



**CONESTOGA-ROVERS
& ASSOCIATES**

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September 28, 2007

Reference No. 012615-10

Stephen F. Nightingale, P.E.
Illinois Environmental Protection Agency
Bureau of Land - #33
Permit Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

VIA ELECTRONIC MAIL
AND
FIRST CLASS MAIL

Dear Mr. Nightingale:

Re: Submittal of Supplemental Information
Assessment Monitoring Report and
Supplemental Permit Application
Permit No. 1985-7-OP
General Motors/REALM Danville Landfill
1838040024 -- Vermillion County, Danville, Illinois

Enclosed with this letter is supplemental information related to the Assessment Monitoring Report and Supplemental Permit Application for the General Motors/REALM (GM/REALM) Danville Landfill. The Assessment Monitoring Plan for the facility was initially submitted in response to the Illinois EPA's Violation Notice letter (L-2004-01065) dated March 16, 2004 and the June 9, 2004 Compliance Commitment Agreement (CCA) letter dated June 9, 2004. The IEPA subsequently accepted the Assessment Monitoring Plan through the issuance of Supplemental Permit No. 2004-318-SP. GM/REALM was required to submit a written report presenting the results and conclusions from the assessment monitoring in accordance with Conditions 25 and 26 of Attachment A of Supplemental Permit No. 2004-318-SP by October 31, 2006. The due date for the submittal of this report was subsequently extended to August 31, 2007 in accordance with Conditions 24 and 25 of Attachment A of Supplemental Permit No. 2006-290-SP.

In addition this supplemental information addresses the following issues:

- Establishing background concentrations for select analytes in compliance with Conditions 4 and 5 of Supplemental Permit 2006-290-SP;
- Condition 26 of Supplemental Permit 2006-290-SP; and
- Certification of completion of Post Closure Care.

GM/REALM owns and provides post-closure care for a non-hazardous foundry waste landfill on its Danville, Illinois property (Site). The IEPA issued the original Site operating permit (IEPA Permit No. 1985-7-OP) on March 18, 1985. GM/REALM implemented a groundwater

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monitoring program at the Site in accordance with a Supplemental Permit (IEPA Permit No. 2003-11-SP) and submits chemical analysis forms to the IEPA on a quarterly basis.

This Assessment Monitoring Plan addressed the following issues pursuant to the approved June 9, 2004 CCA letter:

- the exceedences of the Class IV groundwater objective for fluoride in groundwater samples collected from monitoring well G32S; and
- continuation of quarterly groundwater monitoring activities during the assessment monitoring phase.

To evaluate the issues identified above, the following assessment monitoring program was approved by the IEPA under Conditions 25 and 26 of Attachment A of Supplemental Permit 2004-318-SP and included as Conditions 24 and 25 of Attachment A of Supplemental Permit 2006-290-SP:

- installation of two new monitoring wells north of the Site to delineate the extent of fluoride in the groundwater, as approved under Supplemental Permit No. 2006-290-SP;
- collection of filtered and unfiltered groundwater samples on a quarterly basis for a period of one year from monitoring wells G-32S, G-41D, G-42D, G-19S, and the two new groundwater monitoring wells (G-43D and G-44D);
- analysis of groundwater samples from the above-noted monitoring wells for total and dissolved fluoride, total and dissolved calcium, DOC, TDS, total and dissolved chloride, total and dissolved iron, total and dissolved manganese, sulfate (unfiltered), and field readings of pH.

Two new groundwater monitoring wells (G-43D and G-44D) were installed at the locations approved by the IEPA. Monitoring well G-44D was installed downgradient (north) of G-32S, within 100 feet of the toe of the north slope of the landfill. The second monitoring well (G-43D) was installed to the west (cross-gradient) of G-32S. The installation of the two new monitoring wells was reported to the IEPA in a Supplemental Permit Application that was subsequently approved by the IEPA through the issuance of Supplemental Permit No. 2006-290-SP.

Supplemental Permit No. 2006-290-SP also established August 31, 2007 as the deadline for the submittal of the results and conclusions of the assessment monitoring program.

Quarterly monitoring of the six wells (G-32S, G-19S, G-41D, G-42S, G-43D, and G-44D) involved in the assessment monitoring began in May 2006 and continued through May 2007. The results of this monitoring were entered into the Site groundwater monitoring database.



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ENVIRON International Corporation evaluated the data from the assessment monitoring. The analysis and conclusions with regard to fluoride concentrations in well G-32S, required under Condition 25 of Attachment A of Supplemental Permit No 2004-318-SP and subsequently under Condition 24 of Attachment A of Supplemental Permit 2006-290-SP, were submitted to the IEPA in the form of a Supplemental Permit Application on August 31, 2007. The evaluation of the data relating to analytes other than fluoride, required under Condition 26 of Attachment A of Supplemental Permit No 2004-318-SP and subsequently under Condition 25 of Attachment A of Supplemental Permit 2006-290-SP, was not complete as of August 31, 2007.

In order to complete the evaluation of the groundwater analytical data, as required under Condition 25, CRA established background concentrations for the analytes identified in Condition 25. The background concentrations for the select analytes were developed by CRA using four quarters of groundwater data from 1997 and the statistical methodology contained in Attachment B of Supplemental Permit 2006-290-SP, in accordance with Conditions 4 and 5 of Attachment A of Supplemental Permit 2006-290-SP. CRA chose to use the data from 1997 due to the fact that this is the first calendar year for which four quarters of data are available.

The evaluation of the assessment monitoring for the analytes identified in Condition 25 of Attachment A of Supplemental Permit No. 2006-290-SP is included as Attachment A of this letter. As discussed and agreed to with Mr. Joe Uy of the IEPA during a phone conversation on August 29, 2007, evaluations and conclusions regarding the remaining analytes would be submitted to the Illinois EPA on or before September 28, 2007.

Condition 26 of Attachment A of Supplemental Permit 2006-290-SP removed a number of organic parameters from the facility annual monitoring list. Condition 26 also contained a requirement that the facility must monitor all groundwater monitoring wells for the complete parameter list from 35 IAC 620 before post closure certification can be granted. In May of 2007, CRA conducted a groundwater monitoring event at the Danville facility that included analysis of the complete 35 IAC 620 parameter list. The data from the May sampling event showed no detections of the 620 organics. Inorganics from the 620 list were below the Class IV standards with the exception of iron in wells G-41D, G-42S and G-42D, sulfate in wells G-42S and G-42D and fluoride in well G-32S. These aforementioned wells were part of the assessment monitoring required by Conditions 24 and 25 of Attachment A of Supplemental Permit 2006-290-SP and are addressed in the report presented in Attachment A of this letter. A summary of the analytical data from the May 2007 sampling event is presented in Attachment B of this letter.

The GM/REALM landfill received closure certification from the IEPA on August 31, 2000. GM/REALM has implemented the post-closure care plan and maintained post-closure financial assurance for the facility for a period of seven years. With the submittal of this additional information, GM/REALM believes that it has met all existing Conditions in the facility Operating Permit and has completed the post-closure care plan in accordance with 35 IAC 807.524c. GM/REALM is therefore requesting that IEPA certify that the post-closure care



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period has ended for the facility. GM/REALM is also requesting release from post-closure care financial assurance in accordance with 35 IAC 807.604b.

As the Site Engineer, and following review of the available data, I concur with GM/REALM that all existing Conditions in the facility Operating Permit have been met and that the post-closure care plan has been completed.

We trust that this submittal meets with IEPA's satisfaction. Please contact the undersigned with any questions or comments.

Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

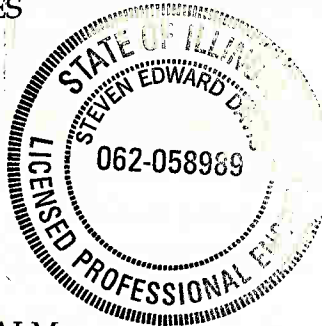
Steven E. Davis

Steven E. Davis, P.E.

SED/sl/13

Encl.

c.c.: M. Dedyne, GM/REALM
D. Favero, on behalf of GM/REALM
F. Ramacciotti, ENVIRON



ATTACHMENT A

ASSESSMENT MONITORING REPORT

Evaluation of Groundwater Quality Data Danville Foundry Landfill, Danville, Illinois

Introduction

The purpose of the evaluation is to assess the human health and environmental significance of groundwater quality data collected pursuant to the Supplemental Permit 2006-290-SP for the Danville Foundry Landfill located in Danville, Illinois (Facility). Specifically, the evaluation addresses conditions 6, 24, and 25 of the supplemental permit.

Condition 6 - Groundwater Data Comparison

Groundwater data collected from the monitoring wells identified in condition 17 and analyzed for the constituents in condition 18 were evaluated per condition 6 of the supplemental permit. Per condition 6 of the supplemental permit, the groundwater data were compared to background concentrations, IEPA Class IV Groundwater Quality Standards (35 IAC 620.440), and practical quantitation limits for organic parameters. Table 1 presents a summary of the constituents analyzed in these wells, their detection frequencies, range of detected concentrations, and comparison to the criteria discussed above. As shown on this table, concentrations of certain constituents (chloride, dissolved solids, fluoride, iron, manganese, pH, and sulfate) exceed one or more of the criteria. The significance of these concentrations is evaluated in the assessments discussed in the following sections which pertain to conditions 24 and 25 of the supplemental permit.

Condition 24 - Fluoride Groundwater Data Assessment

The evaluation of fluoride groundwater data was discussed in the report entitled *Evaluation of Fluoride Concentrations in Groundwater* (ENVIRON 2007), which was submitted to IEPA as part of a Supplemental Permit Application dated August 31, 2007. In summary, the assessment determined that fluoride concentrations in groundwater are not expected to adversely affect human health or environment and that the area of elevated fluoride groundwater concentrations is delineated.

Condition 25 - Groundwater Data Assessment

Per condition 25, quarterly data (May 2006 to May 2007) were collected from six monitoring wells (G-19S, G-32S, G-41D, G-42S, G-43D, and G-44D) and analyzed for (chloride, iron, manganese, and sulfate). Dissolved solids and pH data were also collected from these wells and evaluated with the constituents specified in condition 25. While the highest concentrations of

these constituents from the quarterly groundwater data exceeded one or more of the criteria, as shown on Table 1, groundwater at and downgradient of the Facility is not used for drinking water and they would not result in surface water concentrations in the Vermillion River in excess of the General Use Water Quality Standards (35 IAC 302.204 and 208) which are appropriate since this segment of the River is classified for “general use” by IEPA. This can be seen from the evaluation discussed in the report entitled *Human Health and Environmental Significance of Groundwater Quality Data* (ENVIRON 2005), which was originally submitted as a supplemental permit application on October 14, 2004, subsequently amended and resubmitted on April 15, 2005 and was included as Attachment A of the August 31, 2007 Supplemental Permit Application.

The 2005 evaluation used the highest detected groundwater concentrations for these parameters from 1992 through 2003, along with hypothetical upper-bound assumptions on the discharge of these parameters to the River. The evaluation showed that the highest detected groundwater concentrations of these parameters would not cause surface water concentrations in the River to exceed the General Use Water Quality Standards. These results can be used to calculate surface water concentrations in the River that correspond to the highest detected concentrations from the recently collected quarterly groundwater monitoring data, as follows:

$$C_{Q_{sw}} = \frac{C_{P_{sw}}}{C_{P_{gw}}} \cdot C_{Q_{gw}}$$

where $C_{Q_{sw}}$ is the estimated surface water concentration from quarterly groundwater concentrations; $C_{P_{sw}}$ is the estimated surface water concentration from groundwater concentrations used in the 2005 evaluation; $C_{P_{gw}}$ is the highest detected groundwater concentration evaluated in 2005; and $C_{Q_{gw}}$ is the highest detected concentration from the quarterly groundwater data.

The estimated surface water concentrations ($C_{Q_{sw}}$) calculated from this equation are compared with the General Use Water Quality Standard in Table 2 to determine if groundwater discharging from the Facility under hypothetical upper-bound conditions would pose a significant threat to human health or environment. As shown on Table 2, the estimated surface water concentrations are well within the water quality limits. Therefore, groundwater concentrations from the quarterly data are not expected to adversely affect human health or environment.

References

- ENVIRON International Corp. (ENVIRON). 2005. Human Health and Environmental Significance of Groundwater Quality Data. Danville Foundry Landfill, Danville, Illinois. April.
- ENVIRON International Corp. (ENVIRON). 2007. Evaluation of Fluoride Concentrations in Groundwater. Danville Foundry Landfill, Danville, Illinois. August.

TABLE

Table 1: Groundwater Screening Results
General Motors Foundry Landfill, Danville, Illinois

Wellzone	Chemical	Meas Basis	Analyzed	Detected	Min Detected	Max Detected	Units	Class IV Groundwater Standard (35 IAC 620.440)	Ratio Max to Class IV Standard	Background Concentration	Ratio Max to Background Concentration	2x PQL	Ratio Max to 2x PQL
Shallow	Ammonia	D	139	104	4.90E-02	1.80E+01	MG/L						
Shallow	Ammonia	T	10	6	2.78E-01	7.41E+00	MG/L						
Shallow	Antimony	D	3	2	1.60E-04	2.10E-04	MG/L	2.4E-02	8.8E-03				
Shallow	Antimony	T	60	19	3.00E-05	3.30E-04	MG/L	2.4E-02	1.4E-02				
Shallow	Arsenic	D	149	55	2.00E-04	2.50E-02	MG/L	2.0E-01	1.3E-01				
Shallow	Arsenic	T	60	43	2.00E-04	4.20E-02	MG/L	2.0E-01	2.1E-01				
Shallow	Barium	D	3	3	1.37E-02	6.96E-02	MG/L	2.0E+00	3.5E-02				
Shallow	Barium	T	60	60	1.15E-02	1.31E-01	MG/L	2.0E+00	6.6E-02				
Shallow	Beryllium	D	3	2	2.00E-05	1.10E-04	MG/L	5.0E-01	2.2E-04				
Shallow	Beryllium	T	60	19	6.00E-06	2.00E-03	MG/L	5.0E-01	4.0E-03				
Shallow	Boron	D	1	1	2.13E-01	2.13E-01	MG/L	2.0E+00	1.1E-01				
Shallow	Boron	T	60	60	4.00E-02	8.24E-01	MG/L	2.0E+00	4.1E-01				
Shallow	Cadmium	D	149	31	3.70E-05	5.00E-03	MG/L	5.0E-02	1.0E-01				
Shallow	Cadmium	T	60	29	2.00E-05	5.00E-03	MG/L	5.0E-02	1.0E-01				
Shallow	Calcium	D	56	56	2.86E+01	3.88E+02	MG/L						
Shallow	Calcium	T	55	55	3.08E+01	3.86E+02	MG/L						
Shallow	Organic Carbon (Dissolved)	D	56	55	1.30E+00	2.58E+01	MG/L						
Shallow	Organic Carbon (total)	T	139	139	1.00E+00	3.00E+01	MG/L						
Shallow	Chloride	D	599	592	1.30E+00	2.50E+02	MG/L	2.0E+02	1.3E+00	2.4E+01	1.0E+01		
Shallow	Chloride	T	136	135	2.20E+00	1.60E+02	MG/L	2.0E+02	8.0E-01	2.4E+01	6.7E+00		
Shallow	Chromium (total)	D	3	3	4.00E-04	7.00E-04	MG/L	1.0E+00	7.0E-04				
Shallow	Chromium (total)	T	60	42	3.00E-04	4.20E-02	MG/L	1.0E+00	4.2E-02				
Shallow	Cobalt	D	3	3	2.70E-03	7.08E-03	MG/L	1.0E+00	7.1E-03				
Shallow	Cobalt	T	60	43	3.76E-04	2.10E-02	MG/L	1.0E+00	2.1E-02				
Shallow	Copper	D	3	3	1.10E-03	4.30E-03	MG/L	6.5E-01	6.6E-03				
Shallow	Copper	T	60	47	3.00E-04	4.90E-02	MG/L	6.5E-01	7.5E-02				
Shallow	Cyanide (total)	T	149	14	2.00E-03	3.10E-02	MG/L	6.0E-01	5.2E-02				
Shallow	Dissolved solids (total)	D	13	13	4.53E+02	2.54E+03	MG/L	1.2E+03	2.1E+00	8.5E+02	3.0E+00		
Shallow	Dissolved solids (total)	T	592	592	3.54E+02	4.80E+03	MG/L	1.2E+03	4.0E+00	8.5E+02	5.7E+00		
Shallow	Fluoride	D	98	85	2.00E-01	1.89E+01	MG/L	4.0E+00	4.7E+00				
Shallow	Fluoride	T	125	89	1.96E-01	1.75E+01	MG/L	4.0E+00	4.4E+00				
Shallow	Iron	D	346	264	6.70E-03	1.25E+02	MG/L	5.0E+00	2.5E+01	1.9E+00	6.5E+01		
Shallow	Iron	T	132	127	1.00E-02	4.06E+04	MG/L	5.0E+00	8.1E+03	1.9E+00	2.1E+04		
Shallow	Lead	D	149	21	1.10E-05	5.60E-03	MG/L	1.0E-01	5.6E-02				
Shallow	Lead	T	60	39	6.00E-06	1.60E-02	MG/L	1.0E-01	1.6E-01				
Shallow	Manganese	D	354	321	1.00E-03	5.34E+00	MG/L	1.0E+01	5.3E-01	1.8E-01	3.0E+01		
Shallow	Manganese	T	125	123	4.00E-03	3.54E+03	MG/L	1.0E+01	3.5E+02	1.8E-01	2.0E+04		
Shallow	Mercury	D	149	11	2.00E-05	1.40E-04	MG/L	1.0E-02	1.4E-02				
Shallow	Mercury	T	60	2	2.00E-05	3.00E-05	MG/L	1.0E-02	3.0E-03				
Shallow	Nickel	D	3	3	7.50E-03	2.78E-02	MG/L	2.0E+00	1.4E-02				
Shallow	Nickel	T	60	52	1.20E-03	1.43E-01	MG/L	2.0E+00	7.2E-02				
Shallow	Nitrate	T	60	31	1.70E-02	1.72E+00	MG/L	1.0E+02	1.7E-02				
Shallow	Organic Halides (total)	T	149	30	4.00E-03	3.10E-01	MG/L						
Shallow	pH	T	484	484	5.63E+00	8.76E+00	S.U.	9.0E+00	9.7E-01				
Shallow	Phenol	T	149				MG/L	1.0E-01				1.9E-02	
Shallow	Selenium	D	3	1	2.60E-03	2.60E-03	MG/L	5.0E-02	5.2E-02				
Shallow	Selenium	T	60	17	3.00E-04	2.10E-03	MG/L	5.0E-02	4.2E-02				
Shallow	Silver	D	3				MG/L						
Shallow	Silver	T	60	7	5.00E-06	2.30E-05	MG/L						
Shallow	Specific Conductivity	T	8	8	8.18E+02	2.00E+03	UMHOS/CM						
Shallow	Sulfate	D	598	593	1.00E+01	3.80E+03	MG/L	4.0E+02	9.5E+00	1.9E+02	2.0E+01		
Shallow	Sulfate	T	136	136	2.00E+01	1.53E+03	MG/L	4.0E+02	3.8E+00	1.9E+02	8.2E+00		
Shallow	Temperature	T	8	8	1.34E+01	1.84E+01	DEG C						
Shallow	Thallium	D	3	2	2.00E-05	3.00E-05	MG/L	2.0E-02	1.5E-03				
Shallow	Thallium	T	60	21	8.00E-06	2.00E-02	MG/L	2.0E-02	1.0E+00				
Shallow	Zinc	D	3	3	3.40E-03	3.03E-02	MG/L	1.0E+01	3.0E-03				
Shallow	Zinc	T	60	57	1.11E-03	1.18E-01	MG/L	1.0E+01	1.2E-02				
Deep	Ammonia	D	41	30	6.00E-02	4.00E+00	MG/L						
Deep	Ammonia	T	2	1	7.52E-01	7.52E-01	MG/L						

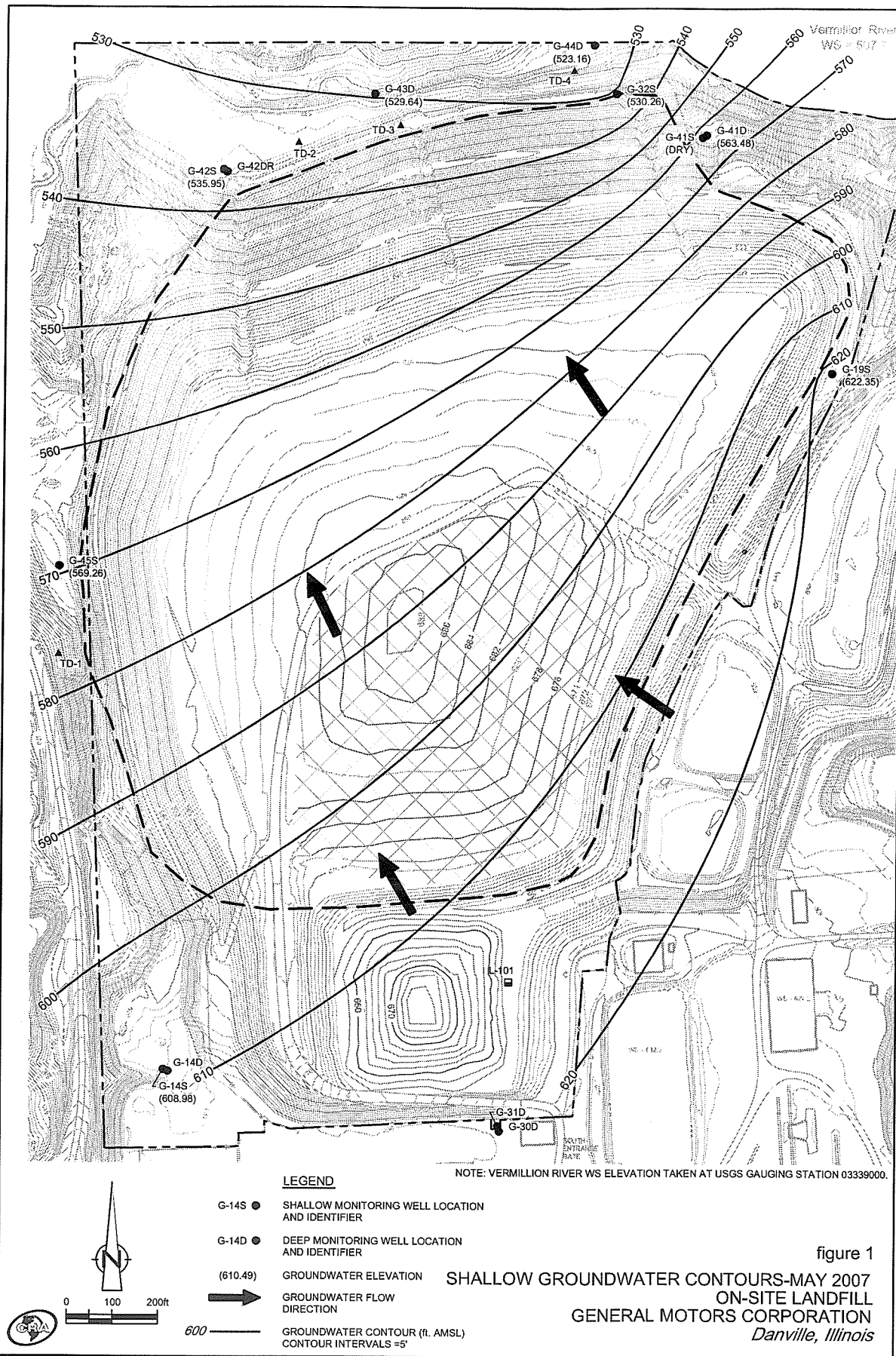
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General Motors Foundry Landfill, Danville, Illinois

Wellzone	Chemical	Meas Basis	Analyzed	Detected	Min Detected	Max Detected	Units	Class IV Groundwater Standard (35 IAC 620.440)	Ratio Max to Class IV Standard	Background Concentration	Ratio Max to Background Concentration	2x PQL	Ratio Max to 2x PQL
Deep	Antimony	T	18	4	3.00E-05	1.20E-04	MG/L	2.4E-02	5.0E-03				
Deep	Arsenic	D	43	8	4.00E-04	4.00E-03	MG/L	2.0E-01	2.0E-02				
Deep	Arsenic	T	18	7	3.00E-04	3.00E-03	MG/L	2.0E-01	1.5E-02				
Deep	Barium	T	18	18	4.20E-02	2.04E-01	MG/L	2.0E+00	1.0E-01				
Deep	Beryllium	T	18	4	6.00E-06	3.00E-05	MG/L	5.0E-01	6.0E-05				
Deep	Boron	T	18	17	1.07E-01	2.60E-01	MG/L	2.0E+00	1.3E-01				
Deep	Cadmium	D	43	6	6.50E-05	3.20E-04	MG/L	5.0E-02	6.4E-03				
Deep	Cadmium	T	18	6	9.00E-05	7.00E-04	MG/L	5.0E-02	1.4E-02				
Deep	Calcium	D	3	3	1.18E+02	1.42E+02	MG/L						
Deep	Calcium	T	3	3	1.14E+02	1.20E+02	MG/L						
Deep	Organic Carbon (Dissolved)	D	2	2	2.40E+00	2.40E+00	MG/L						
Deep	Organic Carbon (total)	T	41	41	1.70E+00	2.88E+01	MG/L						
Deep	Chloride	D	125	125	3.70E+00	5.30E+01	MG/L	2.0E+02	2.7E-01	2.4E+01	2.2E+00		
Deep	Chloride	T	30	30	1.00E+01	4.73E+01	MG/L	2.0E+02	2.4E-01	2.4E+01	2.0E+00		
Deep	Chromium (total)	T	18	9	3.30E-04	7.00E-02	MG/L	1.0E+00	7.0E-02				
Deep	Cobalt	T	18	12	8.14E-04	9.00E-03	MG/L	1.0E+00	9.0E-03				
Deep	Copper	T	18	16	8.00E-04	9.00E-03	MG/L	6.5E-01	1.4E-02				
Deep	Cyanide (total)	T	43	1	4.00E-03	4.00E-03	MG/L	6.0E-01	6.7E-03				
Deep	Dissolved solids (total)	D	7	7	7.31E+02	8.05E+02	MG/L	1.2E+03	6.7E-01	8.5E+02	9.5E-01		
Deep	Dissolved solids (total)	T	118	118	3.00E+02	1.19E+03	MG/L	1.2E+03	9.9E-01	8.5E+02	1.4E+00		
Deep	Fluoride	D	10	10	2.00E-01	7.00E-01	MG/L	4.0E+00	1.8E-01				
Deep	Fluoride	T	26	13	2.20E-01	6.00E-01	MG/L	4.0E+00	1.5E-01				
Deep	Iron	D	93	39	7.10E-03	3.00E+00	MG/L	5.0E+00	6.0E-01	1.9E+00	1.5E+00		
Deep	Iron	T	28	25	4.68E-02	1.84E+02	MG/L	5.0E+00	3.7E+01	1.9E+00	9.5E+01		
Deep	Lead	D	43	6	1.70E-05	1.59E-04	MG/L	1.0E-01	1.6E-03				
Deep	Lead	T	18	9	3.60E-05	1.00E-02	MG/L	1.0E-01	1.0E-01				
Deep	Manganese	D	95	88	2.00E-03	5.90E+00	MG/L	1.0E+01	5.9E-01	1.8E-01	3.3E+01		
Deep	Manganese	T	26	26	3.60E-02	3.54E+00	MG/L	1.0E+01	3.5E-01	1.8E-01	2.0E+01		
Deep	Mercury	D	43	2	1.30E-04	1.40E-04	MG/L	1.0E-02	1.4E-02				
Deep	Mercury	T	18	1	2.00E-05	2.00E-05	MG/L	1.0E-02	2.0E-03				
Deep	Nickel	T	18	18	1.70E-03	1.50E-02	MG/L	2.0E+00	7.5E-03				
Deep	Nitrate	T	18	8	1.90E-02	5.90E-01	MG/L	1.0E+02	5.9E-03				
Deep	Organic Halides (total)	T	43	4	4.00E-03	4.20E-02	MG/L						
Deep	pH	T	92	92	5.97E+00	1.16E+01	S.U.	9.0E+00	1.3E+00				
Deep	Phenol	T	43				MG/L	1.0E-01				1.9E-02	
Deep	Selenium	T	18	4	2.00E-04	4.00E-04	MG/L	5.0E-02	8.0E-03				
Deep	Silver	T	18	1	3.00E-06	3.00E-06	MG/L						
Deep	Specific Conductivity	T	1	1	1.09E+03	1.09E+03	UMHOS/CM						
Deep	Sulfate	D	124	124	4.60E+01	7.50E+03	MG/L	4.0E+02	1.9E+01	1.9E+02	4.0E+01		
Deep	Sulfate	T	30	30	1.32E+02	1.81E+02	MG/L	4.0E+02	4.5E-01	1.9E+02	9.7E-01		
Deep	Temperature	T	1	1	1.86E+01	1.86E+01	DEG C						
Deep	Thallium	T	18	5	1.00E-05	1.00E-02	MG/L	2.0E-02	5.0E-01				
Deep	Zinc	T	18	18	2.01E-03	2.42E-01	MG/L	1.0E+01	2.4E-02				
Notes:													
Constituents analyzed, per condition 18, from wells included in condition 17 of the supplemental permit are shown.													
Deep wells are identified as those wells screened in the shale (G-14D and G-31D).													
Ratios of concentration to the criteria greater than 1 are shaded in bold.													
Chem Group - chemical group													
Meas Basis - measured basis; T = total, D = dissolved													
Background concentrations are calculated per Attachment B of Supplemental Permit 2006-290													
According to IEPA, the Class IV Objective is the Class II Objective													
The practical quantitation limit (PQL) for organic constituents are from the appropriate analytical method from USEPA's Test Methods for Evaluating Solid Waste (SW-846)													

**Table 2: Potential Groundwater Effects on Vermillion River using Maximum Quarterly Groundwater Concentration
General Motors Foundry Landfill, Danville, Illinois**

Chemical	Meas Basis	C _{Qgw} (mg/L)	C _{Pgw} (mg/L)	C _{PSW} (mg/L)	C _{Qsw} (mg/L)	General Use WQ Std (mg/L)
Chloride	D	1.7E+02	8.1E+01	7.7E-02	1.6E-01	5.0E+02
Chloride	T	1.6E+02	6.5E+01	6.2E-02	1.5E-01	5.0E+02
Total Dissolved Solids	T	2.0E+03	3.2E+03	3.1E+00	1.9E+00	1.0E+03
Iron	D	3.9E+01	1.3E+02	1.2E-01	3.7E-02	1.0E+00
Iron	T	5.9E+01	1.9E+02	1.8E-01	5.6E-02	1.0E+00
Manganese	D	4.9E+00	5.3E+00	5.1E-03	4.7E-03	1.0E+00
Manganese	T	4.8E+00	5.3E+00	5.1E-03	4.6E-03	1.0E+00
pH	T	6.31 to 7.23 (s.u.)	5.63 to 8.76 (s.u.)	6.99 to 7.02 (s.u.)	7 to 7 (s.u.)	6.5 to 9.0 (s.u.)
Sulfate	D	1.2E+03	2.0E+03	1.9E+00	1.1E+00	5.0E+02
Sulfate	T	1.2E+03	1.5E+03	1.5E+00	1.1E+00	5.0E+02
Notes:						
C _{Qgw} is the highest detected groundwater concentration from the quarterly groundwater data (May 2006 to May 2007) from monitoring wells G-19S, G-32S, G-41D, G-42S, G-43D, and G-44D						
C _{Pgw} is the hishest detected groundwater concentration evaluated in 2005 (Table 3 of <i>Human Health and Environmental Significance of Groundwater Quality Data</i> (ENVIRON 2005))						
C _{PSW} is the estimated surface water concentration from groundwater concentrations used in 2005 (Table 3 of <i>Human Health and Environmental Significance of Groundwater Quality Data</i> (ENVIRON 2005))						
C _{Qsw} is the estimated surface water concentration from quarterly groundwater concentrations						
General Use Water Quality Standards are from 35 IAC 302.204 for pH and 35 IAC 302.208 for the remaining chemicals						

FIGURE



ATTACHMENT B

**ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007**

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>		<i>G14D</i>	<i>G14S</i>	<i>G19S</i>	<i>G30D</i>	<i>G31D</i>
<i>Sample ID:</i>		GW-012615-050207-NH-005	GW-012615-050207-NH-004	GW-012615-050407-NH-009	GW-012615-050207-NH-002	GW-012615-050107-NH-001
<i>Sample Date:</i>		5/2/2007	5/2/2007	5/4/2007	5/1/2007	5/1/2007
<i>Parameters:</i>	<i>Units</i>					
<u>Volatile Organic Compounds</u>						
1,1,1-Trichloroethane	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
1,1-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
1,2,4-Trimethylbenzene	ug/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	10 U	10 U	10 U	2.0 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	10 U	10 U	10 U	2.0 U	10 U
1,2-Dichloroethane	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
1,2-Dichloropropane	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
1,3,5-Trimethylbenzene	ug/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	10 U	10 U	10 U	20 U	10 U
2-Phenylbutane (sec-Butylbenzene)	ug/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	10 U	10 U	10 U	20 U	10 U
Acetone	ug/L	10 U	10 U	10 U	20 U	10 U
Benzene	ug/L	2.0 U	2.0 U	2.0 U	0.50 U	2.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Carbon tetrachloride	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Chlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Chloroform (Trichloromethane)	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Ethylbenzene	ug/L	2.0 U	2.0 U	2.0 U	0.50 U	2.0 U
Hexane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isobutyl alcohol	ug/L	50 U	50 U	50 U	50 U	50 U
Isopropylbenzene	ug/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
m&p-Xylene	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
o-Xylene	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Styrene	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
tert-Butylbenzene	ug/L	5.0 U	5.0 U	5.0 U	2.0 U	5.0 U
Tetrachloroethene	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Toluene	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Trichloroethene	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	5.0 U	5.0 U	5.0 U	0.50 U	5.0 U
Vinyl chloride	ug/L	10 U	10 U	10 U	0.50 U	10 U

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>	<i>G14D</i>	<i>G14S</i>	<i>G19S</i>	<i>G30D</i>	<i>G31D</i>
<i>Sample ID:</i>	GW-012615-050207-NH-005	GW-012615-050207-NH-004	GW-012615-050407-NH-009	GW-012615-050207-NH-002	GW-012615-050107-NH-001
<i>Sample Date:</i>	5/2/2007	5/2/2007	5/4/2007	5/1/2007	5/1/2007
<i>Parameters:</i>	<i>Units</i>				
<u><i>Semivolatile Organic Compounds</i></u>					
1,2-Dichlorobenzene	ug/L	11 U	11 U	12 U	9.9 U
1,4-Dichlorobenzene	ug/L	11 U	11 U	12 U	9.9 U
2,4,5-Trichlorophenol	ug/L	11 U	11 U	12 U	9.9 U
2,4,6-Trichlorophenol	ug/L	11 U	11 U	12 U	9.9 U
2,4-Dichlorophenol	ug/L	11 U	11 U	12 U	9.9 U
2,4-Dimethylphenol	ug/L	11 U	11 U	12 U	9.9 U
2,4-Dinitrophenol	ug/L	27 U	27 U	28 U	25 U
2-Chlorophenol	ug/L	11 U	11 U	12 U	9.9 U
2-Methylnaphthalene	ug/L	11 U	11 U	12 U	9.9 U
2-Methylphenol	ug/L	11 U	11 U	12 U	9.9 U
4,6-Dinitro-2-methylphenol	ug/L	27 U	27 U	28 U	25 U
4-Methylphenol	ug/L	11 U	11 U	12 U	9.9 U
4-Nitrophenol	ug/L	27 U	27 U	28 U	25 U
Acenaphthene	ug/L	11 U	11 U	12 U	9.9 U
Alachlor	ug/L	0.073 U	0.078 U	0.081 U	0.071 U
Anthracene	ug/L	11 U	11 U	12 U	9.9 U
Atrazine	ug/L	0.11 U	0.11 U	0.12 U	0.099 U
Benzidine	ug/L	54 U	54 U	56 U	50 U
Benzo(a)anthracene	ug/L	11 U	11 U	12 U	9.9 U
Benzo(a)pyrene	ug/L	11 U	11 U	12 U	9.9 U
Benzoic acid	ug/L	27 U	27 U	28 U	25 U
bis(2-Ethylhexyl)phthalate	ug/L	11 U	11 U	12 U	9.9 U
Butyl benzylphthalate	ug/L	11 U	11 U	12 U	9.9 U
Chloroacetaldehyde	ug/L	11 U	11 U	11 U	9.8 U
Chrysene	ug/L	11 U	11 U	12 U	9.9 U
Dimethyl phthalate	ug/L	11 U	11 U	12 U	9.9 U
Di-n-butylphthalate	ug/L	11 U	11 U	12 U	9.9 U
Di-n-octyl phthalate	ug/L	11 U	11 U	12 U	9.9 U
Fluoranthene	ug/L	11 U	11 U	12 U	9.9 U
Fluorene	ug/L	11 U	11 U	12 U	9.9 U
Hexachlorocyclopentadiene	ug/L	11 U	11 U	12 U	9.9 U
Naphthalene	ug/L	11 U	11 U	12 U	9.9 U
Nitrobenzene	ug/L	11 U	11 U	12 U	9.9 U
N-Nitrosodimethylamine	ug/L	27 U	27 U	28 U	25 U
N-Nitrosodiphenylamine	ug/L	11 U	11 U	12 U	9.9 U
Paraldehyde	ug/L	11 U	11 U	11 U	9.8 U

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>		<i>G14D</i>	<i>G14S</i>	<i>G19S</i>	<i>G30D</i>	<i>G31D</i>
<i>Sample ID:</i>		GW-012615-050207-NH-005	GW-012615-050207-NH-004	GW-012615-050407-NH-009	GW-012615-050207-NH-002	GW-012615-050107-NH-001
<i>Sample Date:</i>		5/2/2007	5/2/2007	5/4/2007	5/1/2007	5/1/2007
<i>Parameters:</i>	<i>Units</i>					
<u><i>Semivolatile Organic Compounds (cont'd)</i></u>						
Pentachlorophenol	ug/L	27 U	27 U	27 U	28 U	25 U
Phenanthrene	ug/L	11 U	11 U	11 U	12 U	9.9 U
Phenol	ug/L	11 U	11 U	11 U	12 U	9.9 U
Phorate	ug/L	11 U	11 U	11 U	11 U	9.8 U
Pyrene	ug/L	11 U	11 U	11 U	12 U	9.9 U
Pyridine	ug/L	27 U	27 U	27 U	28 U	25 U
Simazine	ug/L	0.051 U	0.054 U	0.053 U	0.057 U	0.050 U
Toluene diisocyanate (mixed isomers)	ug/L	11 U	11 U	11 U	11 U	9.8 U
Toluene-2,6-diisocyanate	ug/L	-	-	-	-	-
<u><i>Metals</i></u>						
Antimony	ug/L	0.03 J	0.03 J	0.16	0.05 U	0.05 U
Arsenic	ug/L	0.39 J	0.58	0.23 J	1.02	0.57
Arsenic (Dissolved)	ug/L	0.46 J	0.43 J	0.21 J	0.94	0.62
Barium	ug/L	50.6	22.1	81	48.2	101
Beryllium	ug/L	0.006 J	0.043	0.006 J	0.02 U	0.02 U
Boron	ug/L	116	52.8	102	125	225
Cadmium	ug/L	0.092	0.173	0.068	0.085	0.16
Cadmium (Dissolved)	ug/L	0.065	0.046	0.054	0.082	0.116
Calcium	ug/L	-	-	117000	-	-
Calcium (Dissolved)	ug/L	-	-	123000	-	-
Chromium Total	ug/L	0.3 U	1.51	1.56	0.31 U	0.37 U
Cobalt	ug/L	0.868	1.11	0.376	0.519	0.814
Copper	ug/L	0.8	2.83	1.32	0.72	1.13
Iron	ug/L	178	1600	149	1310	48.5 U
Iron (Dissolved)	ug/L	197	78	6.7 J	456	23.5 U
Lead	ug/L	0.076	1.16	0.751	0.04	0.036
Lead (Dissolved)	ug/L	0.025	0.011 J	0.098	0.011 J	0.017 J
Manganese	ug/L	124	45.7	24.5	96.6	45.1
Manganese (Dissolved)	ug/L	208	51.3	5.9	152	37.8
Mercury	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Mercury (Dissolved)	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	ug/L	7.43	7.96	6.05	5.93	6.88
Selenium	ug/L	0.4 J	0.4 J	5 U	0.3 J	0.2 J
Silver	ug/L	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Thallium	ug/L	0.013 J	0.021	0.011 J	0.01 J	0.014 J
Zinc	ug/L	4.01	14.1	7.52	1.6	2.01

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>		<i>G14D</i>	<i>G14S</i>	<i>G19S</i>	<i>G30D</i>	<i>G31D</i>
<i>Sample ID:</i>		GW-012615-050207-NH-005	GW-012615-050207-NH-004	GW-012615-050407-NH-009	GW-012615-050207-NH-002	GW-012615-050107-NH-001
<i>Sample Date:</i>		5/2/2007	5/2/2007	5/4/2007	5/1/2007	5/1/2007
<i>Parameters:</i>	<i>Units</i>					
<u>Polychlorinated Biphenyls</u>						
Aroclor-1016 (PCB-1016)	ug/L	0.20 U	0.23 U	0.24 U	0.21 U	0.22 U
Aroclor-1221 (PCB-1221)	ug/L	0.39 U	0.45 U	0.47 U	0.42 U	0.43 U
Aroclor-1232 (PCB-1232)	ug/L	0.20 U	0.23 U	0.24 U	0.21 U	0.22 U
Aroclor-1242 (PCB-1242)	ug/L	0.20 U	0.23 U	0.24 U	0.21 U	0.22 U
Aroclor-1248 (PCB-1248)	ug/L	0.20 U	0.23 U	0.24 U	0.21 U	0.22 U
Aroclor-1254 (PCB-1254)	ug/L	0.20 U	0.23 U	0.24 U	0.21 U	0.22 U
Aroclor-1260 (PCB-1260)	ug/L	0.20 U	0.23 U	0.24 U	0.21 U	0.22 U
<u>Pesticides</u>						
4,4'-DDD	ug/L	-	-	-	-	0.011 U
4,4'-DDE	ug/L	-	-	-	-	0.011 U
4,4'-DDT	ug/L	-	-	-	-	0.011 U
Aldicarb	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Aldrin	ug/L	-	-	-	-	0.011 U
alpha-BHC	ug/L	-	-	-	-	0.011 U
alpha-Chlordane	ug/L	0.0096 U	0.012 U	0.012 U	0.011 U	0.011 U
beta-BHC	ug/L	-	-	-	-	0.011 U
Carbofuran	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
delta-BHC	ug/L	-	-	-	-	0.011 U
Dieldrin	ug/L	-	-	-	-	0.011 U
Endosulfan I	ug/L	-	-	-	-	0.011 U
Endosulfan II	ug/L	-	-	-	-	0.011 U
Endosulfan sulfate	ug/L	-	-	-	-	0.011 U
Endothall	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Endrin	ug/L	0.0096 U	0.012 U	0.012 U	0.011 U	0.011 U
Endrin aldehyde	ug/L	-	-	-	-	0.011 U
Endrin ketone	ug/L	-	-	-	-	0.011 U
gamma-BHC (Lindane)	ug/L	0.0010 J	0.0012 J	0.012 U	0.011 U	0.011 U
gamma-Chlordane	ug/L	0.0096 U	0.012 U	0.012 U	0.011 U	0.011 U
Heptachlor	ug/L	0.0096 U	0.012 U	0.012 U	0.011 U	0.011 U
Heptachlor epoxide	ug/L	0.0096 U	0.012 U	0.012 U	0.011 U	0.011 U
Methoxychlor	ug/L	0.0096 U	0.012 U	0.012 U	0.011 U	0.011 U
Toxaphene	ug/L	0.48 U	0.56 U	0.59 U	0.53 U	0.53 U

**ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS**

<i>Sample Location:</i>		<i>G14D</i>	<i>G14S</i>	<i>G19S</i>	<i>G30D</i>	<i>G31D</i>
<i>Sample ID:</i>		GW-012615-050207-NH-005	GW-012615-050207-NH-004	GW-012615-050407-NH-009	GW-012615-050207-NH-002	GW-012615-050107-NH-001
<i>Sample Date:</i>		5/2/2007	5/2/2007	5/4/2007	5/1/2007	5/1/2007
<i>Parameters:</i>	<i>Units</i>					
<u>Herbicides</u>						
2,4,5-TP (Silvex)	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4-Amino-3,5,6-trichloropicolinic acid (Picloram)	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dalapon	ug/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Dinoseb	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
<u>General Chemistry</u>						
Ammonia (Dissolved)	mg/L	0.11	0.05 U	0.05 U	0.45	1.81
Chloride	mg/L	47.3	11.0	2.2	15.7	11.2
Chloride (Dissolved)	mg/L	15.0	10.5	2.1	13.8	12.0
Cyanide (total)	mg/L	0.01 U	0.01 U	0.01 U	0.003 J	0.01 U
Dissolved Organic Carbon (DOC)	mg/L	-	-	2.5	-	-
Fluoride	mg/L	0.22 J	0.196 J	0.57	0.41	0.5
Fluoride (Dissolved)	mg/L	0.3	0.2	0.6	0.5	0.7
Nitrate (as N)	mg/L	0.019 J	0.027 J	0.79	0.040 J	0.07
Sulfate	mg/L	139	144	48.1	184	165
Sulfate (Dissolved)	mg/L	131	143	34	188	153
Total Dissolved Solids (TDS)	mg/L	676	736	422	800	739
Total Organic Carbon (TOC)	mg/L	2.6	2.7	2.4	1.5	2.8
Total Organic Halides (TOX)	ug/L	10 U	10 U	10 U	10 U	10 U

**ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS**

Sample Location:		G32S	G41D	G42DR	G42S	G43D
Sample ID:		GW-012615-050707-NH-012	GW-012615-050207-NH-006	GW-012615-050407-NH-010	GW-012615-050407-NH-011	GW-012615-050307-NH-008
Sample Date:		5/7/2007	5/2/2007	5/4/2007	5/4/2007	5/3/2007
Parameters:	Units					
<u>Volatile Organic Compounds</u>						
1,1,1-Trichloroethane	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trimethylbenzene	ug/L	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	10 U	2.0 U	10 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	10 U	2.0 U	10 U	10 U	10 U
1,2-Dichloroethane	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
1,3,5-Trimethylbenzene	ug/L	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	10 U	20 U	10 U	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	ug/L	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	10 U	20 U	10 U	10 U	10 U
Acetone	ug/L	10 U	20 U	10 U	10 U	10 U
Benzene	ug/L	2.0 U	0.50 U	2.0 U	2.0 U	2.0 U
Carbon disulfide	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	2.0 U	0.50 U	2.0 U	2.0 U	2.0 U
Hexane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isobutyl alcohol	ug/L	50 U	50 U	50 U	50 U	50 U
Isopropylbenzene	ug/L	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U
m&p-Xylene	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U
o-Xylene	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
tert-Butylbenzene	ug/L	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	5.0 U	0.50 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/L	10 U	0.50 U	10 U	10 U	10 U

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

Sample Location:	G32S	G41D	G42DR	G42S	G43D
Sample ID:	GW-012615-050707-NH-012	GW-012615-050207-NH-006	GW-012615-050407-NH-010	GW-012615-050407-NH-011	GW-012615-050307-NH-008
Sample Date:	5/7/2007	5/2/2007	5/4/2007	5/4/2007	5/3/2007
Parameters:	Units				
<u>Semivolatile Organic Compounds</u>					
1,2-Dichlorobenzene	ug/L	13 U	10 U	10 U	11 U
1,4-Dichlorobenzene	ug/L	13 U	10 U	10 U	11 U
2,4,5-Trichlorophenol	ug/L	13 U	10 U	10 U	11 U
2,4,6-Trichlorophenol	ug/L	13 U	10 U	10 U	11 U
2,4-Dichlorophenol	ug/L	13 U	10 U	10 U	11 U
2,4-Dimethylphenol	ug/L	13 U	10 U	10 U	11 U
2,4-Dinitrophenol	ug/L	32 U	25 U	25 U	27 U
2-Chlorophenol	ug/L	13 U	10 U	10 U	11 U
2-Methylnaphthalene	ug/L	13 U	10 U	10 U	11 U
2-Methylphenol	ug/L	13 U	10 U	10 U	11 U
4,6-Dinitro-2-methylphenol	ug/L	32 U	25 U	25 U	27 U
4-Methylphenol	ug/L	13 U	10 U	10 U	11 U
4-Nitrophenol	ug/L	32 U	25 U	25 U	27 U
Acenaphthene	ug/L	13 U	10 U	10 U	11 U
Alachlor	ug/L	0.075 U	0.072 U	0.072 U	0.079 U
Anthracene	ug/L	13 U	10 U	10 U	11 U
Atrazine	ug/L	0.11 U	0.10 U	0.10 U	0.11 U
Benzidine	ug/L	63 U	50 U	50 U	53 U
Benzo(a)anthracene	ug/L	13 U	10 U	10 U	11 U
Benzo(a)pyrene	ug/L	13 U	10 U	10 U	11 U
Benzoic acid	ug/L	32 U	25 U	25 U	27 U
bis(2-Ethylhexyl)phthalate	ug/L	13 U	10 U	10 U	11 U
Butyl benzylphthalate	ug/L	13 U	10 U	10 U	11 U
Chloroacetaldehyde	ug/L	13 U	10 U	10 U	11 U
Chrysene	ug/L	13 U	10 U	10 U	11 U
Dimethyl phthalate	ug/L	13 U	10 U	10 U	11 U
Di-n-butylphthalate	ug/L	13 U	10 U	10 U	11 U
Di-n-octyl phthalate	ug/L	13 U	10 U	10 U	11 U
Fluoranthene	ug/L	13 U	10 U	10 U	11 U
Fluorene	ug/L	13 U	10 U	10 U	11 U
Hexachlorocyclopentadiene	ug/L	13 U	10 U	10 U	11 U
Naphthalene	ug/L	13 U	10 U	10 U	11 U
Nitrobenzene	ug/L	13 U	10 U	10 U	11 U
N-Nitrosodimethylamine	ug/L	32 U	25 U	25 U	27 U
N-Nitrosodiphenylamine	ug/L	13 U	10 U	10 U	11 U
Paraldehyde	ug/L	13 U	10 U	10 U	11 U

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>		G32S	G41D	G42DR	G42S	G43D
<i>Sample ID:</i>		GW-012615-050707-NH-012	GW-012615-050207-NH-006	GW-012615-050407-NH-010	GW-012615-050407-NH-011	GW-012615-050307-NH-008
<i>Sample Date:</i>		5/7/2007	5/2/2007	5/4/2007	5/4/2007	5/3/2007
<i>Parameters:</i>	<i>Units</i>					
<u><i>Semivolatile Organic Compounds (cont'd)</i></u>						
Pentachlorophenol	ug/L	32 U	25 U	27 U	25 U	27 U
Phenanthrene	ug/L	13 U	10 U	11 U	10 U	11 U
Phenol	ug/L	13 U	10 U	11 U	10 U	11 U
Phorate	ug/L	13 U	10 U	11 U	10 U	11 U
Pyrene	ug/L	13 U	10 U	11 U	10 U	11 U
Pyridine	ug/L	32 U	25 U	27 U	25 U	27 U
Simazine	ug/L	0.052 U	0.050 U	0.050 U	0.050 U	0.055 U
Toluene diisocyanate (mixed isomers)	ug/L	-	10 U	11 U	10 U	11 U
Toluene-2,6-diisocyanate	ug/L	13 U	-	-	-	-
<u><i>Metals</i></u>						
Antimony	ug/L	0.07	0.06	0.05 U	0.33	0.04 J
Arsenic	ug/L	3.86	4.45	1.76	0.88	3.42
Arsenic (Dissolved)	ug/L	3.72	4.43	1.71	0.91	3.1
Barium	ug/L	17	13.8	35	73.4	93.5
Beryllium	ug/L	0.01 J	0.094	0.02 U	0.02 U	0.011 J
Boron	ug/L	500	622	627	730	159
Cadmium	ug/L	0.156	0.117	0.063	0.22	0.051
Cadmium (Dissolved)	ug/L	0.135	0.147	0.037	0.196	0.044
Calcium	ug/L	32900	91800	213000	-	136000
Calcium (Dissolved)	ug/L	33800	92600	214000	-	136000
Chromium Total	ug/L	0.71	0.46 U	0.61	0.9	0.65
Cobalt	ug/L	0.415	2.82	1.19	0.807	5.57
Copper	ug/L	0.3	0.97	1.26	2.23	0.82
Iron	ug/L	75.1	10500	17500	11700	4750
Iron (Dissolved)	ug/L	23.7 U	9850	20500	17000	4270
Lead	ug/L	0.024	0.006 J	0.108	0.117	0.097
Lead (Dissolved)	ug/L	0.02	0.019 J	0.02 U	0.02 U	0.018 J
Manganese	ug/L	192	1590	1110	468	4670
Manganese (Dissolved)	ug/L	186	1670	1170	578	4650
Mercury	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Mercury (Dissolved)	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	ug/L	2.75	11.2	9.05	14.3	9.56
Selenium	ug/L	0.8 J	0.7 J	5 U	5 U	1.4 J
Silver	ug/L	0.02 U	0.02 U	0.023	0.012 J	0.02 U
Thallium	ug/L	0.009 J	0.065	0.011 J	0.021	0.051
Zinc	ug/L	1.11	10.4	2.44	40.9	2.24

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

Sample Location:		G32S	G41D	G42DR	G42S	G43D
Sample ID:		GW-012615-050707-NH-012	GW-012615-050207-NH-006	GW-012615-050407-NH-010	GW-012615-050407-NH-011	GW-012615-050307-NH-008
Sample Date:		5/7/2007	5/2/2007	5/4/2007	5/4/2007	5/3/2007
Parameters:	Units					
<u>Polychlorinated Biphenyls</u>						
Aroclor-1016 (PCB-1016)	ug/L	0.22 U	0.25 U	0.22 U	0.23 U	0.23 U
Aroclor-1221 (PCB-1221)	ug/L	0.43 U	0.50 U	0.43 U	0.45 U	0.46 U
Aroclor-1232 (PCB-1232)	ug/L	0.22 U	0.25 U	0.22 U	0.23 U	0.23 U
Aroclor-1242 (PCB-1242)	ug/L	0.22 U	0.25 U	0.22 U	0.23 U	0.23 U
Aroclor-1248 (PCB-1248)	ug/L	0.22 U	0.25 U	0.22 U	0.23 U	0.23 U
Aroclor-1254 (PCB-1254)	ug/L	0.22 U	0.25 U	0.22 U	0.23 U	0.23 U
Aroclor-1260 (PCB-1260)	ug/L	0.22 U	0.25 U	0.22 U	0.23 U	0.23 U
<u>Pesticides</u>						
4,4'-DDD	ug/L	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-
Aldicarb	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Aldrin	ug/L	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-
alpha-Chlordane	ug/L	0.011 U	0.013 U	0.011 U	0.012 U	0.012 U
beta-BHC	ug/L	-	-	-	-	-
Carbofuran	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
delta-BHC	ug/L	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-
Endothall	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Endrin	ug/L	0.011 U	0.0016 J	0.011 U	0.012 U	0.012 U
Endrin aldehyde	ug/L	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-
gamma-BHC (Lindane)	ug/L	0.011 U	0.013 U	0.011 U	0.012 U	0.012 U
gamma-Chlordane	ug/L	0.011 U	0.013 U	0.011 U	0.012 U	0.012 U
Heptachlor	ug/L	0.011 U	0.013 U	0.011 U	0.00075 J	0.012 U
Heptachlor epoxide	ug/L	0.0024 J	0.013 U	0.011 U	0.012 U	0.012 U
Methoxychlor	ug/L	0.016	0.013 U	0.0040 J	0.012 U	0.012 U
Toxaphene	ug/L	1.2 U	0.63 U	0.53 U	0.56 U	0.58 U

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>		G32S	G41D	G42DR	G42S	G43D
<i>Sample ID:</i>		GW-012615-050707-NH-012	GW-012615-050207-NH-006	GW-012615-050407-NH-010	GW-012615-050407-NH-011	GW-012615-050307-NH-008
<i>Sample Date:</i>		5/7/2007	5/2/2007	5/4/2007	5/4/2007	5/3/2007
<i>Parameters:</i>	Units					
<u>Herbicides</u>						
2,4,5-TP (Silvex)	ug/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
4-Amino-3,5,6-trichloropicolinic acid (Picloram)	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Dalapon	ug/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Dinoseb	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
<u>General Chemistry</u>						
Ammonia (Dissolved)	mg/L	6.41	4.51	0.39	0.049 J	3.01
Chloride	mg/L	47.0	34.1	32.5	38.5	85.5
Chloride (Dissolved)	mg/L	46.3	38.1	31.9	40.0	88.6
Cyanide (total)	mg/L	0.006 J	0.004 J	0.01 U	0.003 J	0.01 U
Dissolved Organic Carbon (DOC)	mg/L	23.6	12.1	5.9	-	11.5
Fluoride	mg/L	16.7	2.6	0.49 J	1.4 J	0.35
Fluoride (Dissolved)	mg/L	15.5	3.0	0.4	1.3	0.3
Nitrate (as N)	mg/L	0.06	0.029 J	0.37	0.017 J	1.72
Sulfate	mg/L	56.6	267	693	1000	275
Sulfate (Dissolved)	mg/L	56	267	412	913	265
Total Dissolved Solids (TDS)	mg/L	431	873	1450	1880	997
Total Organic Carbon (TOC)	mg/L	24.8	11.1	5.9	3.9	11.5
Total Organic Halides (TOX)	ug/L	10 U	10	10 U	10 U	10 U

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>		<i>G44D</i>	<i>G45S</i>
<i>Sample ID:</i>		GW-012615-050307-NH-007	GW-012615-050107-NH-003
<i>Sample Date:</i>		5/3/2007	5/1/2007
<i>Parameters:</i>	<i>Units</i>		
<u><i>Volatile Organic Compounds</i></u>			
1,1,1-Trichloroethane	ug/L	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U
1,2,4-Trimethylbenzene	ug/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	10 U	10 U
1,2-Dichloroethane	ug/L	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5.0 U	5.0 U
1,3,5-Trimethylbenzene	ug/L	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	10 U	10 U
2-Phenylbutane (sec-Butylbenzene)	ug/L	5.0 U	5.0 U
4-Methyl-2-Pentanone			
(Methyl Isobutyl Ketone)	ug/L	10 U	10 U
Acetone	ug/L	10 U	10 U
Benzene	ug/L	2.0 U	2.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5.0 U	5.0 U
Chlorobenzene	ug/L	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5.0 U	5.0 U
Ethylbenzene	ug/L	2.0 U	2.0 U
Hexane	ug/L	5.0 U	5.0 U
Isobutyl alcohol	ug/L	50 U	50 U
Isopropylbenzene	ug/L	5.0 U	5.0 U
m&p-Xylene	ug/L	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U
o-Xylene	ug/L	5.0 U	5.0 U
Styrene	ug/L	5.0 U	5.0 U
tert-Butylbenzene	ug/L	5.0 U	5.0 U
Tetrachloroethene	ug/L	5.0 U	5.0 U
Toluene	ug/L	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5.0 U	5.0 U
Trichloroethene	ug/L	5.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	5.0 U	5.0 U
Vinyl chloride	ug/L	10 U	10 U

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>	<i>G44D</i>	<i>G45S</i>
<i>Sample ID:</i>	GW-012615-050307-NH-007	GW-012615-050107-NH-003
<i>Sample Date:</i>	5/3/2007	5/1/2007
<i>Parameters:</i>	<i>Units</i>	

Semivolatile Organic Compounds

1,2-Dichlorobenzene	ug/L	11 U	10 U
1,4-Dichlorobenzene	ug/L	11 U	10 U
2,4,5-Trichlorophenol	ug/L	11 U	10 U
2,4,6-Trichlorophenol	ug/L	11 U	10 U
2,4-Dichlorophenol	ug/L	11 U	10 U
2,4-Dimethylphenol	ug/L	11 U	10 U
2,4-Dinitrophenol	ug/L	26 U	25 U
2-Chlorophenol	ug/L	11 U	10 U
2-Methylnaphthalene	ug/L	11 U	10 U
2-Methylphenol	ug/L	11 U	10 U
4,6-Dinitro-2-methylphenol	ug/L	26 U	25 U
4-Methylphenol	ug/L	11 U	10 U
4-Nitrophenol	ug/L	26 U	25 U
Acenaphthene	ug/L	11 U	10 U
Alachlor	ug/L	0.075 U	0.088 U
Anthracene	ug/L	11 U	10 U
Atrazine	ug/L	0.11 U	0.13 U
Benzidine	ug/L	52 U	50 U
Benzo(a)anthracene	ug/L	11 U	10 U
Benzo(a)pyrene	ug/L	11 U	10 U
Benzoic acid	ug/L	26 U	25 U
bis(2-Ethylhexyl)phthalate	ug/L	11 U	10 U
Butyl benzylphthalate	ug/L	11 U	10 U
Chloroacetaldehyde	ug/L	10 U	10 U
Chrysene	ug/L	11 U	10 U
Dimethyl phthalate	ug/L	11 U	10 U
Di-n-butylphthalate	ug/L	11 U	10 U
Di-n-octyl phthalate	ug/L	11 U	10 U
Fluoranthene	ug/L	11 U	10 U
Fluorene	ug/L	11 U	10 U
Hexachlorocyclopentadiene	ug/L	11 U	10 U
Naphthalene	ug/L	11 U	10 U
Nitrobenzene	ug/L	11 U	10 U
N-Nitrosodimethylamine	ug/L	26 U	25 U
N-Nitrosodiphenylamine	ug/L	11 U	10 U
Paraldehyde	ug/L	10 U	10 U

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>		<i>G44D</i>	<i>G45S</i>
<i>Sample ID:</i>		GW-012615-050307-NH-007	GW-012615-050107-NH-003
<i>Sample Date:</i>		5/3/2007	5/1/2007
<i>Parameters:</i>	<i>Units</i>		
<u><i>Semivolatile Organic Compounds (cont'd)</i></u>			
Pentachlorophenol	ug/L	26 U	25 U
Phenanthrene	ug/L	11 U	10 U
Phenol	ug/L	11 U	10 U
Phorate	ug/L	10 U	10 U
Pyrene	ug/L	11 U	10 U
Pyridine	ug/L	26 U	25 U
Simazine	ug/L	0.052 U	0.061 U
Toluene diisocyanate (mixed isomers)	ug/L	10 U	10 U
Toluene-2,6-diisocyanate	ug/L	-	-
<u><i>Metals</i></u>			
Antimony	ug/L	0.05 U	0.05 U
Arsenic	ug/L	0.84	2.65
Arsenic (Dissolved)	ug/L	0.88	2.66
Barium	ug/L	109	19.4
Beryllium	ug/L	0.02 U	0.009 J
Boron	ug/L	270	684
Cadmium	ug/L	0.041	0.286
Cadmium (Dissolved)	ug/L	0.046	0.25
Calcium	ug/L	87800	-
Calcium (Dissolved)	ug/L	87800	-
Chromium Total	ug/L	0.34 U	0.25 U
Cobalt	ug/L	2.09	0.76
Copper	ug/L	0.47	0.87
Iron	ug/L	260	877
Iron (Dissolved)	ug/L	241	817
Lead	ug/L	0.017 J	0.046
Lead (Dissolved)	ug/L	0.013 J	0.02 J
Manganese	ug/L	3250	214
Manganese (Dissolved)	ug/L	3270	206
Mercury	ug/L	0.2 U	0.2 U
Mercury (Dissolved)	ug/L	0.2 U	0.2 U
Nickel	ug/L	5.86	6.93
Selenium	ug/L	0.5 J	1 J
Silver	ug/L	0.02 U	0.018 J
Thallium	ug/L	0.041	0.028
Zinc	ug/L	9	2.71

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>		<i>G44D</i>	<i>G45S</i>
<i>Sample ID:</i>		GW-012615-050307-NH-007	GW-012615-050107-NH-003
<i>Sample Date:</i>		5/3/2007	5/1/2007
<i>Parameters:</i>	<i>Units</i>		
<i><u>Polychlorinated Biphenyls</u></i>			
Aroclor-1016 (PCB-1016)	ug/L	0.24 U	0.20 U
Aroclor-1221 (PCB-1221)	ug/L	0.48 U	0.40 U
Aroclor-1232 (PCB-1232)	ug/L	0.24 U	0.20 U
Aroclor-1242 (PCB-1242)	ug/L	0.24 U	0.20 U
Aroclor-1248 (PCB-1248)	ug/L	0.24 U	0.20 U
Aroclor-1254 (PCB-1254)	ug/L	0.24 U	0.20 U
Aroclor-1260 (PCB-1260)	ug/L	0.24 U	0.20 U
<i><u>Pesticides</u></i>			
4,4'-DDD	ug/L	-	0.010 U
4,4'-DDE	ug/L	-	0.010 U
4,4'-DDT	ug/L	-	0.010 U
Aldicarb	ug/L	0.50 U	0.50 U
Aldrin	ug/L	-	0.010 U
alpha-BHC	ug/L	-	0.010 U
alpha-Chlordane	ug/L	0.012 U	0.010 U
beta-BHC	ug/L	-	0.010 U
Carbofuran	ug/L	0.50 U	0.50 U
delta-BHC	ug/L	-	0.020
Dieldrin	ug/L	-	0.010 U
Endosulfan I	ug/L	-	0.010 U
Endosulfan II	ug/L	-	0.010 U
Endosulfan sulfate	ug/L	-	0.010 U
Endothall	ug/L	5.0 U	5.0 U
Endrin	ug/L	0.012 U	0.010 U
Endrin aldehyde	ug/L	-	0.010 U
Endrin ketone	ug/L	-	0.010 U
gamma-BHC (Lindane)	ug/L	0.012 U	0.010 U
gamma-Chlordane	ug/L	0.012 U	0.010 U
Heptachlor	ug/L	0.012 U	0.0032 J
Heptachlor epoxide	ug/L	0.012 U	0.010 U
Methoxychlor	ug/L	0.012 U	0.010 U
Toxaphene	ug/L	0.59 U	0.50 U

ANALYTICAL RESULTS SUMMARY
ANNUAL GROUNDWATER SAMPLING EVENT - MAY 2007
GM/REALM DANVILLE LANDFILL
DANVILLE, ILLINOIS

<i>Sample Location:</i>		<i>G44D</i>	<i>G45S</i>
<i>Sample ID:</i>		GW-012615-050307-NH-007	GW-012615-050107-NH-003
<i>Sample Date:</i>		5/3/2007	5/1/2007
<i>Parameters:</i>	<i>Units</i>		
<u><i>Herbicides</i></u>			
2,4,5-TP (Silvex)	ug/L	0.050 U	0.050 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	0.10 U	0.10 U
4-Amino-3,5,6-trichloropicolinic acid (Picloram)	ug/L	0.10 U	0.10 U
Dalapon	ug/L	0.54 U	0.54 U
Dinoseb	ug/L	0.20 U	0.20 U
<u><i>General Chemistry</i></u>			
Ammonia (Dissolved)	mg/L	1.10	0.17
Chloride	mg/L	36.7	35.5
Chloride (Dissolved)	mg/L	41.2	41.5
Cyanide (total)	mg/L	0.01 U	0.01 U
Dissolved Organic Carbon (DOC)	mg/L	5.1	-
Fluoride	mg/L	1.7	0.7
Fluoride (Dissolved)	mg/L	1.6	0.9
Nitrate (as N)	mg/L	0.05 U	0.27
Sulfate	mg/L	154	250
Sulfate (Dissolved)	mg/L	140	267
Total Dissolved Solids (TDS)	mg/L	624	945
Total Organic Carbon (TOC)	mg/L	5.0	3.5
Total Organic Halides (TOX)	ug/L	10 U	10 U

Notes:

J - Estimated concentration.

U - Not present at or above the associated value.

-- Not analyzed.