13	CPD0596-05	04/11/06 09:53
Duplicate	CPD0596-06	04/11/06
P-7	CPD0596-07	04/11/06 13:17
P-5A	CPD0596-08	04/11/06 14:05
PW-0	CPD0596-09	04/11/06 15:10
P-6	CPD0596-10	04/11/06 15:26
P-10	CPD0596-11	04/11/06 09:40
P-11A	CPD0596-12	04/11/06 10:31

EPA 335.3 analysis performed at Lab ID: 047-999-345

Most environmental analytical testing methods require a sample temperature of 4 degrees C +/- 2 degrees C for preservation of the sample constituents prior to analysis. If sample temperatures are outside of this temperature range at the time of sample receipt, results may be impacted. Please refer to the Temperature and Sample Receipt form that is included with this report for additional information regarding the condition of samples at the time of receipt by the laboratory.

The reported results were obtained in compliance with the 2003 NELAC standards unless otherwise noted

Minnesota Certification Number: 019-999-319

*Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.*

*TestAmerica Analytical Testing Corporation certifies that the analytical results contained herein apply only to the specific sample analyzed.*

Approved By:



TestAmerica Analytical - Cedar Falls  
Linda Cmelik  
Project Coordinator

LBG - SIOUX FALLS - LANDFILLS  
 140 East Hinks Lane, #126  
 Sioux Falls, SD 57104  
 Melissa Karstens

Work Order: CPD0596  
 Project: DeZurik Landfill  
 Project Number: DeZurik Landfill

Received: 04/12/06  
 Reported: 05/01/06 16:46

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Quan Limit	Dilution Factor	Date Analyzed	Seq/ Analyst	Batch	Method
<b>Sample ID: CPD0596-01 (P-5R - Ground Water)</b>										
<b>General Chemistry Parameters</b>										
Chloride	49.4		mg/L	0.310	5.00	1	04/14/06 10:05	lbb	6040597	SM 4500Cl E
pH	7.0	H3	pH Units	0.1	0.1	1	04/12/06 17:40	cah	6040498	EPA 150.1
Specific conductance	1320		umhos/cm	0.280	1.00	1	04/12/06 16:00	sas	6040576	SM 2510B
Sulfate	281		mg/L	18.0	100	10	04/18/06 08:14	lbb	6040779	ASTM D516-90
Total Dissolved Solids	948		mg/L	9.36	20.0	1	04/14/06 09:00	sas	6040704	SM2540C
Total Organic Carbon	3.18		mg/L	0.220	1.00	1	04/14/06 16:06	mdk	6040652	SW 9060
Chemical Oxygen Demand	5.10		mg/L	1.82	5.00	1	04/17/06 15:25	lbb	6040714	SM 5220D
Fluoride	0.470	J	mg/L	0.130	1.00	1.07	04/19/06 10:21	lbb	6040792	SM 4500F BC
Phenol	<0.000700		mg/L	0.000700	0.0200	0.984	04/14/06 14:57	lbb	6040607	EPA 420.2
Nitrate as N	5.36		mg/L	0.600	2.50	25	04/12/06 13:05	mdk	6040506	EPA 353.3
<b>Dissolved Metals by SW 846 Series Methods</b>										
Barium	0.0837		mg/L	0.000800	0.0100	1	04/21/06 16:56	llw	6040964	SW 6010B
Boron	1.91		mg/L	0.0580	0.100	1	04/21/06 16:56	llw	6040964	SW 6010B
Cadmium	<0.000130		mg/L	0.000130	0.000500	1	04/26/06 14:01	heh	6041118	SW 7131A
Calcium	186		mg/L	0.0200	1.00	1	04/21/06 16:56	llw	6040964	SW 6010B
Chromium	<0.00270		mg/L	0.00270	0.0200	1	04/21/06 16:56	llw	6040964	SW 6010B
Iron	<0.0170		mg/L	0.0170	0.100	1	04/21/06 16:56	llw	6040964	SW 6010B
Magnesium	54.7		mg/L	0.0180	1.00	1	04/21/06 16:56	llw	6040964	SW 6010B
Manganese	0.00633	J	mg/L	0.00130	0.0100	1	04/21/06 16:56	llw	6040964	SW 6010B
Selenium	<0.00220		mg/L	0.00220	0.00500	1	04/20/06 08:45	llw	6040854	SW 7740
Sodium	44.7		mg/L	0.0470	1.00	1	04/21/06 16:56	llw	6040964	SW 6010B
Zinc	0.0486		mg/L	0.00290	0.0200	1	04/21/06 16:56	llw	6040964	SW 6010B
Arsenic	<0.000420		mg/L	0.000420	0.00100	1	04/25/06 12:05	heh	6041055	SW 7060A
Lead	<0.000820		mg/L	0.000820	0.00400	1	04/20/06 17:03	lmc	6040934	SW 7421
<b>General Chemistry Parameters</b>										
Cyanide	<0.0020		mg/L	0.0020	0.0050	1	04/20/06 16:09	SAB	6043486	EPA 335.3
<b>Sample ID: CPD0596-02 (P-9R - Ground Water)</b>										
<b>General Chemistry Parameters</b>										
Chloride	49.4		mg/L	0.310	5.00	1	04/14/06 10:06	lbb	6040597	SM 4500Cl E
pH	7.1	H3	pH Units	0.1	0.1	1	04/12/06 17:40	cah	6040498	EPA 150.1
Specific conductance	1040		umhos/cm	0.280	1.00	1	04/12/06 16:00	sas	6040576	SM 2510B
Sulfate	132		mg/L	9.00	50.0	5	04/18/06 08:14	lbb	6040779	ASTM D516-90
Total Dissolved Solids	708		mg/L	9.36	20.0	1	04/14/06 09:00	sas	6040704	SM2540C
Total Organic Carbon	3.53		mg/L	0.220	1.00	1	04/14/06 16:06	mdk	6040652	SW 9060
Chemical Oxygen Demand	8.00		mg/L	1.82	5.00	1	04/17/06 15:25	lbb	6040714	SM 5220D
Fluoride	0.137	J	mg/L	0.130	1.00	0.917	04/19/06 10:21	lbb	6040792	SM 4500F BC
Phenol	0.00121	J	mg/L	0.000700	0.0200	0.944	04/14/06 15:03	lbb	6040607	EPA 420.2
Nitrate as N	4.79		mg/L	0.600	2.50	25	04/12/06 13:05	mdk	6040506	EPA 353.3
<b>Dissolved Metals by SW 846 Series Methods</b>										
Barium	0.102		mg/L	0.000800	0.0100	1	04/21/06 17:01	llw	6040964	SW 6010B
Boron	<0.0580		mg/L	0.0580	0.100	1	04/21/06 17:01	llw	6040964	SW 6010B
Cadmium	0.000273	J	mg/L	0.000130	0.000500	1	04/26/06 14:04	heh	6041118	SW 7131A
Calcium	157		mg/L	0.0200	1.00	1	04/21/06 17:01	llw	6040964	SW 6010B
Chromium	<0.00270		mg/L	0.00270	0.0200	1	04/21/06 17:01	llw	6040964	SW 6010B
Iron	<0.0170		mg/L	0.0170	0.100	1	04/21/06 17:01	llw	6040964	SW 6010B
Magnesium	43.4		mg/L	0.0180	1.00	1	04/21/06 17:01	llw	6040964	SW 6010B
Manganese	0.0320		mg/L	0.00130	0.0100	1	04/21/06 17:01	llw	6040964	SW 6010B
Selenium	<0.00220		mg/L	0.00220	0.00500	1	04/20/06 08:48	llw	6040854	SW 7740
Sodium	12.7		mg/L	0.0470	1.00	1	04/21/06 17:01	llw	6040964	SW 6010B

LBG - SIOUX FALLS - LANDFILLS  
 140 East Hinks Lane, #126  
 Sioux Falls, SD 57104  
 Melissa Karstens

Work Order: CPD0596  
 Project: DeZurik Landfill  
 Project Number: DeZurik Landfill

Received: 04/12/06  
 Reported: 05/01/06 16:46

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Quan Limit	Dilution Factor	Date Analyzed	Seq/ Analyst Batch	Method
<b>Sample ID: CPD0596-02 (P-9R - Ground Water) - cont.</b>					<b>Sampled: 04/11/06 11:49</b>		<b>Recvd: 04/12/06 09:22</b>		
Dissolved Metals by SW 846 Series Methods - cont.									
Zinc	0.0489		mg/L	0.00290	0.0200	1	04/21/06 17:01	llw 6040964	SW 6010B
Arsenic	<0.000420		mg/L	0.000420	0.00100	1	04/25/06 12:16	heh 6041055	SW 7060A
Lead	<0.000820		mg/L	0.000820	0.00400	1	04/20/06 17:10	lmc 6040934	SW 7421
General Chemistry Parameters									
Cyanide	<0.0020		mg/L	0.0020	0.0050	1	04/20/06 16:09	SAB 6043486	EPA 335.3
<b>Sample ID: CPD0596-03 (P-12R - Ground Water)</b>					<b>Sampled: 04/11/06 12:42</b>		<b>Recvd: 04/12/06 09:22</b>		
General Chemistry Parameters									
Chloride	47.5		mg/L	0.310	5.00	1	04/14/06 10:07	lbb 6040597	SM 4500Cl E
pH	7.2	H3	pH Units	0.1	0.1	1	04/12/06 17:40	cah 6040498	EPA 150.1
Specific conductance	996		umhos/cm	0.280	1.00	1	04/12/06 16:00	sas 6040576	SM 2510B
Sulfate	113		mg/L	9.00	50.0	5	04/18/06 08:14	lbb 6040779	ASTM D516-90
Total Dissolved Solids	684		mg/L	9.36	20.0	1	04/14/06 09:00	sas 6040704	SM2540C
Total Organic Carbon	2.99		mg/L	0.220	1.00	1	04/14/06 16:06	mdk 6040652	SW 9060
Chemical Oxygen Demand	3.20	J	mg/L	1.82	5.00	1	04/17/06 15:25	lbb 6040714	SM 5220D
Fluoride	<0.130		mg/L	0.130	1.00	0.95	04/19/06 10:21	lbb 6040792	SM 4500F BC
Phenol	<0.000700		mg/L	0.000700	0.0200	1	04/14/06 15:04	lbb 6040607	EPA 420.2
Nitrate as N	4.68		mg/L	0.600	2.50	25	04/12/06 13:05	mdk 6040506	EPA 353.3
Dissolved Metals by SW 846 Series Methods									
Barium	0.0716		mg/L	0.000800	0.0100	1	04/21/06 17:06	llw 6040964	SW 6010B
Boron	0.0870	J	mg/L	0.0580	0.100	1	04/21/06 17:06	llw 6040964	SW 6010B
Cadmium	<0.000130		mg/L	0.000130	0.000500	1	04/26/06 14:13	heh 6041118	SW 7131A
Calcium	147		mg/L	0.0200	1.00	1	04/21/06 17:06	llw 6040964	SW 6010B
Chromium	0.00280	J	mg/L	0.00270	0.0200	1	04/21/06 17:06	llw 6040964	SW 6010B
Iron	0.196		mg/L	0.0170	0.100	1	04/21/06 17:06	llw 6040964	SW 6010B
Magnesium	38.4		mg/L	0.0180	1.00	1	04/21/06 17:06	llw 6040964	SW 6010B
Manganese	0.0134		mg/L	0.00130	0.0100	1	04/21/06 17:06	llw 6040964	SW 6010B
Selenium	<0.00220		mg/L	0.00220	0.00500	1	04/20/06 08:51	llw 6040854	SW 7740
Sodium	22.5		mg/L	0.0470	1.00	1	04/21/06 17:06	llw 6040964	SW 6010B
Zinc	0.0408		mg/L	0.00290	0.0200	1	04/21/06 17:06	llw 6040964	SW 6010B
Arsenic	<0.000420		mg/L	0.000420	0.00100	1	04/25/06 12:19	heh 6041055	SW 7060A
Lead	<0.000820		mg/L	0.000820	0.00400	1	04/20/06 17:19	lmc 6040934	SW 7421
General Chemistry Parameters									
Cyanide	<0.0020		mg/L	0.0020	0.0050	1	04/20/06 16:09	SAB 6043486	EPA 335.3

LBG - SIOUX FALLS - LANDFILLS  
140 East Hinks Lane, #126  
Sioux Falls, SD 57104  
Melissa Karstens

Work Order: CPD0596  
Project: DeZurik Landfill  
Project Number: DeZurik Landfill

Received: 04/12/06  
Reported: 05/01/06 16:46

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Quan Limit	Dilution Factor	Date Analyzed	Seq/ Analyst	Batch	Method
<b>Sample ID: CPD0596-04 (Pump Blank - Ground Water)</b>										
<b>General Chemistry Parameters</b>										
Chloride	22.4		mg/L	0.310	5.00	1	04/14/06 10:07	lbb	6040597	SM 4500CI E
pH	7.8	H3	pH Units	0.1	0.1	1	04/12/06 17:40	cah	6040498	EPA 150.1
Specific conductance	548		umhos/cm	0.280	1.00	1	04/12/06 16:00	sas	6040576	SM 2510B
Sulfate	29.6		mg/L	1.80	10.0	1	04/18/06 08:14	lbb	6040779	ASTM D516-90
Total Dissolved Solids	350		mg/L	9.36	20.0	1	04/14/06 09:00	sas	6040704	SM2540C
Total Organic Carbon	1.22		mg/L	0.220	1.00	1	04/14/06 16:06	mdk	6040652	SW 9060
Chemical Oxygen Demand	<1.82		mg/L	1.82	5.00	1	04/17/06 15:25	lbb	6040714	SM 5220D
Fluoride	1.01		mg/L	0.130	1.00	1.07	04/19/06 10:21	lbb	6040792	SM 4500F BC
Phenol	<0.000633		mg/L	0.000633	0.0181	0.904	04/14/06 15:04	lbb	6040607	EPA 420.2
Nitrate as N	1.30	M1	mg/L	0.120	0.500	5	04/12/06 13:05	mdk	6040506	EPA 353.3
<b>Dissolved Metals by SW 846 Series Methods</b>										
Barium	0.00157	J	mg/L	0.000800	0.0100	1	04/21/06 17:26	llw	6040964	SW 6010B
Boron	<0.0580		mg/L	0.0580	0.100	1	04/21/06 17:26	llw	6040964	SW 6010B
Cadmium	<0.000130		mg/L	0.000130	0.000500	1	04/26/06 14:16	heh	6041118	SW 7131A
Calcium	4.48		mg/L	0.0200	1.00	1	04/21/06 17:26	llw	6040964	SW 6010B
Chromium	<0.00270		mg/L	0.00270	0.0200	1	04/21/06 17:26	llw	6040964	SW 6010B
Iron	<0.0170		mg/L	0.0170	0.100	1	04/21/06 17:26	llw	6040964	SW 6010B
Magnesium	1.76		mg/L	0.0180	1.00	1	04/21/06 17:26	llw	6040964	SW 6010B
Manganese	<0.00130		mg/L	0.00130	0.0100	1	04/21/06 17:26	llw	6040964	SW 6010B
Selenium	<0.00220		mg/L	0.00220	0.00500	1	04/20/06 08:54	llw	6040854	SW 7740
Sodium	97.6		mg/L	0.0470	1.00	1	04/21/06 17:26	llw	6040964	SW 6010B
Zinc	0.161		mg/L	0.00290	0.0200	1	04/21/06 17:26	llw	6040964	SW 6010B
Arsenic	<0.000420		mg/L	0.000420	0.00100	1	04/25/06 12:23	heh	6041055	SW 7060A
Lead	<0.000820		mg/L	0.000820	0.00400	1	04/20/06 17:23	lmc	6040934	SW 7421
<b>General Chemistry Parameters</b>										
Cyanide	<0.0020		mg/L	0.0020	0.0050	1	04/20/06 15:33	SAB	6043484	EPA 335.3
<b>Sample ID: CPD0596-05 (P-13 - Ground Water)</b>										
<b>General Chemistry Parameters</b>										
Chloride	32.9		mg/L	0.310	5.00	1	04/14/06 10:08	lbb	6040597	SM 4500CI E
pH	7.3	H3	pH Units	0.1	0.1	1	04/12/06 17:40	cah	6040498	EPA 150.1
Specific conductance	775		umhos/cm	0.280	1.00	1	04/12/06 16:00	sas	6040576	SM 2510B
Sulfate	51.6		mg/L	3.60	20.0	2	04/18/06 08:14	lbb	6040779	ASTM D516-90
Total Dissolved Solids	508		mg/L	9.36	20.0	1	04/14/06 09:00	sas	6040704	SM2540C
Total Organic Carbon	1.97		mg/L	0.220	1.00	1	04/14/06 16:06	mdk	6040652	SW 9060
Chemical Oxygen Demand	<1.82		mg/L	1.82	5.00	1	04/17/06 15:25	lbb	6040714	SM 5220D
Fluoride	0.130	J	mg/L	0.130	1.00	0.967	04/19/06 10:21	lbb	6040792	SM 4500F BC
Phenol	<0.000700		mg/L	0.000700	0.0200	0.992	04/14/06 15:05	lbb	6040607	EPA 420.2
Nitrate as N	4.52		mg/L	0.600	2.50	25	04/12/06 13:05	mdk	6040506	EPA 353.3
<b>Dissolved Metals by SW 846 Series Methods</b>										
Barium	0.0764		mg/L	0.000800	0.0100	1	04/21/06 17:31	llw	6040964	SW 6010B
Boron	0.114		mg/L	0.0580	0.100	1	04/21/06 17:31	llw	6040964	SW 6010B
Cadmium	0.000415	J	mg/L	0.000130	0.000500	1	04/26/06 14:19	heh	6041118	SW 7131A
Calcium	123		mg/L	0.0200	1.00	1	04/21/06 17:31	llw	6040964	SW 6010B
Chromium	<0.00270		mg/L	0.00270	0.0200	1	04/21/06 17:31	llw	6040964	SW 6010B
Iron	<0.0170		mg/L	0.0170	0.100	1	04/21/06 17:31	llw	6040964	SW 6010B
Magnesium	30.7		mg/L	0.0180	1.00	1	04/21/06 17:31	llw	6040964	SW 6010B
Manganese	<0.00130		mg/L	0.00130	0.0100	1	04/21/06 17:31	llw	6040964	SW 6010B
Selenium	<0.00220		mg/L	0.00220	0.00500	1	04/20/06 08:58	llw	6040854	SW 7740
Sodium	5.84		mg/L	0.0470	1.00	1	04/21/06 17:31	llw	6040964	SW 6010B

LBG - SIOUX FALLS - LANDFILLS  
 140 East Hinks Lane, #126  
 Sioux Falls, SD 57104  
 Melissa Karstens

Work Order: CPD0596  
 Project: DeZurik Landfill  
 Project Number: DeZurik Landfill

Received: 04/12/06  
 Reported: 05/01/06 16:46

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Quan Limit	Dilution Factor	Date Analyzed	Seq/ Analyst	Batch	Method
<b>Sample ID: CPD0596-05 (P-13 - Ground Water) - cont.</b>					<b>Sampled: 04/11/06 09:53</b>			<b>Recvd: 04/12/06 09:22</b>		
Dissolved Metals by SW 846 Series Methods - cont.										
Zinc	0.0507		mg/L	0.00290	0.0200	1	04/21/06 17:31	llw	6040964	SW 6010B
Arsenic	<0.000420		mg/L	0.000420	0.00100	1	04/25/06 12:26	heh	6041055	SW 7060A
Lead	<0.000820		mg/L	0.000820	0.00400	1	04/20/06 17:26	lmc	6040934	SW 7421
General Chemistry Parameters										
Cyanide	<0.0020		mg/L	0.0020	0.0050	1	04/20/06 15:33	SAB	6043484	EPA 335.3
<b>Sample ID: CPD0596-06 (Duplicate - Ground Water)</b>					<b>Sampled: 04/11/06</b>			<b>Recvd: 04/12/06 09:22</b>		
General Chemistry Parameters										
Chloride	49.6		mg/L	0.310	5.00	1	04/14/06 10:09	lbb	6040597	SM 4500Cl E
pH	7.0	H3	pH Units	0.1	0.1	1	04/12/06 17:40	cah	6040498	EPA 150.1
Specific conductance	1320		umhos/cm	0.280	1.00	1	04/12/06 16:00	sas	6040576	SM 2510B
Sulfate	288		mg/L	18.0	100	10	04/18/06 08:14	lbb	6040779	ASTM D516-90
Total Dissolved Solids	952		mg/L	9.36	20.0	1	04/14/06 09:00	sas	6040704	SM2540C
Total Organic Carbon	3.21		mg/L	0.220	1.00	1	04/14/06 16:06	mdk	6040652	SW 9060
Chemical Oxygen Demand	9.80		mg/L	1.82	5.00	1	04/17/06 15:26	lbb	6040715	SM 5220D
Fluoride	<0.130		mg/L	0.130	1.00	0.95	04/19/06 10:21	lbb	6040792	SM 4500F BC
Phenol	<0.000700		mg/L	0.000700	0.0200	0.936	04/14/06 15:06	lbb	6040607	EPA 420.2
Nitrate as N	4.83		mg/L	0.600	2.50	25	04/12/06 13:05	mdk	6040506	EPA 353.3
Dissolved Metals by SW 846 Series Methods										
Barium	0.0793		mg/L	0.000800	0.0100	1	04/21/06 17:36	llw	6040964	SW 6010B
Boron	1.92		mg/L	0.0580	0.100	1	04/21/06 17:36	llw	6040964	SW 6010B
Cadmium	<0.000130		mg/L	0.000130	0.000500	1	04/26/06 14:22	heh	6041118	SW 7131A
Calcium	185		mg/L	0.0200	1.00	1	04/21/06 17:36	llw	6040964	SW 6010B
Chromium	<0.00270		mg/L	0.00270	0.0200	1	04/21/06 17:36	llw	6040964	SW 6010B
Iron	<0.0170		mg/L	0.0170	0.100	1	04/21/06 17:36	llw	6040964	SW 6010B
Magnesium	54.6		mg/L	0.0180	1.00	1	04/21/06 17:36	llw	6040964	SW 6010B
Manganese	0.00637 J		mg/L	0.00130	0.0100	1	04/21/06 17:36	llw	6040964	SW 6010B
Selenium	<0.00220		mg/L	0.00220	0.00500	1	04/20/06 09:08	llw	6040854	SW 7740
Sodium	44.9		mg/L	0.0470	1.00	1	04/21/06 17:36	llw	6040964	SW 6010B
Zinc	0.0373		mg/L	0.00290	0.0200	1	04/21/06 17:36	llw	6040964	SW 6010B
Arsenic	<0.000420		mg/L	0.000420	0.00100	1	04/25/06 12:30	heh	6041055	SW 7060A
Lead	<0.000820		mg/L	0.000820	0.00400	1	04/20/06 17:29	lmc	6040934	SW 7421
General Chemistry Parameters										
Cyanide	<0.0020		mg/L	0.0020	0.0050	1	04/20/06 15:33	SAB	6043484	EPA 335.3

LBG - SIOUX FALLS - LANDFILLS  
 140 East Hinks Lane, #126  
 Sioux Falls, SD 57104  
 Melissa Karstens

Work Order: CPD0596  
 Project: DeZurik Landfill  
 Project Number: DeZurik Landfill

Received: 04/12/06  
 Reported: 05/01/06 16:46

## ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	Quan Limit	Dilution Factor	Date Analyzed	Seq/ Analyst	Batch	Method
<b>Sample ID: CPD0596-07 (P-7 - Ground Water)</b>					<b>Sampled: 04/11/06 13:17</b>			<b>Recvd: 04/12/06 09:22</b>		
Dissolved Metals by SW 846 Series Methods										
Boron	0.309		mg/L	0.0580	0.100	1	04/21/06 17:41	llw	6040964	SW 6010B
<b>Sample ID: CPD0596-08 (P-5A - Ground Water)</b>					<b>Sampled: 04/11/06 14:05</b>			<b>Recvd: 04/12/06 09:22</b>		
Dissolved Metals by SW 846 Series Methods										
Boron	1.21		mg/L	0.0580	0.100	1	04/21/06 17:52	llw	6040964	SW 6010B
<b>Sample ID: CPD0596-09 (PW-0 - Ground Water)</b>					<b>Sampled: 04/11/06 15:10</b>			<b>Recvd: 04/12/06 09:22</b>		
Dissolved Metals by SW 846 Series Methods										
Boron	0.839		mg/L	0.0580	0.100	1	04/21/06 18:02	llw	6040964	SW 6010B
<b>Sample ID: CPD0596-10 (P-6 - Ground Water)</b>					<b>Sampled: 04/11/06 15:26</b>			<b>Recvd: 04/12/06 09:22</b>		
Dissolved Metals by SW 846 Series Methods										
Boron	<0.0580		mg/L	0.0580	0.100	1	04/21/06 18:07	llw	6040964	SW 6010B
<b>Sample ID: CPD0596-11 (P-10 - Ground Water)</b>					<b>Sampled: 04/11/06 09:40</b>			<b>Recvd: 04/12/06 09:22</b>		
Dissolved Metals by SW 846 Series Methods										
Boron	0.0649 J		mg/L	0.0580	0.100	1	04/21/06 18:12	llw	6040964	SW 6010B
<b>Sample ID: CPD0596-12 (P-11A - Ground Water)</b>					<b>Sampled: 04/11/06 10:31</b>			<b>Recvd: 04/12/06 09:22</b>		
Dissolved Metals by SW 846 Series Methods										
Boron	6.23		mg/L	0.0580	0.100	1	04/21/06 18:32	llw	6040964	SW 6010B

LBG - SIOUX FALLS - LANDFILLS  
 140 East Hinks Lane, #126  
 Sioux Falls, SD 57104  
 Melissa Karstens

Work Order: CPD0596  
 Project: DeZurik Landfill  
 Project Number: DeZurik Landfill

Received: 04/12/06  
 Reported: 05/01/06 16:46

### LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Spike Result Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	%REC Limits	RPD RPD	RPD Limit	Q
<b>General Chemistry Parameters</b>												
Nitrate as N	6040506		mg/L	0.0240	0.100	<0.0240						
Chloride	6040597		mg/L	0.310	5.00	1.34						J
Phenol	6040607		mg/L	0.000700	0.0200	<0.000700						
Total Organic Carbon	6040652		mg/L	0.220	1.00	<0.220						
Total Dissolved Solids	6040704		mg/L	9.36	20.0	12.0						J
Chemical Oxygen Demand	6040714		mg/L	1.82	5.00	<1.82						
Chemical Oxygen Demand	6040715		mg/L	1.82	5.00	<1.82						
Sulfate	6040779		mg/L	1.80	10.0	<1.80						
Fluoride	6040792		mg/L	0.130	1.00	<0.130						
<b>Dissolved Metals by SW 846 Series Methods</b>												
Selenium	6040854		mg/L	0.00220	0.00500	<0.00220						
Lead	6040934		mg/L	0.000820	0.00400	<0.000820						
Barium	6040964		mg/L	0.000800	0.0100	<0.000800						
Boron	6040964		mg/L	0.0580	0.100	<0.0580						
Calcium	6040964		mg/L	0.0200	1.00	<0.0200						
Chromium	6040964		mg/L	0.00270	0.0200	<0.00270						
Iron	6040964		mg/L	0.0170	0.100	<0.0170						
Magnesium	6040964		mg/L	0.0180	1.00	<0.0180						
Manganese	6040964		mg/L	0.00130	0.0100	<0.00130						
Sodium	6040964		mg/L	0.0470	1.00	<0.0470						
Zinc	6040964		mg/L	0.00290	0.0200	<0.00290						
Arsenic	6041055		mg/L	0.000420	0.00100	<0.000420						
Cadmium	6041118		mg/L	0.000130	0.000500	<0.000130						
<b>General Chemistry Parameters</b>												
Cyanide	6043484		mg/L	0.0020	0.0050	<0.0020						
Cyanide	6043486		mg/L	0.0020	0.0050	<0.0020						



LBG - SIOUX FALLS - LANDFILLS  
 140 East Hinks Lane, #126  
 Sioux Falls, SD 57104  
 Melissa Karstens

Work Order: CPD0596  
 Project: DeZurik Landfill  
 Project Number: DeZurik Landfill

Received: 04/12/06  
 Reported: 05/01/06 16:46

### LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Spike Result Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD RPD	RPD Limit	Q
<b>General Chemistry Parameters</b>												
<b>QC Source Sample: CPD0592-01</b>												
pH	6040498	7.1	pH Units	0.1	0.1	7.1				0	10	
<b>QC Source Sample: CPD0606-01</b>												
pH	6040498	8.5	pH Units	0.1	0.1	8.5				0	10	
<b>QC Source Sample: CPD0634-02</b>												
Specific conductance	6040576	1500	umhos/cm	0.280	1.00	1532				2	10	
<b>QC Source Sample: CPD0596-01</b>												
Specific conductance	6040576	1320	umhos/cm	0.280	1.00	1318				0	10	
<b>QC Source Sample: CPD0551-02</b>												
Total Dissolved Solids	6040704	674	mg/L	9.36	20.0	668				1	15	
<b>QC Source Sample: CPD0596-05</b>												
Total Dissolved Solids	6040704	508	mg/L	9.36	20.0	516				2	15	
<b>Dissolved Metals by SW 846 Series Methods</b>												
<b>QC Source Sample: CPD0229-01</b>												
Selenium	6040854	<0.0022	mg/L	0.00220	0.00500	<0.00220					20	
<b>QC Source Sample: CPD0592-04</b>												
Lead	6040934	<0.00082	mg/L	0.000820	0.00400	<0.000820					20	
<b>QC Source Sample: CPD0592-01</b>												
Barium	6040964	0.0928	mg/L	0.000800	0.0100	0.0918				1	20	
Boron	6040964	<0.058	mg/L	0.0580	0.100	<0.0580					20	
Calcium	6040964	162	mg/L	0.0200	1.00	161				1	20	
Chromium	6040964	<0.0027	mg/L	0.00270	0.0200	<0.00270					10	
Iron	6040964	<0.017	mg/L	0.0170	0.100	<0.0170					20	
Magnesium	6040964	44.0	mg/L	0.0180	1.00	43.9				0	20	
Manganese	6040964	0.0326	mg/L	0.00130	0.0100	0.0321				2	20	
Sodium	6040964	12.5	mg/L	0.0470	1.00	12.5				0	20	
Zinc	6040964	0.0391	mg/L	0.00290	0.0200	0.0401				3	20	
<b>QC Source Sample: CPD0596-07</b>												
Barium	6040964	0.0469	mg/L	0.000800	0.0100	0.0463				1	20	
Boron	6040964	0.309	mg/L	0.0580	0.100	0.296				4	20	
Calcium	6040964	118	mg/L	0.0200	1.00	117				1	20	
Chromium	6040964	<0.0027	mg/L	0.00270	0.0200	0.00304					10	J
Iron	6040964	<0.017	mg/L	0.0170	0.100	<0.0170					20	
Magnesium	6040964	38.3	mg/L	0.0180	1.00	38.1				1	20	
Manganese	6040964	<0.0013	mg/L	0.00130	0.0100	<0.00130					20	
Sodium	6040964	121	mg/L	0.0470	1.00	122				1	20	
Zinc	6040964	0.0281	mg/L	0.00290	0.0200	0.0274				3	20	
<b>QC Source Sample: CPD0592-01</b>												
Arsenic	6041055	<0.00042	mg/L	0.000420	0.00100	<0.000420					20	
<b>QC Source Sample: CPD0648-03</b>												
Arsenic	6041055	<0.00042	mg/L	0.000420	0.00100	<0.000420					20	
<b>QC Source Sample: CPD0592-01</b>												
Cadmium	6041118	0.000245	mg/L	0.0001300	0.005000	0.000254				4	20	J
<b>QC Source Sample: CPD0705-01</b>												
Cadmium	6041118	<0.00013	mg/L	0.0001300	0.005000	<0.0001300					20	
<b>General Chemistry Parameters</b>												
<b>QC Source Sample: CPD0596-04</b>												
Cyanide	6043484	<0.0020	mg/L	0.0020	0.0050	<0.0020					50	
<b>QC Source Sample: NPD2017-01</b>												
Cyanide	6043486	<0.0020	mg/L	0.0020	0.0050	<0.0020					50	

LBG - SIOUX FALLS - LANDFILLS  
 140 East Hinks Lane, #126  
 Sioux Falls, SD 57104  
 Melissa Karstens

Work Order: CPD0596  
 Project: DeZurik Landfill  
 Project Number: DeZurik Landfill

Received: 04/12/06  
 Reported: 05/01/06 16:46

### LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	%REC Limits	RPD RPD	RPD Limit	Q
<b>General Chemistry Parameters</b>													
pH	6040498		7.00	pH Units	N/A	N/A	7.0		100			98-102	
Nitrate as N	6040506		3.14	mg/L	0.150	0.625	3.37		107			90-110	
Specific conductance	6040576		476.0	umhos/cm	N/A	N/A	463.0		97			90-110	
Chloride	6040597		93.7	mg/L	0.310	5.00	97.2		104			90-110	
Phenol	6040607		0.160	mg/L	0.000700	0.0200	0.166		104			90-110	
Total Organic Carbon	6040652		48.5	mg/L	0.880	4.00	46.4		96			80-120	
Total Dissolved Solids	6040704		1000	mg/L	N/A	N/A	1000		100			90-110	
Chemical Oxygen Demand	6040714		250	mg/L	3.64	10.0	250		100			80-120	
Chemical Oxygen Demand	6040715		250	mg/L	3.64	10.0	249		100			80-120	
Sulfate	6040779		25.7	mg/L	1.80	10.0	25.7		100			80-120	
Fluoride	6040792		15.0	mg/L	0.130	1.00	14.5		97			80-115	
<b>Dissolved Metals by SW 846 Series Methods</b>													
Selenium	6040854		0.065	ug/mL	N/A	N/A	0.0647		99			80-120	
			6										
Lead	6040934		0.043	ug/mL	N/A	N/A	0.0475		108			80-120	
			9										
Barium	6040964		2.00	ug/mL	N/A	N/A	2.05		102			85-115	
Boron	6040964		2.00	ug/mL	N/A	N/A	2.07		104			85-110	
Calcium	6040964		10.0	ug/mL	N/A	N/A	10.3		103			85-115	
Chromium	6040964		2.00	ug/mL	N/A	N/A	2.02		101			85-110	
Iron	6040964		10.0	ug/mL	N/A	N/A	10.1		101			85-110	
Magnesium	6040964		10.0	ug/mL	N/A	N/A	10.1		101			85-115	
Manganese	6040964		2.00	ug/mL	N/A	N/A	1.98		99			85-110	
Sodium	6040964		50.0	ug/mL	N/A	N/A	50.0		100			85-120	
Zinc	6040964		2.00	ug/mL	N/A	N/A	2.03		102			85-110	
Arsenic	6041055		0.040	mg/L	0.000420	0.00100	0.0406		100			80-120	
			7										
Cadmium	6041118		0.026	mg/L	0.0001300	0.000500	0.0251		94			80-120	
			8										
<b>General Chemistry Parameters</b>													
Cyanide	6043484		0.100	ug/mL	N/A	N/A	0.0903	0.0956	90	96		90-110	6 50
Cyanide	6043486		0.100	ug/mL	N/A	N/A	0.0952	0.0989	95	99		90-110	4 50

LBG - SIOUX FALLS - LANDFILLS  
 140 East Hinks Lane, #126  
 Sioux Falls, SD 57104  
 Melissa Karstens

Work Order: CPD0596  
 Project: DeZurik Landfill  
 Project Number: DeZurik Landfill

Received: 04/12/06  
 Reported: 05/01/06 16:46

### MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Spike Result	Level	Units	MDL	MRL	Dup Result	% Result	Dup %REC	% REC	REC Limits	RPD RPD	RPD Limit	Q
<b>General Chemistry Parameters</b>														
<b>QC Source Sample: CPD0596-04</b>														
Nitrate as N	6040506	1.30	1.00	mg/L	0.120	0.500	2.48	2.56	118	126	75-125	3	20	M1
<b>QC Source Sample: CPD0541-15</b>														
Chloride	6040597	27.4	25.0	mg/L	0.310	5.00	52.3	51.7	100	97	90-110	1	10	
<b>QC Source Sample: CPD0596-01</b>														
Phenol	6040607	<0.00070	0.160	mg/L	0.000700	0.0200	0.163	0.165	102	103	90-110	1	20	
<b>QC Source Sample: CPD0516-01</b>														
Total Organic Carbon	6040652	2.93	5.00	mg/L	0.220	1.00	7.80	7.31	97	88	75-125	6	20	
<b>QC Source Sample: CPD0541-01</b>														
Chemical Oxygen Demand	6040714	9.10	50.0	mg/L	1.82	5.00	65.9	65.1	114	112	75-125	1	20	
<b>QC Source Sample: CPD0596-06</b>														
Chemical Oxygen Demand	6040715	9.80	50.0	mg/L	1.82	5.00	61.6	58.8	104	98	75-125	5	20	
<b>QC Source Sample: CPD0709-03</b>														
Sulfate	6040779	52.8	20.0	mg/L	3.60	20.0	70.6	70.9	89	91	75-125	0	20	
<b>QC Source Sample: CPD0552-01</b>														
Fluoride	6040792	109	25.0	mg/L	1.88	14.5	132	135	92	104	75-125	2	15	
<b>Dissolved Metals by SW 846 Series Methods</b>														
<b>QC Source Sample: CPD0632-02</b>														
Lead	6040934	<0.00082	0.025 0	mg/L	0.000820	0.00400	0.0268	0.0276	107	110	75-125	3	20	
<b>General Chemistry Parameters</b>														
<b>QC Source Sample: NPD1768-01</b>														
Cyanide	6043484	0.0177	0.100	ug/mL	N/A	N/A	0.1024	0.1345	85	117	27-148	27	50	
<b>QC Source Sample: NPD1719-01</b>														
Cyanide	6043486	0.00150	0.100	ug/mL	N/A	N/A	0.0853	0.0939	84	92	27-148	10	50	

LBG - SIOUX FALLS - LANDFILLS  
 140 East Hinks Lane, #126  
 Sioux Falls, SD 57104  
 Melissa Karstens

Work Order: CPD0596  
 Project: DeZurik Landfill  
 Project Number: DeZurik Landfill

Received: 04/12/06  
 Reported: 05/01/06 16:46

**OTHER**

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Dup Result	% REC	Dup %REC	%REC Limits	RPD Limit	RPD Limit	Q
<b>Dissolved Metals by SW 846 Series Methods</b>													
<b>QC Source Sample: CPD0229-02</b>													
Selenium	6040854	-0.000486	0.023	ug/mL	N/A	N/A	0.0249		107		75-125		
			8										
<b>QC Source Sample: CPD0596-01</b>													
Lead	6040934	-0.00168	0.022	ug/mL	N/A	N/A	0.0238		112		75-125		
			7										
<b>QC Source Sample: CPD0592-02</b>													
Barium	6040964	0.0485	0.962	ug/mL	N/A	N/A	1.14		113		75-120		
Boron	6040964	0.245	1.92	ug/mL	N/A	N/A	2.49		117		75-125		
Calcium	6040964	110	1.92	ug/mL	N/A	N/A	111		52		75-125		MHA
Chromium	6040964	0.00284	0.962	ug/mL	N/A	N/A	1.07		111		80-115		
Iron	6040964	-0.00267	1.92	ug/mL	N/A	N/A	2.14		112		75-125		
Magnesium	6040964	36.1	1.92	ug/mL	N/A	N/A	37.9		94		75-125		
Manganese	6040964	0.000111	0.962	ug/mL	N/A	N/A	1.06		110		75-125		
Sodium	6040964	113	2.88	ug/mL	N/A	N/A	116		104		75-125		
Zinc	6040964	0.0250	0.962	ug/mL	N/A	N/A	1.15		117		75-125		
<b>QC Source Sample: CPD0596-08</b>													
Barium	6040964	0.0980	0.962	ug/mL	N/A	N/A	1.15		109		75-120		
Boron	6040964	1.16	1.92	ug/mL	N/A	N/A	3.32		112		75-125		
Calcium	6040964	166	1.92	ug/mL	N/A	N/A	166		0		75-125		MHA
Chromium	6040964	-0.000265	0.962	ug/mL	N/A	N/A	1.03		107		80-115		
Iron	6040964	-0.000490	1.92	ug/mL	N/A	N/A	2.05		107		75-125		
Magnesium	6040964	52.4	1.92	ug/mL	N/A	N/A	54.1		89		75-125		
Manganese	6040964	1.86	0.962	ug/mL	N/A	N/A	2.87		105		75-125		
Sodium	6040964	35.2	2.88	ug/mL	N/A	N/A	39.0		132		75-125		MHA
Zinc	6040964	0.0334	0.962	ug/mL	N/A	N/A	1.11		112		75-125		
<b>QC Source Sample: CPD0592-02</b>													
Arsenic	6041055	-0.000115	0.022	ug/mL	N/A	N/A	0.0190		84		75-125		
			7										
<b>QC Source Sample: CPD0648-12</b>													
Arsenic	6041055	-0.000447	0.022	ug/mL	N/A	N/A	0.0192		87		75-125		
			7										
<b>QC Source Sample: CPD0592-02</b>													
Cadmium	6041118	8.27E-6	0.001	ug/mL	N/A	N/A	0.00115		96		75-125		
			19										
<b>QC Source Sample: CPD0705-02</b>													
Cadmium	6041118	-0.0000401	0.001	ug/mL	N/A	N/A	0.00107		93		75-125		
			19										

LBG - SIOUX FALLS - LANDFILLS  
 140 East Hinks Lane, #126  
 Sioux Falls, SD 57104  
 Melissa Karstens

Work Order: CPD0596  
 Project: DeZurik Landfill  
 Project Number: DeZurik Landfill

Received: 04/12/06  
 Reported: 05/01/06 16:46

### CERTIFICATION SUMMARY

#### TestAmerica Analytical - Cedar Falls

Method	Matrix	Nelac	Minnesota
ASTM D516-90	Water - NonPotable	X	X
EPA 150.1	Water - NonPotable	X	
EPA 335.3	Water - NonPotable	X	
EPA 353.3	Water - NonPotable	X	X
EPA 420.2	Water - NonPotable	X	X
SM 2510B	Water - NonPotable	X	X
SM 4500CI E	Water - NonPotable	X	X
SM 4500F BC	Water - NonPotable	X	
SM 5220D	Water - NonPotable	X	X
SM2540C	Water - NonPotable	X	X
SW 6010B	Water - NonPotable	X	X
SW 7060A	Water - NonPotable	X	X
SW 7131A	Water - NonPotable	X	X
SW 7421	Water - NonPotable	X	X
SW 7740	Water - NonPotable	X	X
SW 9060	Water - NonPotable	X	

#### Subcontracted Laboratories

TestAmerica Analytical Testing Corp.- Nashville NELAC Cert #87358, Illinois Cert #001366, Iowa Cert #131, Kansas Cert #E-10229, Minnesota Cert #047-999-345, Wisconsin Cert #998020436  
 2960 Foster Creighton Dr. - Nashville, TN 37204

Method Performed: EPA 335.3

Samples: CPD0596-01, CPD0596-02, CPD0596-03, CPD0596-04, CPD0596-05, CPD0596-06

*Any abnormalities or departures from sample acceptance policy shall be documented on the 'Sample Receipt and Temperature Log Form' and 'Sample Non-conformance Form' (if applicable) included with this report.*

*For information concerning certifications of this facility or another TestAmerica facility, please visit our website at [www.TestAmericaInc.com](http://www.TestAmericaInc.com)*

*Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) and are sampled in accordance with TA-CF SOP CF09-01.*

### DATA QUALIFIERS AND DEFINITIONS

- H3** Sample was received and analyzed past holding time
- J** Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated
- M1** The MS and/or MSD were outside control limits.
- MHA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information


### ADDITIONAL COMMENTS










Client Name CITY OF SARTELL Client #           
Address: 1245 ST. N  
City/State/Zip Code: SARTELL MN  
Project Manager: TIM KENYON  
Telephone Number: 605-334-6000 Fax: 605-334-1850  
Sampler Name: (Print Name) CRAIG HEGNA  
Sampler Signature:   
Email Address:         

Project Name: SARTELL LANDFILL  
Project #:           
Site/Location ID: SARTELL State: MN  
Report To: TIM KENYON - LOG  
Invoice To:           
Quote #:          PO#:         

TAT	Date Needed:	Date Sampled	Time Sampled	G = Grab, C = Composite	Field Filtered	Matrix	Preservation & # of Containers	Analyze For:	QC Deliverables	REMARKS
Standard						SL - Sludge DW - Drinking Water GW - Groundwater S - Soil/Solid WW - Wastewater Specify Other	HNO <sub>3</sub> HCl NaOH H <sub>2</sub> SO <sub>4</sub> Methanol None Other (Specify)		None Level 2 (Batch QC) Level 3 Level 4 Other:	
P-9R	4.11.06	1149	6	Y			3 1 1 3			
P-7		1317	6	Y			3 1 1 3			
P-5A		1405	6	Y			3 1 1 3			
P-6		1526	6	Y			3 1 1 3			

**Special Instructions:** TIM KENYON  
LEGGETE BRUSHHEADS + GPHUM, INC.  
1113 EAST 14th ST.  
SIOUX FALLS SD 57104

Relinquished By:   
Received By: 8509 02990680  
Date: 9/11/06 Time: 1630  
Relinquished By: 8509 02990680  
Received By: 8509 02990680  
Date: 4/12/06 Time: 9:22

LABORATORY COMMENTS:

## Sample Receipt and Temperature Log Form

LBG  
St Paul

Client: Dezurik LF Project: LF Lagoon #3

City: \_\_\_\_\_

Date: 4-12-06 Receiver's Initials CH Time (Delivered): 9:22

### Temperature Record

Cooler ID# (If Applicable)  
# 35  
2 °C On Ice

### Thermometer:

- IR - 905085 "A"  
 IR - 809065 "B"  
 CF07-03-T2  
 22126775

### Courier:

- |   |  |
|---|--|
| <input type="checkbox"/> Airborne         | <input type="checkbox"/> Speedy        |
| <input type="checkbox"/> UPS              | <input type="checkbox"/> TA Courier    |
| <input type="checkbox"/> Velocity         | <input type="checkbox"/> TA Field Svcs |
| <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> Client        |
| <input type="checkbox"/> DHL              | <input type="checkbox"/> Other         |
| <input type="checkbox"/> US Postal        |  |

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes  No

Non-Conformance report started

### Exceptions Noted

- Sample(s) not received in a cooler.
- Sample(s) received same day of sampling.
- Evidence of a chilling process
- Temperature not taken:

Log-In by:

CW MF EM

OT \_\_\_\_\_

## Sample Receipt and Temperature Log Form

LBG  
St. Paul

Client: Desjardis

Project: LF Lagoon #3

City: \_\_\_\_\_

Date: 4-12-06 Receiver's Initials CH

Time (Delivered): 9:22

### Temperature Record

Cooler ID# (If Applicable)  
TA-6

2° C / On Ice

### Thermometer:

- IR - 905085 "A"  
 IR - 809065 "B"  
 CF07-03-T2  
 22126775

### Courier:

- |   |  |
|---|--|
| <input type="checkbox"/> Airborne         | <input type="checkbox"/> Speedy        |
| <input type="checkbox"/> UPS              | <input type="checkbox"/> TA Courier    |
| <input type="checkbox"/> Velocity         | <input type="checkbox"/> TA Field Svcs |
| <input checked="" type="checkbox"/> FedEx | <input type="checkbox"/> Client        |
| <input type="checkbox"/> DHL              |  |
| <input type="checkbox"/> US Postal        | <input type="checkbox"/> Other         |

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes  No

Non-Conformance report started

### Exceptions Noted

- Sample(s) not received in a cooler.
- Sample(s) received same day of sampling.
- Evidence of a chilling process
- Temperature not taken:

Log-In by:

CW MF EM

OT \_\_\_\_\_

## Sample Receipt and Temperature Log Form

LBG Paul  
St. Paul  
Client: City of Sartel Project: Sartel LF

City: \_\_\_\_\_

Date: 4-12-06 Receiver's Initials CH Time (Delivered): 9:25

### Temperature Record

Cooler ID# (if Applicable)  
CL41  
1 °C / On Ice

### Thermometer:

- IR - 905085 "A"  
 IR - 809065 "B"  
 CF07-03-T2  
 22126775

### Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svs
<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> Client
<input type="checkbox"/> DHL	<input type="checkbox"/> Other
<input type="checkbox"/> US Postal	

Temp Blank

*1 Trip Blank vial*

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes  No

Non-Conformance report started

### Exceptions Noted

- Sample(s) not received in a cooler.  
 Samples(s) received same day of sampling.  
 Evidence of a chilling process  
 Temperature not taken:

Log-In by:

CW MF EM

OT \_\_\_\_\_

ANALYTICAL TESTING CORPORATION

## Sample Receipt and Temperature Log Form

LBG  
ST. Paul

Client: Deszurik

Project: Deszurik LF

Lagoon #3

City: \_\_\_\_\_

Date: 4-13-06 Receiver's Initials CH

Time (Delivered): 9:50

### Temperature Record

Cooler ID# (If Applicable)  
351  
1 °C On Ice

### Thermometer:

- IR - 905085 "A"
- IR - 809065 "B"
- CF07-03-T2
- 22126775

### Courier:

<input type="checkbox"/> Airborne	<input type="checkbox"/> Speedy
<input type="checkbox"/> UPS	<input type="checkbox"/> TA Courier
<input type="checkbox"/> Velocity	<input type="checkbox"/> TA Field Svs
<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> Client
<input type="checkbox"/> DHL	
<input type="checkbox"/> US Postal	<input type="checkbox"/> Other

Temp Blank

Temperature out of compliance

Custody seals present?

Yes

Custody seals intact?

Yes  No

Non-Conformance report started

### Exceptions Noted

- Sample(s) not received in a cooler.
- Sample(s) received same day of sampling.
- Evidence of a chilling process
- Temperature not taken:

Log-In by:

CW MF EM

OT \_\_\_\_\_

\*Refer to SOP CF01-01 for Temperature Criteria