FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

April 4, 2014

Mr. Robert E. Aston, P.G.
U.S. Environmental Protection Agency
Region 7, Air and Waste Management Division
Waste Remediation and Permitting Branch
11201 Renner Boulevard
Lenexa, KS 66219

Subject: **Revised Supplementary Soil and Groundwater Investigation**
Sauer-Danfoss, Inc.
2800 East 13th Street
Ames, Iowa

Dear Mr. Aston:

Fehr Graham has completed the soil and groundwater investigation proposed in the March 22, 2013, ISCO Pilot Test Summary. This work occurred on June 24 - 27, 2013, the purpose, of which, was to determine the existence, if any, of a contaminant source area upgradient of monitoring well MW-R13. This revised letter report summarizes the results, provides conclusions, presents our next proposed action, and responds to all comments identified in the Memorandum by USEPA, dated September 24, 2013.

If you recall, contaminant levels had decreased markedly in response to the chemical oxidation injection pilot test that occurred surrounding the monitoring well MW-R13. After the activity of the sulfate radical decreased, concentrations began to increase. The increase was attributed to either desorption in the treatment area or contaminant flux from an upgradient source.

Field Work

Fehr Graham arrived at the site on June 24, 2013, to conduct the marking of proposed locations along with a public and private utility locate. Groundwater samples were also collected from the existing wells MW-5, MW-R6S, and MW-R13 for the purpose to better define the current contaminant occurrence.

Upon arrival to the site the following day, the Health and Safety Plan contents were discussed with the subcontractors and all present were required to sign acknowledging adherence to the Plan.

RCRA
530775

Soil Investigation

To investigate the possibility of an upgradient source from MW-R13, soil borings were advanced in the immediate area south of the wastewater treatment plant and continued south near the monitoring well MW-R13 in a grid pattern (please see Figure 1 and Figure 2). In total, 29 borings were completed by Direct Push Analytical from St. Charles, Illinois, using the Geoprobe 54DT. Each boring was completed to a depth between 16 and 20 feet below surface grade, with most to 16 feet into the underlying glacial till facies. The water table was encountered at about 6 feet below the ground surface. Soil samples were collected from the four-foot-long dual tube sampler equipped with PVC liners. Each liner was field screened in one-foot sections using a calibrated MiniRae 2000 photoionization detector. A minimum of one soil sample per boring was delivered to the Environmental Chemistry Consulting Services (ECCS) mobile laboratory chemist using the Lock N' Load™ sampling device and an unpreserved plastic jar for dry weight correction. All samples were analyzed for the indicator contaminants acetone, 1,1-dichloroethane (1,1-DCA), 1,2- dichloroethane (1,2-DCA), 1,1-dichloroethylene (1,1-DCE), 1,2- dichloroethylene, cis+trans (cis-DCE and trans-DCE), 1,4-dioxane, methylene chloride, tetrachloroethylene (PCE), 1,1,1-trichloroethane and 1,1,2-trichloroethane (TCA), trichloroethylene (TCE), vinyl chloride (VC), and xylenes (total). The chosen sampling intervals were determined based on PID measurements both above and below the water table. Please see Table 1.

From Table 1, it is of interest to note that PCE exceeds its soil saturation limits (Csat) and Regional Screening Level (RSL) at the boring B-26, located approximately 40 feet upgradient from the well MW-R13. At this boring, shallow contamination occurs at two feet below surface grade and at 10 feet to about 16 feet, where PCE levels range from 85 mg/kg to 690 mg/kg. This area of failing Csat is defined by the borings B-28, B-29, B-30, and B-31. Also of interest, 1,1,1-trichlorethane contamination exists at relatively high concentrations at these same borings, but does not exceed Csat or RSL. The maximum reported concentration is 26 mg/kg.

Groundwater Investigation

Temporary monitoring wells were installed at each boring location using 1-inch PVC with ten-foot screens and the remainder casing. The depth to water was measured prior to sampling each temporary monitoring well; however, the temporary wells TMW-25 and TMW-29 were dry for the duration of the project and could not be sampled. All others were purged dry and allowed to recharge prior to sampling. The sampling was conducted with a peristaltic pump with new dedicated HDPE/polypropylene tubing. Upon sample collection, three unpreserved 40-mL vials were provided to the lab chemist for analysis of acetone, 1,1-DCA, 1,2-DCA, 1,1-DCE, cis-DCE and trans-DCE, methylene chloride, PCE, TCA, TCE, VC, and xylenes (total). Limitations of the mobile lab precluded 1,4-dioxane

analysis, except seven samples were submitted for fixed laboratory analysis. Please see Table 2. After all groundwater samples were collected, the casings and screens of each temporary monitoring well were removed and the borehole was backfilled with bentonite chips.

Areas of minimal or relatively minor groundwater contamination consisting of 1,1-DCE, 1,4-dioxane, PCE, and TCE exist to include the region encompassed by TMW-1 through TMW-11. The next row south of TMW-11, in the fenced area of the test track, also had relatively minor detections of the same constituents in addition to VC; however, several areas of rather significant contamination, especially 1,1-DCA, but also 1,1-DCE and 1,1,1-TCA exist. This is primarily centered about TMW-18 but also includes TMW-17, except is defined to the north by TMW-10 and TMW-11, to the west by TMW-16, TMW-29 was dry and could not be sampled, but all constituents in soil below the water table were non-detect, and, finally, to the south by TMW-19. Reported concentrations at TMW-18 for 1,1-DCA and 1,1,1-TCA is 28,000 ug/L and 4,100 ug/L, respectively.

Continuing in a southerly direction to the fourth row of temporary wells, including TMW-22, TMW-23, TMW-24, TMW-26, and TMW-27, gross contamination exceeding 1% of the PCE and/or 1,1,1-TCA solubility limits exists. Maximum reported concentrations of PCE and 1,1,1-TCA are 230,000 ug/L and 110,000 ug/L, respectively. This area of gross contamination is generally defined to the north by TMW-12, TMW-13, and TMW-15, to the west by TMW-28, and to the east by TMW-21 (TMW-25 was dry and could not be sampled). The southern limits are not defined in the immediate vicinity of the temporary wells or MW-R13, considering groundwater flow is generally to the south and large permanent well spacing.

Results

Concerns relating to an upgradient source contributing to or causing the increases in the dissolved chlorinated solvent concentrations in MW-R13 were confirmed. One other area with chlorinated solvent impacts was also identified, also in the upgradient direction from MW-R13. Figure 3 identifies the estimated location where soil saturation limits are exceeded for PCE. Figure 4 displays the estimated plumes for all significant contaminants.

Conclusions

Two areas of significant contaminant contribution exist. One is located near the well MW-R13, the other is located upgradient of this monitoring well. These contaminant sources are expected to be long term contributors to soil and groundwater contamination by processes such as desorption, diffusion, dispersion, and advection. Based on this discovery, we have concluded the increase of contamination levels in MW-R13 after the ISCO pilot test injections was not due to desorption in the treatment area, but migration

from these two impact areas into pilot test treatment area. Without addressing these contaminant sources through additional pilot testing, the goal of source reduction and allowing the residual to work through the existing interceptor trench system cannot be sustained.

Proposed Action

Our initial pilot testing was designed and implemented based on the data we had at the time. With this more recent data, it is clear two distinct source areas exist. These source areas have much higher contaminant levels, both in soil and groundwater than what had been identified to this point. Based on information generated as a result of this report, we are proposing a new pilot approach. Since the activated persulfate responded well and has the capabilities of mineralizing all indicator contaminants, for this pilot test phase, we are proposing to mix the persulfate, sodium hydroxide (25 weight percent), and potable water in-situ. This in-situ soil mixing would deploy the Lang Tool (www.langtool.com) with metered delivery to the mixing head and GPS for accurate ratios per treatment cell. Based on the clay content and cohesive properties of the material, the upper six feet will be temporarily stockpiled and covered with sheeting. Silt fence will be set to surround the entire area of contamination. Once the lower material has been sufficiently mixed and the persulfate evenly distributed throughout each cell, the stockpile material will be placed back into the mixing zone and treatment will occur. Stabilization will occur at the end by placing stone over the top until settlement is complete.

Impacts were identified to about 16 feet below surface grade. Our intent is to conduct the pilot test to a depth of about 18 feet to ensure mixing over the vertical thickness that is impacted and slightly beyond.

That proposed treatment area would include, at a minimum, the area of borings B-17, B-22, B-26, B-27, B-28, B-30, and B-31 to a depth of approximately 18 feet below surface grade and results in a total volume of approximately 3,600 cubic yards (please see Figures 5, 6, and 7). Pending approval, pilot testing by deploying Klozur® activated sodium persulfate, 25 weight percent sodium hydroxide, and potable water would occur to reduce concentrations below soil saturation limits and gross dissolved phase concentrations.

Performance groundwater monitoring would occur approximately two months and four months after the conclusion of the pilot test. This is the same monitoring schedule applied subsequent to the first two injection pilot test phases. We anticipate significant reduction in the contaminants at MW-R13 first, followed by others downgradient over time. The annual monitoring for the current interceptor trench would also provide overall site data that would be reviewed as well.

We would like to begin this work starting the week of May 5, 2014. Should you have any questions, comments, or require additional information, please do not hesitate to contact Joel Zirkle at (815) 394-4700 or me at (815) 235-7643.

Sincerely,

Jeffrey M. Ogden, P.G.
Senior Hydrogeologist

Joel P. Zirkle, P.G.
Principal

JMO:mll

Attachments
Figure 1 - Soil Boring/Monitoring Well Location Map
Figure 2 - Soil Boring/Temporary Monitoring Well Location Map
Figure 3 - Soil Contamination Plume Map
Figure 4 - Groundwater Contamination Plume Maps
Figure 5 - In-situ Soil Mixing Pilot Test Location Map
Figure 6 - In-situ Soil Mixing Pilot Test Coordinate Map
Figure 7 - In-Situ Soil Mixing Pilot Test Grid Map

Table 1 - Soil Sample Results
Table 2 - Groundwater Sample Results
Soil Boring Logs/Temporary Monitoring Well Diagrams
Laboratory Analytical Reports

cc: Mr. Ken Foltz, Sauer-Danfoss Inc.
Mr. Russ Peters, Sauer-Danfoss Inc.

O:\Sauer-Danfoss, Inc. - Ames, IA\10-500\Final\Soil Investigation August 2013\JMO 10-500 - Soil-Groundwater Investigation Letter (revised).doc

Figure 1

Soil Boring/Monitoring Well Location Map

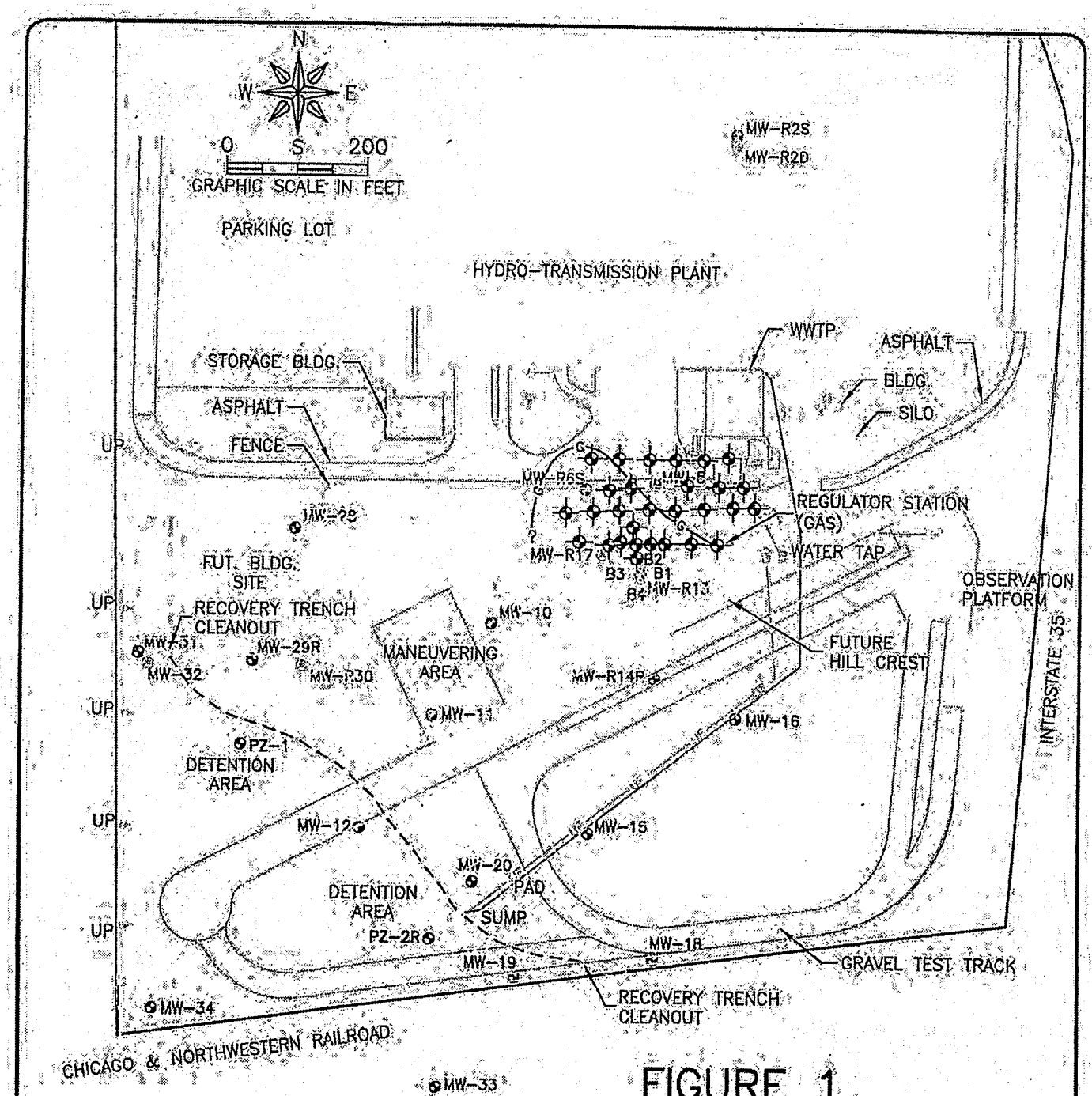

FIGURE 1

SOIL BORING/MONITORING WELL LOCATION MAP
SAUER-DANFOSS FACILITY
2800 E. 13th STREET
AMES, IOWA

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL

07/29/13

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Figure 2

Soil Boring/Temporary Monitoring Well Location Map

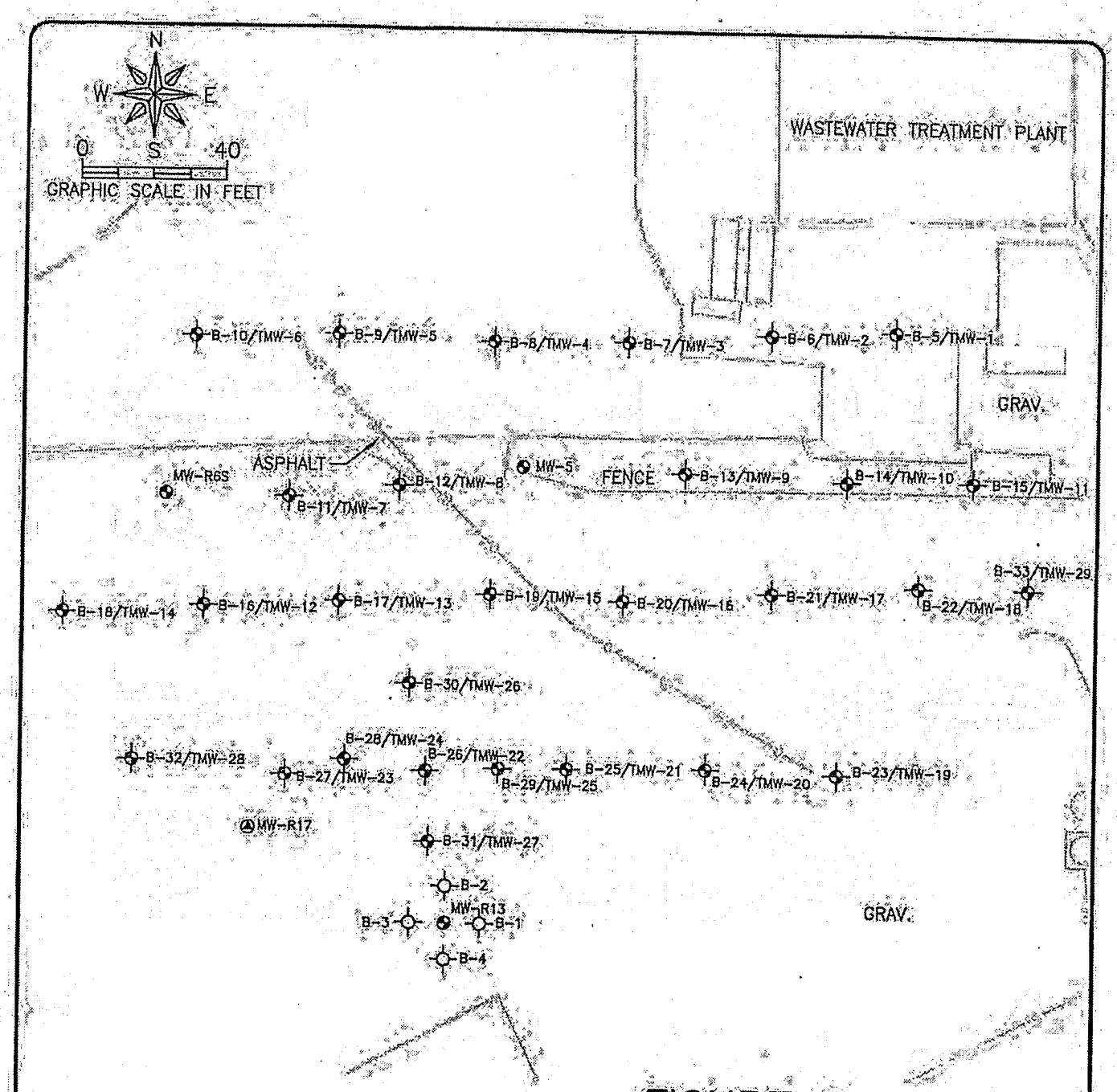

FIGURE 2

SOIL BORING/TEMPORARY MONITORING WELL LOCATION MAP
SAUER-DANFOSS FACILITY
2800 E. 13th STREET
AMES, IOWA

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL

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Figure 3

Soil Contamination Plume Map

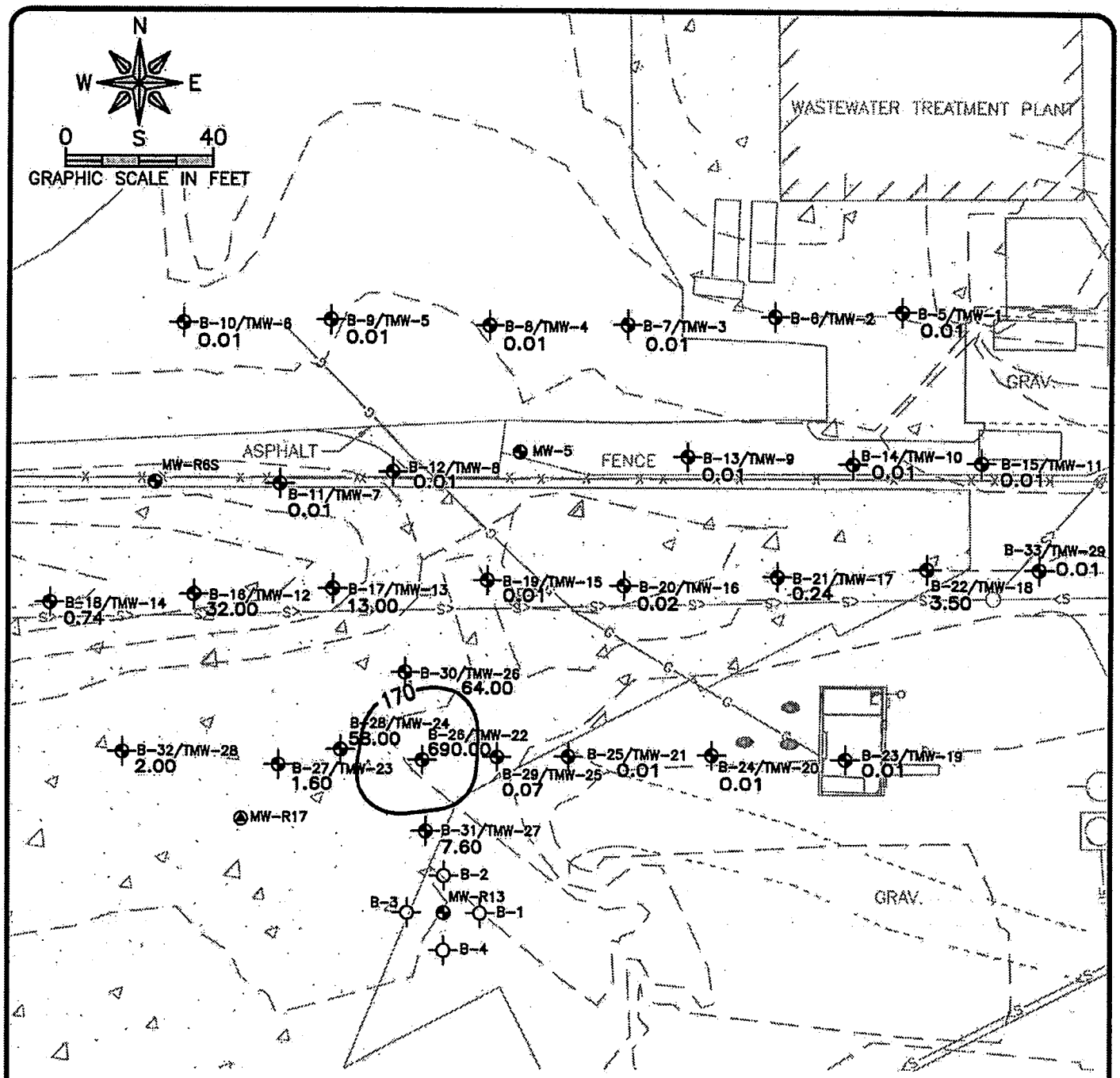

FIGURE 3

SOIL CONTAMINATION PLUME MAP – PCE
SAUER–DANFOSS FACILITY
2800 E. 13th STREET
AMES, IOWA

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL
- mg/kg

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Figure 4

Groundwater Contamination Plume Maps

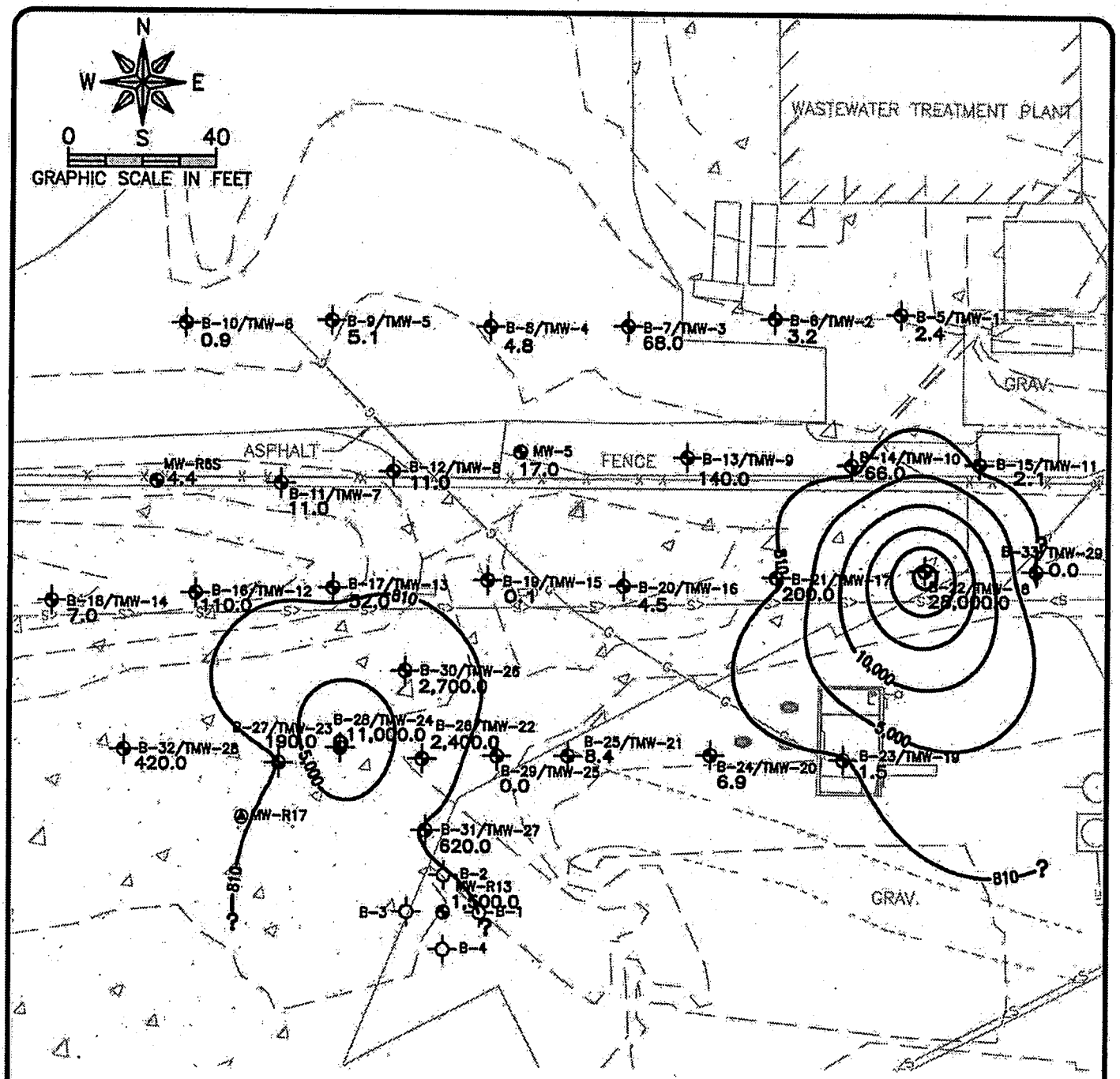

FIGURE 4

GROUNDWATER CONTAMINATION PLUME MAP – 1,1–DCA
SAUER–DANFOSS FACILITY
2800 E. 13th STREET
AMES, IOWA

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL
- µg/L

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G:\C30\10\10-500\10-500 Base-2013 100213.dwg, Fig4g

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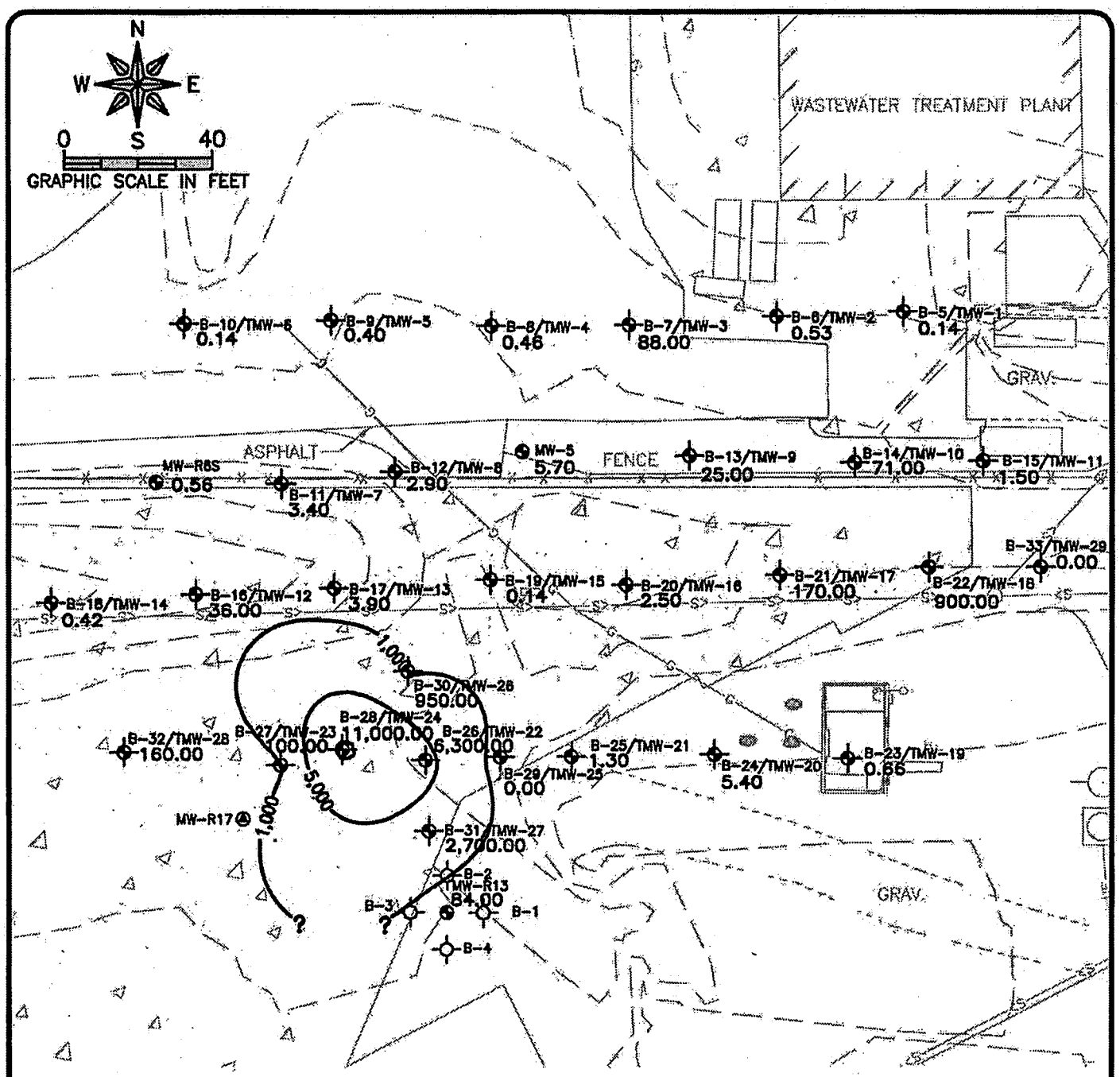

FIGURE 4

GROUNDWATER CONTAMINATION PLUME MAP – 1,1–DCE
SAUER–DANFOSS FACILITY
2800 E. 13th STREET
AMES, IOWA

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL
- µg/L

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G:\C3D\10\10-500\10-500 Base-2013 100213.dwg, Fig4b

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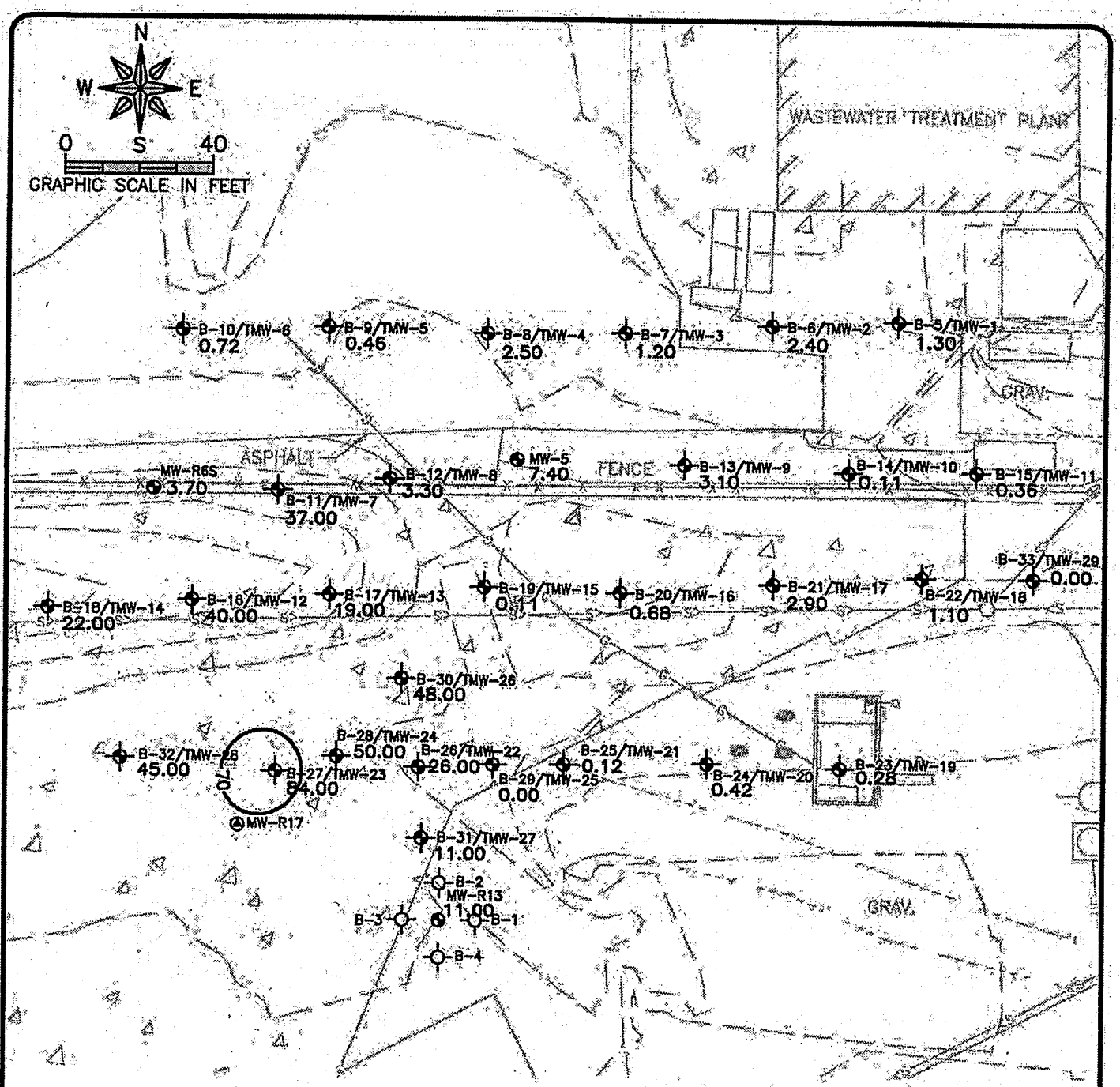

FIGURE 4
GROUNDWATER CONTAMINATION PLUME MAP – CIS-DCE
SAUER-DANFOSS FACILITY
2800 E. 13th STREET
AMES, IOWA

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL
- µg/L

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G:\C30\10\10-500\10-500 Base-2013 100213.dwg, Fig4c

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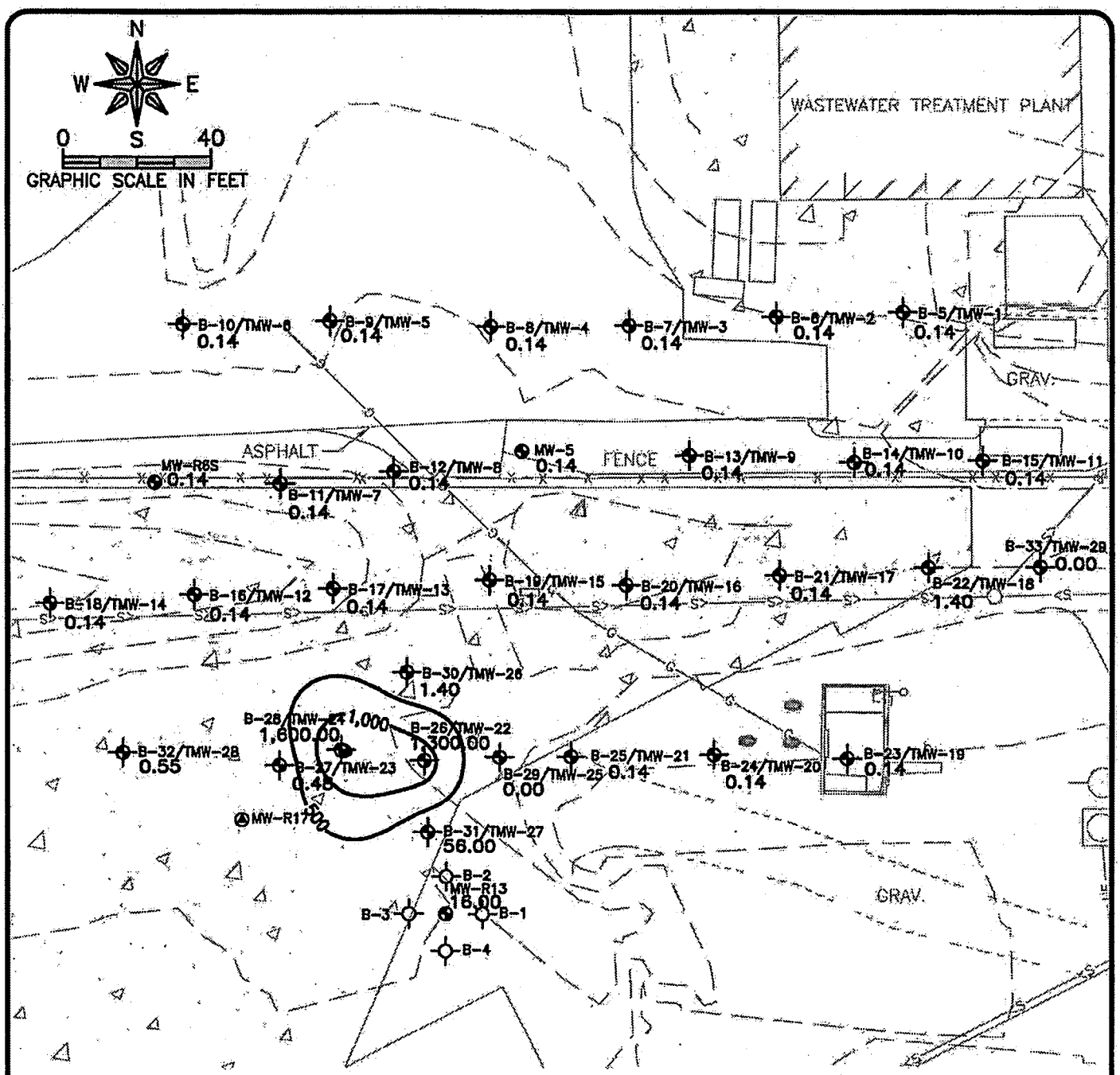

FIGURE 4

GROUNDWATER CONTAMINATION PLUME MAP – METHYLENE CHLORIDE SAUER–DANFOSS FACILITY 2800 E. 13th STREET AMES, IOWA

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL
- µg/L

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G:\C3D\10\10-500\10-500 Base-2013 100213.dwg, Fig4a

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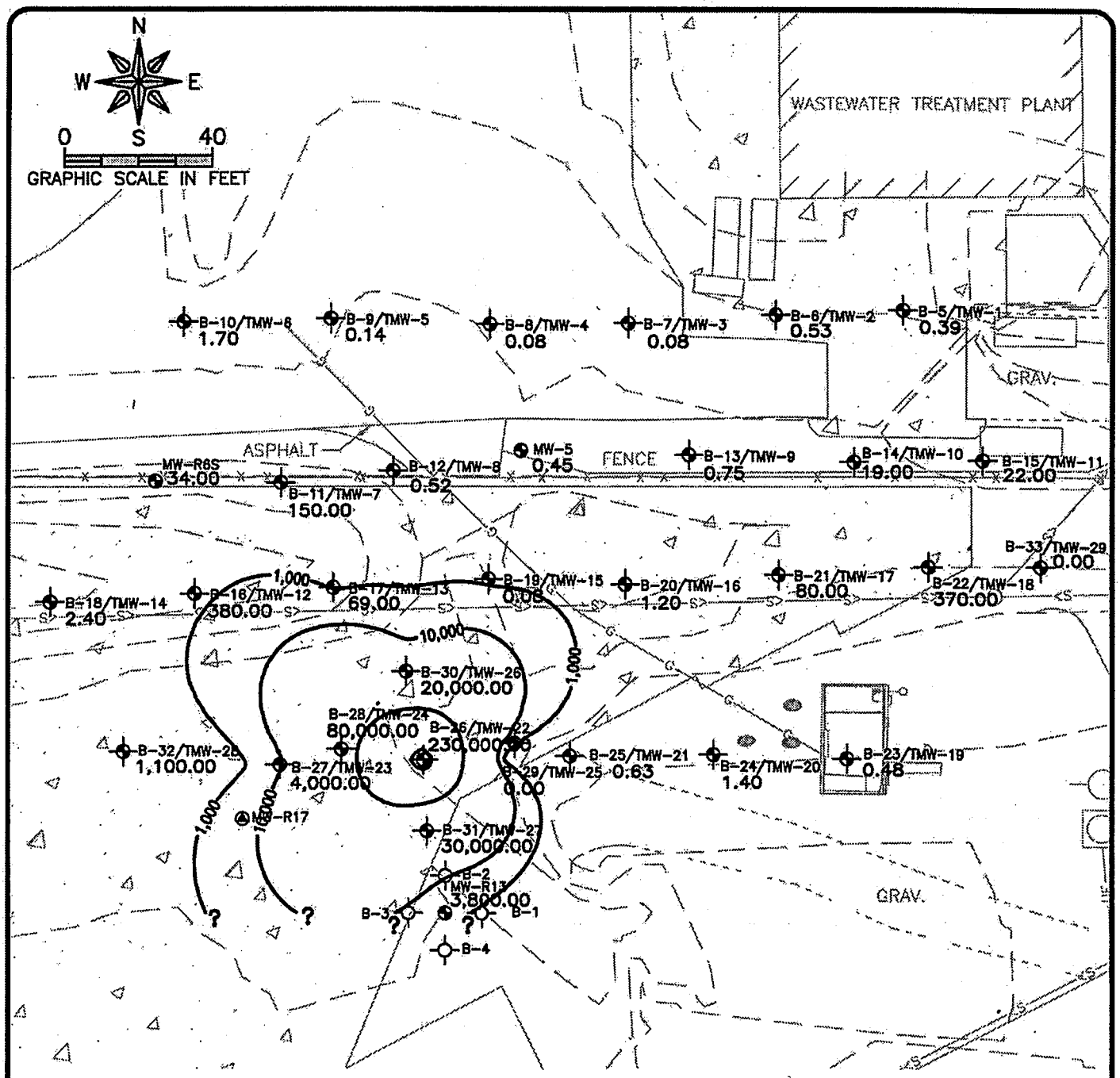

FIGURE 4

GROUNDWATER CONTAMINATION PLUME MAP – PCE SAUER–DANFOSS FACILITY 2800 E. 13th STREET AMES, IOWA

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL
- µg/L

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G:\C3D\10\10-500\10-500 Base-2013 100213.dwg, Fig4e

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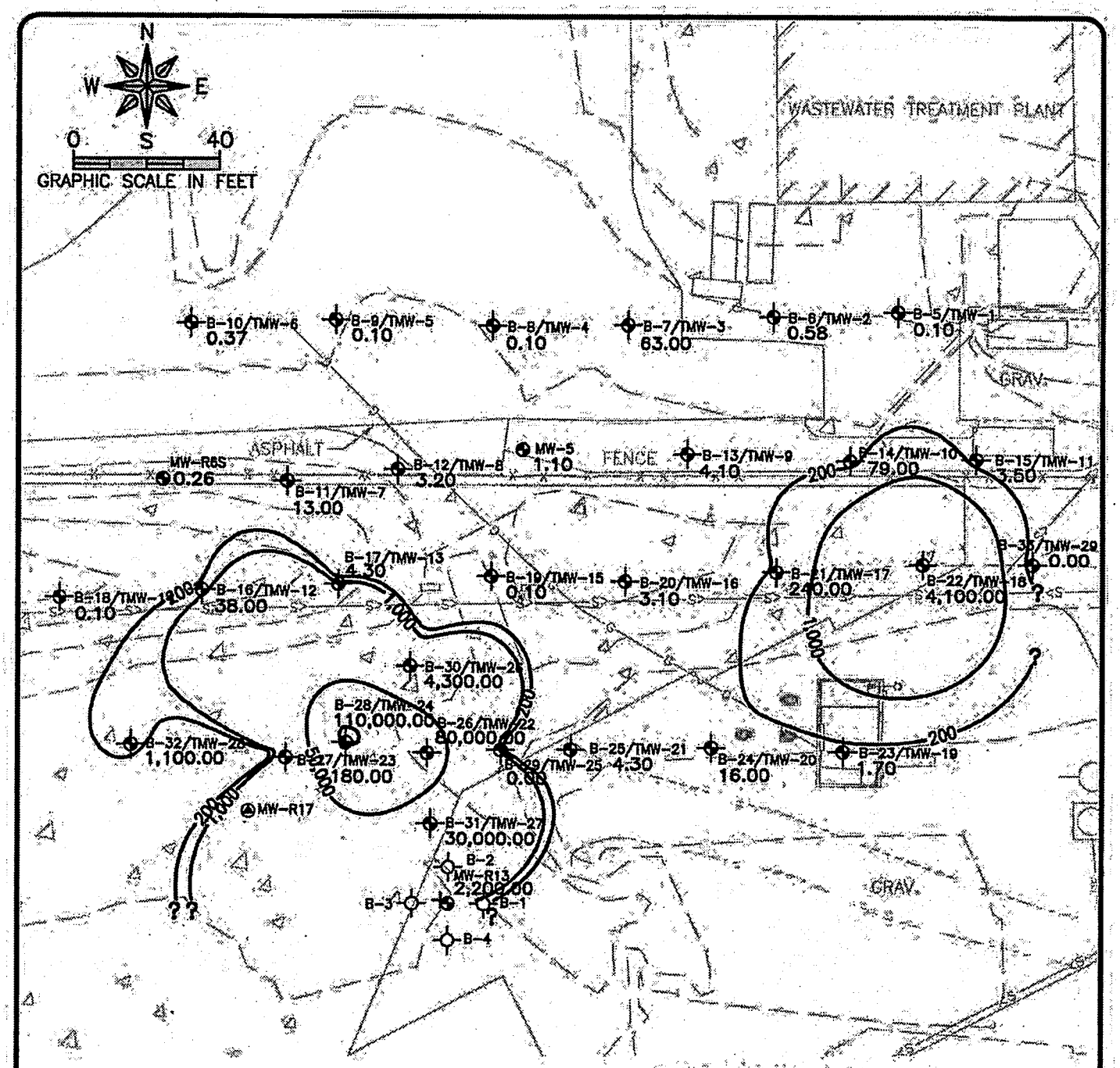

FIGURE 4

GROUNDWATER CONTAMINATION PLUME MAP – 1,1,1-TCA SAUER-DANFOSS FACILITY 2800 E. 13th STREET AMES, IOWA

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL
- µg/L

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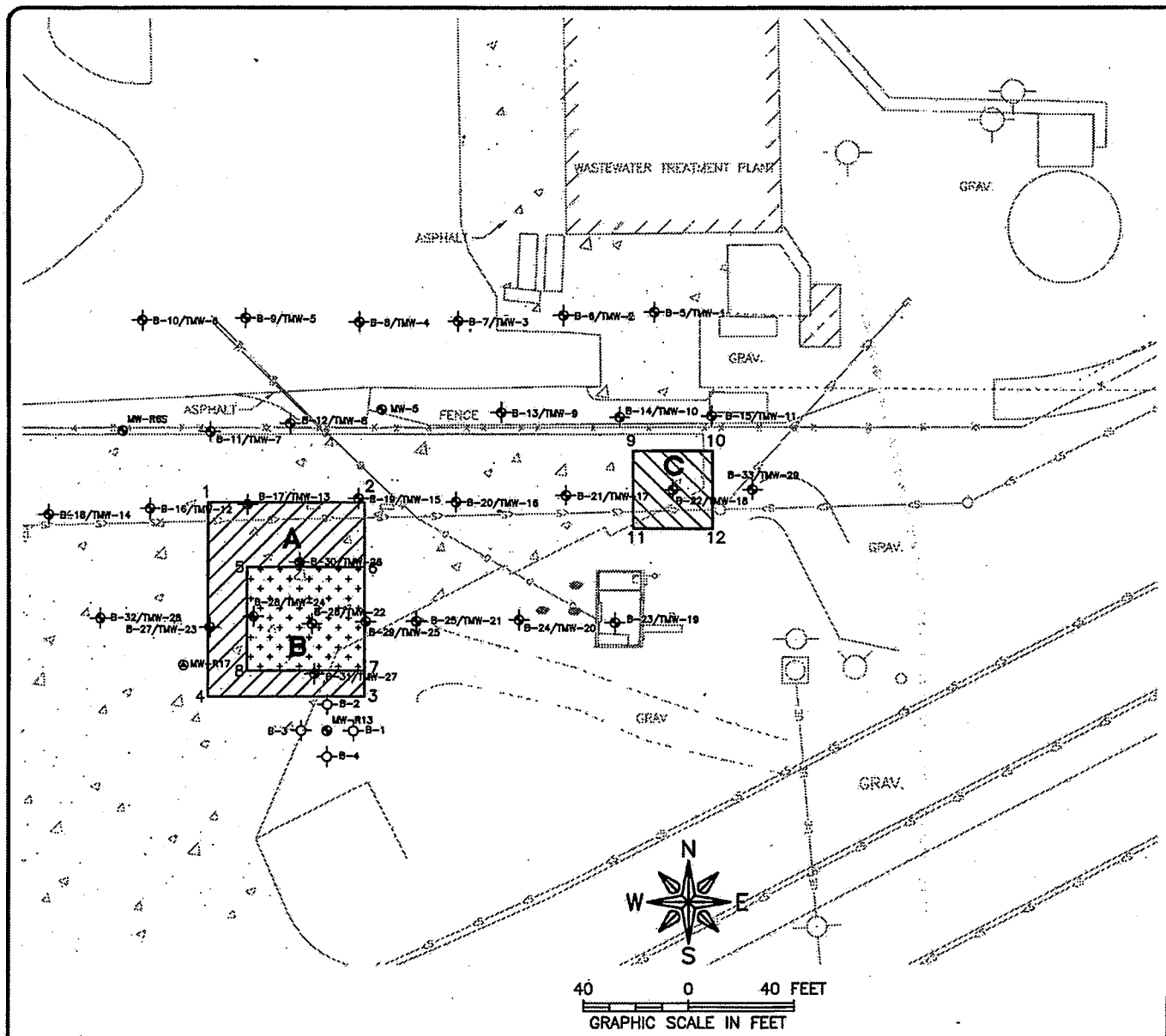
Figure 5

In-Situ Soil Mixing Pilot Test

Location Map



G:\C3D\10\10-500\10-500 Base-2013 100213.dwg, FIG 5

GENERAL NOTES

MINIMUM DEPTH FOR TREATMENT OF AREAS A, B AND C IS 18 FT. BELOW GRADE.

SUMMARY OF QUANTITIES

66,120 LBS. OF KLOZUR® SODIUM PERSULFATE WILL BE DELIVERED TO SITE.

105,300 LBS. OF 25% BY WEIGHT SODIUM HYDROXIDE WILL BE DELIVERED TO SITE.

223,686 LBS. OF POTABLE WATER WILL BE DELIVERED TO SITE.

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL

FIGURE 5

IN-SITU SOIL MIXING PILOT TEST
LOCATION MAP
SAUER-DANFOSS FACILITY
2800 E. 13th STREET
AMES, IOWA

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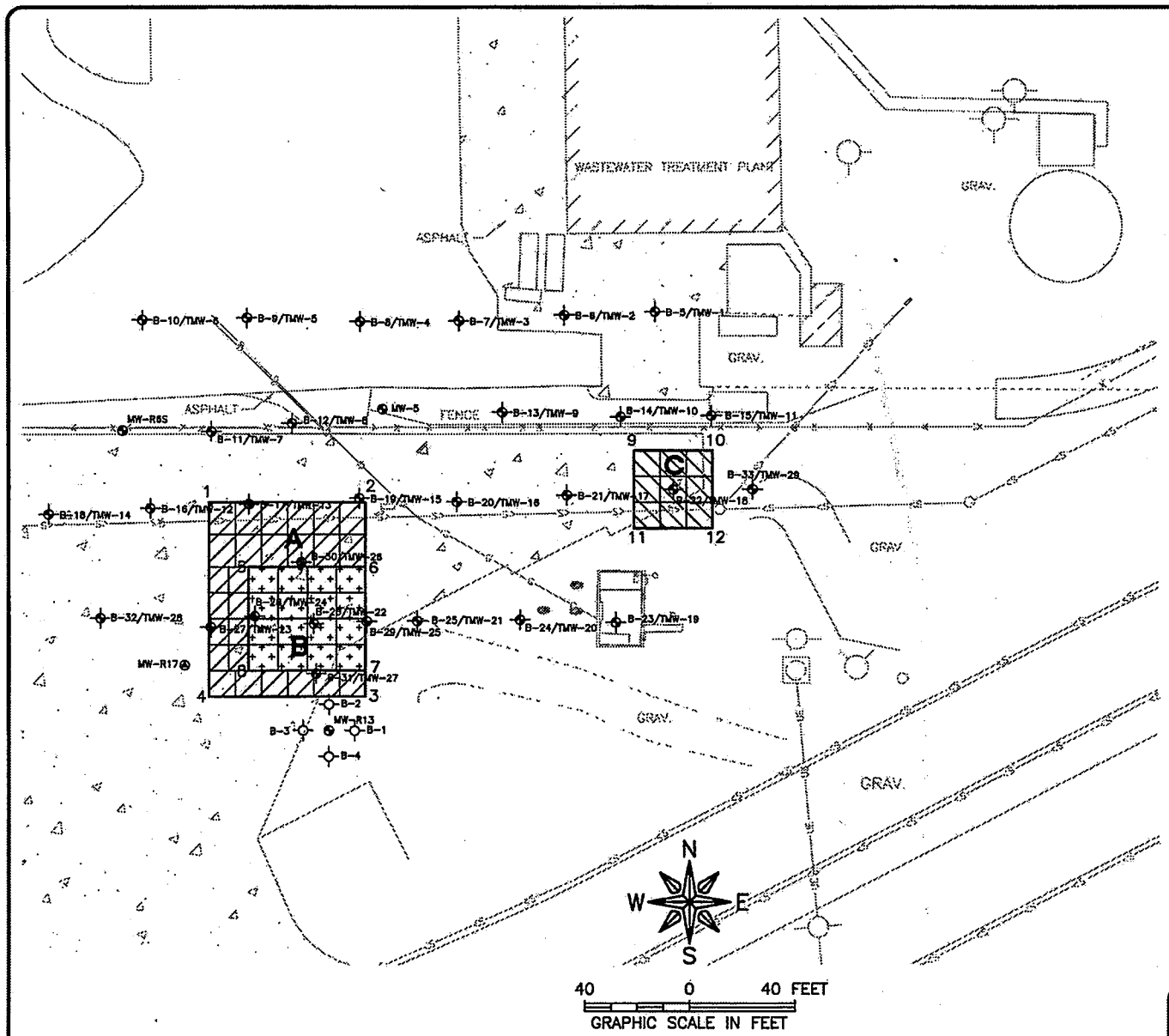
Figure 6

In-Situ Soil Mixing Pilot Test

Coordinate Map



GENERAL NOTES

THE FOLLOWING LIMITS DEFINE EACH TREATMENT CELL (A, B, OR C).

A

1. 4901230.7870, 3474213.4420
2. 4901290.7870, 3474213.4420
3. 4901290.7870, 3474138.4420
4. 4901230.7870, 3474138.4420

B

5. 4901245.7870, 3474288.4420
6. 4901290.7870, 3474288.4420
7. 4901290.7870, 3474448.4420
8. 4901245.7870, 3474448.4420

C

9. 4901393.5630, 3474233.3260
10. 4901423.5630, 3474233.3260
11. 4901423.5630, 3474203.3260
12. 4901393.5630, 3474203.3260

LEGEND

- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- SOIL BORING
- SOIL BORING/ TEMPORARY MONITORING WELL

FIGURE 6

IN-SITU SOIL MIXING PILOT TEST COORDINATE MAP
SAUER-DANFOSS FACILITY
2800 E. 13th STREET
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G:\C3D\10\10-500\10-500 Base-2013 100213.dwg, FIG 6

Figure 7

In-Situ Soil Mixing Pilot Test Grid Map

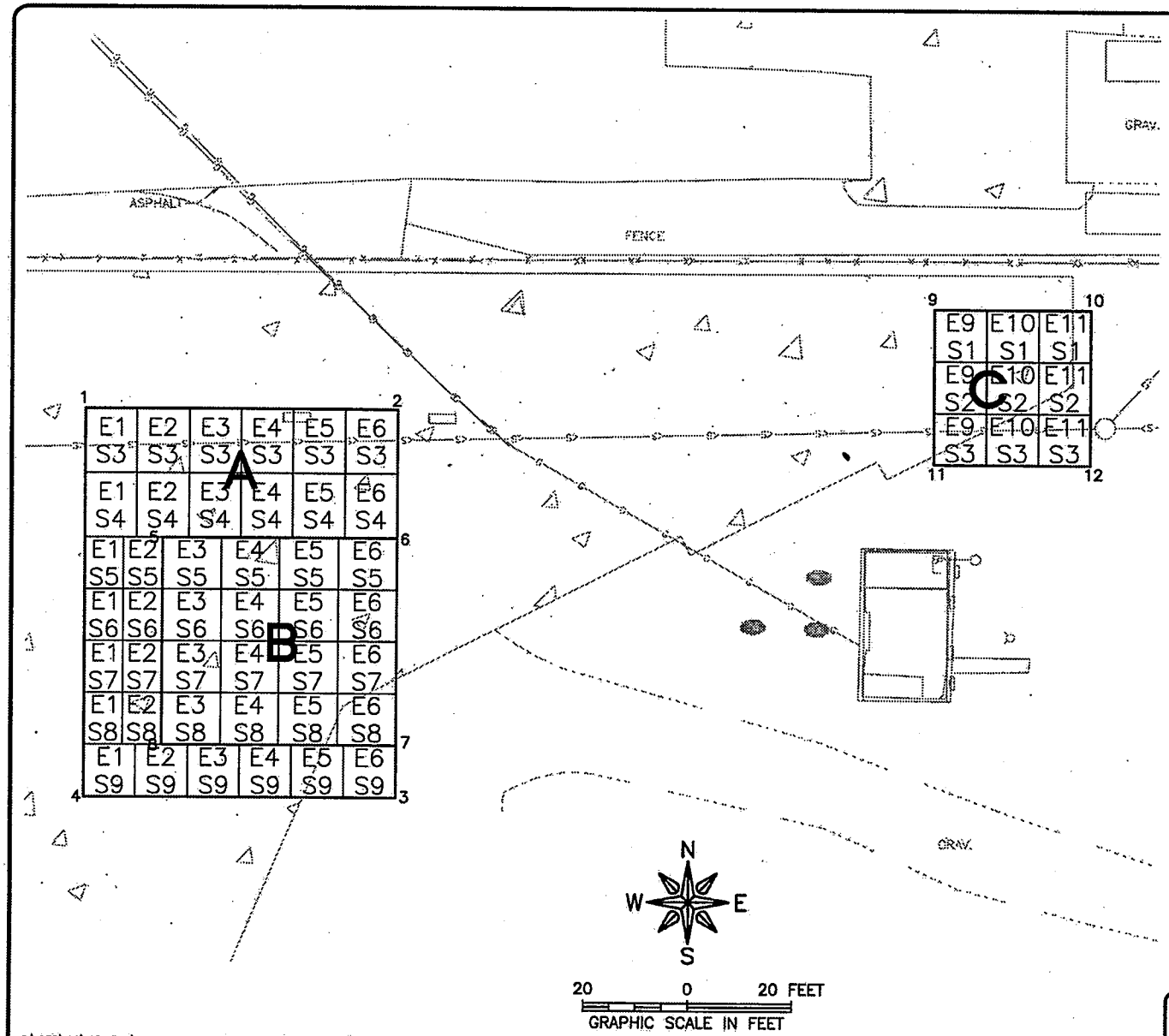

FIGURE 7

IN–SITU SOIL MIXING
PILOT TEST GRID MAP
SAUER–DANFOSS FACILITY
2800 E. 13th STREET
AMES, IOWA

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Table 1

Soil Sample Results

Table 1
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Soil Sample Results
Volatile Organic Compounds

	Analytical Parameter	Regional Screening Level for Industrial Property[a]	Soil Saturation Limits[a]	CTI0218-01		CTI0218-02		CTI0218-03		CTI0218-04		CTI0218-05	
				27860 - B-1 / 6-7		27861 - B-2 / 6-7		27862 - B-2 / 19-20		27863 - B-3 / 6-7		27864 - B-3 / 6-7 (DUP)	
				Date Sampled:	09/02/10 09:08	Date Sampled:	09/02/10 09:58	Date Sampled:	09/02/10 10:20	Date Sampled:	09/02/10 10:51	Date Sampled:	09/02/10 10:51
		mg/kg	mg/kg	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)
VOLATILE ORGANIC COMPOUNDS	Acetone	63,000	110,000	<	0.0519	<	0.049	<	0.0423	<	0.0453	<	0.0424
	1,1-Dichloroethane	17	1,700	<	0.00519	<	0.0049		**0.243**	<	0.00453	<	0.00424
	1,2-Dichloroethane (Ethylene dichloride)	2.2	3,000	<	0.00519	<	0.0049	<	0.00423	<	0.00453	<	0.00424
	1,1-Dichloroethene (Dichloroethylene)	110	1,200	<	0.00519	<	0.0049		**0.394**	<	0.00453		**0.00457**
	cis-1,2-Dichloroethene(Dichloroethylene)	200	2,400		**0.0294**		**0.0584**	<	0.00423	M1	**0.0313**		**0.0205**
	trans-1,2-Dichloroethene(Dichloroethylene)	69	1,700	<	0.00519	<	0.0049	<	0.00423	<	0.00453	<	0.00424
	1,4-Dioxane	17	—[c]		**0.053**		**0.210**		—[b]		**0.028**		—[b]
	Methylene Chloride (Dichloromethane)	310	3,300	<	0.0519	<	0.049	<	0.0423	<	0.0453	<	0.0424
	Tetrachloroethylene (Perchloroethylene)	41	170		**0.0990**		**0.266**		**0.0289**	M1	**0.171**		**0.170**
	1,1,1-Trichloroethane	3,800	640	<	0.00519		**0.0155**		**1.600**	M1	**0.0192**		**0.0237**
	1,1,2-Trichloroethane	0.68	2,200	<	0.00519	<	0.0049	<	**0.0359**	<	0.00453	<	0.00424
	Trichloroethene (Trichloroethylene)	2.0	690	<	0.00519		**0.00672**	<	0.0423		**0.00512**	<	0.00424
	Vinyl chloride	1.7	3,900	<	0.0156	<	0.0147	<	0.0127	<	0.0138	<	0.0127
	Xylenes (Total)	270	260	<	0.0156	<	0.0147	<	0.0127	<	0.0136	<	0.0127

Bold Font Indicates Detected Parameter

—[a] Obtained per http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite_sl_table_01run_MAY2013.pdf.
—[b] Parameter not analyzed.
—[c] Data not available.
< Not detected at reporting limit
M1 The MS and/or MSD were outside control limits.
1 Data reported from a dilution
2 Results may be biased high because of high continuing calibration verification (CCV).
3 Analyte was detected but is below the reporting limit. The concentration is estimated.
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5 Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Detected parameter exceeds Regional Screening Level
Detected parameter exceeds its Soil Saturation Limit

Table 1
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Soil Sample Results
Volatile Organic Compounds

		Regional Screening Level for Industrial Property[a]	Soil Saturation Limits[a]	CTI0218-07		CTI0218-06		J132603-01		J132603-02		J132603-03	
				27868 - B-3 / 19		27867 - B-4 / 6-7		B-5 / 5-6		B-7 / 6-7		B-8 / 6-7	
				Date Sampled:	09/02/10 11:10	Date Sampled:	09/02/10 12:44	Date Sampled:	06/25/13 08:00	Date Sampled:	06/25/13 10:37	Date Sampled:	06/25/13 11:34
	Analytical Parameter	mg/kg	mg/kg	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)
VOLATILE ORGANIC COMPOUNDS	Acetone	63,000	110,000	<	0.0498	<	0.0475	<	0.016	<	0.016	<	0.016
	1,1-Dichloroethane	17	1,700		**0.0189**	<	0.00475	<	0.0047	<	0.0046	<	0.0046
	1,2-Dichloroethane (Ethylene dichloride)	2.2	3,000	<	0.00498	<	0.00475	<	0.0043	<	0.0042	<	0.0042
	1,1-Dichloroethene (Dichloroethylene)	110	1,200		**0.140**	<	0.00475	<	0.0039	<	0.0039	<	0.0039
	cis-1,2-Dichloroethene(Dichloroethylene)	200	2,400	<	0.00498		**0.0421**	<	0.0065	<	0.0064	<	0.0064
	trans-1,2-Dichloroethene(Dichloroethylene)	69	1,700	<	0.00498	<	0.00475	<	0.0039	<	0.0039	<	0.0039
	1,4-Dioxane	17	—[c]		—[b]		**0.025**	<	0.096	<	0.094	<	0.094
	Methylene Chloride (Dichloromethane)	310	3,300	<	0.0498	<	0.0475	<	0.0022	<	0.0022	<	0.0022
	Tetrachloroethylene (Perchloroethylene)	41	170		**2.840**		**0.129**	<	0.0071	<	0.0070	<	0.0070
	1,1,1-Trichloroethane	3,800	640		**0.368**		**0.00863**	<	0.012	<	0.011	<	0.011
	1,1,2-Trichloroethane	0.68	2,200		**0.00630**	<	0.00475	<	0.0080	<	0.0078	<	0.0078
	Trichloroethene (Trichloroethylene)	2.0	690	<	0.00498		**0.00618**	<	0.0042	<	0.0042	<	0.0041
	Vinyl chloride	1.7	3,900	<	0.0149	<	0.0143	<	0.013	<	0.013	<	0.013
	Xylenes (Total)	270	260	<	0.0149	<	0.0143	<	0.072	<	0.071	<	0.071

Bold Font Indicates Detected Parameter

—[a] Obtained per http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite_sl_table_01run_MAY2013.pdf
—[b] Parameter not analyzed
—[c] Data not available
< Not detected at reporting limit
M1 The MS and/or MSD were outside control limits.
1 Data reported from a dilution
2 Results may be biased high because of high continuing calibration verification (CCV).
3 Analyte was detected but is below the reporting limit. The concentration is estimated.
4 Resuts may be biased low because of low continuing calibration verification (CCV).
5 Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Detected parameter exceeds Regional Screening Level
Detected parameter exceeds its Soil Saturation Limit

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Table 1
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Soil Sample Results
Volatile Organic Compounds

		Regional Screening Level for Industrial Property[a]	Soil Saturation Limits[a]	J132603-04		J132603-05		J132603-06		J132603-07		J132603-08	
				B-9 / 6-7		B-10 / 6		B-11 / 6-7		B-12 / 6-7		B-13 / 6-7	
				Date Sampled:	06/25/13 12:04	Date Sampled:	06/25/13 13:52	Date Sampled:	06/25/13 14:33	Date Sampled:	06/25/13 15:21	Date Sampled:	06/25/13 16:07
	Analytical Parameter	mg/kg	mg/kg	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)
VOLATILE ORGANIC COMPOUNDS	Acetone	63,000	110,000	<	0.016	<	0.016	<	0.017	<	0.015	<	0.016
	1,1-Dichloroethane	17	1,700	<	0.0047	<	0.0047	<	0.0048	<	0.0043	<	0.0046
	1,2-Dichloroethane (Ethylene dichloride)	2.2	3,000	<	0.0043	<	0.0043	<	0.0044	<	0.0040	<	0.0042
	1,1-Dichloroethene (Dichloroethylene)	110	1,200	<	0.0039	<	0.0039	<	0.0040	<	0.0036	<	0.0039
	cis-1,2-Dichloroethene(Dichloroethylene)	200	2,400	<	0.0065	<	0.0065	<	0.0067	<	0.0060	<	0.0064
	trans-1,2-Dichloroethene(Dichloroethylene)	69	1,700	<	0.0039	<	0.0039	<	0.0040	<	0.0036	<	0.0039
	1,4-Dioxane	17	__[c]	<	0.096	<	0.095	<	0.098	<	0.088	<	0.094
	Methylene Chloride (Dichloromethane)	310	3,300	<	0.0022	<	0.0022	<	0.0023	<	0.0020	<	0.0022
	Tetrachloroethylene (Perchloroethylene)	41	170	<	0.0071	<	0.0070	<	0.0073	<	0.0065	<	0.0070
	1,1,1-Trichloroethane	3,800	640	<	0.011	<	0.011	<	0.012	<	0.011	<	0.011
	1,1,2-Trichloroethane	0.68	2,200	<	0.0079	<	0.0079	<	0.0081	<	0.0073	<	0.0078
	Trichloroethene (Trichloroethylene)	2.0	690	<	0.0042	<	0.0042	<	0.0043	<	0.0039	<	0.0041
	Vinyl chloride	1.7	3,900	<	0.013	<	0.013	<	0.014	4,<	0.012	4,<	0.013
	Xylenes (Total)	270	260	<	0.072	<	0.071	<	0.074	<	0.066	<	0.071

Bold Font Indicates Detected Parameter

__[a] Obtained per http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite-si_table_01run_MAY2013.pdf
__[b] Parameter not analyzed
__[c] Data not available
< Not detected at reporting limit
M1 The MS and/or MSD were outside control limits.
1 Data reported from a dilution
2 Results may be biased high because of high continuing calibration verification (CCV).
3 Analyte was detected but is below the reporting limit. The concentration is estimated.
4 Results may be biased low because of low continuing calibration verification (CCV).
5 Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Detected parameter exceeds Regional Screening Level
Detected parameter exceeds its Soil Saturation Limit

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Table 1
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Soil Sample Results
Volatile Organic Compounds

		Regional Screening Level for Industrial Property[a]	Soil Saturation Limits[a]	J132603-09		J132603-10		J132605-01		J132605-02		J132605-03	
				B-14 / 5-6		B-14 / 5-6 DUP		B-15 / 6-7		B-16 / 5-6		B-16 / 13-14	
				Date Sampled:	06/25/13 16:51	Date Sampled:	06/25/13 16:51	Date Sampled:	06/26/13 07:26	Date Sampled:	06/26/13 08:05	Date Sampled:	06/26/13 08:16
	Analytical Parameter	mg/kg	mg/kg	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)
VOLATILE ORGANIC COMPOUNDS	Acetone	63,000	110,000	<	0.015	<	0.015	<	0.015	<	0.016	<	0.018
	1,1-Dichloroethane	17	1,700	<	0.0042	<	0.0043	<	0.0044	<	0.0046		**0.090**
	1,2-Dichloroethane (Ethylene dichloride)	2.2	3,000	<	0.0042	<	0.0042	<	0.0041	<	0.0043	<	0.0041
	1,1-Dichloroethene (Dichloroethylene)	110	1,200	<	0.0039	<	0.0039	<	0.0037	<	0.0039		**0.090**
	cis-1,2-Dichloroethene(Dichloroethylene)	200	2,400	<	0.0058	<	0.0059	<	0.0062	3	**0.011**	3	**0.020**
	trans-1,2-Dichloroethene(Dichloroethylene)	69	1,700	<	0.0035	<	0.0036	<	0.0037	<	0.0039	<	0.0038
	1,4-Dioxane	17	—[c]	<	0.086	<	0.087	<	0.091	<	0.095	<	0.091
	Methylene Chloride (Dichloromethane)	310	3,300	<	0.0020	<	0.0020	<	0.0021	<	0.0022	<	0.0021
	Tetrachloroethylene (Perchloroethylene)	41	170	<	0.0064	<	0.0065	<	0.0067	<	0.0070	1	**32**
	1,1,1-Trichloroethane	3,800	840	<	0.010	<	0.010	<	0.011	<	0.011		**0.710**
	1,1,2-Trichloroethane	0.68	2,200	<	0.0071	<	0.0073	<	0.0075	<	0.0079	<	0.0076
	Trichloroethene (Trichloroethylene)	2.0	690	<	0.0038	<	0.0038	<	0.0040	<	0.0042	3	**0.017**
	Vinyl chloride	1.7	3,900	4,<	0.012	4,<	0.012	4,<	0.013	4,<	0.013	4,<	0.013
	Xylenes (Total)	270	260	<	0.064	<	0.066	<	0.068	<	0.071	<	0.069

Bold Font Indicates Detected Parameter

—[a] Obtained per http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite_sl_table_01run_MAY2013.pdf
—[b] Parameter not analyzed
—[c] Data not available
< Not detected at reporting limit
M1 The MS and/or MSD were outside control limits.
1 Data reported from a dilution
2 Results may be biased high because of high continuing calibration verification (CCV).
3 Analyte was detected but is below the reporting limit. The concentration is estimated.
4 Results may be biased low because of low continuing calibration verification (CCV).
5. Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Detected parameter exceeds Regional Screening Level
Detected parameter exceeds the Soil Saturation Limit

Table 1
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Soil Sample Results
Volatile Organic Compounds

		Regional Screening Level for Industrial Property[a]	Soil Saturation Limits[a]	J132605-04		J132605-05		J132605-06		J132605-07		J132605-08	
				B-17 / 12-13		B-18 / 14-15		B-19 / 13-14		B-20 / 12-13		B-21 / 11-12	
				Date Sampled:	06/26/13 08:58	Date Sampled:	06/26/13 09:19	Date Sampled:	06/26/13 10:30	Date Sampled:	06/26/13 10:52	Date Sampled:	06/26/13 11:24
	Analytical Parameter	mg/kg	mg/kg	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)
VOLATILE ORGANIC COMPOUNDS	Acetone	63,000	110,000	<	0.016	<	0.015	<	0.015	<	0.018	<	0.016
	1,1-Dichloroethane	17	1,700		**0.100**	<	0.0043	<	0.0042	3	**0.021**		**0.140**
	1,2-Dichloroethane (Ethylene dichloride)	2.2	3,000	<	0.0042	<	0.0040	<	0.0039	<	0.0047	<	0.0042
	1,1-Dichloroethene (Dichloroethylene)	110	1,200		**0.063**	<	0.0036	<	0.0036	<	0.0042		**0.180**
	cis-1,2-Dichloroethene(Dichloroethylene)	200	2,400		**0.048**		**0.037**	<	0.0059	<	0.0070	<	0.0064
	trans-1,2-Dichloroethene(Dichloroethylene)	69	1,700	<	0.0038	<	0.0036	<	0.0036	<	0.0042	<	0.0039
	1,4-Dioxane	17	__[c]	<	0.094	<	0.088	<	0.087	<	0.100	<	0.094
	Methylene Chloride (Dichloromethane)	310	3,300	<	0.0022	<	0.0020	<	0.0020	<	0.0024	<	0.0022
	Tetrachloroethylene (Perchloroethylene)	41	170	1	**13**		**0.740**	<	0.0064	3	**0.019**		**0.240**
	1,1,1-Trichloroethane	3,800	640		**0.066**	<	0.011	<	0.010	<	0.012		**0.370**
	1,1,2-Trichloroethane	0.68	2,200	<	0.0078	<	0.0073	<	0.0072	<	0.0086	<	0.0078
	Trichloroethene (Trichloroethylene)	2.0	690		**0.035**	3	**0.018**	<	0.0038	<	0.046	<	0.0041
	Vinyl chloride	1.7	3,900	4,<	0.013	4,<	0.012	4,<	0.012	4,<	0.014	4,<	0.013
	Xylenes (Total)	270	260	<	0.070	<	0.066	<	0.065	<	0.078	<	0.071

Bold Font Indicates Detected Parameter

__[a] Obtained per http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite_sl_table_01run_MAY2013.pdf
__[b] Parameter not analyzed
__[c] Data not available
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M1 The MS and/or MSD were outside control limits.
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5 Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Detected parameter exceeds Regional Screening Level
Detected parameter exceeds its Soil Saturation Limit

Table 1
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Soil Sample Results
Volatile Organic Compounds

		Regional Screening Level for Industrial Property[a]	Soil Saturation Limits[a]	J132605-09		J132605-10		J132605-11		J132605-12		J132605-13	
				B-22 / 10-11		B-22 / 14-15		B-23 / 10-11		B-24 / 11-12		B-25 / 12-13	
				Date Sampled:	06/26/13 12:01	Date Sampled:	06/26/13 12:07	Date Sampled:	06/26/13 14:28	Date Sampled:	06/26/13 15:09	Date Sampled:	06/26/13 15:46
	Analytical Parameter	mg/kg	mg/kg	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)
VOLATILE ORGANIC COMPOUNDS	Acetone	63,000	110,000	<	0.014	<	0.015	<	0.018	<	0.017	<	0.015
	1,1-Dichloroethane	17	1,700		**0.220**		**2.8**	<	0.0052	<	0.0048	<	0.0043
	1,2-Dichloroethane (Ethylene dichloride)	2.2	3,000	<	0.0038	<	0.0040	<	0.0047	<	0.0044	<	0.0040
	1,1-Dichloroethene (Dichloroethylene)	110	1,200		**1.6**		**0.150**	<	0.0043	<	0.0040	<	0.0036
	cis-1,2-Dichloroethene(Dichloroethylene)	200	2,400	<	0.0058	<	0.0061	<	0.0072	<	0.0066	<	0.0060
	trans-1,2-Dichloroethene(Dichloroethylene)	69	1,700	<	0.0035	<	0.0037	<	0.0043	<	0.0040	<	0.0036
	1,4-Dioxane	17	__[c]	<	0.085	<	0.089	<	0.110	<	0.097	<	0.088
	Methylene Chloride (Dichloromethane)	310	3,300	<	0.0020	<	0.0021	<	0.0024	<	0.0022	<	0.0020
	Tetrachloroethylene (Perchloroethylene)	41	170		**1.0**		**3.5**	<	0.0078	<	0.0072	<	0.0065
	1,1,1-Trichloroethane	3,800	640		**4.8**		**2.2**	<	0.013	<	0.012	<	0.011
	1,1,2-Trichloroethane	0.68	2,200	<	0.0070	<	0.0074	<	0.0088	<	0.0081	<	0.0073
	Trichloroethene (Trichloroethylene)	2.0	690	<	0.0037	<	0.0039	<	0.0046	<	0.0043	<	0.0039
	Vinyl chloride	1.7	3,900	4,<	0.012	4,<	0.013	4,<	0.015	4,<	0.014	4,<	0.012
	Xylenes (Total)	270	260	<	0.064	<	0.067	<	0.079	<	0.073	<	0.066

Bold Font Indicates Detected Parameter

__[a] Obtained per http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite_sl_table_01run_MAY2013.pdf
__[b] Parameter not analyzed
__[c] Data not available
< Not detected at reporting limit
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3 Analyte was detected but is below the reporting limit. The concentration is estimated.
4 Results may be biased low because of low continuing calibration verification (CCV).
5 Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Detected parameter exceeds Regional Screening Level
Detected parameter exceeds its Soil Saturation Limit

Table 1
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Soil Sample Results
Volatile Organic Compounds

		Regional Screening Level for Industrial Property[a]	Soil Saturation Limits[a]	J132605-14		J132605-15		J132605-16		J132605-17		J132607-01	
				B-26 / 2-3		B-26 / 10-11		B-26 / 12-13		B-26 / 15-16		B-27 / 12-13	
				Date Sampled:	06/26/13 15:57	Date Sampled:	06/26/13 16:34	Date Sampled:	06/26/13 16:43	Date Sampled:	06/26/13 16:46	Date Sampled:	06/27/13 07:59
	Analytical Parameter	mg/kg	mg/kg	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)
VOLATILE ORGANIC COMPOUNDS	Acetone	63,000	110,000	<	0.015	<	0.016	<	0.016	<	0.016	<	0.017
	1,1-Dichloroethane	17	1,700	<	0.0043	<	0.0046	<	0.0046		**0.056**	3	**0.022**
	1,2-Dichloroethane (Ethylene dichloride)	2.2	3,000	<	0.0040	<	0.0042	<	0.0042	<	0.0043	<	0.0044
	1,1-Dichloroethene (Dichloroethylene)	110	1,200	<	0.0036		**0.470**		**0.650**		**0.300**	<	0.0040
	cis-1,2-Dichloroethene(Dichloroethylene)	200	2,400		**2.8**	<	0.0064	<	0.0063	<	0.0064	<	0.0067
	trans-1,2-Dichloroethene(Dichloroethylene)	69	1,700	<	0.0036	<	0.0038	<	0.0038	<	0.0039	<	0.0040
	1,4-Dioxane	17	---[c]	<	0.089	<	0.094	<	0.093	<	0.095	<	0.098
	Methylene Chloride (Dichloromethane)	310	3,300	<	0.0020	<	0.0022	<	0.0021	<	0.0022	<	0.0023
	Tetrachloroethylene (Perchloroethylene)	41	170	1	**85**	1	**280**	1	**690**	1	**350**		**1.6**
	1,1,1-Trichloroethane	3,800	640	<	0.011	1	**14**	1	**26**	1	**10**	<	0.012
	1,1,2-Trichloroethane	0.68	2,200	<	0.0074	<	0.0078	<	0.0077	<	0.0079	<	0.0082
	Trichloroethene (Trichloroethylene)	2.0	690		**1.3**	<	0.0041	3	**0.020**	<	0.0042	<	0.0043
	Vinyl chloride	1.7	3,900	4,<	0.012	4,<	0.013	<	0.013	<	0.013	<	0.014
	Xylenes (Total)	270	260	<	0.067	<	0.070	<	0.070	<	0.071	<	0.074

Bold Font Indicates Detected Parameter

---[a] Obtained per http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite_sl_table_01run_MAY2013.pdf
---[b] Parameter not analyzed
---[c] Data not available
< Not detected at reporting limit.
M1 The MS and/or MSD were outside control limits.
1 Data reported from a dilution
2 Results may be biased high because of high continuing calibration verification (CCV).
3 Analyte was detected but is below the reporting limit. The concentration is estimated.
4 Results may be biased low because of low continuing calibration verification (CCV).
5 Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Detected parameter exceeds Regional Screening Level
Detected parameter exceeds its Soil Saturation Limit

Table 1
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Soil Sample Results
Volatile Organic Compounds

		Regional Screening Level for Industrial Property[a]	Soil Saturation Limits[a]	J132607-02		J132607-03		J132607-04		J132607-05		J132607-06	
				B-28 / 14-15		B-28 / 14-15 DUP		B-29 / 2-3		B-29 / 14-15		B-30 / 10-11	
				Date Sampled:	06/27/13 08:34	Date Sampled:	06/27/13 08:34	Date Sampled:	06/27/13 09:17	Date Sampled:	06/27/13 09:14	Date Sampled:	06/27/13 09:48
	Analytical Parameter	mg/kg	mg/kg	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)
VOLATILE ORGANIC COMPOUNDS	Acetone	63,000	110,000	<	0.015	<	0.015	<	0.016	<	0.015	<	0.016
	1,1-Dichloroethane	17	1,700	2	2.8	2	1.5	<	0.0046	<	0.0044	2	2.5
	1,2-Dichloroethane (Ethylene dichloride)	2.2	3,000	<	0.0040	<	0.0041	<	0.0042	<	0.0040	<	0.0041
	1,1-Dichloroethene (Dichloroethylene)	110	1,200	2	2.3	2	1.6	<	0.0038	<	0.0037	2	0.300
	cis-1,2-Dichloroethene(Dichloroethylene)	200	2,400	<	0.0061	<	0.0061	<	0.0064	<	0.0061	<	0.0062
	trans-1,2-Dichloroethene(Dichloroethylene)	69	1,700	<	0.0037	<	0.0037	<	0.0038	<	0.0037	<	0.0038
	1,4-Dioxane	17	—[c]	<	0.090	<	0.090	<	0.094	<	0.089	<	0.092
	Methylene Chloride (Dichloromethane)	310	3,300	3	0.079	2	0.091	<	0.0022	<	0.0021	<	0.0021
	Tetrachloroethylene (Perchloroethylene)	41	170	1	58	1	40		0.071	<	0.0066		5.0
	1,1,1-Trichloroethane	3,800	640	<	0.011	1	14	<	0.011	<	0.011	<	0.011
	1,1,2-Trichloroethane	0.68	2,200	<	0.0075	<	0.0075	<	0.0078	<	0.0074	<	0.0076
	Trichloroethene (Trichloroethylene)	2.0	690		0.035	3	0.017	<	0.0041	<	0.0039		0.040
	Vinyl chloride	1.7	3,900	<	0.013	<	0.013	<	0.013	<	0.013	<	0.013
	Xylenes (Total)	270	260	<	0.067	<	0.068	<	0.070	<	0.067	<	0.069

Bold Font Indicates Detected Parameter

—[a] Obtained per http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite_sl_table_01run_MAY2013.pdf
—[b] Parameter not analyzed
—[c] Data not available
< Not detected at reporting limit
M1 The MS and/or MSD were outside control limits.
1 Data reported from a dilution
2 Results may be biased high because of high continuing calibration verification (CCV).
3 Analyte was detected but is below the reporting limit. The concentration is estimated.
4 Results may be biased low because of low continuing calibration verification (CCV).
5 Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Detected parameter exceeds Regional Screening Level
Detected parameter exceeds its Soil Saturation Limit

Table 1
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Soil Sample Results
Volatile Organic Compounds

		Regional Screening Level for Industrial Property[a]	Soil Saturation Limits[a]	J132607-07		J132607-08		J132607-09		J132607-10		J132607-11	
				B-30 / 13-14		B-30 / 15-16		B-31 / 14-15		B-32 / 12-13		B-33 / 10-11	
				Date Sampled:	06/27/13 09:55	Date Sampled:	06/27/13 10:01	Date Sampled:	06/27/13 10:38	Date Sampled:	06/27/13 11:44	Date Sampled:	06/27/13 12:22
	Analytical Parameter	mg/kg	mg/kg	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)	Qualifier	Result (mg/kg)
VOLATILE ORGANIC COMPOUNDS	Acetone	63,000	110,000	<	0.016	<	0.015	<	0.016	<	0.015	<	0.015
	1,1-Dichloroethane	17	1,700	2	0.550	2	**0.041**	2	**0.370**	<	0.0043	<	0.0043
	1,2-Dichloroethane (Ethylene dichloride)	2.2	3,000	<	0.0042	<	0.0040	<	0.0042	<	0.0039	<	0.0040
	1,1-Dichloroethene (Dichloroethylene)	110	1,200	2	**0.180**	<	0.0037	2	**5.5**	<	0.0036	<	0.0036
	cis-1,2-Dichloroethene(Dichloroethylene)	200	2,400	<	0.0064		**0.024**	<	0.0063	<	0.0059	<	0.0060
	trans-1,2-Dichloroethene(Dichloroethylene)	69	1,700	<	0.0039	<	0.0037	<	0.0038	<	0.0036	<	0.0036
	1,4-Dioxane	17	—[c]	<	0.094	<	0.090	<	0.093	<	0.087	<	0.089
	Methylene Chloride (Dichloromethane)	310	3,300	<	0.0022	<	0.0021	2	**0.110**	<	0.0020	<	0.0020
	Tetrachloroethylene (Perchloroethylene)	41	170	1	**23**	1	**64**		**7.6**		**2.0**	<	0.0066
	1,1,1-Trichloroethane	3,800	640		**1.7**		**2.5**	1	**23**		**0.093**	<	0.011
	1,1,2-Trichloroethane	0.68	2,200	<	0.0078	<	0.0074	<	0.0077	<	0.0072	<	0.0074
	Trichloroethene (Trichloroethylene)	2.0	690	3	**0.011**	3	**0.021**	3	**0.022**	<	0.0038	<	0.0039
	Vinyl chloride	1.7	3,900	<	0.013	<	0.013	<	0.013	<	0.012	<	0.012
	Xylenes (Total)	270	260	<	0.071	<	0.067	<	0.069	<	0.065	<	0.066

Bold Font Indicates Detected Parameter

—[a] Obtained per http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite_sl_table_01run_MAY2013.pdf
—[b] Parameter not analyzed
—[c] Data not available
< Not detected at reporting limit
M1 The MS and/or MSD were outside control limits.
1 Data reported from a dilution
2 Results may be biased high because of high continuing calibration verification (CCV).
3 Analyte was detected but is below the reporting limit. The concentration is estimated.
4 Results may be biased low because of low continuing calibration verification (CCV).
5 Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Detected parameter exceeds Regional Screening Level
Detected parameter exceeds its Soil Saturation Limit

Table 1
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Soil Sample Results
Volatile Organic Compounds

		Regional Screening Level for Industrial Property[a]	Soil Saturation Limits[a]	J132607-12	
				B-33 / 14-15	
				Date Sampled:	06/27/13 12:27
	Analytical Parameter	mg/kg	mg/kg	Qualifier	Result (mg/kg)
VOLATILE ORGANIC COMPOUNDS	Acetone	63,000	110,000	<	0.015
	1,1-Dichloroethane	17	1,700	<	0.0043
	1,2-Dichloroethane (Ethylene dichloride)	2.2	3,000	<	0.0039
	1,1-Dichloroethene (Dichloroethylene)	110	1,200	<	0.0036
	cis-1,2-Dichloroethene(Dichloroethylene)	200	2,400	<	0.0059
	trans-1,2-Dichloroethene(Dichloroethylene)	69	1,700	<	0.0036
	1,4-Dioxane	17	--[c]	<	0.087
	Methylene Chloride (Dichloromethane)	310	3,300	<	0.0020
	Tetrachloroethylene (Perchloroethylene)	41	170	<	0.0065
	1,1,1-Trichloroethane	3,800	640	<	0.010
	1,1,2-Trichloroethane	0.68	2,200	<	0.0073
	Trichloroethene (Trichloroethylene)	2.0	690	<	0.0038
	Vinyl chloride	1.7	3,900	<	0.012
	Xylenes (Total)	270	260	<	0.066

Bold Font Indicates Detected Parameter

--[a] Obtained per http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite_sl_table_01run_MAY2013.pdf
--[b] Parameter not analyzed
--[c] Data not available
< Not detected at reporting limit
M1 The MS and/or MSD were outside control limits.
1 Data reported from a dilution
2 Results may be biased high because of high continuing calibration verification (CCV).
3 Analyte was detected but is below the reporting limit. The concentration is estimated.
4 Results may be biased low because of low continuing calibration verification (CCV).
5 Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Detected parameter exceeds Regional Screening Level
Detected parameter exceeds its Soil Saturation Limit

Table 2

Groundwater Sample Results

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-5		MW-5		MW-R6S		MW-R6S		MW-10		MW-10		MW-10		MW-10	
			Date Sampled:	07/17/2011	Date Sampled:	08/24/2013	Date Sampled:	07/17/2011	Date Sampled:	08/24/2013	Date Sampled:	Sep-Oct 1994[a]	Date Sampled:	11/21/1997	Date Sampled:	10/20/1999	Date Sampled:	11/06/2001
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	10.0	<	3.4	<	10.0	<	3.4	<	25	<	20	<	20	<	20
	1,1-Dichloroethane	810		2.13		17		1.83		4.4		9.6		16.4		11.3		10.5
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	1.00	<	0.078	<	1.00	<	0.078	<	5.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethene	7	<	2.00		5.7	<	2.00		0.58		34		18.7		28.6		22
	cis-1,2-Dichloroethene	70	<	1.00		7.4		96.3		3.7		110		135		87.7		164
	trans-1,2-Dichloroethene	100	<	1.00	<	0.11	<	1.00	2	0.22	<	5.0		1.6	<	1.0	<	1.0
	1,4-Dioxane	6.1	<	6.0		—[a]	<	6.0		—[a]		—[a]		—[a]		—[a]		—[a]
	Methylene Chloride (Dichloromethane)	5	<	5.00	<	0.14	<	5.00	<	0.14	<	5.0	<	10	<	10	<	5.0
	Tetrachloroethene (Perchloroethene)	5	<	1.00	2	0.45		209		34		1,800		765		458		424
	1,1,1-Trichloroethane	200		1.81		1.1		1.96	2	0.26		410		162		118		120
	1,1,2-Trichloroethane	5	<	1.00	<	0.10	<	1.00	<	0.10	<	5.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5		1.33		1.0		16.5		3.2		28		54.6		40.4		53.2
	Vinyl Chloride	2	C9,<	1.00	2	0.43	<	1.00		7.8		—[a]		—[a]		—[a]		—[a]
	Xylenes (total)	10,000	<	3.00	<	1.0	<	3.00	<	1.0	<	5.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter

—[a] Parameter not analyzed
< Not detected at Reporting Limit
C1N The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit
1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-10		MW-10		MW-10		MW-10		MW-10		MW-10		MW-10		MW-10	
			Date Sampled:	10/22/2002	Date Sampled:	11/10/2004	Date Sampled:	11/15/2006	Date Sampled:	11/16/2006	Date Sampled:	10/30/2008	Date Sampled:	10/30/2008	Date Sampled:	10/20/2010	Date Sampled:	09/28/2011
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	20	<	20	<	10	<	10	<	10	<	10	<	10.0	<	50.0
	1,1-Dichloroethane	810		11.6		14.7		10		10.8		13.6		14		18.7		13.8
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	5.00
	1,1-Dichloroethene	7		23.7		37.6		26.3		23.9		35.6		35.7		44.7		43.6
	cis-1,2-Dichloroethene	70		61.1		49.5		53.3		49.7		32.6		35.1		25.2		18.4
	trans-1,2-Dichloroethene	100		1.7	<	1.0		1.07		1	<	1.0	<	1.0	<	1.00	<	5.00
	1,4-Dioxane	6.1		--*		12.4		11		14		12		15		21		22
	Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.00	<	25.0
	Tetrachloroethene (Perchloroethene)	5		497		825		385		372		403		421		504		444
	1,1,1-Trichloroethane	200		174	<	223		90.1		89.7		188		194		307		240
	1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	5.00
	Trichloroethene	5		59.9		42.9		32.3		31.7		30.9		31.5		30.7		19.0
	Vinyl Chloride	2	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	5.00
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	6.00	<	15.00

Bold Font Indicates Detected Parameter

--* Parameter not analyzed
< Not detected at Reporting Limit
CN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit
1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit; the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	Dup		MW-10		MW-10		MW-10		MW-10		MW-10		MW-10		MW-11	
			Date Sampled:	09/28/2011	Date Sampled:	10/18/2011	Date Sampled:	12/13/2011	Date Sampled:	04/11/2012	Date Sampled:	08/12/2012	Date Sampled:	10/16/2012	Date Sampled:	10/17/2013	Date Sampled:	Sep-Oct 1994[c]
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	10.0	CIN,<	50.0	L1,<	50.0	<	50.0	<	100	<	50.0	<	10.0	<	25
	1,1-Dichloroethane	810		17.8		16.9		11.4		21.2		56.3		12.3		13.4		44
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	1.00	<	5.00	<	5.00	<	5.00	<	10.0	<	5.00	<	1.00	<	5.0
	1,1-Dichloroethene	7		58.2		45.2		39.0		49.1	CIN	28.0		26.7		17.4		130
	cis-1,2-Dichloroethene	70		22.5		20.0		17.0		27.6		15.8		29.2		57.0		730
	trans-1,2-Dichloroethene	100	<	1.00	<	5.00	<	5.00	<	5.00	<	10.0	<	5.00		1.12		7.1
	1,4-Dioxane	6.1		19		14		12		15		11		9.6		10.7		—[a]
	Methylene Chloride (Dichloromethane)	5	<	5.00	<	25.0	<	25.0	<	25.0	<	50.0	<	25.0	<	5.00	<	5.0
	Tetrachloroethene (Perchloroethene)	5		407		580		465	M1	542		313		352		291		2,500
	1,1,1-Trichloroethane	200		327		294		246	M1	313	CIN,R	174		192		134		810
	1,1,2-Trichloroethane	5	<	1.00	<	5.00	<	5.00	<	5.00	<	10.0	<	5.00	<	1.00		8
	Trichloroethene	5		23.0		18.4		20.0		23.4		16.1		27.4		45.9		91
	Vinyl Chloride	2	<	1.00	<	5.00	CIN,<	5.00	<	5.00	R,<	10.0	<	5.00	<	1.00		—[a]
	Xylenes (total)	10,000	<	3.00	<	15.0	<	15.0	<	15.0	<	30.0	<	15.0	<	3.00	<	5.0

Bold Font Indicates Detected Parameter

—[a] Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
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1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-11		MW-11		MW-11		MW-11		MW-11		MW-11		MW-11		MW-11	
			Date Sampled:	11/21/1997	Date Sampled:	10/20/1999	Date Sampled:	11/06/2001	Date Sampled:	11/06/2001	Date Sampled:	10/22/2002	Date Sampled:	11/10/2004	Date Sampled:	11/15/2006	Date Sampled:	11/15/2006
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	200	<	20	<	20	<	20	<	20	<	20	<	10	<	10
	1,1-Dichloroethane	810		33.9		20.2		14.4		15.1		16.5		12.8		14.8		15.5
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	10	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethane	7		57.6		25.3		19		18.2		15.4		15.4		25.3		26.3
	cis-1,2-Dichloroethene	70		678		384		227		233		178		88.9		75.7		79.6
	trans-1,2-Dichloroethene	100	<	10		2		1.7		1.8		1.4		1.92		1.78		1.73
	1,4-Dioxane	6.1		—*		—*		—*		—*		—*		10.4		12		—*
	Methylene Chloride (Dichloromethane)	5	<	100	<	10	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0
	Tetrachloroethene (Perchloroethene)	5		1,450		818		811		585		551		420		422		428
	1,1,1-Trichloroethane	200		230		121		88.1		87.8		90.6		134		165		172
	1,1,2-Trichloroethane	5		1.8	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5		81.9		44.8		48.8		44.9		43.9		34		32.8		33
	Vinyl Chloride	2		—*		—*		—*		—*	<	1.0	<	1.0	<	1.0	<	1.0
	Xylenes (total)	10,000	<	30	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter
—* Parameter not analyzed
< Not detected at Reporting Limit
C9 The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL; and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit
1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit. the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-11		MW-11		MW-11		MW-11		MW-12		MW-12		MW-12		MW-12	
			Date Sampled:	10/30/2008	Date Sampled:	10/30/2008	Date Sampled:	10/20/2010	Date Sampled:	10/17/2012	Date Sampled:	11/21/1997	Date Sampled:	10/20/1998	Date Sampled:	10/20/1999	Date Sampled:	11/09/2000
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	50	<	10.0	<	10.0	<	10.0	<	10	<	20	<	20	<	20
	1,1-Dichloroethane	810		6.45		8.32		6.67		13.3	<	1.0	<	1.0	<	1.0	<	1.0
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	5.0	<	1.0	<	1.00	<	1.00	<	1.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethene	7		10.1		14.3		18.8		33.3	<	2.0	<	2.0	<	2.0	<	2.0
	cis-1,2-Dichloroethene	70		35.2		37.5		31.2		28.5	<	1.0	<	1.0	<	1.0	<	1.0
	trans-1,2-Dichloroethene	100	<	5.0	<	1.0	<	1.00	<	1.00	<	1.0	<	1.0	<	1.0	<	1.0
	1,4-Dioxane	6.1		5.2		—*		5.8		9.6		—*		—*		—*		—*
	Methylene Chloride (Dichloromethane)	5	<	25.0	<	5.0	<	5.00	<	5.00	<	10	<	10	<	10	<	5.0
	Tetrachloroethene (Perchloroethene)	5		355		391	CIN	469		477	<	1.0	<	1.0	<	1.0	<	1.0
	1,1,1-Trichloroethane	200		90.6		131		106		244	<	1.0	<	1.0	<	1.0	<	1.0
	1,1,2-Trichloroethane	5	<	5.0	<	1.0	<	1.00	<	1.00	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5		18.4		21.5		19.8		24.7	<	1.0	<	1.0	<	1.0	<	1.0
	Vinyl Chloride	2	<	5.0	<	1.0	<	1.00	<	1.00		—*		—*		—*		—*
	Xylenes (total)	10,000	<	15.0	<	3.0	<	6.00	<	3.00	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font indicates Detected Parameter

—* Parameter not analyzed

< Not detected at Reporting Limit.

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.

J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.

LT Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.

M1 The MS and/or MSD were outside control limits.

R Sample duplicate RPD exceeded the laboratory control limit

1 Analyte is also detected in the associated method blank.

2 Data reported from a dilution

3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.

4 Results may be biased high because of high continuing calibration verification (CCV).

5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL

Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-12		MW-12		MW-12		MW-12		MW-12		MW-12		MW-12		MW-12	
			Date Sampled:	11/06/2001	Date Sampled:	10/22/2002	Date Sampled:	11/18/2003	Date Sampled:	11/09/2004	Date Sampled:	11/16/2005	Date Sampled:	11/15/2006	Date Sampled:	10/09/2007	Date Sampled:	10/27/2008
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	20	<	20	<	20.0	<	20.0	<	20.0	<	10.0	<	10.0	<	10.0
	1,1-Dichloroethane	810	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethene	7	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0
	cis-1,2-Dichloroethene	70	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	trans-1,2-Dichloroethene	100	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,4-Dioxane	6.1		—*		—*	<	2.0	<	2.0	<	6	<	2.0	<	2.0		—*
	Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0
	Tetrachloroethene (Perchloroethene)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1,1-Trichloroethane	200	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Vinyl Chloride	2		—*	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter.

—* Parameter not analyzed
< Not detected at Reporting Limit
C9N The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit
1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV)
5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-12		MW-12		MW-12		MW-12		MW-12		MW-12		MW-R13		MW-R13	
			Date Sampled:	10/27/2008	Date Sampled:	10/27/2008	Date Sampled:	10/20/2010	Date Sampled:	10/19/2011	Date Sampled:	10/16/2012	Date Sampled:	10/17/2013	Date Sampled:	Sep-Oct 1994[4]	Date Sampled:	11/21/1997
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500		—*	<	10.0	<	10.0	CIN,<	10.0	CIN,<	10.0	<	10.0	<	25	<	400
	1,1-Dichloroethane	810		—*	<	1.0		2.48	<	1.00	<	1.00	<	1.00		560		1,980
	1,2-Dichloroethane (Ethylene Dichloride)	5		—*	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00		5.8	<	20
	1,1-Dichloroethene	7		—*	<	2.0		19.4	<	2.00	<	2.00	<	2.00		250		1,120
	cis-1,2-Dichloroethene	70		—*	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00		200		61.2
	trans-1,2-Dichloroethene	100		—*	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00	<	5.0	<	20
	1,4-Dioxane	6.1	<	2.0	<	2.0	<	2.0	<	6.0	<	1.0	<	2.00		—*		—*
	Methylene Chloride (Dichloromethane)	5		—*	<	5.0	<	5.00	<	5.00	<	5.00	<	5.00		9.1	<	200
	Tetrachloroethene (Perchloroethene)	5		—*		12.9	CIN	225		7.03		4.61		14.5		1,100		1,200
	1,1,1-Trichloroethane	200		—*	<	1.0		20.4	<	1.00	<	1.00		1.35		970		3,140
	1,1,2-Trichloroethane	5		—*	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00		30		159
	Trichloroethene	5		—*	<	1.0		1.17	<	1.00	<	1.00		1.35		72	<	20
	Vinyl Chloride	2		—*	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00		—*		—*
	Xylenes (total)	10,000		—*	<	3.0	<	6.00	<	3.00	<	3.00	<	3.00	<	5.0	<	60

Bold Font Indicates Detected Parameter
—* Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C2 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R. Sample duplicate RPD exceeded the laboratory control limit.
1 Analyte is also detected in the associated method blank.
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RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-R13		MW-R13		MW-R13		MW-R13		MW-R13		MW-R13		MW-R13		MW-R13	
			Date Sampled:	11/20/1999	Date Sampled:	11/06/2001	Date Sampled:	10/22/2002	Date Sampled:	11/10/2004	Date Sampled:	11/14/2006	Date Sampled:	10/30/2008	Date Sampled:	10/30/2008	Date Sampled:	10/30/2008
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	400	<	20	<	20	<	20.0	<	231	<	1,000	<	1,000		—[a]
	1,1-Dichloroethane	810		2,530		2,020		3,680		1,940		2,480		2,740		2,700		—[a]
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	20		6.5		10.3		5.64	<	6.0	<	100	<	100		—[a]
	1,1-Dichloroethene	7		1,510		1,510		1,430		2,610		4,680		5,890		5,800		—[a]
	cis-1,2-Dichloroethene	70		57.5		78.8		71.2		101		53		100		100		—[a]
	trans-1,2-Dichloroethene	100	<	20		1.6	<	1.0		2.4	<	7.50	<	100	<	100		—[a]
	1,4-Dioxane	6.1		—[a]		—[a]		—[a]		124		74.6		—[a]		—[a]		78
	Methylene Chloride (Dichloromethane)	5	<	200		39		24.3		29.9		198	<	500	<	500		—[a]
	Tetrachloroethene (Perchloroethene)	5		1,750		3,040		3,170		4,830		8,080		8,560		8,020		—[a]
	1,1,1-Trichloroethane	200		3,370		3,220		2,140		4,790		6,660		7,970		8,060		—[a]
	1,1,2-Trichloroethane	5		183		236		198		278		310		337		348		—[a]
	Trichloroethene	5	<	20		24.3		27.4		50.6		40.5	<	100	<	100		—[a]
	Vinyl Chloride	2		—[a]		—[a]		40.8	<	1.0		105	<	100	<	100		—[a]
	Xylenes (total)	10,000	<	60	<	3.0	<	3.0	<	3.0	<	8.50	<	300	<	300		—[a]

Bold Font Indicates Detected Parameter

—[a] Parameter not analyzed
< Not detected at Reporting Limit
C9 The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
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5 Analyte was detected but is below the reporting limit. the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-R13		MW-R13		MW-R13		MW-R13		MW-R13		MW-R13		MW-R13		MW-R13	
			Date Sampled:	10/30/2008	Date Sampled:	10/31/2006	Date Sampled:	10/20/2010	Date Sampled:	09/28/2011	Date Sampled:	10/18/2011	Date Sampled:	12/12/2011	Date Sampled:	04/11/2012	Date Sampled:	06/12/2012
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500		—*	<	1,000	<	10.0	<	500	CIN,<	500	L1,<	1,000	<	500		251
	1,1-Dichloroethane	810		—*		1,920	C9	2,860		2,010		2,140		251		322	CIN	168
	1,2-Dichloroethane (Ethylene Dichloride)	5		—*	<	100	<	1.00	<	50.0	<	50.0	<	100	<	50.0	<	25.0
	1,1-Dichloroethene	7		—*		3,460	C9	5,110		158		328		250	<	100	<	50.0
	cis-1,2-Dichloroethene	70		—*	<	100		40.5	<	50.0	<	50.0	<	100	<	50.0	<	25.0
	trans-1,2-Dichloroethene	100		—*	<	100		2.37	<	50.0	<	50.0	<	100	<	50.0	<	25.0
	1,4-Dioxane	6.1		77		110		82		65	<	120	<	60	J	15	<	20
	Methylene Chloride (Dichloromethane)	5		—*	<	500		30.5	<	250	<	250	<	500	<	250	<	125
	Tetrachloroethene (Perchloroethene)	5		—*		5,480	CIN	10,300		5,870		5,990		3,150		3,010		817
	1,1,1-Trichloroethane	200		—*		4,720		6,240		3,990		4,000		1,650		1,130		922
	1,1,2-Trichloroethane	5		—*		221		325		162		144	<	100	<	50.0	<	25.0
	Trichloroethene	5		—*	<	100		46.8	<	50.0	<	50.0	<	100	<	50.0	<	25.0
	Vinyl Chloride	2		—*	<	100		58.4	<	50.0	<	50.0	CIN,<	100	<	50.0	<	25.0
	Xylenes (total)	10,000		—*	<	300	<	6.00	<	150	<	150	<	300	<	150	<	75.0

Bold Font Indicates Detected Parameter

—*. Parameter not analyzed

< Not detected at Reporting Limit

CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for the analyte met CCV acceptance criteria, and was used to validate the batch.

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1. Analyte is also detected in the associated method blank.

2. Data reported from a dilution

3. The concentration indicated is above the instrument calibration range. This value is an estimated concentration.

4. Results may be biased high because of high continuing calibration verification (CCV).

5. Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL

Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-R13		MW-R13		MW-R13		MW-R14		MW-R14		MW-R14		Dup		MW-R14R	
			Date Sampled:	10/16/2012	Date Sampled:	05/24/2013	Date Sampled:	10/16/2013	Date Sampled:	09/28/2011	Date Sampled:	10/18/2011	Date Sampled:	12/13/2011	Date Sampled:	12/13/2011	Date Sampled:	04/11/2012
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	250	1,2	140		89.0	<	10.0	CIN,<	10.0	L1,<	10.0	L1,<	10.0	<	10.0
	1,1-Dichloroethane	810		1,580	1	1,500		1,760		4.96		11.9		5.29		4.97		7.40
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	25.0	1,2	4.9		5.22	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
	1,1-Dichloroethene	7	<	50.0	1	84	<	100		14.9		20.9		9.56		9.91		14.8
	cis-1,2-Dichloroethene	70	<	25.0	1	11		12.1		1.01	<	1.00	<	1.00	<	1.00	<	1.00
	trans-1,2-Dichloroethene	100	<	25.0	<	1.1		1.76	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
	1,4-Dioxane	6.1	J	39		--*		63.6	<	6.0	<	6.0	<	6.0	<	6.0	J	1.2
	Methylene Chloride (Dichloromethane)	5	<	125	1,2	16		19.5	<	5.00	<	5.00	<	5.00	<	5.00	<	5.00
	Tetrachloroethene (Perchloroethene)	5		3,270	1	3,900		3,850		3.49		234		3.67		3.83		4.41
	1,1,1-Trichloroethane	200		2,290	1	2,200		2,520		43.1		86.8		30.0		30.5		40.9
	1,1,2-Trichloroethane	5		102	1	260		182	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
	Trichloroethene	5	<	25.0	1,2	4.2		6.49	<	1.00		1.24	<	1.00	<	1.00	<	1.00
	Vinyl Chloride	2	<	25.0	1	6.1		13.2	<	1.00	<	1.00	CIN,<	1.00	CIN,<	1.00	<	1.00
	Xylenes (total)	10,000	<	75.0	<	10	<	3.00	<	3.00	<	3.00	<	3.00	<	3.00	<	3.00

Bold Font Indicates Detected Parameter

--* Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit
1 Analyte is also detected in the associated method blank
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL

Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	Dup		MW-R14R		Dup		MW-R14R		MW-R14R		MW-15		MW-16		MW-18	
			Date Sampled:	04/11/2012	Date Sampled:	06/12/2012	Date Sampled:	06/12/2012	Date Sampled:	10/16/2012	Date Sampled:	10/17/2013	Date Sampled:	10/22/2002	Date Sampled:	10/22/2002	Date Sampled:	Sep-Oct 1994[6]
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	<	20	<	20	<	25
	1,1-Dichloroethane	810		7.04	CIN	50.8	CIN	46.8		3.27		1.08	<	1.0	<	1.0	<	5.0
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.0	<	1.0	<	5.0
	1,1-Dichloroethene	7		15.5		12.8		13.4		6.36		2.36	<	2.0	<	2.0	<	5.0
	cis-1,2-Dichloroethene	70	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.0	<	1.0	<	5.0
	trans-1,2-Dichloroethene	100	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.0	<	1.0	<	5.0
	1,4-Dioxane	6.1	J	1.1	J	1.2	<	1.0		2.0	<	2.00		—[a]		—[a]		—[a]
	Methylene Chloride (Dichloromethane)	5	<	5.00	<	5.00	<	5.00	<	5.00	<	5.00	<	5.0	<	5.0	<	5.0
	Tetrachloroethene (Perchloroethene)	5		4.15		3.72		3.37		3.23		5.85		2.1	<	1.0	<	5.0
	1,1,1-Trichloroethane	200		42.2		43.3		43.1		25.1		14.9	<	1.0	<	1.0	<	5.0
	1,1,2-Trichloroethane	5	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.0	<	1.0	<	5.0
	Trichloroethene	5	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.0	<	1.0	<	5.0
	Vinyl Chloride	2	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.0	<	1.0		—[a]
	Xylenes (total)	10,000	<	3.00	<	3.00	<	3.00	<	3.00	<	3.00	<	3.0	<	3.0		7.7

Bold Font Indicates Detected Parameter

—[a] Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit.
1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit; the concentration is estimated.

RL for parameter is greater than MCL.
Detected parameter exceeds MCL.

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-18		MW-18		MW-18		MW-18		MW-18		MW-18		MW-18		MW-18	
			Date Sampled:	11/21/1997	Date Sampled:	10/20/1998	Date Sampled:	10/20/1999	Date Sampled:	11/09/2000	Date Sampled:	11/08/2001	Date Sampled:	10/22/2002	Date Sampled:	11/18/2003	Date Sampled:	11/09/2004
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	10	<	20	<	20	<	20	<	20	<	20	<	20.0	<	20.0
	1,1-Dichloroethane	810	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethene	7	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0
	cis-1,2-Dichloroethene	70	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	trans-1,2-Dichloroethene	100	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,4-Dioxane	6.1		—*		—*		—*		—*		—*		—*	<	2.0	<	2.0
	Methylene Chloride (Dichloromethane)	5	<	10	<	10	<	10	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0
	Tetrachloroethene (Perchloroethene)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1,1-Trichloroethane	200	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Vinyl Chloride	2		—*		—*		—*		—*		—*	<	1.0	<	1.0	<	1.0
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter
—* Parameter not analyzed
< Not detected at Reporting Limit.
CN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
CS Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit
1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit; the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-18		MW-18		MW-18		MW-18		MW-18		MW-18		MW-18		MW-18	
			Date Sampled:	11/16/2005	Date Sampled:	11/15/2006	Date Sampled:	10/09/2007	Date Sampled:	10/29/2008	Date Sampled:	10/20/2010	Date Sampled:	03/31/2011	Date Sampled:	10/19/2011	Date Sampled:	10/17/2012
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	20.0	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	CIN,<	10.0	<	10.0
	1,1-Dichloroethane	810	<	1.0	<	1.0	<	1.0	<	1.0		3.54	<	1.00	<	1.00	<	1.00
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00
	1,1-Dichloroethene	7	<	2.0	<	2.0	<	2.0	<	2.0		29.7	<	2.00	<	2.00	<	2.00
	cis-1,2-Dichloroethene	70	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00
	trans-1,2-Dichloroethene	100	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00
	1,4-Dioxane	6.1	<	6	<	2.0	<	2.0	<	2.0	<	2.0	<	8.0	<	8.0	<	1.0
	Methylene Chloride (Dichloromethane)	5	<	5.0	<	22.0	<	5.0	<	5.0	<	5.00	<	5.00	<	5.00	<	5.00
	Tetrachloroethene (Perchloroethene)	5	<	1.0	<	1.0	<	1.0	<	1.0		309	<	1.00	<	1.00	<	1.00
	1,1,1-Trichloroethane	200	<	1.0	<	1.0	<	1.0	<	1.0		38.0	<	1.00	<	1.00	<	1.00
	1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00
	Trichloroethene	5	<	1.0	<	1.0	<	1.0	<	1.0		1.47	<	1.00	<	1.00	<	1.00
	Vinyl Chloride	2	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.00	<	3.00	<	3.00	<	3.00

Bold Font Indicates Detected Parameter

— Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
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RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	D-01		MW-18		MW-19		MW-19		MW-19		MW-19		MW-19		MW-19	
			Date Sampled:	10/17/2012	Date Sampled:	10/17/2013	Date Sampled:	Sep-Oct 1994[a]	Date Sampled:	11/21/1997	Date Sampled:	11/21/1997	Date Sampled:	10/20/1998	Date Sampled:	10/20/1999	Date Sampled:	11/09/2000
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	10.0	<	10.0	<	25	<	20	<	20	<	20	<	20	<	20
	1,1-Dichloroethane	810	<	1.00	<	1.00		130		77.8		80.2		57.2		58.8		35.6
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethene	7	<	2.00	<	2.00		140		13.9		20.3		24.5		43.4		10
	cis-1,2-Dichloroethene	70	<	1.00	<	1.00		150		78.1		79.3		88.3		106		17.9
	trans-1,2-Dichloroethene	100	<	1.00	<	1.00	<	5.0		3.5		4.1		2.2		2.1	<	1.0
	1,4-Dioxane	6.1	<	1.0	<	2.00		—[a]		—[a]		—[a]		—[a]		—[a]		—[a]
	Methylene Chloride (Dichloromethane)	5	<	5.00	<	5.00	<	5.0	<	10	<	10	<	10	<	10	<	5.0
	Tetrachloroethene (Perchloroethene)	5	<	1.00	<	1.00		1,600		180		190		208		374		213
	1,1,1-Trichloroethane	200	<	1.00	<	1.00		900		96		120		163		220		30.6
	1,1,2-Trichloroethane	5	<	1.00	<	1.00		18		5.6		5.3		6.6		7.1	<	1.0
	Trichloroethene	5	<	1.00	<	1.00		170		49.4		52.5		55.2		73.4		21.9
	Vinyl Chloride	2	<	1.00	<	1.00		—[a]		—[a]		—[a]		—[a]		—[a]		—[a]
	Xylenes (total)	10,000	<	3.00	<	3.00	<	5.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter

—[a] Parameter not analyzed.
< Not detected at Reporting Limit
CIH The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
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5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL.
Detected parameter exceeds MCL.

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-19		MW-19		MW-19		MW-19		MW-19		MW-19		MW-19		MW-19	
			Date Sampled:	11/06/2001	Date Sampled:	10/22/2002	Date Sampled:	11/18/2003	Date Sampled:	11/09/2004	Date Sampled:	11/09/2004	Date Sampled:	11/16/2005	Date Sampled:	11/16/2005	Date Sampled:	11/17/2006
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	20	<	20	<	20.0	<	20.0	<	20.0	<	20.0	<	20.0	<	10.0
	1,1-Dichloroethane	810		9.6		5.1		11.7		2.8		2.7		2.15		2.33		5.97
	1,2-Dichloroethane (Ethylene Dichloride)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethene	7		7.9		5		21.3		5.77		5.41		3.45		3.69		9.45
	cis-1,2-Dichloroethene	70		13.2		8.9		19.7		4.72		4.77		3.19		3.24		7.41
	trans-1,2-Dichloroethene	100	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,4-Dioxane	6.1		--[4]		--[4]		14.6		9.4		9.8	<	6	<	8		17
	Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0
	Tetrachloroethene (Perchloroethene)	5		187		130		235		128		122		76.4		73.4		124
	1,1,1-Trichloroethane	200		45.4		38.9		101		26.3		26.2		15.4		15.3		32.7
	1,1,2-Trichloroethane	5		1	<	1.0		1.28	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5		14.8		11.2		24.2		9.23		9.75		4.76		4.76		8.75
	Vinyl Chloride	2		--[4]	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter

--[4] Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
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RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-19		MW-19		MW-19		MW-19		D-01		MW-19		D-01		MW-19	
			Date Sampled:	10/10/2007	Date Sampled:	10/10/2007	Date Sampled:	10/29/2008	Date Sampled:	10/15/2009	Date Sampled:	10/15/2009	Date Sampled:	10/20/2010	Date Sampled:	10/20/2010	Date Sampled:	03/31/2011
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0
	1,1-Dichloroethane	810	<	1.0	<	1.0		1.12		1.60		1.56		25.2		22.2		4.94
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
	1,1-Dichloroethene	7		6.31		6.49		2.05	<	2.00		2.20		44.0		40.3		6.21
	cis-1,2-Dichloroethene	70		1.96		1.75		1.27		3.41		3.72		13.6		11.1		4.67
	trans-1,2-Dichloroethene	100	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
	1,4-Dioxane	6.1		5		5.1	<	2.0		3.5		3.1		22		27		12
	Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0	<	5.00	<	5.00	<	5.00	<	5.00	<	5.00
	Tetrachloroethene (Perchloroethene)	5		64.5		67.2		40		58.0		38.2	CIN	432	CIN	399		69.7
	1,1,1-Trichloroethane	200		2.66		2.46		7.66		6.83		6.71		64.9		59.5		18.0
	1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00		1.02	<	1.00	<	1.00
	Trichloroethene	5		3.52		3.37		1.9		3.64		4.06		14.4		12.4		5.18
	Vinyl Chloride	2	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	<	4.00	<	4.00	<	6.00	<	6.00	<	3.00

Bold Font Indicates Detected Parameter
--- Parameter not analyzed
< Not detected at Reporting Limit.
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
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5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-19		D-01		MW-19		MW-19		MW-20		MW-20		MW-20		MW-20	
			Date Sampled:	10/19/2011	Date Sampled:	10/19/2011	Date Sampled:	10/16/2012	Date Sampled:	10/18/2013	Date Sampled:	Sep-Oct.1994*	Date Sampled:	11/21/1997	Date Sampled:	10/20/1998	Date Sampled:	10/20/1998
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	CIN,<	10.0	CIN,<	10.0	CIN,<	10.0	<	10.0	<	25	<	200	<	20	<	20
	1,1-Dichloroethane	810		**3.84**		**3.38**		**87.8**		**11.8**		**70**		**130**		**77.6**		**88.8**
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.00	<	1.00	<	1.00	<	1.00	<	5.0	<	10	<	1.0	<	1.0
	1,1-Dichloroethene	7		**4.19**		**3.95**		**17.3**		**4.07**		**110**		**70**		**61.2**		**73.4**
	cis-1,2-Dichloroethene	70		**3.09**		**2.69**		**7.14**		**2.58**		**99**		**230**		**221**		**219**
	trans-1,2-Dichloroethene	100	<	1.00	<	1.00	<	1.00	<	1.00	<	5.0	<	10		**4.6**		**3.2**
	1,4-Dioxane	6.1	<	12.		**7.0**		**120**		**17.5**		—*		—*		—*		—*
	Methylene Chloride (Dichloromethane)	5	<	5.00	<	5.00	<	5.00	<	5.00	<	5.0	<	100	<	10	<	10
	Tetrachloroethene (Perchloroethene)	5		**50.5**		**43.9**		**45.5**		**23.7**		**1,800**		**1,020**		**1,450**		**1,490**
	1,1,1-Trichloroethane	200		**13.4**		**12.2**		**9.35**		**6.48**		**780**		**316**		**304**		**307**
	1,1,2-Trichloroethane	5	<	1.00	<	1.00	<	1.00	<	1.00		**20**		**14.4**		**11.4**		**11.7**
	Trichloroethene	5		**4.14**		**3.50**		**5.23**		**2.07**		**26**		**38.2**		**51.2**		**50.9**
	Vinyl Chloride	2	<	1.00	<	1.00	<	1.00	<	1.00		—*		—*		—*		—*
	Xylenes (total)	10,000	<	3.00	<	3.00	<	3.00	<	3.00	<	5.0	<	30	<	3.0	<	3.0

Bold Font Indicates Detected Parameter

—* Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%, The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C3 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
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RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-20		MW-20		MW-20		MW-20		MW-20		MW-20		MW-20		MW-20	
			Date Sampled:	10/20/1999	Date Sampled:	10/20/1999	Date Sampled:	11/09/2000	Date Sampled:	11/06/2001	Date Sampled:	10/22/2002	Date Sampled:	10/22/2002	Date Sampled:	11/18/2003	Date Sampled:	11/18/2003
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	40	<	20	<	20	<	20	<	20	<	20	<	20.0	<	20.0
	1,1-Dichloroethane	810		58.9		68.3		74.1		49.2		43.3		33		57.4		64.9
	1,2-Dichloroethane (Ethylene dichloride)	5	<	2.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethene	7		47.5		57.7		54.2		17.1		33		47.7		45.9		57.3
	cis-1,2-Dichloroethene	70		148		168		279		279		182		182		158		176
	trans-1,2-Dichloroethene	100	<	2.0		1.6		6.6		3.2		3.2		2.3		3.9		4.03
	1,4-Dioxane	6.1		—*		—*		—*		—*		—*		—*		32.5		43.8
	Methylene Chloride (Dichloromethane)	5	<	20	<	10	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0
	Tetrachloroethene (Perchloroethene)	5		957		1,200		915		848		1,330		1,250		1,060		1,090
	1,1,1-Trichloroethane	200		192		233		222		102		168		216		143		166
	1,1,2-Trichloroethane	5		7.0		8.1		7.1		5.5		6.1		5.9		4.85		5.02
	Trichloroethene	5		34.7		42.2		48.5		38.8		48.8		56.4		39.8		45.7
	Vinyl Chloride	2		—*		—*		—*		—*	<	1.0	<	1.0	<	1.0	<	1.0
	Xylenes (total)	10,000	<	6.0	<	3.0	<	3.0	<	15	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter

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CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
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RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-20		MW-20		MW-20		MW-20		MW-20		MW-20		MW-20		MW-20	
			Date Sampled:	11/10/2004	Date Sampled:	11/16/2005	Date Sampled:	11/17/2006	Date Sampled:	10/10/2007	Date Sampled:	10/30/2008	Date Sampled:	10/30/2008	Date Sampled:	10/30/2008	Date Sampled:	10/15/2009
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	20.0	<	20.0	<	10.0	<	10.0	<	50.0		__*	<	50.0	<	10.0
	1,1-Dichloroethane	810		47.9		47.7		41.1		27.2		15.6		__*		27.6		26.5
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	5.0		__*	<	5.0	<	1.00
	1,1-Dichloroethene	7		46.5		50.6		36.2		62.6		10.6		__*		25.3		21.0
	cis-1,2-Dichloroethene	70		124		140		107		90.4		41.4		__*		71.6		57.4
	trans-1,2-Dichloroethene	100		4.45		3.4		6.39		5.39	<	5.0		__*	<	5.0		2.37
	1,4-Dioxane	6.1		90.9	<	30		83		66		__*		64		54		39
	Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0	<	5.0	<	25		__*	<	25	<	5.00
	Tetrachloroethene (Perchloroethene)	5		590		967		642		592		83.8		__*		535		408
	1,1,1-Trichloroethane	200		121		163		102		45.3		25.9		__*		65.8		67.0
	1,1,2-Trichloroethane	5		3.84		3.57		3.1		2.69	<	5.0		__*	<	5.0		1.65
	Trichloroethene	5		31.7		42.3		30.4		29.3		8.7		__*		23.2		21.7
	Vinyl Chloride	2	<	1.0	<	1.0		1.81		2.90	<	5.0		__*	<	5.0	<	1.00
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	15.0		__*	<	15.0	<	4.00

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CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
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RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-20		MW-20		MW-20		D-01		MW-29		MW-R30		MW-R30		MW-R30	
			Date Sampled:	10/20/2010	Date Sampled:	10/19/2011	Date Sampled:	10/16/2013	Date Sampled:	10/16/2013	Date Sampled:	10/22/2002	Date Sampled:	10/22/2002	Date Sampled:	11/17/2003	Date Sampled:	11/09/2004
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	10.0	CIN,<	100	<	10.0	<	10.0	<	20.0	<	20	<	20.0	<	20.0
	1,1-Dichloroethene	810		38.2		15.0		31.3		31.4	<	1.0	<	1.0	<	1.0	<	1.0
	1,2-Dichloroethene (Ethylene dichloride)	5	<	1.00	<	10.0	<	1.00	<	1.00	<	1.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethene	7		89.8	<	20.0		19.2		20.1	<	2.0	<	2.0	<	2.0	<	2.0
	cis-1,2-Dichloroethene	70		55.8		34.9		73.2		84.2	<	1.0		2.8	<	1.0	<	1.0
	trans-1,2-Dichloroethene	100		2.98	<	10.0		2.79		2.83	<	1.0	<	1.0	<	1.0	<	1.0
	1,4-Dioxane	6.1		42		34		38.9		38.9		—*		—*	<	2.0	<	2.0
	Methylene Chloride (Dichloromethane)	5	<	5.00	<	50.0	<	5.00	<	5.00	<	5.0	<	5.0	<	5.0	<	5.0
	Tetrachloroethene (Perchloroethene)	5	CIN	719		452		440		518		6.1		1.4	<	1.0	<	1.0
	1,1,1-Trichloroethane	200		137		55.8		85.7		102		1.1	<	1.0	<	1.0	<	1.0
	1,1,2-Trichloroethane	5		2.52	<	10.0		1.67		1.91	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5		22.4		16.4		18.4		21.9		4.3	<	1.0	<	1.0	<	1.0
	Vinyl Chloride	2	<	1.00	<	10.0	<	1.00	<	1.00	<	1.0	<	1.0	<	1.0	<	1.0
	Xylenes (total)	10,000	<	6.00	<	30.0	<	3.00	<	3.00	<	3.0	<	3.0	<	3.0	<	3.0

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—* Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
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RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-R30		MW-R30		MW-R30		MW-R30		MW-R30		MW-R30		MW-R30		MW-R30	
			Date Sampled:	11/15/2005	Date Sampled:	11/14/2006	Date Sampled:	10/09/2007	Date Sampled:	10/29/2008	Date Sampled:	10/28/2008	Date Sampled:	10/16/2009	Date Sampled:	10/20/2010	Date Sampled:	10/19/2011
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	20.0	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	<	10.0	CIN,<	10.0
	1,1-Dichloroethane	810	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	C9,<	1.00	<	1.00
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00
	1,1-Dichloroethene	7	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.00	C9,<	2.00	<	2.00
	cis-1,2-Dichloroethene	70		1.47	<	1.0	<	1.0		2.06	<	1.0	<	1.00	C9	29.4		91.4
	trans-1,2-Dichloroethene	100	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00
	1,4-Dioxane	6.1		—*		—*		—*		—*		—*		—*		—*		—*
	Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.00	<	5.00	<	5.00
	Tetrachloroethene (Perchloroethene)	5	<	1.0	<	1.0	<	1.0	<	1.0		10.2		63.9	CIN	3.83	<	1.00
	1,1,1-Trichloroethane	200	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0		3.07	<	5.00	<	1.00
	1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.00
	Trichloroethene	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	M1	37.6		74.8		3.04
	Vinyl Chloride	2	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	C9,<	1.00	<	1.00
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	4.00	<	6.00	<	3.00

Bold Font Indicates Detected Parameter

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< Not detected at Reporting Limit
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RL for parameter is greater than MCL
Detected the analyte exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-R30		MW-R30		MW-31		MW-31		MW-31		MW-31		MW-31		MW-31	
			Date Sampled:	10/16/2012	Date Sampled:	10/16/2013	Date Sampled:	Sep-Oct 1994[5]	Date Sampled:	11/21/1997	Date Sampled:	10/20/1998	Date Sampled:	10/20/1999	Date Sampled:	11/09/2000	Date Sampled:	11/08/2001
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	CIN,<	10.0	<	10.0	<	25	<	20	<	20	<	20	<	20	<	20
	1,1-Dichloroethane	810	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethene	7	<	2.00	<	2.00	<	5.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0
	cis-1,2-Dichloroethene	70		34.2		30.0		8.3	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	trans-1,2-Dichloroethene	100	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,4-Dioxane	6.1		—*		—*		—*		—*		—*		—*		—*		—*
	Methylene Chloride (Dichloromethane)	5	<	6.00	<	5.00	<	5.0	<	10	<	10	<	10	<	5.0	<	5.0
	Tetrachloroethene (Perchloroethene)	5		24.9	<	1.00		38	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1,1-Trichloroethane	200		1.07	<	1.00		25	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1,2-Trichloroethane	5	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5		59.2		1.33		19	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Vinyl Chloride	2	<	1.00	<	1.00		—*		—*		—*		—*		—*		—*
	Xylenes (total)	10,000	<	3.00	<	3.00	<	5.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter
—* Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit
1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-31		MW-31		MW-31		MW-31		MW-31		MW-31		MW-31		MW-31	
			Date Sampled:	10/22/2002	Date Sampled:	11/17/2003	Date Sampled:	11/08/2004	Date Sampled:	11/16/2005	Date Sampled:	11/13/2006	Date Sampled:	10/08/2007	Date Sampled:	10/27/2008	Date Sampled:	10/27/2008
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	20	<	20.0	<	20.0	<	20.0	<	10.0	<	10.0	<	10.0	<	10.0
	1,1-Dichloroethane	810	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1-Dichloroethene	7	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0
	cis-1,2-Dichloroethene	70	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	trans-1,2-Dichloroethene	100	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,4-Dioxane	6.1		—*	<	2.0	<	2.0		—*		—*		—*		—*		—*
	Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0
	Tetrachloroethene (Perchloroethene)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0		11.3
	1,1,1-Trichloroethane	200	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Trichloroethene	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Vinyl Chloride	2	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter

—* Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit.
1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-31		MW-31		MW-31		MW-31		MW-31		MW-32		MW-32		MW-32	
			Date Sampled:	10/15/2009	Date Sampled:	10/20/2010	Date Sampled:	10/19/2011	Date Sampled:	10/17/2012	Date Sampled:	10/17/2013	Date Sampled:	Sep-Oct 1994[a]	Date Sampled:	11/21/1997	Date Sampled:	10/20/1999
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	10.0	<	10.0	CIN,<	10.0	<	10.0	<	10.0	<	25	<	20	<	20
	1,1-Dichloroethane	810	<	1.00	C9,<	1.00	<	1.00	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0
	1,1-Dichloroethene	7	R,<	2.00	C9,<	2.00	<	2.00	<	2.00	<	2.00	<	5.0	<	2.0	<	2.0
	cis-1,2-Dichloroethene	70	<	1.00	C9,<	1.00	<	1.00	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0
	trans-1,2-Dichloroethene	100	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0
	1,4-Dioxane	6.1		—[a]		—[a]		—[a]		—[a]		—[a]		—[a]		—[a]		—[a]
	Methylene Chloride (Dichloromethane)	5	<	5.00	<	5.00	<	5.00	<	5.00	<	5.00	<	5.0	<	10	<	10
	Tetrachloroethene (Perchloroethene)	5		5.72	CIN	2.04		11.8	<	1.00	<	1.00	<	5.0		220	<	1.0
	1,1,1-Trichloroethane	200	<	1.00	<	5.00	<	1.00	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0
	1,1,2-Trichloroethane	5	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0
	Trichloroethene	5	<	1.00		2.21	<	1.00	<	1.00	<	1.00	<	5.0	<	1.0	<	1.0
	Vinyl Chloride	2	<	1.00	C9,<	1.00	<	1.00	<	1.00	<	1.00		—[a]		—[a]		—[a]
	Xylenes (total)	10,000	<	4.00	<	6.00	<	3.00	<	3.00	<	3.00	<	5.0	<	3.0	<	3.0

Bold Font Indicates Detected Parameter

—[a] Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
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1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-32		MW-32		MW-32		MW-32		MW-32		MW-32		MW-32		MW-33	
			Date Sampled:	11/06/2001	Date Sampled:	10/22/2002	Date Sampled:	11/08/2004	Date Sampled:	11/14/2006	Date Sampled:	10/28/2008	Date Sampled:	10/20/2010	Date Sampled:	10/17/2012	Date Sampled:	11/15/2005
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	20	<	20	<	20.0	<	10.0	<	10.0	<	10.0	<	10.0	<	20.0
	1,1-Dichloroethane	810	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	C9,<	1.00	<	1.00	<	1.0
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.0
	1,1-Dichloroethene	7	<	2.0	<	2.0	<	2.0	<	2.0	<	2.0	C9,<	2.00	<	2.00	<	2.0
	cis-1,2-Dichloroethene	70	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	C9,<	1.00	<	1.00	<	1.0
	trans-1,2-Dichloroethene	100	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.0
	1,4-Dioxane	6.1		—*		—*	<	2.0		—*		—*		—*		—*	<	6
	Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0	<	5.0	<	5.0	<	5.00	<	5.00	<	5.0
	Tetrachloroethene (Perchloroethene)	5		1.9	<	1.0	<	1.0	<	1.0	<	1.0	CIN,<	1.00	<	1.00	<	1.0
	1,1,1-Trichloroethane	200	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	5.00	<	1.00	<	1.0
	1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.00	<	1.00	<	1.0
	Trichloroethene	5	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0		2.50	<	1.00	<	1.0
	Vinyl Chloride	2		—*	<	1.0	<	1.0	<	1.0	<	1.0	C9,<	1.00	<	1.00	<	1.0
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0	<	3.0	<	3.0	<	6.00	<	3.00	<	3.0

Bold Font Indicates Detected Parameter

—* Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
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1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
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5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected Parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-33		MW-33		MW-33		MW-33		MW-33		MW-33		MW-33		MW-33	
			Date Sampled:	11/13/2006	Date Sampled:	10/06/2007	Date Sampled:	10/28/2008	Date Sampled:	10/28/2008	Date Sampled:	10/28/2008	Date Sampled:	10/15/2009	Date Sampled:	10/20/2010	Date Sampled:	03/31/2011
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	10.0	<	10.0	<	10.0		__*	<	10.0	<	10.0	<	10.0	<	10.0
	1,1-Dichloroethane	810	<	1.0	<	1.0	<	1.0		__*	<	1.0	<	1.00	<	1.00	<	1.00
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.0	<	1.0	<	1.0		__*	<	1.0	<	1.00	<	1.00	<	1.00
	1,1-Dichloroethene	7	<	2.0	<	2.0	<	2.0		__*	<	2.0	<	2.00		2.75	<	2.00
	cis-1,2-Dichloroethene	70	<	1.0	<	1.0	<	1.0		__*	<	1.0	<	1.00	<	1.00	<	1.00
	trans-1,2-Dichloroethene	100	<	1.0	<	1.0	<	1.0		__*	<	1.0	<	1.00	<	1.00	<	1.00
	1,4-Dioxane	6.1	<	5.19	<	2.0		__*	<	2.0	<	2.0	<	2.00	<	2.0	<	6.0
	Methylene Chloride (Dichloromethane)	5	<	5.0	<	5.0	<	5.0		__*	<	5.0	<	5.00	<	5.00	<	5.00
	Tetrachloroethene (Perchloroethene)	5	<	1.0	<	1.0	<	1.0		__*		19.9		3.18		54.6	<	1.00
	1,1,1-Trichloroethane	200	<	1.0	<	1.0	<	1.0		__*	<	1.0	<	1.00		3.95	<	1.00
	1,1,2-Trichloroethane	5	<	1.0	<	1.0	<	1.0		__*	<	1.0	<	1.00	<	1.00	<	1.00
	Trichloroethene	5	<	1.0	<	1.0	<	1.0		__*	<	1.0	<	1.00	<	1.00	<	1.00
	Vinyl Chloride	2	<	1.0	<	1.0	<	1.0		__*	<	1.0	<	1.00	<	1.00	<	1.00
	Xylenes (total)	10,000	<	3.0	<	3.0	<	3.0		__*	<	3.0	<	4.00	<	3.00	<	3.00

Bold Font Indicates Detected Parameter

__* Parameter not analyzed
< Not detected at Reporting Limit
CH The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit
1 Analyte is also detected in the associated method blank.
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RL for parameter is greater than MCL.
Detected parameter exceeds MCL.

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	Duplicate		MW-33		Dup		MW-33		MW-33		MW-33		MW-34		MW-34	
			Date Sampled:	03/31/2011	Date Sampled:	07/17/2011	Date Sampled:	07/17/2011	Date Sampled:	10/19/2011	Date Sampled:	10/17/2012	Date Sampled:	10/17/2013	Date Sampled:	10/20/2010	Date Sampled:	10/19/2011
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	<	10.0	<	10.0	<	10.0	CIN,<	10.0	<	10.0	<	10.0	<	10.0	CIN,<	10.0
	1,1-Dichloroethane	810	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	C9,<	1.00	<	1.00
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
	1,1-Dichloroethene	7	<	2.00	<	2.00	<	2.00	<	2.00	<	2.00	<	2.00	C9,<	2.00	<	2.00
	cis-1,2-Dichloroethene	70	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	C9,<	1.00	<	1.00
	trans-1,2-Dichloroethene	100	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
	1,4-Dioxane	6.1	<	6.0	<	6.0	<	6.0	<	6.0	<	1.0	<	2.00	<	2.0	<	6.0
	Methylene Chloride (Dichloromethane)	5	<	5.00	<	5.00	<	5.00	<	5.00	<	5.00	<	5.00	<	5.00	<	5.00
	Tetrachloroethene (Perchloroethene)	5	<	1.00	<	1.00	<	1.00		3.55	<	1.00	<	1.00	CIN,<	1.00		10.7
	1,1,1-Trichloroethane	200	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	5.00	<	1.00
	1,1,2-Trichloroethane	5	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
	Trichloroethene	5	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	<	1.00
	Vinyl Chloride	2	<	1.00	C9,<	1.00	<	1.00	<	1.00	<	1.00	<	1.00	C9,<	1.00	<	1.00
	Xylenes (total)	10,000	<	3.00	R,<	3.00	<	3.00	<	3.00	<	3.00	<	3.00	<	6.00	<	3.00

Bold Font Indicates Detected Parameter

...*	Parameter not analyzed
<	Not detected at Reporting Limit
CIN	The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9	Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J	Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1	Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1	The MS and/or MSD were outside control limits.
R	Sample duplicate RPD exceeded the laboratory control limit
1	Analyte is also detected in the associated method blank.
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3	The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4	Results may be biased high because of high continuing calibration verification (CCV).
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RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	MW-34		MW-34		MW-34		TMW-1		TMW-2		TMW-3		TMW-4		TMW-5	
			Date Sampled:	12/12/2011	Date Sampled:	10/16/2012	Date Sampled:	10/16/2013	Date Sampled:	06/25/2013	Date Sampled:	06/25/2013	Date Sampled:	06/25/2013	Date Sampled:	06/25/2013	Date Sampled:	06/25/2013
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	L1,<	10.0	<	10.0	<	10.0	<	3.4	<	3.4	<	3.4	5	4.1	5	11
	1,1-Dichloroethane	810	<	1.00	<	1.00	<	1.00		2.4		3.2	2	68		4.8		5.1
	1,2-Dichloroethane (Ethylene dichloride)	5	<	1.00	<	1.00	<	1.00	<	0.078	<	0.078		0.50	<	0.078	<	0.078
	1,1-Dichloroethene	7	<	2.00	<	2.00	<	2.00	<	0.14		0.53		68	5	0.46	5	0.40
	cis-1,2-Dichloroethene	70	<	1.00	<	1.00	<	1.00		1.3		2.4		1.2		2.5	5	0.46
	trans-1,2-Dichloroethene	100	<	1.00	<	1.00	<	1.00	<	0.11	<	0.11	<	0.11	<	0.11	<	0.11
	1,4-Dioxane	6.1	<	6.0	<	1.0	<	2.00		8.4		—*		—*		—*		—*
	Methylene Chloride (Dichloromethane)	5	<	5.00	<	5.00	<	5.00	<	0.14	<	0.14	<	0.14	<	0.14	<	0.14
	Tetrachloroethene (Perchloroethene)	5	<	1.00	<	1.00	<	1.00	5	0.39		0.53	<	0.081	<	0.081	5	0.14
	1,1,1-Trichloroethane	200	<	1.00	<	1.00	<	1.00	<	0.10		0.58	2	63	<	0.10	<	0.10
	1,1,2-Trichloroethane	5	<	1.00	<	1.00	<	1.00	<	0.10	<	0.10	<	0.10	<	0.10	<	0.10
	Trichloroethene	5	<	1.00	<	1.00	<	1.00	5	0.31	5	0.21	5	0.33	5	0.14	5	0.19
	Vinyl Chloride	2	CIN,<	1.00	<	1.00	<	1.00	5	0.25	<	0.16	5	0.43	<	0.16	<	0.16
	Xylenes (total)	10,000	<	3.00	<	3.00	<	3.00	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0

Bold Font Indicates Detected Parameter

—* Parameter not analyzed
< Not detected at Reporting Limit
CIN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit.
1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits.

		MCL	TMW-6		TMW-7		TMW-8		TMW-9		TMW-10		TMW-11		TMW-12		TMW-13	
			Date Sampled:	06/25/2013	Date Sampled:	06/25/2013	Date Sampled:	06/26/2013	Date Sampled:	06/25/2013	Date Sampled:	06/25/2013	Date Sampled:	06/27/2013	Date Sampled:	06/26/2013	Date Sampled:	06/26/2013
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	6,500	<	3.4	<	3.4	5	18	5	5.0	<	3.4	5	9.4	<	3.4		68
	1,1-Dichloroethane	810		0.87		11		11	2	140	2	66		2.1	2	110	3	52
	1,2-Dichloroethane (Ethylene dichloride)	5	<	0.078	<	0.078	<	0.078	5	0.19	<	0.078	<	0.078	<	0.078	<	0.078
	1,1-Dichloroethene	7	<	0.14		3.4		2.9		25	2	7.1		1.5	2	36		3.9
	cis-1,2-Dichloroethene	70		0.72		37		3.3		3.1	<	0.11	5	0.36		40		19
	trans-1,2-Dichloroethene	100	<	0.11		1.6	5	0.25	<	0.11	<	0.11	<	0.11		3.1	5	0.38
	1,4-Dioxane	6.1		—*		—*		—*		—*		—*		—*		—*		—*
	Methylene Chloride (Dichloromethane)	5	<	0.14	<	0.14	<	0.14	<	0.14	<	0.14	<	0.14	<	0.14	<	0.14
	Tetrachloroethene (Perchloroethene)	5		1.7	2	150		0.52		0.75		19	1	22	2	380	3	69
	1,1,1-Trichloroethane	200	5	0.37		13		3.2		4.1	2	79		3.5		38		4.3
	1,1,2-Trichloroethane	5	<	0.10	<	0.10	<	0.10	<	0.10	<	0.10	<	0.10	<	0.10	<	0.10
	Trichloroethene	5		1.1		18		1.2	2	54		7.8	<	0.062		13		2.2
	Vinyl Chloride	2	<	0.16		0.73		0.98		0.55	5	0.31	<	0.16		1.1	<	0.16
	Xylenes (total)	10,000	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0	<	1.0

Bold Font Indicates Detected Parameter

—* Parameter not analyzed
< Not detected at Reporting Limit
C8 The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
J Result is less than the RL but greater than or equal to the MDL, and the concentration is an approximate value.
L1 Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was outside control limits.
M1 The MS and/or MSD were outside control limits.
R Sample duplicate RPD exceeded the laboratory control limit
1 Analyte is also detected in the associated method blank.
2 Data reported from a dilution
3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected Parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	TMW-14		TMW-15		TMW-16		TMW-17		TMW-18		TMW-19		TMW-20		TMW-21	
			Date Sampled:	06/26/2013	Date Sampled:	06/26/2013	Date Sampled:	06/27/2013	Date Sampled:	06/27/2013	Date Sampled:	06/27/2013	Date Sampled:	06/27/2013	Date Sampled:	06/27/2013	Date Sampled:	06/27/2013
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	6,500	<	3.4	<	3.4	5	13	5	4.5	<	34	4	24	<	3.4	5	11
	1,1-Dichloroethane	810		7.0	<	0.12		4.5	2	200	2	28,000		1.5		6.9		8.4
	1,2-Dichloroethane (Ethylene dichloride)	5	<	0.078	<	0.078	<	0.078	<	0.078	2	17	<	0.078	<	0.078	<	0.078
	1,1-Dichloroethene	7	5	0.42	<	0.14		2.5	2	170	2	900		0.66		5.4		1.3
	cis-1,2-Dichloroethene	70		22	<	0.11		0.68		2.9	<	1.1	5	0.28	5	0.42	5	0.12
	trans-1,2-Dichloroethene	100	5	0.25	<	0.11	<	0.11	<	0.11	<	1.1	<	0.11	<	0.11	<	0.11
	1,4-Dioxane	6.1		—[a]		—[a]		—[a]		—[a]		40	<	1.0		16	<	1.0
	Methylene Chloride (Dichloromethane)	5	<	0.14	<	0.14	<	0.14	<	0.14	<	1.4	<	0.14	<	0.14	<	0.14
	Tetrachloroethene (Perchloroethene)	5		2.4	<	0.081	1	1.2	1,2	80	1,2	370	1,5	0.48	1	1.4	1	0.63
	1,1,1-Trichloroethane	200	<	0.10	<	0.10		3.1	2	240	2	4,100		1.7		18		4.3
	1,1,2-Trichloroethane	5	<	0.10	<	0.10	<	0.10	<	0.10	<	1.0	<	0.10	<	0.10	<	0.10
	Trichloroethene	5		3.9	<	0.062		0.62		4.8	2,5	4.7	5	0.16	5	0.39	<	0.062
	Vinyl Chloride	2		7.3	<	0.16	<	0.16	4	0.75	2,4	3.5	<	0.16	<	0.16	<	0.16
	Xylenes (total)	10,000	<	1.0	<	1.0	<	1.0	<	1.0	<	10	<	1.0	<	1.0	<	1.0

Bold Font Indicates Detected Parameter

—[a] Parameter not analyzed

< Not detected at Reporting Limit

CN The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.

C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.

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R Sample duplicate RPD exceeded the laboratory control limit

1 Analyte is also detected in the associated method blank.

2 Data reported from a dilution

3 The concentration indicated is above the instrument calibration range. This value is an estimated concentration.

4 Results may be biased high because of high continuing calibration verification (CCV).

5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL

Detected parameter exceeds MCL

Table 2
Sauer Danfoss
2800 East 13th Street
Ames, Iowa
Groundwater Sample Results
Volatile Organic Compound MCL Limits

		MCL	TMW-22		TMW-23		TMW-24		TMW-26		TMW-27		TMW-28	
			Date Sampled:	06/27/2013	Date Sampled:	06/27/2013	Date Sampled:	06/27/2013	Date Sampled:	06/27/2013	Date Sampled:	06/27/2013	Date Sampled:	06/27/2013
	Analytical Parameter	(µg/L)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)	Qualifer	Result (µg/l)
Volatile Organic Compounds	Acetone	5,500	2,5	870	5	5.4	<	340	<	34	<	340	<	3.4
	1,1-Dichloroethane	810	2	2,600	2	190	2	11,000	2	2,700	2	620	2	420
	1,2-Dichloroethane (Ethylene dichloride)	5	<	7.8	<	0.078	<	7.8	2	9.3	<	7.8	<	0.078
	1,1-Dichloroethene	7	2	6,300	2	100	2	11,000	2	950	2	2,700	2	180
	cis-1,2-Dichloroethene	70	2,5	26	2	84	2	50	2	48	<	11		45
	trans-1,2-Dichloroethene	100	<	11		2.5	<	11	<	1.1	<	11		4.2
	1,4-Dioxane	6.1		—*		—*		—*		—*		—*		110
	Methylene Chloride (Dichloromethane)	5	2	1,300	5	0.48	2	1,600	<	1.4	2,5	56	5	0.55
	Tetrachloroethene (Perchloroethene)	5	2	230,000	1,2	4,000	1,2,3	80,000	1,2	20,000	1,2	30,000	1,2	1,100
	1,1,1-Trichloroethane	200	2	80,000	2	180	2	110,000	2	4,300	2	30,000	2	1,100
	1,1,2-Trichloroethane	5	<	10	<	0.10	<	10	<	1.0	<	10	<	0.10
	Trichloroethene	5		85		29	2	97	2	28	2,5	28		22
	Vinyl Chloride	2	<	16	4	0.85	<	16	2,4	5.5	<	16	4	1.3
	Xylenes (total)	10,000	<	100	<	1.0	<	100	<	10	<	100	<	1.0

Bold Font Indicates Detected Parameter

—* Parameter not analyzed
< Not detected at Reporting Limit
C9 The % RSD for this compound was above 15%. The average % RSD for all compounds in the calibration met the 15% criteria specified in EPA methods 8260B/8270C.
C9 Calibration Verification recovery was outside the method control limits for this analyte. The LCS for this analyte met CCV acceptance criteria, and was used to validate the batch.
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4 Results may be biased high because of high continuing calibration verification (CCV).
5 Analyte was detected but is below the reporting limit, the concentration is estimated.

RL for parameter is greater than MCL
Detected parameter exceeds MCL

Soil Boring Logs/Temporary Monitoring Well Diagrams

Fehr Graham

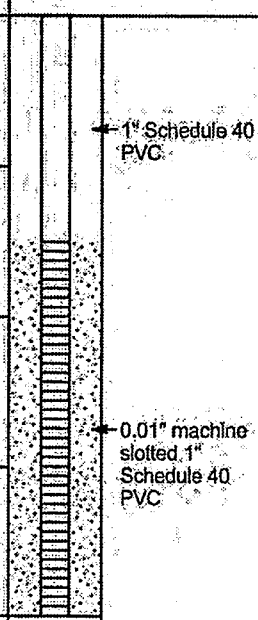
WELL NUMBER B-5/TMW-1

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/25/13 COMPLETED 6/25/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING —
NOTES
AFTER DRILLING 7.00 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MAC	100	OL	0.3	Concrete.	0.0
					Black to dark gray silty lean clay with some fine to medium sand in a silty clay matrix,cohesive, unleached to leached dry to damp, unoxidized, firm to hard.	0.0
						0.0
						0.0
5				5.0		0.0
	MAC	100	CL-ML	6.0	Greenish-gray to grayish-green silty lean clay with few to some fine to medium sand in silty clay matrix, leached, reduced, soft to firm, damp to moist, some olive colored mottling.	0.0
			SC-CL			0.0
				8.0	Brown to gray very fine to fine sandy lean clay, leached to unleached, wet, oxidized to unoxidized, soft.	0.0
				8.5	No Recovery	0.0
10	MAC	100	CL-SC		Brown very fine to medium grained sandy lean clay, soft, oxidized to unleached, moist to wet, soft to firm.	0.0
						0.0
						0.0
	MAC	100				0.0
15				15.0		0.0
			CL-ML	16.0	Gray silty lean clay with fine to coarse sand in a silty clay matrix, hard, damp, unleached, unoxidized.	0.0
				16.5	No Recovery	0.0
			SW-SP	17.5	Brown medium to coarse sand, saturated.	0.0
	MAC	100	ML-CL	18.5	Gray silty lean clay with fine to coarse sand in a silty clay matrix, hard, damp, unleached, unoxidized.	0.0
			SW-SP	19.0	Brown medium to coarse sand, saturated.	0.0
20			ML-CL	20.0	Gray silty lean clay with fine to coarse sand in a silty clay matrix, hard, damp, unleached, unoxidized.	0.0

Bottom of hole at 20.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

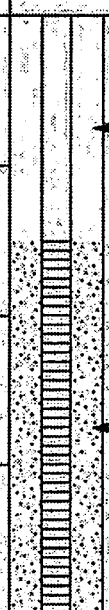
WELL NUMBER B-6/TMW-2

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/25/13 COMPLETED 6/25/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING —
NOTES
AFTER DRILLING 5.39 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	30	SP	0.3	Concrete	0.0
			SW	0.5	Brown coarse well sorted sand, fill	0.0
				1.2	Light brown fine to coarse sand, gravel and silt, fill.	
					No Recovery/fill.	
5	MC	0				
10	MC	25				
				11.1		
			CL-SC	12.0	Light brown and gray sandy silty clay with subrounded gravel, moderately soft, moderately plastic.	0.0
			CL-SC	13.4	Light to medium grayish-brown sandy silty clay with subrounded coarse sand, soft.	0.0
15	MC	100	CL-SC	15.2	Light to medium grayish-brown sandy silty clay with subrounded coarse sand, moderately hard.	0.0
			CL-ML	15.9	Medium brown silty clay with subrounded gravel, very hard.	0.0
			SP	16.0	Subrounded coarse well sorted sand, wet.	

Bottom of hole at 16.0 feet.

WELL DIAGRAM



Fehr Graham

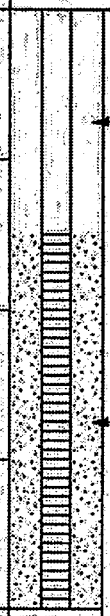
WELL NUMBER B-7/TMW-3

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/25/13 COMPLETED 6/25/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING —
NOTES
AFTER DRILLING 12.65 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MAC	100	CL-ML		0.5 Concrete Dark gray silty lean clay, firm, cohesive, unoxidized, few horizontal fractures throughout, leached to unleached.	0.0 0.0 0.0 0.0
5	MAC	100				0.0 0.0 0.0
			CL-ML		7.0 8.0 Gradational change from dark gray to grayish-green silty lean clay with few to some fine to coarse sand-sized clasts, subangular to subrounded, moist, reduced, leached to unleached, soft. Water assumed at 7'.	0.0 0.0
10	MAC	100	CL-SC		Brown sandy lean clay with fine to coarse subangular to subrounded sand, cohesive, oxidized, leached to unleached, wet.	0.0 0.0 0.0
15	MAC	100				0.0 0.0 0.0
			SW		15.0 15.5 Brown fine to coarse sand, subangular to subrounded, saturated.	0.0
			CL-ML		16.0 Gray silty lean clay with few to some fine to coarse sand, subangular to subrounded, in a silty clay matrix, hard, damp, unleached, unoxidized, cohesive.	

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

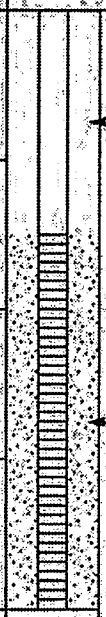
WELL NUMBER B-8/TMW-4

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/25/13 COMPLETED 6/25/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING —
NOTES
AFTER DRILLING 7.76 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	25			0.5 Concrete; 1.0 Fill clay; No Recovery; 4.0	0.0
5	MC	100	CL-ML		Dark gray to greenish silty lean clay, firm, cohesive, unoxidized, leached to unleached. 8.0	0.0, 0.0, 0.0, 0.0
10	MC	100	SW-SP, CL-SC		8.1 Grayish green to greenish-gray, fine to medium sand, loose, saturated. Grayish green to greenish-gray to brown sandy lean clay with very fine to fine sand, cohesive, leached to unleached, oxidized to unoxidezed, wet soft. 13.0	0.0, 0.0, 0.0, 0.0
15	MC	100	CL-SC, CL-ML		Brown silty lean clay with some fine to coarse sand, subangular to subrounded, soft to firm, cohesive. 14.5; Gray silty lean clay with some fine to coarse sand in a silty clay matrix, dry to damp, hard cohesive, unoxidized, unleached. 16.0	0.0, 0.0, 0.0, 0.0

Bottom of hole at 16.0 feet.

WELL DIAGRAM



Fehr Graham

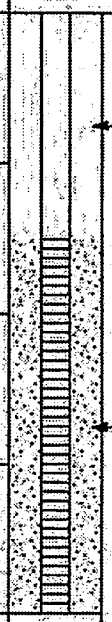
WELL NUMBER B-9/TMW-5

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/25/13 COMPLETED 6/25/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING --
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING --
NOTES
AFTER DRILLING 1.99 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	50			0.5 Concrete.	0.0
					1.5 Fill, rock and clay.	0.0
					No Recovery	
5	MC	75	OL		5.0 Dark gray to black silty lean clay, cohesive, unoxidized, leached, dry to damp, moderately firm.	0.0 0.0 0.0
10	MC	100	CL-SC		8.5 8.6 Grayish green to greenish gray sandy lean clay with very fine to fine sand, cohesive, leached to unleached, damp to moist, moderately firm.	0.0 0.0
			SW-SP		8.7 Grayish green to greenish gray fine to coarse sand seam, saturated, loose.	0.0
			CL-SC		12.0 Grayish green to greenish gray with rust colored mottle, sandy lean clay with very fine to fine sand, cohesive, leached to unleached, damp to moist, moderately firm.	0.0
15	MC	100	CL-SC		15.0 Greenish-gray and brown with rust colored mottle, sandy lean clay with very fine to fine sand, cohesive, leached to unleached, damp to moist, moderately firm.	0.0 0.0 0.0
			CL-ML		15.5 16.0 Brown silty lean clay with fine to coarse subangular to subrounded sand in a silty clay matrix, hard, dry to damp, cohesive, oxidized, unleached to leached.	0.0
			SP		Brown fine sand, dense, dry to damp.	

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

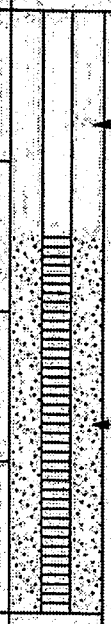
WELL NUMBER B-10/TMW-6

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/25/13 COMPLETED 6/25/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING —
NOTES
AFTER DRILLING 7.04 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	38			0.5 Asphalt. Fill, clay and sand. 5.0	0.0, 0.0
5	MC	50	OL		Dark gray to black silty lean clay, cohesive, unoxidized, leached, dry to damp, soft to firm. 9.0	0.0, 0.0
10	MC	88	CL-SC		Greenish-gray to grayish-green sandy lean clay with very fine to fine few coarse subangular to subrounded sand, cohesive, reduced, leached to unleached, some rust colored mottling. 12.5	0.0, 0.0, 0.0, 0.0
15	MC	88	CL-SC		Brown sandy lean clay with very fine to fine and some coarse subangular to subrounded sand cohesive, oxidized, leached to unleached, wet. 16.0	0.0, 0.0, 0.0, 0.0
	MC	88	SP		Brown fine sand, dense, saturated. 18.0	0.0, 0.0
20			CL-ML		Gray silty lean clay, dry, cohesive, unoxidized, unleached with some medium to coarse subangular to subrounded sand in a silty clay matrix. 20.0	0.0, 0.0

Bottom of hole at 20.0 feet.

WELL DIAGRAM



Fehr Graham

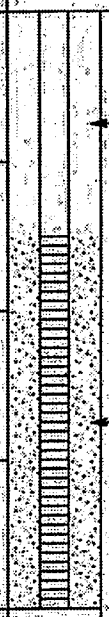
WELL NUMBER B-11/TMW-7

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/25/13 COMPLETED 6/25/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING —
NOTES
AFTER DRILLING 13.77 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
					1.0 No Recovery	
	MC	75	OL		Dark gray to black to greenish silty lean clay, firm to hard, dry to damp, cohesive, unoxidized, leached to unleached. 4.0	0.0 0.0 0.0
5	MC	100	OL		Dark gray to black to greenish silty lean clay, firm to hard, dry to damp, cohesive, unoxidized, leached to unleached with abundant horizontal fractures throughout. 7.0	0.0 0.0 0.0
			CL-SC		Greenish gray to grayish green, sandy lean clay, very fine to fine with some medium to coarse subangular to subrounded sand, cohesive, reduced, soft with some rust colored mottling, wet. 8.5	0.0
10	MC	100	CL-SC		Brown sandy lean clay with very fine to fine and medium to coarse sand, subangular to subrounded, cohesive, oxidized, soft, wet.	0.0 0.0 0.0
15	MC	100			15.0	0.0 0.0 0.0
			SP		15.3 Brown very fine to fine sand, very dense, damp.	0.0
			CL-ML		15.5 Brown sandy lean clay with very fine to fine and medium to coarse sand, subangular to subrounded, cohesive, oxidized, soft, wet.	0.0
20	MC	100	CL-SC		Gray silty lean clay, cohesive, unoxidized, unleached, with some medium to coarse subangular to subrounded sand in a silty clay matrix, hard, dry. 20.0	0.0 0.0 0.0

Bottom of hole at 20.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US GDT 7/26/13

Fehr Graham

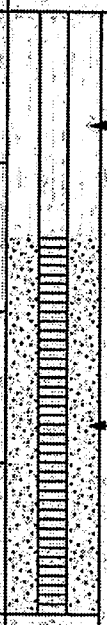
WELL NUMBER B-12/TMW-8

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/25/13 COMPLETED 6/25/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING ---
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING Dry
NOTES
17hrs AFTER DRILLING 6.08 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	100			0.1 Grass; Fill clay and rock. 2.0	0.0
			OL		Black to dary gray silty lean clay, firm to hard, cohesive, unoxidized, leached to unleached, dry to damp.	0.0
5	MC	100			7.0	0.0
			CL-SC		Greenish-gray to grayish-green sandy lean clay with very fine to fine and medium to coarse subangular to subrounded sand, cohesive, reduced, soft with some rust colored mottling, wet. 10.0	0.0
10	MC	100				0.0
			CL-SC		Brown lean clay with very fine to fine and medium to coarse subangular to subrounded sand, cohesive, reduced, soft with some rust colored mottling, wet. 15.0	0.0
15	MC	100				0.0
			CL-ML		16.0 Gray silty lean clay, cohesive, unoxidized, unleached with some medium to coarse subangular to subrounded sand in a silty clay matrix, hard, dry.	0.0

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

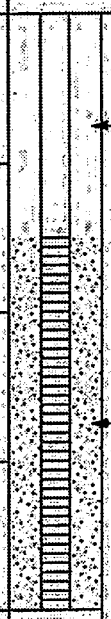
WELL NUMBER B-13/TMW-9

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/25/13 COMPLETED 6/25/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING --
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING --
NOTES
AFTER DRILLING 12.52 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
					0.1 Grass	
					1.0 No Recovery	
	MC	75			Fill rock and clay	0.0
					3.0	0.0
			OL		Dark gray to black silty lean clay, moderately hard, cohesive, unoxidized, leached to unleached, dry to damp.	0.0
5					5.0	0.0
	MC	100	CL-SC		Greenish-gray to grayish-green with some rust-colored mottle sandy lean clay, with very fine to fine and medium to coarse subangular to subrounded sand, cohesive, reduced, odor, moist.	0.0
						0.0
						0.0
					9.0	0.0
10	MC	100	CL-SC		Brown sandy lean clay, with very fine to fine and medium to coarse subangular to subrounded sand, cohesive, reduced, odor, moist.	0.0
						0.0
						0.0
					14.0	0.0
15	MC	100	CL-ML		Brown silty lean clay, cohesive, oxidized, unleached with few to some medium to coarse subangular to subrounded sand in a silty clay matrix, hard, dry.	0.0
					15.5	0.0
			CL-ML		16.0 Gray silty lean clay, cohesive, unoxidized, unleached with few to some medium to coarse subangular to subrounded sand in a silty clay matrix, hard, dry.	

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

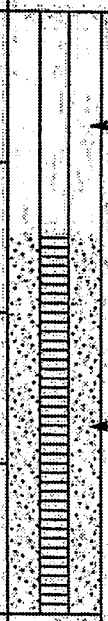
WELL NUMBER B-14/TMW-10

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/25/13 COMPLETED 6/25/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING —
NOTES
AFTER DRILLING 7.06 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	100			0.1 Grass.	0.0
					Fill clay and rock.	0.0
					2.0 Dark gray to black silty lean clay, firm to hard, dry to damp, cohesive, unoxidized, leached to unleached.	0.0
			OL			9.8
					4.5	
5			CL-SC		Grayish-green to greenish-gray sandy lean clay with very fine to fine sand and some medium to coarse subangular to subrounded sand, cohesive, reduced, moist to damp, odor.	124
	MC	100			6.0	847
			CL-SC		Grayish-green to greenish-gray sandy lean clay with very fine to fine sand and some medium to coarse subangular to subrounded sand, cohesive, reduced, moist to damp, more odorous, odor lessens with depth.	241
					8.0	33.3
					Brown sandy lean clay with very fine to fine sand and some medium to coarse subangular to subrounded sand, cohesive, reduced, moist to damp, odor.	0.0
10	MC	100	CL-SC			0.0
						0.0
						0.0
					12.5	
			SP		13.0 Brown fine sand, dense, saturated.	0.0
	MC	100	CL-ML		Brown silty lean clay, dry cohesive, oxidized, unleached, some medium to coarse subangular to subrounded sand in a silty clay matrix, hard.	0.0
15					15.0	0.0
			CL-ML		16.0 Gray silty lean clay, dry cohesive, oxidized, unleached, some medium to coarse subangular to subrounded sand in a silty clay matrix, hard.	0.0

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/28/13

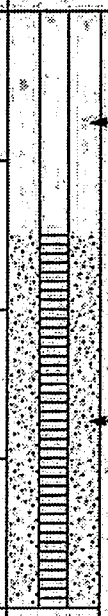
Fehr Graham

WELL NUMBER B-15/TMW-11

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING Dry
NOTES
32hrs AFTER DRILLING 4.60 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	75	OL		0.1 Gravel Dark gray to black silty lean clay moderately hard, damp, cohesive, unoxidized, leached to unleached. 3.0 No Recovery.	0.0 0.0 0.0
5	MC	100	CL-SC		4.0 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, soft to firm, moist. 7.0 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, soft to firm, moist to wet.	0.0 0.0 0.0 0.0
10	MC	100	CL-SC		12.0 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, soft to firm, damp.	0.0 0.0 0.0 0.0
15	MC	100	CL-SC		15.5	0.0 0.0 0.0 0.0
			CL-ML		16.0 Gray silty lean clay, dry, cohesive, unoxidized, unleached, some medium to coarse subangular to subrounded sand in a silty clay matrix, hard. Bottom of hole at 16.0 feet.	

WELL DIAGRAM



Fehr Graham

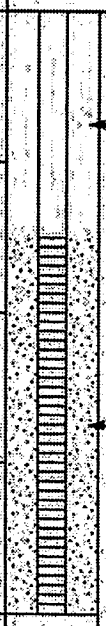
WELL NUMBER B-16/TMW-12

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING Dry
NOTES
AFTER DRILLING Dry

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	50	OL		Grass, topsoil	0.0 0.0
5	MC	100		6.0		0.0 0.0
			CL-SC	8.0	Grayish-green to greenish gray sandy lean clay with very fine to fine and few to some medium to coarse subangular to subrounded, cohesive, soft, reduted, leached to unleached, moist.	0.0 0.0
10	MC	50	CL-SC	10.0	Grayish-green to greenish gray sandy lean clay with very fine to fine and few to some medium to coarse subangular to subrounded, cohesive, soft, reduted, leached to unleached, wet.	0.0 0.0
			CL-SC		Grayish-green to greenish gray sandy lean clay with very fine to fine and few to some medium to coarse subangular to subrounded, cohesive, soft, reduted, leached to unleached, damp.	
15	MC	100		15.5		73.1 200 39.3
			CL-ML	16.0	Gray silty lean clay, dry, cohesive, unoxidized, unleached with few to some medium to coarse subangular to subrounded sand in a silty clay matrix, hard.	2.0

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

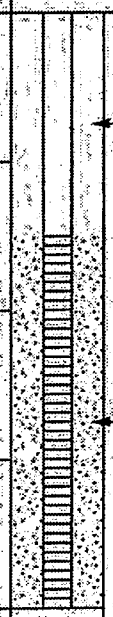
WELL NUMBER B-17/TMW-13

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING —
NOTES
AFTER DRILLING 14.32 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	75	OL		Grass, topsoil.	0.0 0.0 0.0
					3.0 No Recovery 4.0	
5	MC	100	CL-SC		Brown to gray sandy lean clay with very fine to fine with some medium to coarse sunbangular to subrounded sand, cohesive, oxidized to unoxidized, soft to firm, leach to unleached, moist. moist to wet at 6'.	0.7 0.3 0.5 0.1
10	MC	100				2.1 3.9 3.2 2.9
					12.0	
15	MC	100	CL-SC		Brown to gray silty lean clay, cohesive, oxidized to unoxidized, unleached with few to some medium to coarse subangular to subrounded sand in a silty clay matrix, hard, dry.	8.7 1.5 0.1 0.0
			CL-SC		15.5 16.0 Gray silty lean clay, cohesive, unoxidized, unleached with few to some medium to coarse subangular to subrounded sand in a silty clay matrix, hard, dry.	

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

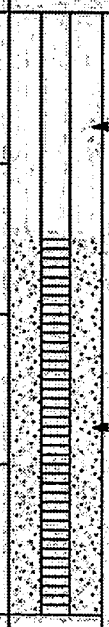
WELL NUMBER B-18/TMW-14

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING ---
LOGGED BY Jeff Ooden CHECKED BY Erica Toledo
AT END OF DRILLING ---
NOTES
AFTER DRILLING 4.51 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	75	OL		Grass and topsoil.	0.0 0.0 0.0
5	MC	75	CL-SC		5.5 Greenish-gray to grayish-green sandy lean clay with very fine to fine and few to some medium to coarse subangular to subrounded sand, cohesive, soft, leached to unleached, reduced, moist to wet.	0.0 0.0 0.1
10	MC	100			12.0	0.0 0.0 0.0 0.0
15	MC	100	CL-ML		Brown silty lean clay, cohesive, oxidized, unleached, few to some medium to coarse subangular to subrounded sand in a silty clay matrix, hard, dry. 15.5	0.1 0.6 1.3
			CL-ML		16.0 Gray silty lean clay, cohesive, unoxidized, unleached, few to some medium to coarse subangular to subrounded sand in a silty clay matrix, hard, dry.	0.0

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

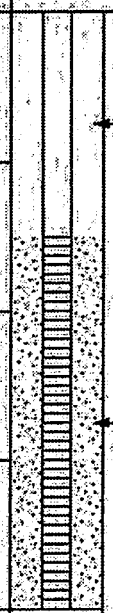
Fehr Graham

WELL NUMBER B-19/TMW-15

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING —
NOTES
AFTER DRILLING 5.78 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	75			Grass, fill rock and clay.	0.0
						0.0
						0.0
					3.0 No Recovery	
5					5.0	
	MC	75	CL-SC		Greenish-gray to grayish-green sandy lean clay with very fine to fine and few to some medium to coarse subangular to subrounded sand, cohesive, soft, reduced, leached to unleached, moist.	0.0
					6.5	0.0
			SP-SW		6.7 Brown to gray fine to coarse sand seam, loose, saturated.	0.0
			CL-SC		Brown to gray sandy lean clay with very fine to fine and few to some medium to coarse subangular to subrounded sand cohesive, leached to unleached, oxidized to unoxidized, wet.	0.0
10	MC	100				0.0
						0.0
					12.0	0.0
			CL-SC		13.0 Brown to gray sandy lean clay with very fine to fine and few to some medium to coarse subangular to subrounded sand cohesive, leached to unleached, oxidized to unoxidized, damp.	0.0
	MC	100	SP-SW		Brown fine to coarse sand, loose to dense, saturated.	0.0
15					15.0	0.0
			CL-ML		15.5 Brown silty lean clay, cohesive, oxidized, unleached, few to some medium eto coasre subangular to subrounded sand is a stiff clay matrix, hard, dry to damp.	0.0
			CL-ML		16.0 Gray silty lean clay, cohesive, unoxidized, unleached, few to some medium eto coasre subangular to subrounded sand is a stiff clay matrix, hard, dry to damp.	
					Bottom of hole at 16.0 feet.	

WELL DIAGRAM



Fehr Graham

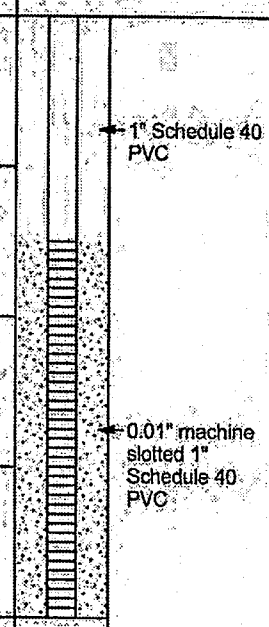
WELL NUMBER B-20/TMW-16

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING ---
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING ---
NOTES
AFTER DRILLING 4.08 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	50			Grass, topsoil	0.0
2.0					No Recovery	0.0
4.0						
5	MC	100	CL-ML		Grayish-green to greenish-gray sandy lean clay with very fine to fine and medium to coarse subangular to subrounded sand, cohesive, moderately firm, reduced, moderately leached, moist.	0.0
6.0					Brown sandy lean clay with very fine to fine and medium to coarse subangular to subrounded sand, cohesive moderately firm, oxidized, moist.	0.0
						0.0
10	MC	100	CL-SC			0.0
						0.0
						0.0
12.5						0.0
15	MC	100	CL-ML		Gray silty lean clay, cohesive, unoxidized, unleached, few to some medium to coarse sand, subangular to subrounded in a silty clay matrix, hard, dry to damp.	0.0
						0.0
						0.0
16.0						0.0

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

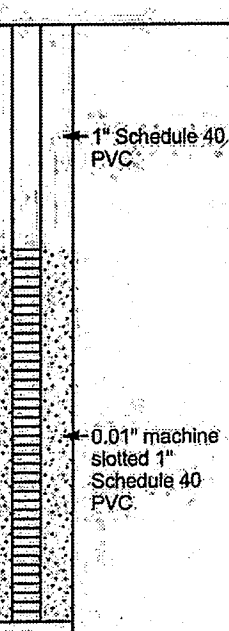
WELL NUMBER B-21/TMW-17

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING --
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING --
NOTES
AFTER DRILLING 3.62 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
					Grass, topsoil. 1.5	0.0
	MC	50			No Recovery 4.0	0.0
5	MC	100	CL-SC		Brown sandy lean clay with very fine to fine with some medium to coarse subangular to subrounded sand cohesive, moderately firm, oxidized, moderately leached, moist. 6.0	0.0
					Brown sandy lean clay with very fine to fine with some medium to coarse subangular to subrounded sand cohesive, moderately firm, oxidized, moderately leached, moist to wet.	0.0
10	MC	100	CL-SC			0.0
					12.0	0.2
						0.6
						2.4
15	MC	100	CL-ML		Gray silty lean clay, cohesive, unleached, few to some medium subangular to subrounded sand in a silty clay matrix; hard, dry to damp. 16.0	1.2
						0.8
						0.2
						0.0

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

WELL NUMBER B-22/TMW-18

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING ---
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING ---
NOTES
AFTER DRILLING 9.69 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)	WELL DIAGRAM
	MC	75		OL		Grass, topsoil	0.0 0.0 0.0	1" Schedule 40 PVC
						3.0 No Recovery 4.0		
5	MC	100		CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, moderately firm, moderately leached, moist. 6.0	0.0 0.0	
				CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, soft, moderately leached, moist to wet.	0.0 0.0	
10	MC	100					1.6 6.4 18.3 11.9	0.01" machine slotted 1" Schedule 40 PVC
						13.0	0.6	
15	MC	100	Refusal at 15'	CL-ML		Brown silty lean clay, cohesive, unleached, few to some medium to coarse subangular to subrounded in a silty clay matrix, hard, dry to damp. 16.0	1.3 7.7	

Bottom of hole at 15.0 feet.

Fehr Graham

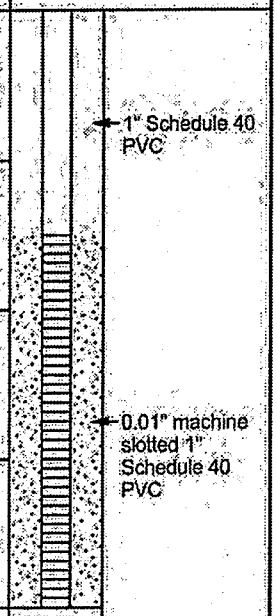
WELL NUMBER B-23/TMW-19

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING --
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING 12.45 ft
NOTES
AFTER DRILLING 12.45 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	63	OL		0.2 Concrete; Topsoil; 2.0	0.0 0.0 0.0
			CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, oxidized, cohesive, firm, moderately leached, damp.	
5	MC	100			6.0	0.0 0.0
			CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, oxidized, cohesive, moderately leached, soft, moist to wet. 8.0	0.0 0.0
10	MC	100	CL-SC		Grayish-green to greenish-gray sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, moderately leached, soft, moist to wet. 11.0	0.0 0.0 0.0
	MC	100	CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, oxidized, cohesive, moderately leached, soft, moist to wet. 15.0	0.0 0.0 0.0 0.0
15			CL-ML		Grayish-green to greenish-gray silty lean clay, cohesive, unleached, few to some medium to coarse sand with gravel in a silty clay matrix, moderately hard, damp. 16.0	0.0

Bottom of hole at 16.0 feet.

WELL DIAGRAM



Fehr Graham

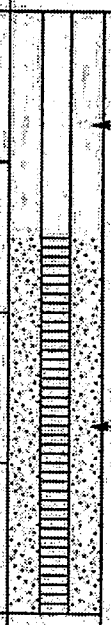
WELL NUMBER B-24/TMW-20

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING --
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING 15.92 ft
NOTES
18hrs AFTER DRILLING 6.07 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	63	OL		Topsoil (0.0–2.5)	3.0, 1.2, 2.2
					No Recovery (2.5–4.0)	
5	MC	100	CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse, subangular to subrounded sand, oxidized, moderately leached, cohesive, firm, moist. (4.0–6.0)	1.3, 2.1
			CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, oxidized, moderately leached, cohesive, firm, moist to wet. (6.0–13.0)	3.1, 2.4, 6.7, 6.6, 7.4, 9.8
10	MC	100				
	MC	100	CL-ML		Brown silty lean clay, cohesive, oxidized, unleached, some medium to coarse subangular to subrounded sand in a silty clay matrix. (13.0–16.0)	5.8, 7.9, 8.5, 8.4
15						

Bottom of hole at 16.0 feet.

WELL DIAGRAM



Fehr Graham

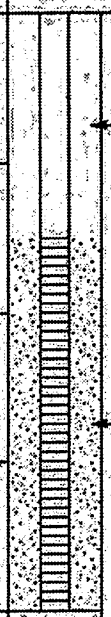
WELL NUMBER B-25/TMW-21

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING ---
LOGGED BY Jeff Odden CHECKED BY Erica Toledo
AT END OF DRILLING Dry
NOTES
18hrs AFTER DRILLING 5.45 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	75			Topsoil.	3.2, 3.1, 1.8
			CL	3.0 / 3.5	Brown with some rust colored mottle, sandy lean clay with very fine to fine sand, coheisve, oxidized, leached to unleached, moderately firm, damp.	
5				5.0	No Recovery	
	MC	75			Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand oxidized, leached to unleached, moderately soft, cohesive, moist to wet.	1.3, 1.2, 1.9
10	MC	100	CL-SC			1.1, 1.1, 1.2, 1.9
	MC	100				3.7, 2.0, 1.4
15			CL-ML	15.0 / 16.0	Gray silty lean clay, cohesive, unoxidized, unleached with few to some medium to coarse subangular to subrounded sand in a silty clay matrix, hard, damp.	3.1

Bottom of hole at 16.0 feet.

WELL DIAGRAM



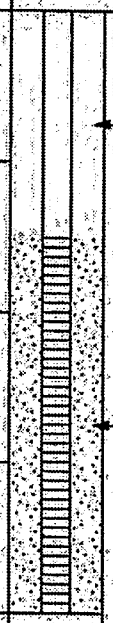
Fehr Graham

WELL NUMBER B-26/TMW-22

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/26/13 COMPLETED 6/26/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING --
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING --
NOTES
AFTER DRILLING 5.73 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	75		OL		Topsoil	4.4 234 37.8
						3.0 No Recovery	
5	MC	100		CL-SC		4.5 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand oxidized, moderately leached, firm, cohesive, moist.	53.4 20.0 4.4 3.4
10	MC	100					11.5 11.4 135
				CL-ML		11.0 Brown silty lean clay, cohesive, oxidized, unleached, some medium to coarse subangular to subrounded sand in a silty clay matrix, hard, damp.	241 3733 2237
15	MC	100	Refusal at 15'	SP		14.5 15.0 Brown fine sand, dense, wet.	6630
						Bottom of hole at 15.0 feet.	

WELL DIAGRAM



Fehr Graham

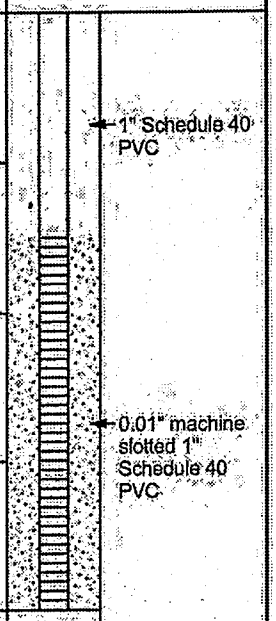
WELL NUMBER B-27/TMW-23

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/27/13 COMPLETED 6/27/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING ---
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING 4.64 ft
NOTES
AFTER DRILLING 4.19 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	REMARKS	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	38		OL		Grass, topsoil. (1.5)	0.0, 0.0
						No Recovery (5.0)	
5	MC	75		CL-SC		Brown sandy lean clay with very fine to find and some subangular to subrounded medium to coarse sand, cohesive, oxidized, moderately leached, moderately firm, damp to moist. (6.0)	0.0, 0.0, 0.0
10	MC	100		CL-SC		Brown sandy lean clay with very fine to fine and some subangular to subrounded medium to coarse sand, cohesive, oxidized, moderately leached, moderately firm, wet. (12.0)	0.0, 0.0, 0.0, 0.0
	MC	50	Refusal at 14'	CL-ML, CL-ML, SP		Brown silty lean clay with few to some medium to coarse subangular to subrounded sand in a silty clay matrix, oxidized, unleached, cohesive, hard, damp. (13.0); Gray silty lean clay with few to some medium to coarse subangular to subrounded sand in a silty clay matrix, unoxidized, unleached, cohesive, hard, damp. (13.5); Gray very fine sand, dry to damp, dense. (14.0)	18.7, 0.0

Bottom of hole at 14.0 feet.

WELL DIAGRAM



Fehr Graham

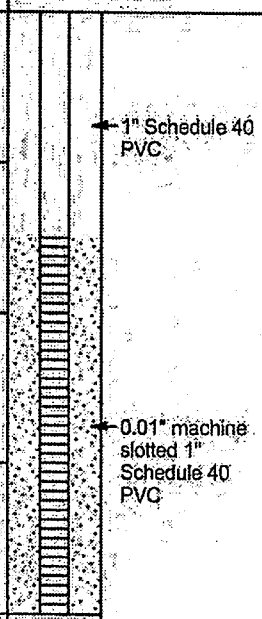
WELL NUMBER B-28/TMW-24

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/27/13 COMPLETED 6/27/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING ---
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING ---
NOTES
AFTER DRILLING 6.10 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	38	OL		Grass, topsoil. (1.5)	0.0, 0.0
					No Recovery	
5	MC	75	CL-SC		(5.0) Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, leached to unleached, moderately firm, damp. (6.0)	1.0, 6.4
					Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, leached to unleached, moderately firm, wet.	15
10	MC	100	CL-SC			12.6, 17.6, 26.7, 39.7, 58.6, 67.1
15	MC	100			(15.0)	234
			CL-ML		Gray silty lean clay with some medium to coarse subangular to subrounded sand in a silty clay matrix, unoxidized, unleached, hard, damp. (16.0)	9.8

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

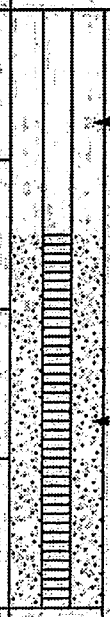
WELL NUMBER B-29/TMW-25

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/27/13 COMPLETED 6/27/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING ---
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING ---
NOTES
AFTER DRILLING Dry

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	38	OL		Grass, topsoil.	0.0, 0.2, 0.3
					3.0 No Recovery	
5	MC	75	CL-SC		5.0 Brown sandy lean clay with vary fine to fine and medium to coarse subangular to subrounded sand, cohesive, oxidized, soft, moist to wet.	0.2, 0.1, 0.1
10	MC	100				0.0, 0.0, 0.0, 0.0
	MC	100			14.0	0.0, 0.0, 0.0
15			CL-ML		15.0 Brown silt lean clay with few to some, fine to coarse subangular to subrounded sand, cohesive, unleached, oxidized, moderately firm, damp.	

Bottom of hole at 15.0 feet.

WELL DIAGRAM



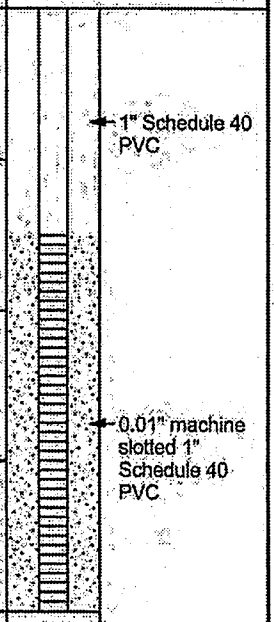
Fehr Graham

WELL NUMBER B-30/TMW-26

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/27/13 COMPLETED 6/27/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING ---
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING 15.00 ft
NOTES
4hrs AFTER DRILLING 14.19 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	75	OL		Topsoil	4.5 0.8 1.7
					3.0 No Recovery	
5					5.0	
	MC	75	CL-SC		6.0 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, moderately leached, soft, moist to wet.	3.1 6.5
			CL-SC		8.0 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, moderately leached, soft, wet.	9
10	MC	100	CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, moderately leached, soft, moist.	16.3 18.2 84.3 49.7
					12.0	
	MC	100	CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, moderately leached, soft, damp.	8 343
15			CL-ML		14.0 Gray silty lean clay with some fine to coarse subangular to subrounded sand, cohesive, hard, unoxidized, unleached, damp.	146 11.3
					16.0 Bottom of hole at 16.0 feet.	

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

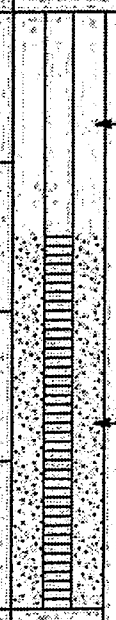
WELL NUMBER B-31/TMW-27

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/27/13 COMPLETED 6/27/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING ---
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING ---
NOTES
AFTER DRILLING 5.21 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	75	OL		Grass, topsoil.	0.1 0.4 1.2
					3.0 No Recovery	
5	MC	75	CL-SC		5.0 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, soft, leached to unleached, wet.	1.2 1.9 1.2
10	MC	100	CL-SC		8.0 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, soft, leached to unleached, moist.	3.5 6.7 9.0 10.5
15	MC	100	CL-SC CL-ML		12.0 13.0 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, soft, leached to unleached, damp. Gray to brownish-gray silty lean clay with some fine to coarse subangular to subrounded sand in a silty clay matrix, cohesive, oxidized to unoxidized, unleached, hard, damp. 16.0	23.6 33.5 60.6 9.4

Bottom of hole at 16.0 feet.

WELL DIAGRAM



Fehr Graham

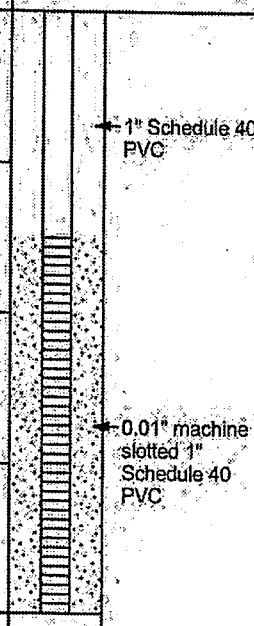
WELL NUMBER B-32/TMW-28

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/27/13 COMPLETED 6/27/13
GROUND ELEVATION
HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Ogden CHECKED BY Erica Toledo
AT END OF DRILLING 4.25 ft
NOTES
AFTER DRILLING 4.05 ft

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
	MC	50	OL		Topsoil	0.0
					2.0 No Recovery	0.0
5	MC	75	CL-SC		5.0 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, leached to unleached, oxidized, soft, moist.	0.3 0.8 0.7
10	MC	100	CL-SC		8.0 9.0 Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, leached to unleached, oxidized, soft, wet.	1.0 0.6
			CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, leached to unleached, oxidized, soft, damp to moist.	0.3 1.9
15	MC	100	CL-ML		14.0 Brown to gray silty lean clay with some fine to coarse subangular to subrounded sand in a silty clay matrix, cohesive, oxidized to unoxidized, unleached, hard, damp. 16.0	5.1 0.0 0.0 0.0

Bottom of hole at 16.0 feet.

WELL DIAGRAM



GENERAL BH / TP / WELL 10-500 JUNE FIELD WORK 2013.GPJ GINT US.GDT 7/26/13

Fehr Graham

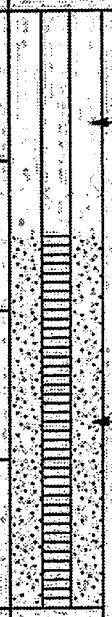
WELL NUMBER B-33/TMW-29

CLIENT Sauer-Danfoss
PROJECT NAME Source Determination
PROJECT NUMBER 10-500
PROJECT LOCATION Ames, IA
DATE STARTED 6/27/13 COMPLETED 6/27/13
GROUND ELEVATION HOLE SIZE 2"
DRILLING CONTRACTOR Direct Push
GROUND WATER LEVELS:
DRILLING METHOD Geoprobe 54 DT
AT TIME OF DRILLING —
LOGGED BY Jeff Odden CHECKED BY Erica Toledo
AT END OF DRILLING —
NOTES
AFTER DRILLING Dry

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY %	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
			OL		Grass, topsoil. 1.5	0.0 0.0
	MC	38			No Recovery	
5					5.0	
	MC	75	CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, moderately firm, leached to unleached, moist to wet. 8.0	0.0 0.0 0.0
10	MC	100	CL-SC		Brown sandy lean clay with very fine to fine and some medium to coarse subangular to subrounded sand, cohesive, oxidized, moderately firm, leached to unleached, moist. 14.0	0.0 0.0 0.0 0.0 0.0 0.0
15	MC	100	CL-ML		Gray silty lean clay with some fine to coarse subangular to subrounded sand in a silty clay matrix, unoxidized, unleached, cohesive, hard, damp. 16.0	0.0 0.0

Bottom of hole at 16.0 feet.

WELL DIAGRAM



Laboratory Analytical Reports

ECCS On-Site Laboratory Case Narrative

Report Date	July 12, 2013
Client	Fehr-Graham (c/o Direct Push Analytical)
Site/ Project Name	Sauer-Danfoss Investigation
Location	Ames, Iowa
Dates of Service	June 25 through 27, 2013
Test Method Reference	LAM-004, VOCs by 8260 Purge & Trap LAM-010, VOCs by 8260 Direct Inject SIM
ECCS Project Number	2662
Client Project or PO Number	Not applicable

1. Introduction

ECCS provided on-site analytical chemistry support during site investigation activities. The target analytes for the project were volatile organic compounds (VOC) including acetone, chlorinated volatile organic compounds (CVOC), 1,4-dioxane, and xylenes. The laboratory analyzed 39 soil and 30 water samples while on-site. Of the 30 water samples, 7 were analyzed for 1,4-dioxane at ECCS' fixed based laboratory in Madison, WI. These samples are reported under a separate cover. Since all samples were prepared / analyzed upon receipt by the laboratory, all method holding times were met. The ECCS Lead Chemist was Krzysztof Trafalski and the ECCS project manager was Nick Nigro.

2. ECCS Method Summary

Soil Analysis

- ECCS analyzed samples for VOCs in soil in accordance with ECCS SOP LAM-010, VOCs by 8260 Direct Inject SIM.
- Fehr-Graham submitted samples to ECCS using ECCS-provided Lock and Load® 10 gram syringes, with additional volume supplied for dry weight analysis.
- ECCS extracted soil samples using methanol. Soil plugs were extruded from the syringe directly into methanol, manually dispersed with a spatula, and then simultaneously shaken and sonicated for 20 minutes. The extracts were then centrifuged to separate the extract from the soil matrix. An aliquot of the sample was then taken for analysis.
- ECCS performed VOC analysis using an Hewlett-Packard (HP) 5890 gas chromatograph (GC) equipped with an HP 5971 mass selective detector (MSD).

- The reporting limit (RL) for all compounds except acetone, 1,4-dioxane, and methylene chloride was 25 µg/kg. Both 1,4-dioxane and methylene chloride had a RL of 100 µg/kg and acetone had a RL of 250 µg/kg.
- Surrogate compounds were added to all samples prior to extraction.
- A laboratory blank and laboratory control sample (LCS) were prepared on a one per day basis. Matrix spike/matrix spike duplicate (MS/MSD) were prepared and analyzed using separate soil subsamples collected in separate Lock and Load® syringes when provided by Fehr-Graham. In situations where additional sample volume was not available for an MS/MSD study, an LCS duplicate was prepared. Fortification of the LCS and MS/MSD samples with target analytes occurred prior to sample extraction.

Water Analysis

- ECCS analyzed samples for VOCs in water in accordance with ECCS SOP LAM-004, VOCs by 8260 Purge & Trap.
- Fehr-Graham submitted samples in duplicate to ECCS using unpreserved 40-mL VOA vials.
- ECCS performed VOC analysis using a HP 5890 GC equipped with a HP 5971 MSD and Tekmar LSC 2000 purge and trap concentrators in "duet" configuration.
- The RL for all compounds except acetone and methylene chloride was 0.5 µg/L. Acetone had a RL of 20 µg/L and methylene chloride had a RL of 2.0 µg/L.
- Surrogate compounds were added to samples at the time of analysis.
- Laboratory blanks, LCSs and MS/MSDs were prepared and analyzed on a one per day basis. Target compounds for LCS and MS/MSD samples were added at the time of analysis.

3. Quality Control Summary

Instrument Tuning	Instrument tuning was verified every twelve hours using 4-bromofluoro benzene (BFB). All acceptance criteria were met.
Initial Calibration	An initial calibration for each method using a minimum of 7 points was performed on 6/24/13. Each calibration was verified using second source standards. All method calibration criteria were acceptable.
Continuing Calibration	The instrument calibration was verified every 10 injections using a dual point calibration standard for soils and a single point calibration standard for waters. In general, method criteria were acceptable for the constituents of concern at the site. Any deviations were appropriately qualified.
Method Blanks	In general, the method blanks that were analyzed each day were free of contamination. On 6/27/13 PCE was detected above the reporting limit in the water analysis. This was not due to laboratory contamination, rather from carry over within the

	instrument from previously analyzed samples. The samples in question contained very high levels of PCE.
Blank Spikes	In general, the recoveries for the constituents of concern were acceptable. Any deviations were appropriately qualified.
MS/MSD	In general, the recoveries for the constituents of concern were acceptable. Any deviations were appropriately qualified.

4. Analytical Reports

The analytical results are presented in summary format in Appendix A. Appendix B contains full analytical reports for each sample along with quality control sample results. Appendix C contains Chain of Custody documentation.

5. Signature Approval

This document has been prepared by the under-signed:

07/12/13
Krzysztof Trafalski — Date
Lead Chemist

This document has been reviewed by the under-signed:

07/12/13
Nick Nigro — Date
Project Manager

Certification List			Expires
ILEPA	Illinois Secondary NELAP Accreditation	200062	04/30/2014
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2014
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2014
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2014
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2013

Appendix A

Summary Style Report

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SUMMARY REPORT

Fehr Graham & Associates, LLC
221 E Mail St, Suite 200
Freeport, IL 61032

Project: Sauer-Danfoss - Ames, IA
Project Number: 10-500
Project Manager: Jeff Ogden

SAMPLED: 06/24/2013 to 06/27/2013
RECEIVED: 06/24/2013 to 06/27/2013

LAB #		J132602-01	J132602-02	J132602-03	J132604-01	J132604-02	J132604-03
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	MW-5	MW-R6S	MW-R13	TMW-1	TMW-2	TMW-3
Volatile Organic Compounds by Method 8260 - Purge and Trap (Water)							
Acetone	20 ug/L	<3.4	<3.4	140 [2] [5]	<3.4	<3.4	<3.4
1,1-Dichloroethane	0.50 ug/L	17	4.4	1500 [2]	2.4	3.2	68 [2]
1,2-Dichloroethane	0.50 ug/L	<0.078	<0.078	4.9 [2] [5]	<0.078	<0.078	0.50
trans-1,2-Dichloroethene	0.50 ug/L	<0.11	0.22 [5]	<1.1	<0.11	<0.11	<0.11
cis-1,2-Dichloroethene	0.50 ug/L	7.4	3.7	11 [2]	1.3	2.4	1.2
1,1-Dichloroethene	0.50 ug/L	5.7	0.56	84 [2]	<0.14	0.53	88 [2]
Methylene chloride	2.0 ug/L	<0.14	<0.14	16 [2] [5]	<0.14	<0.14	<0.14
Tetrachloroethene	0.50 ug/L	0.45 [5]	34	3800 [2]	0.39 [5]	0.53	<0.081
1,1,1-Trichloroethane	0.50 ug/L	1.1	0.26 [5]	2200 [2]	<0.10	0.58	63 [2]
1,1,2-Trichloroethane	0.50 ug/L	<0.10	<0.10	260 [2]	<0.10	<0.10	<0.10
Trichloroethene	0.50 ug/L	1.0	3.2	4.2 [2] [5]	0.31 [5]	0.21 [5]	0.33 [5]
Vinyl chloride	0.50 ug/L	0.43 [5]	7.6	6.1 [2]	0.25 [5]	<0.16	0.43 [5]
m,p-Xylene	1.0 ug/L	<0.057	<0.057	<0.57	0.11 [5]	0.11 [5]	0.15 [5]
o-Xylene	0.50 ug/L	<0.058	<0.058	<0.58	<0.058	<0.058	<0.058
Xylenes, total	1.5 ug/L	<1.0	<1.0	<10	<1.0	<1.0	<1.0
Dibromofluoromethane	117 [surr]	110%	110%	100%	97%	100%	100%
Toluene-d8	111 [surr]	100%	100%	100%	99%	100%	100%
4-Bromofluorobenzene	108 [surr]	100%	100%	100%	100%	99%	100%

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SUMMARY REPORT

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Project: Sauer-Danfoss - Ames, IA
Project Number: 10-500
Project Manager: Jeff Ogden

SAMPLED: 06/24/2013 to 06/27/2013
RECEIVED: 06/24/2013 to 06/27/2013

LAB #		J132604-04	J132604-05	J132604-06	J132604-07	J132604-08	J132604-09
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	TMW-4	TMW-5	TMW-6	TMW-7	TMW-9	TMW-10
Volatile Organic Compounds by Method 8260 - Purge and Trap (Water)							
Acetone	20 ug/L	4.1 [5]	11 [5]	<3.4	<3.4	5.0 [5]	<3.4
1,1-Dichloroethane	0.50 ug/L	4.8	5.1	0.87	11	140 [2]	66 [2]
1,2-Dichloroethane	0.50 ug/L	<0.078	<0.078	<0.078	<0.078	0.19 [5]	<0.078
trans-1,2-Dichloroethene	0.50 ug/L	<0.11	<0.11	<0.11	1.6	<0.11	<0.11
cis-1,2-Dichloroethene	0.50 ug/L	2.5	0.46 [5]	0.72	37	3.1	<0.11
1,1-Dichloroethene	0.50 ug/L	0.46 [5]	0.40 [5]	<0.14	3.4	25	71 [2]
Methylene chloride	2.0 ug/L	<0.14	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.50 ug/L	<0.081	0.14 [5]	1.7	150 [2]	0.75	19
1,1,1-Trichloroethane	0.50 ug/L	<0.10	<0.10	0.37 [5]	13	4.1	79 [2]
1,1,2-Trichloroethane	0.50 ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichloroethene	0.50 ug/L	0.14 [5]	0.19 [5]	1.1	15	54 [2]	7.5
Vinyl chloride	0.50 ug/L	<0.16	<0.16	<0.16	0.73	0.55	0.31 [5]
m,p-Xylene	1.0 ug/L	0.13 [5]	0.19 [5]	<0.057	<0.057	<0.057	<0.057
o-Xylene	0.50 ug/L	<0.058	0.13 [5]	<0.058	<0.058	<0.058	<0.058
Xylenes, total	1.5 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromofluoromethane	117 [surr]	100%	100%	100%	100%	100%	100%
Toluene-d8	111 [surr]	100%	100%	100%	100%	98%	100%
4-Bromofluorobenzene	108 [surr]	100%	100%	100%	100%	100%	100%

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SUMMARY REPORT

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Project: Sauer-Danfoss - Ames, IA
Project Number: 10-500
Project Manager: Jeff Ogden

SAMPLED: 06/24/2013 to 06/27/2013
RECEIVED: 06/24/2013 to 06/27/2013

LAB #		J132606-01	J132606-02	J132606-03	J132606-04	J132606-05	J132606-06
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	TMW-8	TMW-12	TMW-14	TMW-15	TMW-13	TMW-18
Volatile Organic Compounds by Method 8260 - Purge and Trap (Water)							
Acetone	20 ug/L	18 [5]	<3.4	<3.4	<3.4	68	<34
1,1-Dichloroethane	0.50 ug/L	11	110 [2]	7.0	<0.12	52 [3]	28000 [2]
1,2-Dichloroethane	0.50 ug/L	<0.078	<0.078	<0.078	<0.078	<0.078	17 [2]
trans-1,2-Dichloroethene	0.50 ug/L	0.25 [5]	3.1	0.25 [5]	<0.11	0.38 [5]	<1.1
cis-1,2-Dichloroethene	0.50 ug/L	3.3	40	22	<0.11	19	<1.1
1,1-Dichloroethene	0.50 ug/L	2.9	36 [2]	0.42 [5]	<0.14	3.9	900 [2]
Methylene chloride	2.0 ug/L	<0.14	<0.14	<0.14	<0.14	<0.14	<1.4
Tetrachloroethene	0.50 ug/L	0.52	380 [2]	2.4	<0.081	69 [3]	370 [1] [2]
1,1,1-Trichloroethane	0.50 ug/L	3.2	38	<0.10	<0.10	4.3	4100 [2]
1,1,2-Trichloroethane	0.50 ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0
Trichloroethene	0.50 ug/L	1.2	13	3.9	<0.062	2.2	4.7 [2] [5]
Vinyl chloride	0.50 ug/L	0.96	1.1	7.3	<0.16	<0.16	5.5 [2] [4]
m,p-Xylene	1.0 ug/L	<0.057	<0.057	<0.057	0.14 [5]	<0.057	<0.57
o-Xylene	0.50 ug/L	<0.058	<0.058	<0.058	<0.058	<0.058	<0.58
Xylenes, total	1.5 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<10
Dibromofluoromethane	117 [surr]	100%	110%	110%	110%	100%	100%
Toluene-d8	111 [surr]	100%	100%	100%	100%	100%	100%
4-Bromofluorobenzene	108 [surr]	98%	99%	100%	100%	100%	97%

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SUMMARY REPORT

Fehr Graham & Associates, LLC
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Project: Sauer-Danfoss - Ames, IA
Project Number: 10-500
Project Manager: Jeff Ogden

SAMPLED: 06/24/2013 to 06/27/2013
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LAB #		J132606-07	J132608-01	J132608-02	J132608-03	J132608-04	J132608-05
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	TMW-22	TMW-21	TMW-20	TMW-19	TMW-17	TMW-16
Volatile Organic Compounds by Method 8260 - Purge and Trap (Water)							
Acetone	20 ug/L	870 [2] [5]	11 [5]	<3.4	24 [4]	4.5 [5]	13 [5]
1,1-Dichloroethane	0.50 ug/L	2400 [2]	8.4	6.9	1.5	200 [2]	4.5
1,2-Dichloroethane	0.50 ug/L	<7.8	<0.078	<0.078	<0.078	<0.078	<0.078
trans-1,2-Dichloroethene	0.50 ug/L	<11	<0.11	<0.11	<0.11	<0.11	<0.11
cis-1,2-Dichloroethene	0.50 ug/L	26 [2] [5]	0.12 [5]	0.42 [5]	0.28 [5]	2.9	0.68
1,1-Dichloroethene	0.50 ug/L	6300 [2]	1.3	5.4	0.66	170 [2]	2.5
Methylene chloride	2.0 ug/L	1300 [2]	<0.14	<0.14	<0.14	<0.14	<0.14
Tetrachloroethene	0.50 ug/L	230000 [2]	0.63 [1]	1.4 [1]	0.48 [1] [5]	80 [1] [2]	1.2 [1]
1,1,1-Trichloroethane	0.50 ug/L	80000 [2]	4.3	16	1.7	240 [2]	3.1
1,1,2-Trichloroethane	0.50 ug/L	<10	<0.10	<0.10	<0.10	<0.10	<0.10
Trichloroethene	0.50 ug/L	65 [2]	<0.062	0.36 [5]	0.16 [5]	4.8	0.62
Vinyl chloride	0.50 ug/L	<16	<0.16	<0.16	<0.16	0.75 [4]	<0.16
m,p-Xylene	1.0 ug/L	72 [2] [5]	0.45 [5]	<0.057	<0.057	<0.057	<0.057
o-Xylene	0.50 ug/L	23 [2] [5]	0.22 [5]	<0.058	<0.058	<0.058	<0.058
Xylenes, total	1.5 ug/L	<100	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromofluoromethane	117 [surr]	110%	110%	110%	71% [6]	110%	110%
Toluene-d8	111 [surr]	100%	100%	100%	100%	100%	100%
4-Bromofluorobenzene	108 [surr]	100%	99%	98%	98%	100%	99%

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SUMMARY REPORT

Fehr Graham & Associates, LLC
221 E Mall St, Suite 200
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Project: Sauer-Danfoss - Ames, IA
Project Number: 10-500
Project Manager: Jeff Ogden

SAMPLED: 06/24/2013 to 06/27/2013
RECEIVED: 06/24/2013 to 06/27/2013

LAB #		J132608-06	J132608-07	J132608-08	J132608-09	J132608-10	J132608-11
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	TMW-27	TMW-28	TMW-26	TMW-23	TMW-24	TMW-11
Volatile Organic Compounds by Method 8260 - Purge and Trap (Water)							
Acetone	20 ug/L	<340	<3.4	<34	5.4 [5]	<340	9.4 [5]
1,1-Dichloroethane	0.50 ug/L	620 [2]	420 [2]	2700 [2]	190 [2]	11000 [2]	2.1
1,2-Dichloroethane	0.50 ug/L	<7.8	<0.078	9.3 [2]	<0.078	<7.8	<0.078
trans-1,2-Dichloroethene	0.50 ug/L	<11	4.2	<1.1	2.5	<11	<0.11
cis-1,2-Dichloroethene	0.50 ug/L	<11	45	48 [2]	84 [2]	50 [2]	0.36 [5]
1,1-Dichloroethene	0.50 ug/L	2700 [2]	160 [2]	950 [2]	100 [2]	11000 [2]	1.5
Methylene chloride	2.0 ug/L	56 [2] [5]	0.55 [5]	<1.4	0.48 [5]	1600 [2]	<0.14
Tetrachloroethene	0.50 ug/L	30000 [1] [2]	1100 [1] [2]	20000 [1] [2]	4000 [1] [2]	80000 [1] [2] [3]	22 [1]
1,1,1-Trichloroethane	0.50 ug/L	30000 [2]	1100 [2]	4300 [2]	180 [2]	110000 [2]	3.5
1,1,2-Trichloroethane	0.50 ug/L	<10	<0.10	<1.0	<0.10	<10	<0.10
Trichloroethene	0.50 ug/L	28 [2] [5]	22	28 [2]	29	87 [2]	<0.062
Vinyl chloride	0.50 ug/L	<16	1.3 [4]	5.5 [2] [4]	0.85 [4]	<16	<0.16
m,p-Xylene	1.0 ug/L	<5.7	0.17 [5]	6.8 [2] [5]	<0.057	<5.7	0.20 [5]
o-Xylene	0.50 ug/L	<5.8	0.10 [5]	2.4 [2] [5]	<0.058	<5.8	<0.058
Xylenes, total	1.5 ug/L	<100	<1.0	<10	<1.0	<100	<1.0
Dibromofluoromethane	117 [surr]	110%	110%	110%	110%	110%	110%
Toluene-d8	111 [surr]	100%	100%	100%	100%	100%	100%
4-Bromofluorobenzene	108 [surr]	99%	100%	100%	99%	100%	100%

Special Notes

1 = Analyte is also detected in the associated method blank.
2 = Data reported from a dilution
3 = The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
4 = Results may be biased high because of high continuing calibration verification (CCV).
5 = Analyte was detected but is below the reporting limit. The concentration is estimated.
6 = Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

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SUMMARY REPORT

Fehr Graham & Associates, LLC		Project:	Sauer-Danfoss - Ames, IA
221 E Mall St, Suite 200		Project Number:	10-500
Freeport, IL 61032		Project Manager:	Jeff Ogden
SAMPLED:	06/25/2013 to 06/27/2013	**REPORTED:**	07/12/2013 15:49
RECEIVED:	06/25/2013 to 06/27/2013		

LAB #		J132603-01	J132603-02	J132603-03	J132603-04	J132603-05	J132603-06
MATRIX	Minimum	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE ID	Reporting Limit	B-5 5'-6'	B-7 6'-7'	B-8 6'-7'	B-9 6'-7'	B-10 6'	B-11 6'-7'
Volatile Organic Compounds by Method 8260 - Direct Inject (Soil)							
1,1,1-Trichloroethane	25 ug/kg dry	<12	<11	<11	<11	<11	<12
1,1,2-Trichloroethane	25 ug/kg dry	<8.0	<7.8	<7.8	<7.9	<7.9	<8.1
1,1-Dichloroethane	25 ug/kg dry	<4.7	<4.6	<4.6	<4.7	<4.7	<4.8
1,1-Dichloroethene	25 ug/kg dry	<3.9	<3.9	<3.9	<3.9	<3.9	<4.0
1,2-Dichloroethane	25 ug/kg dry	<4.3	<4.2	<4.2	<4.3	<4.3	<4.4
cis-1,2-Dichloroethene	25 ug/kg dry	<6.5	<6.4	<6.4	<6.5	<6.5	<6.7
m,p-Xylene	50 ug/kg dry	<1.7	<1.7	<1.7	<1.7	<1.7	<1.8
Methylene chloride	100 ug/kg dry	<2.2	<2.2	<2.2	<2.2	<2.2	<2.3
o-Xylene	25 ug/kg dry	<3.1	<3.0	<3.0	<3.1	<3.0	<3.1
Tetrachloroethene	25 ug/kg dry	<7.1	<7.0	<7.0	<7.1	<7.0	<7.3
trans-1,2-Dichloroethene	25 ug/kg dry	<3.9	<3.9	<3.9	<3.9	<3.9	<4.0
Trichloroethene	25 ug/kg dry	<4.2	<4.2	<4.1	<4.2	<4.2	<4.3
Vinyl chloride	25 ug/kg dry	<13	<13	<13	<13	<13	<14
Xylenes, total	75 ug/kg dry	<72	<71	<71	<72	<71	<74
1,4-Dioxane	100 ug/kg dry	<96	<94	<94	<96	<95	<98
Acetone	250 ug/kg dry	<16	<16	<16	<16	<16	<17
1-Bromo-2-chloroethane	118 [surr]	96%	93%	95%	96%	95%	93%
Toluene-d8	111 [surr]	91%	92%	88%	89%	91%	90%
4-Bromofluorobenzene	113 [surr]	89%	88%	89%	90%	92%	91%
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	85.1	81.9	83.5	83.2	84.3	84.0

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SUMMARY REPORT

Fehr Graham & Associates, LLC	Project: Sauer-Danfoss - Ames, IA
221 E Mail St, Suite 200	Project Number: 10-500
Freeport, IL 61032	Project Manager: Jeff Ogden
SAMPLED: 06/25/2013 to 06/27/2013	**REPORTED:** 07/12/2013 15:49
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LAB #		J132603-07	J132603-08	J132603-09	J132603-10	J132605-01	J132605-02
MATRIX	Minimum	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE ID	Reporting Limit	B-12 6'-7'	B-13 6'-7'	B-14 5'-6'	B-14 5'-6' DUP	B-15 6'-7'	B-16 5'-6'
Volatile Organic Compounds by Method 8260 - Direct Inject (Soil)							
1,1,1-Trichloroethane	25 ug/kg dry	<11	<11	<10	<10	<11	<11
1,1,2-Trichloroethane	25 ug/kg dry	<7.3	<7.8	<7.1	<7.3	<7.5	<7.9
1,1-Dichloroethane	25 ug/kg dry	<4.3	<4.6	<4.2	<4.3	<4.4	<4.6
1,1-Dichloroethene	25 ug/kg dry	<3.6	<3.9	<3.5	<3.6	<3.7	<3.9
1,2-Dichloroethane	25 ug/kg dry	<4.0	<4.2	<3.9	<3.9	<4.1	<4.3
cis-1,2-Dichloroethene	25 ug/kg dry	<6.0	<6.4	<5.8	<5.9	<6.2	11 [3]
m,p-Xylene	50 ug/kg dry	<1.6	<1.7	<1.5	<1.6	<1.6	<1.7
Methylene chloride	100 ug/kg dry	<2.0	<2.2	<2.0	<2.0	<2.1	<2.2
o-Xylene	25 ug/kg dry	<2.8	<3.0	<2.7	<2.8	<2.9	<3.0
Tetrachloroethene	25 ug/kg dry	<6.5	<7.0	<6.4	<6.5	<6.7	<7.0
trans-1,2-Dichloroethene	25 ug/kg dry	<3.6	<3.9	<3.5	<3.6	<3.7	<3.9
Trichloroethene	25 ug/kg dry	<3.9	<4.1	<3.8	<3.8	<4.0	<4.2
Vinyl chloride	25 ug/kg dry	<12 [4]	<13 [4]	<12 [4]	<12 [4]	<13 [4]	<13 [4]
Xylenes, total	75 ug/kg dry	<66	<71	<64	<66	<68	<71
1,4-Dioxane	100 ug/kg dry	<88	<94	<86	<87	<91	<95
Acetone	250 ug/kg dry	<15	<16	<15	<15	<15	<16
1-Bromo-2-chloroethane	118 [surr]	94%	96%	90%	91%	89%	92%
Toluene-d8	111 [surr]	87%	90%	89%	93%	90%	88%
4-Bromofluorobenzene	113 [surr]	89%	450% [5]	1100% [5]	940% [5]	84%	85%
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	81.6	85.0	86.4	85.4	79.8	84.4

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SUMMARY REPORT

Fehr Graham & Associates, LLC		Project:	Sauer-Danfoss - Ames, IA
221 E Mail St, Suite 200		Project Number:	10-500
Freeport, IL 61032		Project Manager:	Jeff Ogden
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LAB #		J132605-03	J132605-04	J132605-05	J132605-06	J132605-07	J132605-08
MATRIX	Minimum	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE ID	Reporting Limit	B-16 13'-14'	B-17 12'-13'	B-18 14'-15'	B-19 13'-14'	B-20 12'-13'	B-21 11'-12'
Volatile Organic Compounds by Method 8260 - Direct Inject (Soil)							
1,1,1-Trichloroethane	25 ug/kg dry	710	66	<11	<10	<12	370
1,1,2-Trichloroethane	25 ug/kg dry	<7.6	<7.8	<7.3	<7.2	<8.6	<7.8
1,1-Dichloroethane	25 ug/kg dry	90	100	<4.3	<4.2	21 [3]	140
1,1-Dichloroethene	25 ug/kg dry	90	63	<3.6	<3.6	<4.2	180
1,2-Dichloroethane	25 ug/kg dry	<4.1	<4.2	<4.0	<3.9	<4.7	<4.2
cis-1,2-Dichloroethene	25 ug/kg dry	20 [3]	48	37	<5.9	<7.0	<6.4
m,p-Xylene	50 ug/kg dry	<1.6	<1.7	<1.6	<1.6	<1.9	<1.7
Methylene chloride	100 ug/kg dry	<2.1	<2.2	<2.0	<2.0	<2.4	<2.2
o-Xylene	25 ug/kg dry	<2.9	<3.0	<2.8	<2.8	<3.3	<3.0
Tetrachloroethene	25 ug/kg dry	32000 [1]	13000 [1]	740	<6.4	19 [3]	240
trans-1,2-Dichloroethene	25 ug/kg dry	<3.8	<3.8	<3.6	<3.6	<4.2	<3.9
Trichloroethene	25 ug/kg dry	17 [3]	35	18 [3]	<3.8	<4.6	<4.1
Vinyl chloride	25 ug/kg dry	<13 [4]	<13 [4]	<12 [4]	<12 [4]	<14 [4]	<13 [4]
Xylenes, total	75 ug/kg dry	<69	<70	<66	<65	<78	<71
1,4-Dioxane	100 ug/kg dry	<91	<94	<88	<87	<100	<94
Acetone	250 ug/kg dry	<16	<16	<15	<15	<18	<16
1-Bromo-2-chloroethane	118 [surr]	94%	100%	100%	92%	98%	97%
Toluene-d8	111 [surr]	92%	95%	94%	86%	90%	92%
4-Bromofluorobenzene	113 [surr]	89%	93%	88%	85%	90%	87%
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	88.7	89.0	87.5	87.6	88.6	87.8

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SUMMARY REPORT

Fehr Graham & Associates, LLC		Project:	Sauer-Danfoss - Ames, IA
221 E Mall St, Suite 200		Project Number:	10-500
Freeport, IL 61032		Project Manager:	Jeff Ogden
SAMPLED:	06/25/2013 to 06/27/2013	**REPORTED:**	07/12/2013 15:49
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LAB #		J132605-09	J132605-10	J132605-11	J132605-12	J132605-13	J132605-14
MATRIX	Minimum	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE ID	Reporting Limit	B-22 10'-11'	B-22 14'-15'	B-23 10'-11'	B-24 11'-12'	B-25 12'-13'	B-26 2'-3'
Volatile Organic Compounds by Method 8260 - Direct Inject (Soil)							
1,1,1-Trichloroethane	25 ug/kg dry	4800	2200	<13	<12	<11	<11
1,1,2-Trichloroethane	25 ug/kg dry	<7.0	<7.4	<8.8	<8.1	<7.3	<7.4
1,1-Dichloroethane	25 ug/kg dry	220	2800	<5.2	<4.8	<4.3	<4.3
1,1-Dichloroethene	25 ug/kg dry	1600	150	<4.3	<4.0	<3.6	<3.6
1,2-Dichloroethane	25 ug/kg dry	<3.8	<4.0	<4.7	<4.4	<4.0	<4.0
cis-1,2-Dichloroethene	25 ug/kg dry	<5.8	<6.1	<7.2	<6.6	<6.0	2800
m,p-Xylene	50 ug/kg dry	<1.5	<1.6	<1.9	<1.7	<1.6	<1.6
Methylene chloride	100 ug/kg dry	<2.0	<2.1	<2.4	<2.2	<2.0	<2.0
o-Xylene	25 ug/kg dry	<2.7	<2.9	<3.4	<3.1	<2.8	<2.8
Tetrachloroethene	25 ug/kg dry	1000	3500	<7.8	<7.2	<6.5	85000 [1]
trans-1,2-Dichloroethene	25 ug/kg dry	<3.5	<3.7	<4.3	<4.0	<3.6	<3.6
Trichloroethene	25 ug/kg dry	<3.7	<3.9	<4.6	<4.3	<3.9	1300
Vinyl chloride	25 ug/kg dry	<12 [4]	<13 [4]	<15 [4]	<14 [4]	<12 [4]	<12 [4]
Xylenes, total	75 ug/kg dry	<64	<67	<79	<73	<66	<67
1,4-Dioxane	100 ug/kg dry	<85	<89	<110	<97	<88	<89
Acetone	250 ug/kg dry	<14	<15	<18	<17	<15	<15
1-Bromo-2-chloroethane	118 [surr]	98%	100%	100%	100%	100%	100%
Toluene-d8	111 [surr]	90%	92%	88%	90%	91%	94%
4-Bromofluorobenzene	113 [surr]	87%	92%	91%	96%	91%	99%
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	87.4	89.5	87.9	87.2	88.0	84.9

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SUMMARY REPORT

Fehr Graham & Associates, LLC	Project: Sauer-Danfoss - Ames, IA
221 E Mail St, Suite 200	Project Number: 10-500
Freeport, IL 61032	Project Manager: Jeff Ogden
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RECEIVED: 06/25/2013 to 06/27/2013	

LAB #		J132605-15	J132605-16	J132605-17	J132607-01	J132607-02	J132607-03
MATRIX	Minimum	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE ID	Reporting Limit	B-26 10'-11'	B-26 12'-13'	B-26 15'-16'	B-27 12'-13'	B-28 14'-15'	B-28 14'-15' DUP
Volatile Organic Compounds by Method 8260 - Direct Inject (Soil)							
1,1,1-Trichloroethane	25 ug/kg dry	14000 [1]	26000 [1]	10000 [1]	<12	<11	14000 [1]
1,1,2-Trichloroethane	25 ug/kg dry	<7.8	<7.7	<7.9	<8.2	<7.5	<7.5
1,1-Dichloroethane	25 ug/kg dry	<4.6	<4.6	56	22 [3]	2800 [2]	1500 [2]
1,1-Dichloroethene	25 ug/kg dry	470	650	300	<4.0	2300 [2]	1600 [2]
1,2-Dichloroethane	25 ug/kg dry	<4.2	<4.2	<4.3	<4.4	<4.0	<4.1
cis-1,2-Dichloroethene	25 ug/kg dry	<6.4	<6.3	<6.4	<6.7	<6.1	<6.1
m,p-Xylene	50 ug/kg dry	66	190	100	<1.8	<1.6	<1.6
Methylene chloride	100 ug/kg dry	<2.2	<2.1	<2.2	<2.3	79 [3]	91 [2]
o-Xylene	25 ug/kg dry	19 [3]	51	31	<3.1	<2.9	<2.9
Tetrachloroethene	25 ug/kg dry	280000 [1]	690000 [1]	350000 [1]	1600	58000 [1]	40000 [1]
trans-1,2-Dichloroethene	25 ug/kg dry	<3.8	<3.8	<3.9	<4.0	<3.7	<3.7
Trichloroethene	25 ug/kg dry	<4.1	20 [3]	<4.2	<4.3	35	17 [3]
Vinyl chloride	25 ug/kg dry	<13 [4]	<13	<13	<14	<13	<13
Xylenes, total	75 ug/kg dry	<70	<70	<71	<74	<67	<68
1,4-Dioxane	100 ug/kg dry	<94	<93	<95	<98	<90	<90
Acetone	250 ug/kg dry	<16	<16	<16	<17	<15	<15
1-Bromo-2-chloroethane	118 [surr]	110%	110%	110%	91%	100%	100%
Toluene-d8	111 [surr]	95%	99%	100%	88%	94%	94%
4-Bromofluorobenzene	113 [surr]	90%	92%	96%	85%	93%	91%
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	88.1	90.3	91.2	88.8	89.8	89.0

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SUMMARY REPORT

Fehr Graham & Associates, LLC
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Project: Sauer-Danfoss - Ames, IA
Project Number: 10-500
Project Manager: Jeff Ogden

SAMPLED: 06/25/2013 to 06/27/2013
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LAB #		J132607-04	J132607-05	J132607-06	J132607-07	J132607-08	J132607-09
MATRIX	Minimum	Soil	Soil	Soil	Soil	Soil	Soil
SAMPLE ID	Reporting Limit	B-29 2'-3'	B-29 14'-15'	B-30 10'-11'	B-30 13'-14'	B-30 15'-16'	B-31 14'-15'
Volatile Organic Compounds by Method 8260 - Direct Inject (Soil)							
1,1,1-Trichloroethane	25 ug/kg dry	<11	<11	<11	1700	2500	23000 [1]
1,1,2-Trichloroethane	25 ug/kg dry	<7.8	<7.4	<7.6	<7.8	<7.4	<7.7
1,1-Dichloroethane	25 ug/kg dry	<4.6	<4.4	2500 [2]	550 [2]	41 [2]	370 [2]
1,1-Dichloroethene	25 ug/kg dry	<3.8	<3.7	300 [2]	180 [2]	<3.7	5500 [2]
1,2-Dichloroethane	25 ug/kg dry	<4.2	<4.0	<4.1	<4.2	<4.0	<4.2
cis-1,2-Dichloroethene	25 ug/kg dry	<6.4	<6.1	<6.2	<6.4	24	<6.3
m,p-Xylene	50 ug/kg dry	<1.7	<1.6	<1.6	<1.7	19 [3]	<1.7
Methylene chloride	100 ug/kg dry	<2.2	<2.1	<2.1	<2.2	<2.1	110 [2]
o-Xylene	25 ug/kg dry	<3.0	<2.9	<2.9	<3.0	<2.9	<3.0
Tetrachloroethene	25 ug/kg dry	71	<6.6	5000	23000 [1]	64000 [1]	7600
trans-1,2-Dichloroethene	25 ug/kg dry	<3.8	<3.7	<3.8	<3.9	<3.7	<3.8
Trichloroethene	25 ug/kg dry	<4.1	<3.9	40	11 [3]	21 [3]	22 [3]
Vinyl chloride	25 ug/kg dry	<13	<13	<13	<13	<13	<13
Xylenes, total	75 ug/kg dry	<70	<67	<69	<71	<67	<69
1,4-Dioxane	100 ug/kg dry	<94	<89	<92	<94	<90	<93
Acetone	250 ug/kg dry	<16	<15	<16	<16	<15	<16
1-Bromo-2-chloroethane	118 [surr]	98%	97%	100%	99%	100%	100%
Toluene-d8	111 [surr]	90%	89%	90%	91%	91%	91%
4-Bromofluorobenzene	113 [surr]	88%	87%	92%	88%	91%	91%
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	85.8	88.4	87.3	88.7	89.2	87.9

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SUMMARY REPORT

Fehr Graham & Associates, LLC		Project:	Sauer-Danfoss - Ames, IA
221 E Mail St, Suite 200		Project Number:	10-500
Freeport, IL 61032		Project Manager:	Jeff Ogden
SAMPLED:	06/25/2013 to 06/27/2013	**REPORTED:**	07/12/2013 15:49
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LAB #		J132607-10	J132607-11	J132607-12	-	-	-
MATRIX	Minimum	Soil	Soil	Soil	-	-	-
SAMPLE ID	Reporting Limit	B-32 12'-13'	B-33 10'-11'	B-33 14'-15'	-	-	-
Volatile Organic Compounds by Method 8260 - Direct Inject (Soil)							
1,1,1-Trichloroethane	25 ug/kg dry	93	<11	<10	-	-	-
1,1,2-Trichloroethane	25 ug/kg dry	<7.2	<7.4	<7.3	-	-	-
1,1-Dichloroethane	25 ug/kg dry	<4.3	<4.3	<4.3	-	-	-
1,1-Dichloroethene	25 ug/kg dry	<3.6	<3.6	<3.6	-	-	-
1,2-Dichloroethane	25 ug/kg dry	<3.9	<4.0	<3.9	-	-	-
cis-1,2-Dichloroethene	25 ug/kg dry	<5.9	<6.0	<5.9	-	-	-
m,p-Xylene	50 ug/kg dry	<1.6	<1.6	<1.6	-	-	-
Methylene chloride	100 ug/kg dry	<2.0	<2.0	<2.0	-	-	-
o-Xylene	25 ug/kg dry	<2.8	<2.8	<2.8	-	-	-
Tetrachloroethene	25 ug/kg dry	2000	<6.6	<6.5	-	-	-
trans-1,2-Dichloroethene	25 ug/kg dry	<3.6	<3.6	<3.6	-	-	-
Trichloroethene	25 ug/kg dry	<3.8	<3.9	<3.8	-	-	-
Vinyl chloride	25 ug/kg dry	<12	<12	<12	-	-	-
Xylenes, total	75 ug/kg dry	<65	<66	<66	-	-	-
1,4-Dioxane	100 ug/kg dry	<87	<89	<87	-	-	-
Acetone	250 ug/kg dry	<15	<15	<15	-	-	-
1-Bromo-2-chloroethane	118 [surr]	96%	100%	100%	-	-	-
Toluene-d8	111 [surr]	84%	88%	91%	-	-	-
4-Bromofluorobenzene	113 [surr]	87%	87%	91%	-	-	-
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	87.8	87.4	88.8	-	-	-

Special Notes

1 = Data reported from a dilution
2 = Results may be biased high because of high continuing calibration verification (CCV).
3 = Analyte was detected but is below the reporting limit. The concentration is estimated.
4 = Resuts may be biased low because of low continuing calibration verification (CCV).
5 = Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.

Appendix B

Detailed Report with Quality Control Results

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Fehr Graham & Associates, LLC 221 E Mail St, Suite 200 Freeport IL, 61032	Project: Sauer-Danfoss - Ames, IA Project Number: 10-500 Project Manager: Jeff Ogden	Reported: 07/12/2013

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	J132602-01	Water	06/24/2013	06/24/2013
MW-R6S	J132602-02	Water	06/24/2013	06/24/2013
MW-R13	J132602-03	Water	06/24/2013	06/24/2013
B-5 5'-6'	J132603-01	Soil	06/25/2013	06/25/2013
B-7 6'-7'	J132603-02	Soil	06/25/2013	06/25/2013
B-8 6'-7'	J132603-03	Soil	06/25/2013	06/25/2013
B-9 6'-7'	J132603-04	Soil	06/25/2013	06/25/2013
B-10 6'	J132603-05	Soil	06/25/2013	06/25/2013
B-11 6'-7'	J132603-06	Soil	06/25/2013	06/25/2013
B-12 6'-7'	J132603-07	Soil	06/25/2013	06/25/2013
B-13 6'-7'	J132603-08	Soil	06/25/2013	06/25/2013
B-14 5'-6'	J132603-09	Soil	06/25/2013	06/25/2013
B-14 5'-6' DUP	J132603-10	Soil	06/25/2013	06/25/2013
TMW-1	J132604-01	Water	06/25/2013	06/25/2013
TMW-2	J132604-02	Water	06/25/2013	06/25/2013
TMW-3	J132604-03	Water	06/25/2013	06/25/2013
TMW-4	J132604-04	Water	06/25/2013	06/25/2013
TMW-5	J132604-05	Water	06/25/2013	06/25/2013
TMW-6	J132604-06	Water	06/25/2013	06/25/2013
TMW-7	J132604-07	Water	06/25/2013	06/25/2013
TMW-9	J132604-08	Water	06/25/2013	06/25/2013
TMW-10	J132604-09	Water	06/25/2013	06/25/2013
B-15 6'-7'	J132605-01	Soil	06/26/2013	06/26/2013
B-16 5'-6'	J132605-02	Soil	06/26/2013	06/26/2013
B-16 13'-14'	J132605-03	Soil	06/26/2013	06/26/2013
B-17 12'-13'	J132605-04	Soil	06/26/2013	06/26/2013
B-18 14'-15'	J132605-05	Soil	06/26/2013	06/26/2013
B-19 13'-14'	J132605-06	Soil	06/26/2013	06/26/2013
B-20 12'-13'	J132605-07	Soil	06/26/2013	06/26/2013
B-21 11'-12'	J132605-08	Soil	06/26/2013	06/26/2013
B-22 10'-11'	J132605-09	Soil	06/26/2013	06/26/2013
B-22 14'-15'	J132605-10	Soil	06/26/2013	06/26/2013

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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-23 10'-11'	J132605-11	Soil	06/26/2013	06/26/2013
B-24 11'-12'	J132605-12	Soil	06/26/2013	06/26/2013
B-25 12'-13'	J132605-13	Soil	06/26/2013	06/26/2013
B-26 2'-3'	J132605-14	Soil	06/26/2013	06/26/2013
B-26 10'-11'	J132605-15	Soil	06/26/2013	06/26/2013
B-26 12'-13'	J132605-16	Soil	06/26/2013	06/26/2013
B-26 15'-16'	J132605-17	Soil	06/26/2013	06/26/2013
TMW-8	J132606-01	Water	06/26/2013	06/26/2013
TMW-12	J132606-02	Water	06/26/2013	06/26/2013
TMW-14	J132606-03	Water	06/26/2013	06/26/2013
TMW-15	J132606-04	Water	06/26/2013	06/26/2013
TMW-13	J132606-05	Water	06/26/2013	06/26/2013
TMW-18	J132606-06	Water	06/26/2013	06/26/2013
TMW-22	J132606-07	Water	06/26/2013	06/26/2013
B-27 12'-13'	J132607-01	Soil	06/27/2013	06/27/2013
B-28 14'-15'	J132607-02	Soil	06/27/2013	06/27/2013
B-28 14'-15' DUP	J132607-03	Soil	06/27/2013	06/27/2013
B-29 2'-3'	J132607-04	Soil	06/27/2013	06/27/2013
B-29 14'-15'	J132607-05	Soil	06/27/2013	06/27/2013
B-30 10'-11'	J132607-06	Soil	06/27/2013	06/27/2013
B-30 13'-14'	J132607-07	Soil	06/27/2013	06/27/2013
B-30 15'-16'	J132607-08	Soil	06/27/2013	06/27/2013
B-31 14'-15'	J132607-09	Soil	06/27/2013	06/27/2013
B-32 12'-13'	J132607-10	Soil	06/27/2013	06/27/2013
B-33 10'-11'	J132607-11	Soil	06/27/2013	06/27/2013
B-33 14'-15'	J132607-12	Soil	06/27/2013	06/27/2013
TMW-21	J132608-01	Water	06/27/2013	06/27/2013
TMW-20	J132608-02	Water	06/27/2013	06/27/2013
TMW-19	J132608-03	Water	06/27/2013	06/27/2013
TMW-17	J132608-04	Water	06/27/2013	06/27/2013
TMW-16	J132608-05	Water	06/27/2013	06/27/2013
TMW-27	J132608-06	Water	06/27/2013	06/27/2013

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221 E Mail St, Suite 200	Project Number: 10-500	Reported:
Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TMW-28	J132608-07	Water	06/27/2013	06/27/2013
TMW-26	J132608-08	Water	06/27/2013	06/27/2013
TMW-23	J132608-09	Water	06/27/2013	06/27/2013
TMW-24	J132608-10	Water	06/27/2013	06/27/2013
TMW-11	J132608-11	Water	06/27/2013	06/27/2013

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Felix Graham & Associates, LLC 221 E Mail St, Suite 200 Freeport IL, 61032	Project: Sauer-Danfoss - Ames, IA Project Number: 10-500 Project Manager: Jeff Ogden	Reported: 07/12/2013

MW-5

J132602-01 (Water)

Date Sampled
06/24/2013 15:10

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: J306002**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	ND	3.4	20	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
1,1-Dichloroethane	**17**	0.12	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
cis-1,2-Dichloroethene	**7.4**	0.11	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
1,1-Dichloroethene	**5.7**	0.14	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
Tetrachloroethene	**0.45**	0.081	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	J
1,1,1-Trichloroethane	**1.1**	0.10	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
Trichloroethene	**1.0**	0.062	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
Vinyl chloride	**0.43**	0.16	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	J
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/24/2013	06/25/2013 05:51	EPA 8260B	
Surrogate: Dibromofluoromethane			*105 %*	*82.2-117*		*06/24/2013*	*06/25/2013 05:51*	*EPA 8260B*	
Surrogate: Toluene-d8			*99.8 %*	*82.6-111*		*06/24/2013*	*06/25/2013 05:51*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*101 %*	*88.4-108*		*06/24/2013*	*06/25/2013 05:51*	*EPA 8260B*	

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Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

MW-R6S

J132602-02 (Water)

Date Sampled
06/24/2013 15:43

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: J306002**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	ND	3.4	20	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
1,1-Dichloroethane	4.4	0.12	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
trans-1,2-Dichloroethene	0.22	0.11	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	J
cis-1,2-Dichloroethene	3.7	0.11	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
1,1-Dichloroethene	0.56	0.14	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
Tetrachloroethene	34	0.081	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
1,1,1-Trichloroethane	0.26	0.10	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	J
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
Trichloroethene	3.2	0.062	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
Vinyl chloride	7.6	0.16	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/24/2013	06/25/2013 06:13	EPA 8260B	
Surrogate: Dibromofluoromethane			*106 %*	*82.2-117*		*06/24/2013*	*06/25/2013 06:13*	*EPA 8260B*	
Surrogate: Toluene-d8			*101 %*	*82.6-111*		*06/24/2013*	*06/25/2013 06:13*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*99.9 %*	*88.4-108*		*06/24/2013*	*06/25/2013 06:13*	*EPA 8260B*	

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Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

MW-R13

J132602-03 (Water)

Date Sampled
06/24/2013 16:29

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306002**			
Acetone	140	34	200	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	J, D
1,1-Dichloroethane	1500	12	50	ug/L	100	06/24/2013	06/25/2013 15:13	EPA 8260B	D
1,2-Dichloroethane	4.9	0.78	5.0	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	J, D
trans-1,2-Dichloroethene	ND	1.1	5.0	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	
cis-1,2-Dichloroethene	11	1.1	5.0	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	D
1,1-Dichloroethene	84	1.4	5.0	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	D
Methylene chloride	16	1.4	20	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	J, D
Tetrachloroethene	3800	8.1	50	ug/L	100	06/24/2013	06/25/2013 15:13	EPA 8260B	D
1,1,1-Trichloroethane	2200	10	50	ug/L	100	06/24/2013	06/25/2013 15:13	EPA 8260B	D
1,1,2-Trichloroethane	260	1.0	5.0	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	D
Trichloroethene	4.2	0.62	5.0	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	J, D
Vinyl chloride	6.1	1.6	5.0	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	D
m,p-Xylene	ND	0.57	10	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	
o-Xylene	ND	0.58	5.0	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	
Xylenes, total	ND	10	15	ug/L	10	06/24/2013	06/25/2013 14:47	EPA 8260B	
Surrogate: Dibromofluoromethane			*104 %*	*82.2-117*		*06/24/2013*	*06/25/2013 14:47*	*EPA 8260B*	
Surrogate: Toluene-d8			*101 %*	*82.6-111*		*06/24/2013*	*06/25/2013 14:47*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*102 %*	*88.4-108*		*06/24/2013*	*06/25/2013 14:47*	*EPA 8260B*	

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B-5 5'-6'

J132603-01 (Soil)

Date Sampled
06/25/2013 08:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306003**			
1,1,1-Trichloroethane	ND	12	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
1,1,2-Trichloroethane	ND	8.0	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
1,1-Dichloroethane	ND	4.7	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
1,1-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
1,2-Dichloroethane	ND	4.3	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
cis-1,2-Dichloroethene	ND	6.5	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
m,p-Xylene	ND	1.7	48	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
Methylene chloride	ND	2.2	96	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
o-Xylene	ND	3.1	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
Tetrachloroethene	ND	7.1	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
trans-1,2-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
Trichloroethene	ND	4.2	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
Vinyl chloride	ND	13	24	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
Xylenes, total	ND	72	72	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
1,4-Dioxane	ND	96	96	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
Acetone	ND	16	240	ug/kg dry	1	06/25/2013	06/25/2013 11:45		
Surrogate: 1-Bromo-2-chloroethane			*96.1 %*	*75-118*		*06/25/2013*	*06/25/2013 11:45*		
Surrogate: Toluene-d8			*90.6 %*	*71.3-111*		*06/25/2013*	*06/25/2013 11:45*		
Surrogate: 4-Bromofluorobenzene			*88.5 %*	*69.2-113*		*06/25/2013*	*06/25/2013 11:45*		
Classical Chemistry Parameters						**Preparation Batch: J306005**			
% Solids	85.1		0.00	% by Weight	1	06/25/2013	06/26/2013 10:53	SM 2540B	

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B-7 6'-7'

J132603-02 (Soil)

Date Sampled
06/25/2013 10:37

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306003**			
1,1,1-Trichloroethane	ND	11	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
1,1,2-Trichloroethane	ND	7.8	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
1,1-Dichloroethane	ND	4.6	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
1,1-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
1,2-Dichloroethane	ND	4.2	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
cis-1,2-Dichloroethene	ND	6.4	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
m,p-Xylene	ND	1.7	47	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
Methylene chloride	ND	2.2	94	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
o-Xylene	ND	3.0	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
Tetrachloroethene	ND	7.0	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
trans-1,2-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
Trichloroethene	ND	4.2	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
Vinyl chloride	ND	13	24	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
Xylenes, total	ND	71	71	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
1,4-Dioxane	ND	94	94	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
Acetone	ND	16	240	ug/kg dry	1	06/25/2013	06/25/2013 12:10		
Surrogate: 1-Bromo-2-chloroethane			*93.4 %*	*75-118*		*06/25/2013*	*06/25/2013 12:10*		
Surrogate: Toluene-d8			*91.7 %*	*71.3-111*		*06/25/2013*	*06/25/2013 12:10*		
Surrogate: 4-Bromofluorobenzene			*87.6 %*	*69.2-113*		*06/25/2013*	*06/25/2013 12:10*		
Classical Chemistry Parameters						**Preparation Batch: J306005**			
% Solids	81.9		0.00	% by Weight	1	06/25/2013	06/26/2013 10:53	SM 2540B	

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221 E Mail St, Suite 200	Project Number: 10-500	Reported:
Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

B-8 6'-7'

J132603-03 (Soil)

Date Sampled
06/25/2013 11:34

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306003**			
1,1,1-Trichloroethane	ND	11	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
1,1,2-Trichloroethane	ND	7.8	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
1,1-Dichloroethane	ND	4.6	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
1,1-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
1,2-Dichloroethane	ND	4.2	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
cis-1,2-Dichloroethene	ND	6.4	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
m,p-Xylene	ND	1.7	47	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
Methylene chloride	ND	2.2	94	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
o-Xylene	ND	3.0	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
Tetrachloroethene	ND	7.0	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
trans-1,2-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
Trichloroethene	ND	4.1	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
Vinyl chloride	ND	13	24	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
Xylenes, total	ND	71	71	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
1,4-Dioxane	ND	94	94	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
Acetone	ND	16	240	ug/kg dry	1	06/25/2013	06/25/2013 13:26		
Surrogate: 1-Bromo-2-chloroethane			*95.4 %*	*75-118*		*06/25/2013*	*06/25/2013 13:26*		
Surrogate: Toluene-d8			*88.2 %*	*71.3-111*		*06/25/2013*	*06/25/2013 13:26*		
Surrogate: 4-Bromofluorobenzene			*88.7 %*	*69.2-113*		*06/25/2013*	*06/25/2013 13:26*		
Classical Chemistry Parameters						**Preparation Batch: J306005**			
% Solids	83.5		0.00	% by Weight	1	06/25/2013	06/26/2013 10:53	SM 2540B	

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B-9 6'-7'

J132603-04 (Soil)

Date Sampled
06/25/2013 12:04

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306003**			
1,1,1-Trichloroethane	ND	11	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
1,1,2-Trichloroethane	ND	7.9	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
1,1-Dichloroethane	ND	4.7	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
1,1-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
1,2-Dichloroethane	ND	4.3	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
cis-1,2-Dichloroethene	ND	6.5	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
m,p-Xylene	ND	1.7	48	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
Methylene chloride	ND	2.2	96	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
o-Xylene	ND	3.1	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
Tetrachloroethene	ND	7.1	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
trans-1,2-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
Trichloroethene	ND	4.2	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
Vinyl chloride	ND	13	24	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
Xylenes, total	ND	72	72	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
1,4-Dioxane	ND	96	96	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
Acetone	ND	16	240	ug/kg dry	1	06/25/2013	06/25/2013 13:51		
Surrogate: 1-Bromo-2-chloroethane			*95.8 %*	*75-118*		*06/25/2013*	*06/25/2013 13:51*		
Surrogate: Toluene-d8			*89.3 %*	*71.3-111*		*06/25/2013*	*06/25/2013 13:51*		
Surrogate: 4-Bromofluorobenzene			*89.8 %*	*69.2-113*		*06/25/2013*	*06/25/2013 13:51*		
Classical Chemistry Parameters						**Preparation Batch: J306005**			
% Solids	83.2		0.00	% by Weight	1	06/25/2013	06/26/2013 10:53	SM 2540B	

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B-10 6'

J132603-05 (Soil)

Date Sampled
06/25/2013 13:52

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306003**			
1,1,1-Trichloroethane	ND	11	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
1,1,2-Trichloroethane	ND	7.9	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
1,1-Dichloroethane	ND	4.7	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
1,1-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
1,2-Dichloroethane	ND	4.3	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
cis-1,2-Dichloroethene	ND	6.5	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
m,p-Xylene	ND	1.7	48	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
Methylene chloride	ND	2.2	95	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
o-Xylene	ND	3.0	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
Tetrachloroethene	ND	7.0	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
trans-1,2-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
Trichloroethene	ND	4.2	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
Vinyl chloride	ND	13	24	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
Xylenes, total	ND	71	71	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
1,4-Dioxane	ND	95	95	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
Acetone	ND	16	240	ug/kg dry	1	06/25/2013	06/25/2013 15:38		
Surrogate: 1-Bromo-2-chloroethane			*95.0 %*	*75-118*		*06/25/2013*	*06/25/2013 15:38*		
Surrogate: Toluene-d8			*90.7 %*	*71.3-111*		*06/25/2013*	*06/25/2013 15:38*		
Surrogate: 4-Bromofluorobenzene			*92.3 %*	*69.2-113*		*06/25/2013*	*06/25/2013 15:38*		
Classical Chemistry Parameters						**Preparation Batch: J306005**			
% Solids	84.3		0.00	% by Weight	1	06/25/2013	06/26/2013 10:53	SM 2540B	

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Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

B-11 6'-7'

J132603-06 (Soil)

Date Sampled: 06/25/2013 14:33

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306003**			
1,1,1-Trichloroethane	ND	12	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
1,1,2-Trichloroethane	ND	8.1	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
1,1-Dichloroethane	ND	4.8	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
1,1-Dichloroethene	ND	4.0	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
1,2-Dichloroethane	ND	4.4	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
cis-1,2-Dichloroethene	ND	6.7	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
m,p-Xylene	ND	1.8	49	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
Methylene chloride	ND	2.3	98	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
o-Xylene	ND	3.1	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
Tetrachloroethene	ND	7.3	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
trans-1,2-Dichloroethene	ND	4.0	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
Trichloroethene	ND	4.3	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
Vinyl chloride	ND	14	25	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
Xylenes, total	ND	74	74	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
1,4-Dioxane	ND	98	98	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
Acetone	ND	17	250	ug/kg dry	1	06/25/2013	06/25/2013 16:03		
Surrogate: 1-Bromo-2-chloroethane			*93.5 %*	*75-118*		*06/25/2013*	*06/25/2013 16:03*		
Surrogate: Toluene-d8			*90.2 %*	*71.3-111*		*06/25/2013*	*06/25/2013 16:03*		
Surrogate: 4-Bromofluorobenzene			*91.2 %*	*69.2-113*		*06/25/2013*	*06/25/2013 16:03*		
Classical Chemistry Parameters						**Preparation Batch: J306005**			
% Solids	84.0		0.00	% by Weight	1	06/25/2013	06/26/2013 10:53	SM 2540B	

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B-12 6'-7'
J132603-07 (Soil)

Date Sampled
06/25/2013 15:21

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306003**			
1,1,1-Trichloroethane	ND	11	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
1,1,2-Trichloroethane	ND	7.3	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
1,1-Dichloroethane	ND	4.3	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
1,1-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
1,2-Dichloroethane	ND	4.0	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
cis-1,2-Dichloroethene	ND	6.0	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
m,p-Xylene	ND	1.6	44	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
Methylene chloride	ND	2.0	88	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
o-Xylene	ND	2.8	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
Tetrachloroethene	ND	6.5	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
trans-1,2-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
Trichloroethene	ND	3.9	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
Vinyl chloride	ND	12	22	ug/kg dry	1	06/25/2013	06/25/2013 17:44		LC
Xylenes, total	ND	66	66	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
1,4-Dioxane	ND	88	88	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
Acetone	ND	15	220	ug/kg dry	1	06/25/2013	06/25/2013 17:44		
Surrogate: 1-Bromo-2-chloroethane			*93.5 %*	*75-118*		*06/25/2013*	*06/25/2013 17:44*		
Surrogate: Toluene-d8			*86.8 %*	*71.3-111*		*06/25/2013*	*06/25/2013 17:44*		
Surrogate: 4-Bromofluorobenzene			*88.6 %*	*69.2-113*		*06/25/2013*	*06/25/2013 17:44*		
Classical Chemistry Parameters						**Preparation Batch: J306005**			
% Solids	81.6		0.00	% by Weight	1	06/25/2013	06/26/2013 10:53	SM 2540B	

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B-13 6'-7'

J132603-08 (Soil)

Date Sampled
06/25/2013 16:07

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306003**			
1,1,1-Trichloroethane	ND	11	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
1,1,2-Trichloroethane	ND	7.8	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
1,1-Dichloroethane	ND	4.6	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
1,1-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
1,2-Dichloroethane	ND	4.2	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
cis-1,2-Dichloroethene	ND	6.4	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
m,p-Xylene	ND	1.7	47	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
Methylene chloride	ND	2.2	94	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
o-Xylene	ND	3.0	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
Tetrachloroethene	ND	7.0	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
trans-1,2-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
Trichloroethene	ND	4.1	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
Vinyl chloride	ND	13	24	ug/kg dry	1	06/25/2013	06/25/2013 18:09		LC
Xylenes, total	ND	71	71	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
1,4-Dioxane	ND	94	94	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
Acetone	ND	16	240	ug/kg dry	1	06/25/2013	06/25/2013 18:09		
Surrogate: 1-Bromo-2-chloroethane			*95.9 %*	*75-118*		*06/25/2013*	*06/25/2013 18:09*		
Surrogate: Toluene-d8			*89.8 %*	*71.3-111*		*06/25/2013*	*06/25/2013 18:09*		
Surrogate: 4-Bromofluorobenzene			*453 %*	*69.2-113*		*06/25/2013*	*06/25/2013 18:09*		*S*
Classical Chemistry Parameters						**Preparation Batch: J306005**			
% Solids	85.0		0.00	% by Weight	1	06/25/2013	06/26/2013 10:53	SM 2540B	

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B-14 5'-6'

J132603-09 (Soil)

Date Sampled
06/25/2013 16:51

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306003**			
1,1,1-Trichloroethane	ND	10	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
1,1,2-Trichloroethane	ND	7.1	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
1,1-Dichloroethane	ND	4.2	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
1,1-Dichloroethene	ND	3.5	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
1,2-Dichloroethane	ND	3.9	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
cis-1,2-Dichloroethene	ND	5.8	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
m,p-Xylene	ND	1.5	43	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
Methylene chloride	ND	2.0	86	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
o-Xylene	ND	2.7	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
Tetrachloroethene	ND	6.4	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
trans-1,2-Dichloroethene	ND	3.5	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
Trichloroethene	ND	3.8	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
Vinyl chloride	ND	12	21	ug/kg dry	1	06/25/2013	06/25/2013 18:34		LC
Xylenes, total	ND	64	64	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
1,4-Dioxane	ND	86	86	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
Acetone	ND	15	210	ug/kg dry	1	06/25/2013	06/25/2013 18:34		
Surrogate: 1-Bromo-2-chloroethane			*90.3 %*	*75-118*		*06/25/2013*	*06/25/2013 18:34*		
Surrogate: Toluene-d8			*88.9 %*	*71.3-111*		*06/25/2013*	*06/25/2013 18:34*		
Surrogate: 4-Bromofluorobenzene			*1150 %*	*69.2-113*		*06/25/2013*	*06/25/2013 18:34*		S
Classical Chemistry Parameters						**Preparation Batch: J306005**			
% Solids	86.4		0.00	% by Weight	1	06/25/2013	06/26/2013 10:53	SM 2540B	

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B-14 5'-6" DUP

J132603-10 (Soil)

Date Sampled
06/25/2013 16:51

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306003**			
1,1,1-Trichloroethane	ND	10	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
1,1,2-Trichloroethane	ND	7.3	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
1,1-Dichloroethane	ND	4.3	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
1,1-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
1,2-Dichloroethane	ND	3.9	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
cis-1,2-Dichloroethene	ND	5.9	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
m,p-Xylene	ND	1.6	44	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
Methylene chloride	ND	2.0	87	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
o-Xylene	ND	2.8	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
Tetrachloroethene	ND	6.5	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
trans-1,2-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
Trichloroethene	ND	3.8	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
Vinyl chloride	ND	12	22	ug/kg dry	1	06/25/2013	06/25/2013 18:59		LC
Xylenes, total	ND	66	66	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
1,4-Dioxane	ND	87	87	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
Acetone	ND	15	220	ug/kg dry	1	06/25/2013	06/25/2013 18:59		
Surrogate: 1-Bromo-2-chloroethane			*91.0 %*	*75-118*		*06/25/2013*	*06/25/2013 18:59*		
Surrogate: Toluene-d8			*93.5 %*	*71.3-111*		*06/25/2013*	*06/25/2013 18:59*		
Surrogate: 4-Bromofluorobenzene			*941 %*	*69.2-113*		*06/25/2013*	*06/25/2013 18:59*		*S*
Classical Chemistry Parameters						**Preparation Batch: J306005**			
% Solids	85.4		0.00	% by Weight	1	06/25/2013	06/26/2013 10:53	SM 2540B	

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TMW-1

J132604-01 (Water)

Date Sampled
06/25/2013 09:15

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: J306004**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	ND	3.4	20	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
1,1-Dichloroethane	**2.4**	0.12	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
cis-1,2-Dichloroethene	**1.3**	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
Tetrachloroethene	**0.39**	0.081	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	J
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
Trichloroethene	**0.31**	0.062	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	J
Vinyl chloride	**0.25**	0.16	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	J
m,p-Xylene	**0.11**	0.057	1.0	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	J
o-Xylene	ND	0.058	0.50	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/25/2013	06/25/2013 11:36	EPA 8260B	
Surrogate: Dibromofluoromethane			*97.0 %*	*82.2-117*		*06/25/2013*	*06/25/2013 11:36*	*EPA 8260B*	
Surrogate: Toluene-d8			*98.8 %*	*82.6-111*		*06/25/2013*	*06/25/2013 11:36*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*101 %*	*88.4-108*		*06/25/2013*	*06/25/2013 11:36*	*EPA 8260B*	

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TMW-2

J132604-02 (Water)

Date Sampled
06/25/2013 10:34

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306004**			
Acetone	ND	3.4	20	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
1,1-Dichloroethane	**3.2**	0.12	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
cis-1,2-Dichloroethene	**2.4**	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
1,1-Dichloroethene	**0.53**	0.14	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
Tetrachloroethene	**0.53**	0.081	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
1,1,1-Trichloroethane	**0.58**	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
Trichloroethene	**0.21**	0.062	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	J
Vinyl chloride	ND	0.16	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
m,p-Xylene	**0.11**	0.057	1.0	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	J
o-Xylene	ND	0.058	0.50	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/25/2013	06/25/2013 11:59	EPA 8260B	
Surrogate: Dibromofluoromethane			*101 %*	*82.2-117*		*06/25/2013*	*06/25/2013 11:59*	*EPA 8260B*	
Surrogate: Toluene-d8			*101 %*	*82.6-111*		*06/25/2013*	*06/25/2013 11:59*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*99.4 %*	*88.4-108*		*06/25/2013*	*06/25/2013 11:59*	*EPA 8260B*	

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TMW-3

J132604-03 (Water)

Date Sampled
06/25/2013 11:30

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306004**			
Acetone	ND	3.4	20	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	
1,1-Dichloroethane	**68**	1.2	5.0	ug/L	10	06/25/2013	06/25/2013 18:24	EPA 8260B	D
1,2-Dichloroethane	**0.50**	0.078	0.50	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	
cis-1,2-Dichloroethene	**1.2**	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	
1,1-Dichloroethene	**88**	1.4	5.0	ug/L	10	06/25/2013	06/25/2013 18:24	EPA 8260B	D
Methylene chloride	ND	0.14	2.0	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	
Tetrachloroethene	ND	0.081	0.50	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	
1,1,1-Trichloroethane	**63**	1.0	5.0	ug/L	10	06/25/2013	06/25/2013 18:24	EPA 8260B	D
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	
Trichloroethene	**0.33**	0.062	0.50	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	J
Vinyl chloride	**0.43**	0.16	0.50	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	J
m,p-Xylene	**0.15**	0.057	1.0	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	J
o-Xylene	ND	0.058	0.50	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/25/2013	06/25/2013 12:24	EPA 8260B	
Surrogate: Dibromofluoromethane			*103 %*	*82.2-117*		*06/25/2013*	*06/25/2013 12:24*	*EPA 8260B*	
Surrogate: Toluene-d8			*100 %*	*82.6-111*		*06/25/2013*	*06/25/2013 12:24*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*101 %*	*88.4-108*		*06/25/2013*	*06/25/2013 12:24*	*EPA 8260B*	

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TMW-4

J132604-04 (Water)

Date Sampled
06/25/2013 12:10

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — Preparation Batch: J306004

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	4.1	3.4	20	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	J
1,1-Dichloroethane	4.8	0.12	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
cis-1,2-Dichloroethene	2.5	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
1,1-Dichloroethene	0.46	0.14	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	J
Methylene chloride	ND	0.14	2.0	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
Tetrachloroethene	ND	0.081	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
Trichloroethene	0.14	0.062	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	J
Vinyl chloride	ND	0.16	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
m,p-Xylene	0.13	0.057	1.0	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	J
o-Xylene	ND	0.058	0.50	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/25/2013	06/25/2013 13:02	EPA 8260B	
Surrogate: Dibromofluoromethane			*102 %*	*82.2-117*		*06/25/2013*	*06/25/2013 13:02*	*EPA 8260B*	
Surrogate: Toluene-d8			*101 %*	*82.6-111*		*06/25/2013*	*06/25/2013 13:02*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*100 %*	*88.4-108*		*06/25/2013*	*06/25/2013 13:02*	*EPA 8260B*	

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Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

TMW-5

J132604-05 (Water)

Date Sampled
06/25/2013 12:45

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306004**			
Acetone	11	3.4	20	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	J
1,1-Dichloroethane	5.1	0.12	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	
cis-1,2-Dichloroethene	0.46	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	J
1,1-Dichloroethene	0.40	0.14	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	J
Methylene chloride	ND	0.14	2.0	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	
Tetrachloroethene	0.14	0.081	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	J
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	
Trichloroethene	0.19	0.062	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	J
Vinyl chloride	ND	0.16	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	
m,p-Xylene	0.19	0.057	1.0	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	J
o-Xylene	0.13	0.058	0.50	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	J
Xylenes, total	ND	1.0	1.5	ug/L	1	06/25/2013	06/25/2013 13:31	EPA 8260B	
Surrogate: Dibromofluoromethane			*102 %*	*82.2-117*		*06/25/2013*	*06/25/2013 13:31*	*EPA 8260B*	
Surrogate: Toluene-d8			*102 %*	*82.6-111*		*06/25/2013*	*06/25/2013 13:31*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*100 %*	*88.4-108*		*06/25/2013*	*06/25/2013 13:31*	*EPA 8260B*	

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TMW-6

J132604-06 (Water)

Date Sampled
06/25/2013 14:42

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306004**			
Acetone	ND	3.4	20	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
1,1-Dichloroethane	**0.87**	0.12	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
cis-1,2-Dichloroethene	**0.72**	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
Tetrachloroethene	**1.7**	0.081	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
1,1,1-Trichloroethane	**0.37**	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	J
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
Trichloroethene	**1.1**	0.062	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/25/2013	06/25/2013 15:37	EPA 8260B	
Surrogate: Dibromofluoromethane			*103 %*	*82.2-117*		*06/25/2013*	*06/25/2013 15:37*	*EPA 8260B*	
Surrogate: Toluene-d8			*102 %*	*82.6-111*		*06/25/2013*	*06/25/2013 15:37*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*104 %*	*88.4-108*		*06/25/2013*	*06/25/2013 15:37*	*EPA 8260B*	

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Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

TMW-7

J132604-07 (Water)

Date Sampled
06/25/2013 15:54

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: J306004**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	ND	3.4	20	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
1,1-Dichloroethane	**11**	0.12	0.50	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
trans-1,2-Dichloroethene	**1.6**	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
cis-1,2-Dichloroethene	**37**	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
1,1-Dichloroethene	**3.4**	0.14	0.50	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
Tetrachloroethene	**150**	0.81	5.0	ug/L	10	06/25/2013	06/25/2013 19:18	EPA 8260B	D
1,1,1-Trichloroethane	**13**	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
Trichloroethene	**15**	0.062	0.50	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
Vinyl chloride	**0.73**	0.16	0.50	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/25/2013	06/25/2013 16:08	EPA 8260B	
Surrogate: Dibromofluoromethane			*100 %*	*82.2-117*		*06/25/2013*	*06/25/2013 16:08*	*EPA 8260B*	
Surrogate: Toluene-d8			*102 %*	*82.6-111*		*06/25/2013*	*06/25/2013 16:08*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*102 %*	*88.4-108*		*06/25/2013*	*06/25/2013 16:08*	*EPA 8260B*	

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TMW-9

J132604-08 (Water)

Date Sampled
06/25/2013 17:01

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306004**			
Acetone	5.0	3.4	20	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	J
1,1-Dichloroethane	140	1.2	5.0	ug/L	10	06/25/2013	06/25/2013 18:49	EPA 8260B	D
1,2-Dichloroethane	0.19	0.078	0.50	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	J
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
cis-1,2-Dichloroethene	3.1	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
1,1-Dichloroethene	25	0.14	0.50	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
Tetrachloroethene	0.75	0.081	0.50	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
1,1,1-Trichloroethane	4.1	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
Trichloroethene	54	0.62	5.0	ug/L	10	06/25/2013	06/25/2013 18:49	EPA 8260B	D
Vinyl chloride	0.55	0.16	0.50	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/25/2013	06/25/2013 17:27	EPA 8260B	
Surrogate: Dibromofluoromethane			*101 %*	*82.2-117*		*06/25/2013*	*06/25/2013 17:27*	*EPA 8260B*	
Surrogate: Toluene-d8			*98.1 %*	*82.6-111*		*06/25/2013*	*06/25/2013 17:27*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*100 %*	*88.4-108*		*06/25/2013*	*06/25/2013 17:27*	*EPA 8260B*	

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TMW-10

J132604-09 (Water)

Date Sampled
06/25/2013 17:18

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: J306004**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	ND	3.4	20	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
1,1-Dichloroethane	**66**	1.2	5.0	ug/L	10	06/25/2013	06/25/2013 19:42	EPA 8260B	D
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
1,1-Dichloroethene	**71**	1.4	5.0	ug/L	10	06/25/2013	06/25/2013 19:42	EPA 8260B	D
Methylene chloride	ND	0.14	2.0	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
Tetrachloroethene	**19**	0.081	0.50	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
1,1,1-Trichloroethane	**79**	1.0	5.0	ug/L	10	06/25/2013	06/25/2013 19:42	EPA 8260B	D
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
Trichloroethene	**7.5**	0.062	0.50	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
Vinyl chloride	**0.31**	0.16	0.50	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	J
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/25/2013	06/25/2013 17:52	EPA 8260B	
Surrogate: Dibromofluoromethane			*102 %*	*82.2-117*		*06/25/2013*	*06/25/2013 17:52*	*EPA 8260B*	
Surrogate: Toluene-d8			*100 %*	*82.6-111*		*06/25/2013*	*06/25/2013 17:52*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*103 %*	*88.4-108*		*06/25/2013*	*06/25/2013 17:52*	*EPA 8260B*	

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B-15 6'-7'

J132605-01 (Soil)

Date Sampled
06/26/2013 07:26

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	ND	11	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
1,1,2-Trichloroethane	ND	7.5	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
1,1-Dichloroethane	ND	4.4	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
1,1-Dichloroethene	ND	3.7	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
1,2-Dichloroethane	ND	4.1	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
cis-1,2-Dichloroethene	ND	6.2	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
m,p-Xylene	ND	1.6	45	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
Methylene chloride	ND	2.1	91	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
o-Xylene	ND	2.9	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
Tetrachloroethene	ND	6.7	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
trans-1,2-Dichloroethene	ND	3.7	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
Trichloroethene	ND	4.0	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
Vinyl chloride	ND	13	23	ug/kg dry	1	06/26/2013	06/26/2013 11:28		LC
Xylenes, total	ND	68	68	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
1,4-Dioxane	ND	91	91	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
Acetone	ND	15	230	ug/kg dry	1	06/26/2013	06/26/2013 11:28		
Surrogate: 1-Bromo-2-chloroethane			*89.2 %*	*75-118*		*06/26/2013*	*06/26/2013 11:28*		
Surrogate: Toluene-d8			*90.0 %*	*71.3-111*		*06/26/2013*	*06/26/2013 11:28*		
Surrogate: 4-Bromofluorobenzene			*84.2 %*	*69.2-113*		*06/26/2013*	*06/26/2013 11:28*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	79.8		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-16 5'-6'
J132605-02 (Soil)

Date Sampled
06/26/2013 08:05

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	ND	11	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
1,1,2-Trichloroethane	ND	7.9	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
1,1-Dichloroethane	ND	4.6	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
1,1-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
1,2-Dichloroethane	ND	4.3	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
cis-1,2-Dichloroethene	11	6.5	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		J
m,p-Xylene	ND	1.7	47	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
Methylene chloride	ND	2.2	95	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
o-Xylene	ND	3.0	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
Tetrachloroethene	ND	7.0	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
trans-1,2-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
Trichloroethene	ND	4.2	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
Vinyl chloride	ND	13	24	ug/kg dry	1	06/26/2013	06/26/2013 11:52		LC
Xylenes, total	ND	71	71	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
1,4-Dioxane	ND	95	95	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
Acetone	ND	16	240	ug/kg dry	1	06/26/2013	06/26/2013 11:52		
Surrogate: 1-Bromo-2-chloroethane			*92.2 %*	*75-118*		*06/26/2013*	*06/26/2013 11:52*		
Surrogate: Toluene-d8			*88.1 %*	*71.3-111*		*06/26/2013*	*06/26/2013 11:52*		
Surrogate: 4-Bromofluorobenzene			*85.4 %*	*69.2-113*		*06/26/2013*	*06/26/2013 11:52*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	84.4		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-16 13'-14'

J132605-03 (Soil)

Date Sampled
06/26/2013 08:16

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	710	11	23	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
1,1,2-Trichloroethane	ND	7.6	23	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
1,1-Dichloroethane	90	4.5	23	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
1,1-Dichloroethene	90	3.8	23	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
1,2-Dichloroethane	ND	4.1	23	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
cis-1,2-Dichloroethene	20	6.2	23	ug/kg dry	1	06/26/2013	06/26/2013 12:17		J
m,p-Xylene	ND	1.6	46	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
Methylene chloride	ND	2.1	91	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
o-Xylene	ND	2.9	23	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
Tetrachloroethene	32000	68	230	ug/kg dry	10	06/26/2013	06/26/2013 16:55		D
trans-1,2-Dichloroethene	ND	3.8	23	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
Trichloroethene	17	4.0	23	ug/kg dry	1	06/26/2013	06/26/2013 12:17		J
Vinyl chloride	ND	13	23	ug/kg dry	1	06/26/2013	06/26/2013 12:17		LC
Xylenes, total	ND	69	69	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
1,4-Dioxane	ND	91	91	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
Acetone	ND	16	230	ug/kg dry	1	06/26/2013	06/26/2013 12:17		
Surrogate: 1-Bromo-2-chloroethane			*93.9 %*	*75-118*		*06/26/2013*	*06/26/2013 12:17*		
Surrogate: Toluene-d8			*92.1 %*	*71.3-111*		*06/26/2013*	*06/26/2013 12:17*		
Surrogate: 4-Bromofluorobenzene			*89.4 %*	*69.2-113*		*06/26/2013*	*06/26/2013 12:17*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	88.7		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-17 12'-13'

J132605-04 (Soil)

Date Sampled
06/26/2013 08:56

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	66	11	23	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
1,1,2-Trichloroethane	ND	7.8	23	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
1,1-Dichloroethane	100	4.6	23	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
1,1-Dichloroethene	63	3.8	23	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
1,2-Dichloroethane	ND	4.2	23	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
cis-1,2-Dichloroethene	48	6.4	23	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
m,p-Xylene	ND	1.7	47	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
Methylene chloride	ND	2.2	94	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
o-Xylene	ND	3.0	23	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
Tetrachloroethene	13000	69	230	ug/kg dry	10	06/26/2013	06/26/2013 17:21		D
trans-1,2-Dichloroethene	ND	3.8	23	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
Trichloroethene	35	4.1	23	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
Vinyl chloride	ND	13	23	ug/kg dry	1	06/26/2013	06/26/2013 12:42		LC
Xylenes, total	ND	70	70	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
1,4-Dioxane	ND	94	94	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
Acetone	ND	16	230	ug/kg dry	1	06/26/2013	06/26/2013 12:42		
Surrogate: 1-Bromo-2-chloroethane			*99.9 %*	*75-118*		*06/26/2013*	*06/26/2013 12:42*		
Surrogate: Toluene-d8			*95.0 %*	*71.3-111*		*06/26/2013*	*06/26/2013 12:42*		
Surrogate: 4-Bromofluorobenzene			*93.0 %*	*69.2-113*		*06/26/2013*	*06/26/2013 12:42*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	89.0		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-18 14'-15'
J132605-05 (Soil)

Date Sampled
06/26/2013 09:19

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	ND	11	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
1,1,2-Trichloroethane	ND	7.3	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
1,1-Dichloroethane	ND	4.3	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
1,1-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
1,2-Dichloroethane	ND	4.0	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
cis-1,2-Dichloroethene	**37**	6.0	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
m,p-Xylene	ND	1.6	44	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
Methylene chloride	ND	2.0	88	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
o-Xylene	ND	2.8	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
Tetrachloroethene	**740**	6.5	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
trans-1,2-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
Trichloroethene	**18**	3.9	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		J
Vinyl chloride	ND	12	22	ug/kg dry	1	06/26/2013	06/26/2013 13:07		LC
Xylenes, total	ND	66	66	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
1,4-Dioxane	ND	88	88	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
Acetone	ND	15	220	ug/kg dry	1	06/26/2013	06/26/2013 13:07		
Surrogate: 1-Bromo-2-chloroethane			*101 %*	*75-118*		*06/26/2013*	*06/26/2013 13:07*		
Surrogate: Toluene-d8			*94.5 %*	*71.3-111*		*06/26/2013*	*06/26/2013 13:07*		
Surrogate: 4-Bromofluorobenzene			*88.3 %*	*69.2-113*		*06/26/2013*	*06/26/2013 13:07*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	87.5		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-19 13'-14'
J132605-06 (Soil)

Date Sampled
06/26/2013 10:30

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	ND	10	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
1,1,2-Trichloroethane	ND	7.2	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
1,1-Dichloroethane	ND	4.2	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
1,1-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
1,2-Dichloroethane	ND	3.9	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
cis-1,2-Dichloroethene	ND	5.9	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
m,p-Xylene	ND	1.6	43	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
Methylene chloride	ND	2.0	87	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
o-Xylene	ND	2.8	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
Tetrachloroethene	ND	6.4	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
trans-1,2-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
Trichloroethene	ND	3.8	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
Vinyl chloride	ND	12	22	ug/kg dry	1	06/26/2013	06/26/2013 13:32		LC
Xylenes, total	ND	65	65	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
1,4-Dioxane	ND	87	87	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
Acetone	ND	15	220	ug/kg dry	1	06/26/2013	06/26/2013 13:32		
Surrogate: 1-Bromo-2-chloroethane			*92.2 %*	*75-118*		*06/26/2013*	*06/26/2013 13:32*		
Surrogate: Toluene-d8			*86.2 %*	*71.3-111*		*06/26/2013*	*06/26/2013 13:32*		
Surrogate: 4-Bromofluorobenzene			*84.9 %*	*69.2-113*		*06/26/2013*	*06/26/2013 13:32*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	87.6		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-20 12'-13'

J132605-07 (Soil)

Date Sampled
06/26/2013 10:52

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	ND	12	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
1,1,2-Trichloroethane	ND	8.6	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
1,1-Dichloroethane	**21**	5.1	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		J
1,1-Dichloroethene	ND	4.2	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
1,2-Dichloroethane	ND	4.7	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
cis-1,2-Dichloroethene	ND	7.0	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
m,p-Xylene	ND	1.9	52	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
Methylene chloride	ND	2.4	100	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
o-Xylene	ND	3.3	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
Tetrachloroethene	**19**	7.7	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		J
trans-1,2-Dichloroethene	ND	4.2	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
Trichloroethene	ND	4.6	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
Vinyl chloride	ND	14	26	ug/kg dry	1	06/26/2013	06/26/2013 13:57		LC
Xylenes, total	ND	78	78	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
1,4-Dioxane	ND	100	100	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
Acetone	ND	18	260	ug/kg dry	1	06/26/2013	06/26/2013 13:57		
Surrogate: 1-Bromo-2-chloroethane			*98.3 %*	*75-118*		*06/26/2013*	*06/26/2013 13:57*		
Surrogate: Toluene-d8			*89.9 %*	*71.3-111*		*06/26/2013*	*06/26/2013 13:57*		
Surrogate: 4-Bromofluorobenzene			*89.9 %*	*69.2-113*		*06/26/2013*	*06/26/2013 13:57*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	88.6		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-21 11'-12'

J132605-08 (Soil)

Date Sampled
06/26/2013 11:24

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	**370**	11	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
1,1,2-Trichloroethane	ND	7.8	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
1,1-Dichloroethane	**140**	4.6	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
1,1-Dichloroethene	**180**	3.9	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
1,2-Dichloroethane	ND	4.2	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
cis-1,2-Dichloroethene	ND	6.4	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
m,p-Xylene	ND	1.7	47	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
Methylene chloride	ND	2.2	94	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
o-Xylene	ND	3.0	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
Tetrachloroethene	**240**	7.0	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
trans-1,2-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
Trichloroethene	ND	4.1	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
Vinyl chloride	ND	13	24	ug/kg dry	1	06/26/2013	06/26/2013 14:23		LC
Xylenes, total	ND	71	71	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
1,4-Dioxane	ND	94	94	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
Acetone	ND	16	240	ug/kg dry	1	06/26/2013	06/26/2013 14:23		
Surrogate: 1-Bromo-2-chloroethane			*96.6 %*	*75-118*		*06/26/2013*	*06/26/2013 14:23*		
Surrogate: Toluene-d8			*92.3 %*	*71.3-111*		*06/26/2013*	*06/26/2013 14:23*		
Surrogate: 4-Bromofluorobenzene			*87.2 %*	*69.2-113*		*06/26/2013*	*06/26/2013 14:23*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	**87.8**		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-22 10'-11'

J132605-09 (Soil)

Date Sampled
06/26/2013 12:01

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	**4800**	10	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
1,1,2-Trichloroethane	ND	7.0	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
1,1-Dichloroethane	**220**	4.2	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
1,1-Dichloroethene	**1600**	3.5	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
1,2-Dichloroethane	ND	3.8	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
cis-1,2-Dichloroethene	ND	5.8	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
m,p-Xylene	ND	1.5	42	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
Methylene chloride	ND	2.0	85	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
o-Xylene	ND	2.7	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
Tetrachloroethene	**1000**	6.3	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
trans-1,2-Dichloroethene	ND	3.5	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
Trichloroethene	ND	3.7	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
Vinyl chloride	ND	12	21	ug/kg dry	1	06/26/2013	06/26/2013 14:48		LC
Xylenes, total	ND	64	64	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
1,4-Dioxane	ND	85	85	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
Acetone	ND	14	210	ug/kg dry	1	06/26/2013	06/26/2013 14:48		
Surrogate: 1-Bromo-2-chloroethane			*98.2 %*	*75-118*		*06/26/2013*	*06/26/2013 14:48*		
Surrogate: Toluene-d8			*89.6 %*	*71.3-111*		*06/26/2013*	*06/26/2013 14:48*		
Surrogate: 4-Bromofluorobenzene			*86.9 %*	*69.2-113*		*06/26/2013*	*06/26/2013 14:48*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	87.4		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-22 14'-15'
J132605-10 (Soil)

Date Sampled
06/26/2013 12:07

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	2200	11	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
1,1,2-Trichloroethane	ND	7.4	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
1,1-Dichloroethane	2800	4.4	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
1,1-Dichloroethene	150	3.7	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
1,2-Dichloroethane	ND	4.0	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
cis-1,2-Dichloroethene	ND	6.1	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
m,p-Xylene	ND	1.6	45	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
Methylene chloride	ND	2.1	89	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
o-Xylene	ND	2.9	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
Tetrachloroethene	3500	6.6	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
trans-1,2-Dichloroethene	ND	3.7	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
Trichloroethene	ND	3.9	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
Vinyl chloride	ND	13	22	ug/kg dry	1	06/26/2013	06/26/2013 15:13		LC
Xylenes, total	ND	67	67	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
1,4-Dioxane	ND	89	89	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
Acetone	ND	15	220	ug/kg dry	1	06/26/2013	06/26/2013 15:13		
Surrogate: 1-Bromo-2-chloroethane			*102 %*	*75-118*		*06/26/2013*	*06/26/2013 15:13*		
Surrogate: Toluene-d8			*92.2 %*	*71.3-111*		*06/26/2013*	*06/26/2013 15:13*		
Surrogate: 4-Bromofluorobenzene			*92.4 %*	*69.2-113*		*06/26/2013*	*06/26/2013 15:13*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	89.5		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-23 10'-11'

J132605-11 (Soil)

Date Sampled
06/26/2013 14:28

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	ND	13	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
1,1,2-Trichloroethane	ND	8.8	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
1,1-Dichloroethane	ND	5.2	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
1,1-Dichloroethene	ND	4.3	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
1,2-Dichloroethane	ND	4.7	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
cis-1,2-Dichloroethene	ND	7.2	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
m,p-Xylene	ND	1.9	53	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
Methylene chloride	ND	2.4	110	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
o-Xylene	ND	3.4	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
Tetrachloroethene	ND	7.8	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
trans-1,2-Dichloroethene	ND	4.3	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
Trichloroethene	ND	4.6	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
Vinyl chloride	ND	15	26	ug/kg dry	1	06/26/2013	06/26/2013 17:46		LC
Xylenes, total	ND	79	79	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
1,4-Dioxane	ND	110	110	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
Acetone	ND	18	260	ug/kg dry	1	06/26/2013	06/26/2013 17:46		
Surrogate: 1-Bromo-2-chloroethane			*99.7 %*	*75-118*		*06/26/2013*	*06/26/2013 17:46*		
Surrogate: Toluene-d8			*88.3 %*	*71.3-111*		*06/26/2013*	*06/26/2013 17:46*		
Surrogate: 4-Bromofluorobenzene			*90.7 %*	*69.2-113*		*06/26/2013*	*06/26/2013 17:46*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	87.9		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-24 11'-12'

J132605-12 (Soil)

Date Sampled
06/26/2013 15:09

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	ND	12	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
1,1,2-Trichloroethane	ND	8.1	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
1,1-Dichloroethane	ND	4.8	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
1,1-Dichloroethene	ND	4.0	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
1,2-Dichloroethane	ND	4.4	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
cis-1,2-Dichloroethene	ND	6.6	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
m,p-Xylene	ND	1.7	49	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
Methylene chloride	ND	2.2	97	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
o-Xylene	ND	3.1	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
Tetrachloroethene	ND	7.2	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
trans-1,2-Dichloroethene	ND	4.0	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
Trichloroethene	ND	4.3	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
Vinyl chloride	ND	14	24	ug/kg dry	1	06/26/2013	06/26/2013 18:12		LC
Xylenes, total	ND	73	73	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
1,4-Dioxane	ND	97	97	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
Acetone	ND	17	240	ug/kg dry	1	06/26/2013	06/26/2013 18:12		
Surrogate: 1-Bromo-2-chloroethane			*103 %*	*75-118*		*06/26/2013*	*06/26/2013 18:12*		
Surrogate: Toluene-d8			*89.7 %*	*71.3-111*		*06/26/2013*	*06/26/2013 18:12*		
Surrogate: 4-Bromofluorobenzene			*95.6 %*	*69.2-113*		*06/26/2013*	*06/26/2013 18:12*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	87.2		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-25 12'-13'
J132605-13 (Soil)

Date Sampled
06/26/2013 15:46

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	ND	11	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
1,1,2-Trichloroethane	ND	7.3	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
1,1-Dichloroethane	ND	4.3	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
1,1-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
1,2-Dichloroethane	ND	4.0	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
cis-1,2-Dichloroethene	ND	6.0	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
m,p-Xylene	ND	1.6	44	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
Methylene chloride	ND	2.0	88	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
o-Xylene	ND	2.8	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
Tetrachloroethene	ND	6.5	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
trans-1,2-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
Trichloroethene	ND	3.9	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
Vinyl chloride	ND	12	22	ug/kg dry	1	06/26/2013	06/26/2013 18:37		LC
Xylenes, total	ND	66	66	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
1,4-Dioxane	ND	88	88	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
Acetone	ND	15	220	ug/kg dry	1	06/26/2013	06/26/2013 18:37		
Surrogate: 1-Bromo-2-chloroethane			*100 %*	*75-118*		*06/26/2013*	*06/26/2013 18:37*		
Surrogate: Toluene-d8			*90.8 %*	*71.3-111*		*06/26/2013*	*06/26/2013 18:37*		
Surrogate: 4-Bromofluorobenzene			*91.2 %*	*69.2-113*		*06/26/2013*	*06/26/2013 18:37*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	88.0		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-26 2'-3'

J132605-14 (Soil)

Date Sampled
06/26/2013 15:57

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	ND	11	22	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
1,1,2-Trichloroethane	ND	7.4	22	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
1,1-Dichloroethane	ND	4.3	22	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
1,1-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
1,2-Dichloroethane	ND	4.0	22	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
cis-1,2-Dichloroethene	**2800**	6.0	22	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
m,p-Xylene	ND	1.6	44	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
Methylene chloride	ND	2.0	89	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
o-Xylene	ND	2.8	22	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
Tetrachloroethene	**85000**	66	220	ug/kg dry	10	06/26/2013	06/27/2013 18:59		D
trans-1,2-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
Trichloroethene	**1300**	3.9	22	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
Vinyl chloride	ND	12	22	ug/kg dry	1	06/26/2013	06/26/2013 19:53		LC
Xylenes, total	ND	67	67	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
1,4-Dioxane	ND	89	89	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
Acetone	ND	15	220	ug/kg dry	1	06/26/2013	06/26/2013 19:53		
Surrogate: 1-Bromo-2-chloroethane			*103 %*	*75-118*		*06/26/2013*	*06/26/2013 19:53*		
Surrogate: Toluene-d8			*93.8 %*	*71.3-111*		*06/26/2013*	*06/26/2013 19:53*		
Surrogate: 4-Bromofluorobenzene			*99.2 %*	*69.2-113*		*06/26/2013*	*06/26/2013 19:53*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	84.9		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-26 10'-11'

J132605-15 (Soil)

Date Sampled
06/26/2013 16:34

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	**14000**	220	470	ug/kg dry	20	06/26/2013	06/27/2013 19:24		D
1,1,2-Trichloroethane	ND	7.8	23	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
1,1-Dichloroethane	ND	4.6	23	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
1,1-Dichloroethene	**470**	3.8	23	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
1,2-Dichloroethane	ND	4.2	23	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
cis-1,2-Dichloroethene	ND	6.4	23	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
m,p-Xylene	**66**	1.7	47	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
Methylene chloride	ND	2.2	94	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
o-Xylene	**19**	3.0	23	ug/kg dry	1	06/26/2013	06/26/2013 20:18		J
Tetrachloroethene	**280000**	690	2300	ug/kg dry	100	06/26/2013	06/28/2013 12:16		D
trans-1,2-Dichloroethene	ND	3.8	23	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
Trichloroethene	ND	4.1	23	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
Vinyl chloride	ND	13	23	ug/kg dry	1	06/26/2013	06/26/2013 20:18		LC
Xylenes, total	ND	70	70	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
1,4-Dioxane	ND	94	94	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
Acetone	ND	16	230	ug/kg dry	1	06/26/2013	06/26/2013 20:18		
Surrogate: 1-Bromo-2-chloroethane			*108 %*	*75-118*		*06/26/2013*	*06/26/2013 20:18*		
Surrogate: Toluene-d8			*94.7 %*	*71.3-111*		*06/26/2013*	*06/26/2013 20:18*		
Surrogate: 4-Bromofluorobenzene			*89.9 %*	*69.2-113*		*06/26/2013*	*06/26/2013 20:18*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	**88.1**		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-26 12'-13'

J132605-16 (Soil)

Date Sampled
06/26/2013 16:43

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	26000	110	230	ug/kg dry	10	06/26/2013	06/26/2013 23:36		D
1,1,2-Trichloroethane	ND	7.7	23	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
1,1-Dichloroethane	ND	4.6	23	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
1,1-Dichloroethene	650	3.8	23	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
1,2-Dichloroethane	ND	4.2	23	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
cis-1,2-Dichloroethene	ND	6.3	23	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
m,p-Xylene	190	1.7	47	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
Methylene chloride	ND	2.1	93	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
o-Xylene	51	3.0	23	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
Tetrachloroethene	690000	690	2300	ug/kg dry	100	06/26/2013	06/27/2013 19:49		D
trans-1,2-Dichloroethene	ND	3.8	23	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
Trichloroethene	20	4.1	23	ug/kg dry	1	06/26/2013	06/26/2013 23:12		J
Vinyl chloride	ND	13	23	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
Xylenes, total	ND	70	70	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
1,4-Dioxane	ND	93	93	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
Acetone	ND	16	230	ug/kg dry	1	06/26/2013	06/26/2013 23:12		
Surrogate: 1-Bromo-2-chloroethane			*107 %*	*75-118*		*06/26/2013*	*06/26/2013 23:12*		
Surrogate: Toluene-d8			*98.6 %*	*71.3-111*		*06/26/2013*	*06/26/2013 23:12*		
Surrogate: 4-Bromofluorobenzene			*92.4 %*	*69.2-113*		*06/26/2013*	*06/26/2013 23:12*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	90.3		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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B-26 15'-16'

J132605-17 (Soil)

Date Sampled
06/26/2013 16:46

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306006**			
1,1,1-Trichloroethane	10000	110	240	ug/kg dry	10	06/26/2013	06/27/2013 00:25		D
1,1,2-Trichloroethane	ND	7.9	24	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
1,1-Dichloroethane	56	4.6	24	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
1,1-Dichloroethene	300	3.9	24	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
1,2-Dichloroethane	ND	4.3	24	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
cis-1,2-Dichloroethene	ND	6.4	24	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
m,p-Xylene	100	1.7	47	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
Methylene chloride	ND	2.2	95	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
o-Xylene	31	3.0	24	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
Tetrachloroethene	350000	700	2400	ug/kg dry	100	06/26/2013	06/27/2013 20:14		D
trans-1,2-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
Trichloroethene	ND	4.2	24	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
Vinyl chloride	ND	13	24	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
Xylenes, total	ND	71	71	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
1,4-Dioxane	ND	95	95	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
Acetone	ND	16	240	ug/kg dry	1	06/26/2013	06/27/2013 00:01		
Surrogate: 1-Bromo-2-chloroethane			*114 %*	*75-118*		*06/26/2013*	*06/27/2013 00:01*		
Surrogate: Toluene-d8			*103 %*	*71.3-111*		*06/26/2013*	*06/27/2013 00:01*		
Surrogate: 4-Bromofluorobenzene			*96.1 %*	*69.2-113*		*06/26/2013*	*06/27/2013 00:01*		
Classical Chemistry Parameters						**Preparation Batch: J306008**			
% Solids	91.2		0.00	% by Weight	1	06/26/2013	06/27/2013 13:21	SM 2540B	

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Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

TMW-8

J132606-01 (Water)

Date Sampled
06/26/2013 08:05

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306007**			
Acetone	18	3.4	20	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	J
1,1-Dichloroethane	11	0.12	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
trans-1,2-Dichloroethene	0.25	0.11	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	J
cis-1,2-Dichloroethene	3.3	0.11	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
1,1-Dichloroethene	2.9	0.14	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
Tetrachloroethene	0.52	0.081	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
1,1,1-Trichloroethane	3.2	0.10	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
Trichloroethene	1.2	0.062	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
Vinyl chloride	0.96	0.16	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/26/2013	06/26/2013 11:39	EPA 8260B	
Surrogate: Dibromofluoromethane			*105 %*	*82.2-117*		*06/26/2013*	*06/26/2013 11:39*	*EPA 8260B*	
Surrogate: Toluene-d8			*102 %*	*82.6-111*		*06/26/2013*	*06/26/2013 11:39*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*97.5 %*	*88.4-108*		*06/26/2013*	*06/26/2013 11:39*	*EPA 8260B*	

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TMW-12

J132606-02 (Water)

Date Sampled
06/26/2013 09:25

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306007**			
Acetone	ND	3.4	20	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
1,1-Dichloroethane	**110**	1.2	5.0	ug/L	10	06/26/2013	06/26/2013 16:25	EPA 8260B	D
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
trans-1,2-Dichloroethene	**3.1**	0.11	0.50	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
cis-1,2-Dichloroethene	**40**	0.11	0.50	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
1,1-Dichloroethene	**36**	1.4	5.0	ug/L	10	06/26/2013	06/26/2013 16:25	EPA 8260B	D
Methylene chloride	ND	0.14	2.0	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
Tetrachloroethene	**380**	0.81	5.0	ug/L	10	06/26/2013	06/26/2013 16:25	EPA 8260B	D
1,1,1-Trichloroethane	**38**	0.10	0.50	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
Trichloroethene	**13**	0.062	0.50	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
Vinyl chloride	**1.1**	0.16	0.50	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/26/2013	06/26/2013 12:03	EPA 8260B	
Surrogate: Dibromofluoromethane			*106 %*	*82.2-117*		*06/26/2013*	*06/26/2013 12:03*	*EPA 8260B*	
Surrogate: Toluene-d8			*103 %*	*82.6-111*		*06/26/2013*	*06/26/2013 12:03*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*99.4 %*	*88.4-108*		*06/26/2013*	*06/26/2013 12:03*	*EPA 8260B*	

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Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

TMW-14

J132606-03 (Water)

Date Sampled
06/26/2013 10:40

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306007**			
Acetone	ND	3.4	20	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
1,1-Dichloroethane	**7.0**	0.12	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
trans-1,2-Dichloroethene	**0.25**	0.11	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	J
cis-1,2-Dichloroethene	**22**	0.11	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
1,1-Dichloroethene	**0.42**	0.14	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	J
Methylene chloride	ND	0.14	2.0	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
Tetrachloroethene	**2.4**	0.081	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
Trichloroethene	**3.9**	0.062	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
Vinyl chloride	**7.3**	0.16	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/26/2013	06/26/2013 12:27	EPA 8260B	
Surrogate: Dibromofluoromethane			*106 %*	*82.2-117*		*06/26/2013*	*06/26/2013 12:27*	*EPA 8260B*	
Surrogate: Toluene-d8			*102 %*	*82.6-111*		*06/26/2013*	*06/26/2013 12:27*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*105 %*	*88.4-108*		*06/26/2013*	*06/26/2013 12:27*	*EPA 8260B*	

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TMW-15

J132606-04 (Water)

Date Sampled
06/26/2013 11:25

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — Preparation Batch: J306007

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	ND	3.4	20	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
Tetrachloroethene	ND	0.081	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
m,p-Xylene	0.14	0.057	1.0	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	J
o-Xylene	ND	0.058	0.50	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/26/2013	06/26/2013 16:53	EPA 8260B	
Surrogate: Dibromofluoromethane			*107 %*	*82.2-117*		*06/26/2013*	*06/26/2013 16:53*	*EPA 8260B*	
Surrogate: Toluene-d8			*102 %*	*82.6-111*		*06/26/2013*	*06/26/2013 16:53*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*101 %*	*88.4-108*		*06/26/2013*	*06/26/2013 16:53*	*EPA 8260B*	

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TMW-13

J132606-05 (Water)

Date Sampled
06/26/2013 14:42

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: J306007**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	68	3.4	20	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
1,1-Dichloroethane	52	0.12	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	E
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
trans-1,2-Dichloroethene	0.38	0.11	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	J
cis-1,2-Dichloroethene	19	0.11	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
1,1-Dichloroethene	3.9	0.14	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
Tetrachloroethene	69	0.081	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	E
1,1,1-Trichloroethane	4.3	0.10	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
Trichloroethene	2.2	0.062	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/26/2013	06/26/2013 17:22	EPA 8260B	
Surrogate: Dibromofluoromethane			*104 %*	*82.2-117*		*06/26/2013*	*06/26/2013 17:22*	*EPA 8260B*	
Surrogate: Toluene-d8			*103 %*	*82.6-111*		*06/26/2013*	*06/26/2013 17:22*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*101 %*	*88.4-108*		*06/26/2013*	*06/26/2013 17:22*	*EPA 8260B*	

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TMW-18

J132606-06 (Water)

Date Sampled
06/26/2013 15:20

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: J306007**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	ND	34	200	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	
1,1-Dichloroethane	**28000**	120	500	ug/L	1000	06/26/2013	06/27/2013 17:21	EPA 8260B	D
1,2-Dichloroethane	**17**	0.78	5.0	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	D
trans-1,2-Dichloroethene	ND	1.1	5.0	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.1	5.0	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	
1,1-Dichloroethene	**900**	14	50	ug/L	100	06/26/2013	06/27/2013 12:38	EPA 8260B	D
Methylene chloride	ND	1.4	20	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	
Tetrachloroethene	**370**	0.81	5.0	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	B, D
1,1,1-Trichloroethane	**4100**	10	50	ug/L	100	06/26/2013	06/27/2013 12:38	EPA 8260B	D
1,1,2-Trichloroethane	ND	1.0	5.0	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	
Trichloroethene	**4.7**	0.62	5.0	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	J, D
Vinyl chloride	**5.5**	1.6	5.0	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	HC, D
m,p-Xylene	ND	0.57	10	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	
o-Xylene	ND	0.58	5.0	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	
Xylenes, total	ND	10	15	ug/L	10	06/26/2013	06/27/2013 12:16	EPA 8260B	
Surrogate: Dibromofluoromethane			*105 %*	*82.2-117*		*06/26/2013*	*06/27/2013 12:16*	*EPA 8260B*	
Surrogate: Toluene-d8			*104 %*	*82.6-111*		*06/26/2013*	*06/27/2013 12:16*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*97.2 %*	*88.4-108*		*06/26/2013*	*06/27/2013 12:16*	*EPA 8260B*	

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Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

TMW-22

J132606-07 (Water)

Date Sampled
06/26/2013 16:50

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306007**			
Acetone	870	340	2000	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	J, D
1,1-Dichloroethane	2400	12	50	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	D
1,2-Dichloroethane	ND	7.8	50	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	
trans-1,2-Dichloroethene	ND	11	50	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	
cis-1,2-Dichloroethene	26	11	50	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	J, D
1,1-Dichloroethene	6300	140	500	ug/L	1000	06/26/2013	06/27/2013 17:45	EPA 8260B	D
Methylene chloride	1300	14	200	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	D
Tetrachloroethene	230000	810	5000	ug/L	10000	06/26/2013	06/27/2013 18:10	EPA 8260B	D
1,1,1-Trichloroethane	80000	1000	5000	ug/L	10000	06/26/2013	06/27/2013 18:10	EPA 8260B	D
1,1,2-Trichloroethane	ND	10	50	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	
Trichloroethene	65	6.2	50	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	D
Vinyl chloride	ND	16	50	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	
m,p-Xylene	72	5.7	100	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	J, D
o-Xylene	23	5.8	50	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	J, D
Xylenes, total	ND	100	150	ug/L	100	06/26/2013	06/26/2013 21:23	EPA 8260B	
Surrogate: Dibromofluoromethane			*107 %*	*82.2-117*		*06/26/2013*	*06/26/2013 21:23*	*EPA 8260B*	
Surrogate: Toluene-d8			*100 %*	*82.6-111*		*06/26/2013*	*06/26/2013 21:23*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*103 %*	*88.4-108*		*06/26/2013*	*06/26/2013 21:23*	*EPA 8260B*	

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Fehr Graham & Associates, LLC 221 E Mail St, Suite 200 Freeport IL, 61032	Project: Sauer-Danfoss - Ames, IA Project Number: 10-500 Project Manager: Jeff Ogden	Reported: 07/12/2013

B-27 12'-13'
J132607-01 (Soil)

Date Sampled
06/27/2013 07:59

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	ND	12	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
1,1,2-Trichloroethane	ND	8.2	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
1,1-Dichloroethane	**22**	4.8	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		J
1,1-Dichloroethene	ND	4.0	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
1,2-Dichloroethane	ND	4.4	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
cis-1,2-Dichloroethene	ND	6.7	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
m,p-Xylene	ND	1.8	49	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
Methylene chloride	ND	2.3	98	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
o-Xylene	ND	3.1	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
Tetrachloroethene	**1600**	7.3	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
trans-1,2-Dichloroethene	ND	4.0	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
Trichloroethene	ND	4.3	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
Vinyl chloride	ND	14	25	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
Xylenes, total	ND	74	74	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
1,4-Dioxane	ND	98	98	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
Acetone	ND	17	250	ug/kg dry	1	06/27/2013	06/27/2013 11:11		
Surrogate: 1-Bromo-2-chloroethane			*90.6 %*	*75-118*		*06/27/2013*	*06/27/2013 11:11*		
Surrogate: Toluene-d8			*88.2 %*	*71.3-111*		*06/27/2013*	*06/27/2013 11:11*		
Surrogate: 4-Bromofluorobenzene			*84.8 %*	*69.2-113*		*06/27/2013*	*06/27/2013 11:11*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	88.8		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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Fehr Graham & Associates, LLC	Project: Sauer-Danfoss - Ames, IA	
221 E Mail St, Suite 200	Project Number: 10-500	Reported:
Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

B-28 14'-15'

J132607-02 (Soil)

Date Sampled
06/27/2013 08:34

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	ND	11	22	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
1,1,2-Trichloroethane	ND	7.5	22	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
1,1-Dichloroethane	**2800**	4.4	22	ug/kg dry	1	06/27/2013	06/27/2013 11:35		HC
1,1-Dichloroethene	**2300**	3.7	22	ug/kg dry	1	06/27/2013	06/27/2013 11:35		HC
1,2-Dichloroethane	ND	4.0	22	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
cis-1,2-Dichloroethene	ND	6.1	22	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
m,p-Xylene	ND	1.6	45	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
Methylene chloride	79	2.1	90	ug/kg dry	1	06/27/2013	06/27/2013 11:35		J
o-Xylene	ND	2.9	22	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
Tetrachloroethene	**58000**	66	220	ug/kg dry	10	06/27/2013	06/27/2013 20:39		D
trans-1,2-Dichloroethene	ND	3.7	22	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
Trichloroethene	35	3.9	22	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
Vinyl chloride	ND	13	22	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
Xylenes, total	ND	67	67	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
1,4-Dioxane	ND	90	90	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
Acetone	ND	15	220	ug/kg dry	1	06/27/2013	06/27/2013 11:35		
Surrogate: 1-Bromo-2-chloroethane			*99.6 %*	*75-118*		*06/27/2013*	*06/27/2013 11:35*		
Surrogate: Toluene-d8			*94.1 %*	*71.3-111*		*06/27/2013*	*06/27/2013 11:35*		
Surrogate: 4-Bromofluorobenzene			*93.4 %*	*69.2-113*		*06/27/2013*	*06/27/2013 11:35*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	**89.8**		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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B-28 14'-15' DUP

J132607-03 (Soil)

Date Sampled
06/27/2013 08:34

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	**14000**	110	230	ug/kg dry	10	06/27/2013	06/27/2013 22:17		D
1,1,2-Trichloroethane	ND	7.5	23	ug/kg dry	1	06/27/2013	06/27/2013 12:00		
1,1-Dichloroethane	**1500**	4.4	23	ug/kg dry	1	06/27/2013	06/27/2013 12:00		HC
1,1-Dichloroethene	**1600**	3.7	23	ug/kg dry	1	06/27/2013	06/27/2013 12:00		HC
1,2-Dichloroethane	ND	4.1	23	ug/kg dry	1	06/27/2013	06/27/2013 12:00		
cis-1,2-Dichloroethene	ND	6.1	23	ug/kg dry	1	06/27/2013	06/27/2013 12:00		
m,p-Xylene	ND	1.6	45	ug/kg dry	1	06/27/2013	06/27/2013 12:00		
Methylene chloride	**91**	2.1	90	ug/kg dry	1	06/27/2013	06/27/2013 12:00		HC
o-Xylene	ND	2.9	23	ug/kg dry	1	06/27/2013	06/27/2013 12:00		
Tetrachloroethene	**40000**	67	230	ug/kg dry	10	06/27/2013	06/27/2013 22:17		D
trans-1,2-Dichloroethene	ND	3.7	23	ug/kg dry	1	06/27/2013	06/27/2013 12:00		
Trichloroethene	**17**	4.0	23	ug/kg dry	1	06/27/2013	06/27/2013 12:00		J
Vinyl chloride	ND	13	23	ug/kg dry	1	06/27/2013	06/27/2013 12:00		
Xylenes, total	ND	68	68	ug/kg dry	1	06/27/2013	06/27/2013 12:00		
1,4-Dioxane	ND	90	90	ug/kg dry	1	06/27/2013	06/27/2013 12:00		
Acetone	ND	15	230	ug/kg dry	1	06/27/2013	06/27/2013 12:00		
Surrogate: 1-Bromo-2-chloroethane			*103 %*	*75-118*		*06/27/2013*	*06/27/2013 12:00*		
Surrogate: Toluene-d8			*94.4 %*	*71.3-111*		*06/27/2013*	*06/27/2013 12:00*		
Surrogate: 4-Bromofluorobenzene			*90.8 %*	*69.2-113*		*06/27/2013*	*06/27/2013 12:00*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	**89.0**		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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B-29 2'-3'
J132607-04 (Soil)

Date Sampled
06/27/2013 09:17

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Direct Inject — **Preparation Batch: J306009**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1-Trichloroethane	ND	11	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
1,1,2-Trichloroethane	ND	7.8	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
1,1-Dichloroethane	ND	4.6	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
1,1-Dichloroethene	ND	3.8	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
1,2-Dichloroethane	ND	4.2	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
cis-1,2-Dichloroethene	ND	6.4	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
m,p-Xylene	ND	1.7	47	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
Methylene chloride	ND	2.2	94	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
o-Xylene	ND	3.0	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
Tetrachloroethene	71	6.9	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
trans-1,2-Dichloroethene	ND	3.8	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
Trichloroethene	ND	4.1	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
Vinyl chloride	ND	13	23	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
Xylenes, total	ND	70	70	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
1,4-Dioxane	ND	94	94	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
Acetone	ND	16	230	ug/kg dry	1	06/27/2013	06/27/2013 12:24		
Surrogate: 1-Bromo-2-chloroethane			*97.8 %*	*75-118*		*06/27/2013*	*06/27/2013 12:24*		
Surrogate: Toluene-d8			*90.3 %*	*71.3-111*		*06/27/2013*	*06/27/2013 12:24*		
Surrogate: 4-Bromofluorobenzene			*88.4 %*	*69.2-113*		*06/27/2013*	*06/27/2013 12:24*		

Classical Chemistry Parameters — **Preparation Batch: J306011**

% Solids	85.8		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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B-29 14'-15'

J132607-05 (Soil)

Date Sampled
06/27/2013 09:14

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	ND	11	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
1,1,2-Trichloroethane	ND	7.4	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
1,1-Dichloroethane	ND	4.4	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
1,1-Dichloroethene	ND	3.7	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
1,2-Dichloroethane	ND	4.0	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
cis-1,2-Dichloroethene	ND	6.1	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
m,p-Xylene	ND	1.6	45	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
Methylene chloride	ND	2.1	89	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
o-Xylene	ND	2.9	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
Tetrachloroethene	ND	6.6	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
trans-1,2-Dichloroethene	ND	3.7	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
Trichloroethene	ND	3.9	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
Vinyl chloride	ND	13	22	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
Xylenes, total	ND	67	67	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
1,4-Dioxane	ND	89	89	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
Acetone	ND	15	220	ug/kg dry	1	06/27/2013	06/27/2013 12:49		
Surrogate: 1-Bromo-2-chloroethane			*96.9 %*	*75-118*		*06/27/2013*	*06/27/2013 12:49*		
Surrogate: Toluene-d8			*88.8 %*	*71.3-111*		*06/27/2013*	*06/27/2013 12:49*		
Surrogate: 4-Bromofluorobenzene			*87.4 %*	*69.2-113*		*06/27/2013*	*06/27/2013 12:49*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	88.4		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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B-30 10'-11'
J132607-06 (Soil)

Date Sampled
06/27/2013 09:48

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	ND	11	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
1,1,2-Trichloroethane	ND	7.6	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
1,1-Dichloroethane	**2500**	4.5	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		HC
1,1-Dichloroethene	**300**	3.8	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		HC
1,2-Dichloroethane	ND	4.1	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
cis-1,2-Dichloroethene	ND	6.2	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
m,p-Xylene	ND	1.6	46	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
Methylene chloride	ND	2.1	92	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
o-Xylene	ND	2.9	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
Tetrachloroethene	**5000**	6.8	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
trans-1,2-Dichloroethene	ND	3.8	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
Trichloroethene	**40**	4.0	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
Vinyl chloride	ND	13	23	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
Xylenes, total	ND	69	69	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
1,4-Dioxane	ND	92	92	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
Acetone	ND	16	230	ug/kg dry	1	06/27/2013	06/27/2013 13:35		
Surrogate: 1-Bromo-2-chloroethane			*99.7 %*	*75-118*		*06/27/2013*	*06/27/2013 13:35*		
Surrogate: Toluene-d8			*90.0 %*	*71.3-111*		*06/27/2013*	*06/27/2013 13:35*		
Surrogate: 4-Bromofluorobenzene			*91.9 %*	*69.2-113*		*06/27/2013*	*06/27/2013 13:35*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	87.3		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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B-30 13'-14'

J132607-07 (Soil)

Date Sampled
06/27/2013 09:55

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	**1700**	11	24	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
1,1,2-Trichloroethane	ND	7.8	24	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
1,1-Dichloroethane	**550**	4.6	24	ug/kg dry	1	06/27/2013	06/27/2013 14:00		HC
1,1-Dichloroethene	**180**	3.9	24	ug/kg dry	1	06/27/2013	06/27/2013 14:00		HC
1,2-Dichloroethane	ND	4.2	24	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
cis-1,2-Dichloroethene	ND	6.4	24	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
m,p-Xylene	ND	1.7	47	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
Methylene chloride	ND	2.2	94	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
o-Xylene	ND	3.0	24	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
Tetrachloroethene	**23000**	70	240	ug/kg dry	10	06/27/2013	06/27/2013 22:42		D
trans-1,2-Dichloroethene	ND	3.9	24	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
Trichloroethene	**11**	4.1	24	ug/kg dry	1	06/27/2013	06/27/2013 14:00		J
Vinyl chloride	ND	13	24	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
Xylenes, total	ND	71	71	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
1,4-Dioxane	ND	94	94	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
Acetone	ND	16	240	ug/kg dry	1	06/27/2013	06/27/2013 14:00		
Surrogate: 1-Bromo-2-chloroethane			*99.2 %*	*75-118*		*06/27/2013*	*06/27/2013 14:00*		
Surrogate: Toluene-d8			*91.1 %*	*71.3-111*		*06/27/2013*	*06/27/2013 14:00*		
Surrogate: 4-Bromofluorobenzene			*87.6 %*	*69.2-113*		*06/27/2013*	*06/27/2013 14:00*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	**88.7**		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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B-30 15'-16'

J132607-08 (Soil)

Date Sampled
06/27/2013 10:01

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	2500	11	22	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
1,1,2-Trichloroethane	ND	7.4	22	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
1,1-Dichloroethane	41	4.4	22	ug/kg dry	1	06/27/2013	06/27/2013 14:24		HC
1,1-Dichloroethene	ND	3.7	22	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
1,2-Dichloroethane	ND	4.0	22	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
cis-1,2-Dichloroethene	24	6.1	22	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
m,p-Xylene	19	1.6	45	ug/kg dry	1	06/27/2013	06/27/2013 14:24		J
Methylene chloride	ND	2.1	90	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
o-Xylene	ND	2.9	22	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
Tetrachloroethene	64000	66	220	ug/kg dry	10	06/27/2013	06/27/2013 23:06		D
trans-1,2-Dichloroethene	ND	3.7	22	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
Trichloroethene	21	3.9	22	ug/kg dry	1	06/27/2013	06/27/2013 14:24		J
Vinyl chloride	ND	13	22	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
Xylenes, total	ND	67	67	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
1,4-Dioxane	ND	90	90	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
Acetone	ND	15	220	ug/kg dry	1	06/27/2013	06/27/2013 14:24		
Surrogate: 1-Bromo-2-chloroethane			*100 %*	*75-118*		*06/27/2013*	*06/27/2013 14:24*		
Surrogate: Toluene-d8			*90.9 %*	*71.3-111*		*06/27/2013*	*06/27/2013 14:24*		
Surrogate: 4-Bromofluorobenzene			*91.1 %*	*69.2-113*		*06/27/2013*	*06/27/2013 14:24*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	89.2		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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B-31 14'-15'

J132607-09 (Soil)

Date Sampled
06/27/2013 10:38

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	**23000**	110	230	ug/kg dry	10	06/27/2013	06/27/2013 23:31		D
1,1,2-Trichloroethane	ND	7.7	23	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
1,1-Dichloroethane	**370**	4.5	23	ug/kg dry	1	06/27/2013	06/27/2013 14:49		HC
1,1-Dichloroethene	**5500**	3.8	23	ug/kg dry	1	06/27/2013	06/27/2013 14:49		HC
1,2-Dichloroethane	ND	4.2	23	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
cis-1,2-Dichloroethene	ND	6.3	23	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
m,p-Xylene	ND	1.7	46	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
Methylene chloride	**110**	2.1	93	ug/kg dry	1	06/27/2013	06/27/2013 14:49		HC
o-Xylene	ND	3.0	23	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
Tetrachloroethene	**7600**	6.8	23	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
trans-1,2-Dichloroethene	ND	3.8	23	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
Trichloroethene	**22**	4.1	23	ug/kg dry	1	06/27/2013	06/27/2013 14:49		J
Vinyl chloride	ND	13	23	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
Xylenes, total	ND	69	69	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
1,4-Dioxane	ND	93	93	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
Acetone	ND	16	230	ug/kg dry	1	06/27/2013	06/27/2013 14:49		
Surrogate: 1-Bromo-2-chloroethane			*100 %*	*75-118*		*06/27/2013*	*06/27/2013 14:49*		
Surrogate: Toluene-d8			*90.5 %*	*71.3-111*		*06/27/2013*	*06/27/2013 14:49*		
Surrogate: 4-Bromofluorobenzene			*91.2 %*	*69.2-113*		*06/27/2013*	*06/27/2013 14:49*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	87.9		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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B-32 12'-13'

J132607-10 (Soil)

Date Sampled
06/27/2013 11:44

ECCS - Lab #13

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	93	10	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
1,1,2-Trichloroethane	ND	7.2	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
1,1-Dichloroethane	ND	4.3	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
1,1-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
1,2-Dichloroethane	ND	3.9	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
cis-1,2-Dichloroethene	ND	5.9	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
m,p-Xylene	ND	1.6	44	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
Methylene chloride	ND	2.0	87	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
o-Xylene	ND	2.8	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
Tetrachloroethene	2000	6.5	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
trans-1,2-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
Trichloroethene	ND	3.8	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
Vinyl chloride	ND	12	22	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
Xylenes, total	ND	65	65	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
1,4-Dioxane	ND	87	87	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
Acetone	ND	15	220	ug/kg dry	1	06/27/2013	06/27/2013 15:14		
Surrogate: 1-Bromo-2-chloroethane			*95.6 %*	*75-118*		*06/27/2013*	*06/27/2013 15:14*		
Surrogate: Toluene-d8			*84.2 %*	*71.3-111*		*06/27/2013*	*06/27/2013 15:14*		
Surrogate: 4-Bromofluorobenzene			*86.9 %*	*69.2-113*		*06/27/2013*	*06/27/2013 15:14*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	87.8		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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B-33 10'-11'

J132607-11 (Soil)

Date Sampled
06/27/2013 12:22

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	ND	11	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
1,1,2-Trichloroethane	ND	7.4	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
1,1-Dichloroethane	ND	4.3	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
1,1-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
1,2-Dichloroethane	ND	4.0	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
cis-1,2-Dichloroethene	ND	6.0	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
m,p-Xylene	ND	1.6	44	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
Methylene chloride	ND	2.0	89	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
o-Xylene	ND	2.8	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
Tetrachloroethene	ND	6.6	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
trans-1,2-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
Trichloroethene	ND	3.9	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
Vinyl chloride	ND	12	22	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
Xylenes, total	ND	66	66	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
1,4-Dioxane	ND	89	89	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
Acetone	ND	15	220	ug/kg dry	1	06/27/2013	06/27/2013 16:53		
Surrogate: 1-Bromo-2-chloroethane			*99.6 %*	*75-118*		*06/27/2013*	*06/27/2013 16:53*		
Surrogate: Toluene-d8			*87.5 %*	*71.3-111*		*06/27/2013*	*06/27/2013 16:53*		
Surrogate: 4-Bromofluorobenzene			*86.8 %*	*69.2-113*		*06/27/2013*	*06/27/2013 16:53*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	87.4		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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Fehr Graham & Associates, LLC	Project: Sauer-Danfoss - Ames, IA	
221 E Mail St, Suite 200	Project Number: 10-500	Reported:
Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

B-33 14'-15'

J132607-12 (Soil)

Date Sampled
06/27/2013 12:27

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Direct Inject						**Preparation Batch: J306009**			
1,1,1-Trichloroethane	ND	10	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
1,1,2-Trichloroethane	ND	7.3	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
1,1-Dichloroethane	ND	4.3	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
1,1-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
1,2-Dichloroethane	ND	3.9	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
cis-1,2-Dichloroethene	ND	5.9	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
m,p-Xylene	ND	1.6	44	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
Methylene chloride	ND	2.0	87	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
o-Xylene	ND	2.8	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
Tetrachloroethene	ND	6.5	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
trans-1,2-Dichloroethene	ND	3.6	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
Trichloroethene	ND	3.8	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
Vinyl chloride	ND	12	22	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
Xylenes, total	ND	66	66	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
1,4-Dioxane	ND	87	87	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
Acetone	ND	15	220	ug/kg dry	1	06/27/2013	06/27/2013 17:18		
Surrogate: 1-Bromo-2-chloroethane			*103 %*	*75-118*		*06/27/2013*	*06/27/2013 17:18*		
Surrogate: Toluene-d8			*91.0 %*	*71.3-111*		*06/27/2013*	*06/27/2013 17:18*		
Surrogate: 4-Bromofluorobenzene			*90.5 %*	*69.2-113*		*06/27/2013*	*06/27/2013 17:18*		
Classical Chemistry Parameters						**Preparation Batch: J306011**			
% Solids	88.8		0.00	% by Weight	1	06/27/2013	06/29/2013 17:55	SM 2540B	

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Felix Graham & Associates, LLC	Project: Sauer-Danfoss - Ames, IA	
221 E Mail St, Suite 200	Project Number: 10-500	Reported:
Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

TMW-21

J132608-01 (Water)

Date Sampled
06/27/2013 09:15

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: J306010**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	11	3.4	20	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	J
1,1-Dichloroethane	8.4	0.12	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	
cis-1,2-Dichloroethene	0.12	0.11	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	J
1,1-Dichloroethene	1.3	0.14	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	
Tetrachloroethene	0.63	0.081	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	B
1,1,1-Trichloroethane	4.3	0.10	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	
m,p-Xylene	0.45	0.057	1.0	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	J
o-Xylene	0.22	0.058	0.50	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	J
Xylenes, total	ND	1.0	1.5	ug/L	1	06/27/2013	06/27/2013 13:01	EPA 8260B	
Surrogate: Dibromofluoromethane			*106 %*	*82.2-117*		*06/27/2013*	*06/27/2013 13:01*	*EPA 8260B*	
Surrogate: Toluene-d8			*103 %*	*82.6-111*		*06/27/2013*	*06/27/2013 13:01*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*98.6 %*	*88.4-108*		*06/27/2013*	*06/27/2013 13:01*	*EPA 8260B*	

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Fehr Graham & Associates, LLC	Project: Sauer-Danfoss - Ames, IA	
221 E Mail St, Suite 200	Project Number: 10-500	Reported:
Freeport IL, 61032	Project Manager: Jeff Ogden	07/12/2013

TMW-20

J132608-02 (Water)

Date Sampled
06/27/2013 09:45

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: J306010**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	ND	3.4	20	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
1,1-Dichloroethane	**6.9**	0.12	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
cis-1,2-Dichloroethene	**0.42**	0.11	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	J
1,1-Dichloroethene	**5.4**	0.14	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
Tetrachloroethene	**1.4**	0.081	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	B
1,1,1-Trichloroethane	**16**	0.10	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
Trichloroethene	**0.36**	0.062	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	J
Vinyl chloride	ND	0.16	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/27/2013	06/27/2013 13:23	EPA 8260B	
Surrogate: Dibromofluoromethane			*107 %*	*82.2-117*		*06/27/2013*	*06/27/2013 13:23*	*EPA 8260B*	
Surrogate: Toluene-d8			*104 %*	*82.6-111*		*06/27/2013*	*06/27/2013 13:23*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*98.5 %*	*88.4-108*		*06/27/2013*	*06/27/2013 13:23*	*EPA 8260B*	

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TMW-19

J132608-03 (Water)

Date Sampled
06/27/2013 10:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306010**			
Acetone	24	3.4	20	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	HC
1,1-Dichloroethane	1.5	0.12	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
cis-1,2-Dichloroethene	0.28	0.11	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	J
1,1-Dichloroethene	0.66	0.14	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
Tetrachloroethene	0.48	0.081	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	B, J
1,1,1-Trichloroethane	1.7	0.10	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
Trichloroethene	0.16	0.062	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	J
Vinyl chloride	ND	0.16	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/27/2013	06/27/2013 13:46	EPA 8260B	
Surrogate: Dibromofluoromethane			*71.2 %*	*82.2-117*		*06/27/2013*	*06/27/2013 13:46*	*EPA 8260B*	*S*
Surrogate: Toluene-d8			*103 %*	*82.6-111*		*06/27/2013*	*06/27/2013 13:46*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*97.9 %*	*88.4-108*		*06/27/2013*	*06/27/2013 13:46*	*EPA 8260B*	

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Fehr Graham & Associates, LLC 221 E Mail St, Suite 200 Freeport IL, 61032	Project: Sauer-Danfoss - Ames, IA Project Number: 10-500 Project Manager: Jeff Ogden	Reported: 07/12/2013

TMW-17

J132608-04 (Water)

Date Sampled
06/27/2013 10:40

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
ECCS - Lab #13									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch: J306010**			
Acetone	4.5	3.4	20	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	J
1,1-Dichloroethane	200	1.2	5.0	ug/L	10	06/27/2013	06/27/2013 21:46	EPA 8260B	D
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	
cis-1,2-Dichloroethene	2.9	0.11	0.50	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	
1,1-Dichloroethene	170	1.4	5.0	ug/L	10	06/27/2013	06/27/2013 21:46	EPA 8260B	D
Methylene chloride	ND	0.14	2.0	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	
Tetrachloroethene	80	0.81	5.0	ug/L	10	06/27/2013	06/27/2013 21:46	EPA 8260B	B, D
1,1,1-Trichloroethane	240	1.0	5.0	ug/L	10	06/27/2013	06/27/2013 21:46	EPA 8260B	D
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	
Trichloroethene	4.8	0.062	0.50	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	
Vinyl chloride	0.75	0.16	0.50	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	HC
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/27/2013	06/27/2013 14:09	EPA 8260B	
Surrogate: Dibromofluoromethane			*108 %*	*82.2-117*		*06/27/2013*	*06/27/2013 14:09*	*EPA 8260B*	
Surrogate: Toluene-d8			*103 %*	*82.6-111*		*06/27/2013*	*06/27/2013 14:09*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*99.8 %*	*88.4-108*		*06/27/2013*	*06/27/2013 14:09*	*EPA 8260B*	

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TMW-16

J132608-05 (Water)

Date Sampled
06/27/2013 11:08

ECCS - Lab #13

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: J306010**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Acetone	13	3.4	20	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	J
1,1-Dichloroethane	4.5	0.12	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
cis-1,2-Dichloroethene	0.68	0.11	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
1,1-Dichloroethene	2.5	0.14	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
Tetrachloroethene	1.2	0.081	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	B
1,1,1-Trichloroethane	3.1	0.10	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
Trichloroethene	0.62	0.062	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
Xylenes, total	ND	1.0	1.5	ug/L	1	06/27/2013	06/27/2013 14:32	EPA 8260B	
Surrogate: Dibromofluoromethane			*106 %*	*82.2-117*		*06/27/2013*	*06/27/2013 14:32*	*EPA 8260B*	
Surrogate: Toluene-d8			*103 %*	*82.6-111*		*06/27/2013*	*06/27/2013 14:32*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*99.0 %*	*88.4-108*		*06/27/2013*	*06/27/2013 14:32*	*EPA 8260B*	

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Classical Chemistry Parameters - Quality Control

ECCS - Lab #13

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch J306005 - % Solids										
Duplicate (J306005-DUP1)		Source: J132603-10		Prepared: 06/25/2013 Analyzed: 06/26/2013 10:53						
% Solids	85.8	0.00	% by Weight		85.4			0.498	20	
Batch J306008 - % Solids										
Duplicate (J306008-DUP1)		Source: J132605-17		Prepared: 06/26/2013 Analyzed: 06/27/2013 13:21						
% Solids	91.5	0.00	% by Weight		91.2			0.332	20	
Batch J306011 - % Solids										
Duplicate (J306011-DUP1)		Source: J132607-12		Prepared: 06/27/2013 Analyzed: 06/29/2013 17:55						
% Solids	89.8	0.00	% by Weight		88.8			1.07	20	

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Notes and Definitions

X	Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.
S	Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.
MI	Spike recoveries were not evaluated because of elevated levels of the spiked analyte in the parent sample.
M	The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
LC	Resuts may be biased low because of low continuing calibration verification (CCV).
J	Analyte was detected but is below the reporting limit. The concentration is estimated.
HC	Results may be biased high because of high continuing calibration verification (CCV).
E1	Estimated value because of quality control sample exceedances.
E	The concentration indicated is above the instrument calibration range. This value is an estimated concentration.
D	Data reported from a dilution
B	Analyte is also detected in the associated method blank.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

Appendix C

Chain of Custody Documentation

Environmental Chemistry Consulting Services, Inc.
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608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #: J132602

Project Number: 2662
Project Name: Sauer-Dunfords Investigation
Project Location: Ames, IA
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print): J. Ogden

Mail Report To: Jeff Ogden
Company: Fehr-Graham
Address: 221 E. Main Str, Suite 200
Freeport, IL 61032
E-mail Address: jogden@fehr-graham.com
Invoice To: ~~Andy~~ Direct Push
Company:
Address:

Analyses Requested / Preservation Codes: A; 8260 VOCs

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	8260 VOCs						Comments	Lab ID	Lab Receipt Time
MW-5	6/24/13	1510	W	3	X							01	1578
MW-R65	↓	1543	W	3	X							02	1555
MW-R13	↓	1629	W	3	X							03	1700

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	06/24/13	17:40	[signature]	6/24/13	1746
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s:
Shipped Via:
Receipt Temp:
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CHAIN OF CUSTODY

Lab Work Order #: J132603

Project Number: 21662
Project Name: Sauer-Danfoss Investigation
Project Location: Ames, IA
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print): J. Ogden / E. Toledo

Mail Report To:
Company: Tetra-Graham
Address:
E-mail Address:
Invoice To: Direct Push
Company:
Address:

Analyses Requested / Preservation Codes: A A

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	8260 DP SM	Solids					Comments	Lab ID	Lab Receipt Time
B-5 5'-6'	6/25/13	0800	S	2	X	X						01	0815
B-7 6'-7'		1037	S	4	X	X						02	1045
B-8 6'-7'		1134	S	2	X	X						03	1155
B-9 6'-7'		1204	S	2	X	X						04	1210
B-10 6'		1352	S	2	X	X						05	1355
B-11 6'-7'		1433	S	2	X	X						06	1440
B-12 6'-7'		1521	S	2	X	X						07	1525
B-13 6'-7'		1607	S	2	X	X						08	1610
B-14 5'-6'		1651	S	2	X	X						09	1710
B-14 5'-6' DUP		1651	S	2	X	X						10	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: [signature] Date: 06/25/13 Time: 17:50
Relinquished By: Date: Time:

Received By: [signature] Date: 6/25/13 Time: 1750
Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
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CHAIN OF CUSTODY

Lab Work Order #: J132604

Project Number: 2642
Project Name: Sayer-Danfoss Investigation
Project Location: Ames, IA
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print): J. Ogden / E. Toledo.

Mail Report To:
Company: Fehr-Graham
Address:
E-mail Address:
Invoice To: Direct Push.
Company:
Address:

Analyses Requested / Preservation Codes

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	8260 (A)	1,4-dioxane (A)					Comments	Lab ID	Lab Receipt Time
TMW-1	6/25/13	0915	W	4	X	X						01	0920
TMW-2		1034	W	5	X	X					Cancel Dioxane	02	1040
TMW-3		1130	W	3	X	X					" " as per J.O.	03	1135
TMW-4		1210	W	4	X	X					" " on 6/25/13	04	1215
TMW-5		1245	W	4	X	X					" "	05	1250
TMW-6		1442	W	4	X	X						06	1445
TMW-7		1554	W	3	X							07	1600
TMW-9		1701	W	3	X							08	1710
TMW-10		1718	W	3	X							09	1720

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Relinquished By: [signature] Date: 06/25/13 Time: 17:50
Relinquished By: Date: Time:
Received By: [signature] Date: 6/25/13 Time: 1750.
Received By: Date: Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:
Receipt Temp:
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Lab Work Order #: J132605

Mail Report To:
Company: Fehr-Graham
Address:
E-mail Address:
Invoice To: Direct Push
Company:
Address:

Project Number: 2662
Project Name: Sauer-Danfoss Investigation
Project Location: Ames, IA
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print): J. Ogden

Analyses Requested
Preservation Codes: A A

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	8260 DI SM	Solids					Comments	Lab ID	Lab Receipt Time
B-15 6'-7'	6/26/13	0726	S	2	X	X						01	0915
B-16 5'-6'		0805	S	2	X	X						02	
B-16 13'-14'		0816	S	2	X	X						03	
B-17 12'-13'		0856	S	2	X	X						04	
B-18 14'-15'		0919	S	2	X	X						05	0930
B-19 13'-14'		1030	S	2	X	X						06	1110
B-20 12'-13'		1052	S	2	X	X						07	
B-21 11'-12'		1124	S	2	X	X						08	1230
B-22 10'-11'		1201	S	2	X	X						09	
B-22 14'-15'		1207	S	2	X	X						10	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	06/26/13	17:20	[signature]	6/26/13	1720
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

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CHAIN OF CUSTODY

Lab Work Order #: J132605

Project Number: 2662
Project Name: Sauer-Danfoss Investigation
Project Location: Ames, IA
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print): S. Ogden

Mail Report To:
Company: Fehr-Graham
Address:
E-mail Address:
Invoice To: Direct Push.
Company:
Address:

Analyses Requested / Preservation Codes: A A

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	8260 BC SIM	Solids					Comments	Lab ID	Lab Receipt Time
B-23 10'-11'	6/26/13	1425	S	2	X	X						11	1525
B-24 11'-12'		1509	S	2	X	X						12	
B-25 12'-13'		1546	S	4	X	X						13	1700
B-26 2'-3'		1557	S	2	X	X						14	
B-26 10'-11'		1634	S	2	X	X						15	
B-26 12'-13'		1643	S	2	X	X						16	
B-26 15'-16		1646	S	2	X	X						17	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[illegible]	06/26/13	17:20	[illegible]	6/26/13	1700
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
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Lab Work Order #: J1326060

Mail Report To:
Company: Fehr-Graham
Address:
E-mail Address:
Invoice To: Direct Push
Company:
Address:

Project Number: 2667
Project Name: Sauer-Danfoss Investigation
Project Location: Ames, IA
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print): E. Toledo

Analyses Requested / Preservation Codes: A A

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	8260 VOCs	1,4-dioxane					Comments	Lab ID	Lab Receipt Time
TMW-8	6/26/13	0805	W	3	X							01	0915
TMW-12		0925	W	3	X							02	0930
TMW-14		1040	W	3	X							03	1110
TMW-15		1125	W	3	X							04	1525
TMW-13		1442	W	3	X							05	
TMW-18		1520	W	3	X							06	
TMW-22		1650	W	3	X							07	1700

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	06/26/13	17:20	[signature]	6/26/13	1720
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:
Receipt Temp:
Temp Blank Y N

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CHAIN OF CUSTODY

Lab Work Order #: J132607

Project Number: 2662
Project Name: Saver-Danfoss Investigation
Project Location: Ames, IA
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print): J. Ogden

Analyses Requested
Preservation Codes

Mail Report To:
Company: Fehr-Graham
Address:
E-mail Address:
Invoice To: Direct Push
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	8260 DI SIM (A)	Solids (A)					Comments	Lab ID	Lab Receipt Time
B-27 12'-13'	6/27/13	0759	S	2	X	X						01	0925
B-28 14'-15'		0834	S	2	X	X						02	
B-28 14'-15' Dup		0834	S	2	X	X						03	
B-29 2'-3'		0917	S	2	X	X						04	
B-29 14'-15'		0914	S	2	X	X						05	
B-30 10'-11'		0948	S	2	X	X						06	1110
B-30 13'-14'		0955	S	2	X	X						07	
B-30 15'-16'		1001	S	2	X	X						08	
B-31 14'-15'		1038	S	2	X	X						09	
B-32 12'-13'		1144	S	2	X	X						10	1200

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	06/27/13	15:30	[signature]	6/27/13	1530
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

Environmental Chemistry
Consulting Services, Inc.
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

EST. 1991

CHAIN OF CUSTODY

Lab Work Order #: J132607

Project Number: 2662
Project Name: Sauer-Danfoss Investigation
Project Location: Ames, IA
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print): J. Ogden.

Mail Report To:
Company: Fehr-Graham
Address:
E-mail Address:
Invoice To: Direct Push
Company:
Address:

Analyses Requested

Preservation Codes: A A

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	8260 DISM	Solids					Comments	Lab ID	Lab Receipt Time
B-33 10'-11'	6/27/13	1222	S	2	X	X						11	1300
B-33 14'-15'	↓	1227	S	2	X	X						12	↓

Preservation Codes	Relinquished By:	Date:	Time:	Received By:	Date:	Time:
A=None B=HCL C=H_2SO_4 D=HNO_3 E=EnCore F=Methanol G=NaOH O=Other (Indicate)	[signature]	06/27/13	15:30	[signature]	6/27/13	1530
	Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Matrix Codes: A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

Environmental Chemistry
Consulting Services, Inc.
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

EST. 1991

CHAIN OF CUSTODY

Lab Work Order #: J132608

Mail Report To:
Company: Fehr-Graham
Address:
E-mail Address:
Invoice To: Direct Push
Company:
Address:

Project Number: 2662
Project Name: Sauer-Danfoss Investigation
Project Location: Ames, IA
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print): E. Toledo

Analyses Requested
Preservation Codes

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	8260 Full List d						Comments	Lab ID	Lab Receipt Time
TMW-21	6/27/13	0915	W	3	X							01	1100
TMW-20		0945	W	3	X							02	
TMW-19		1000	W	3	X							03	
TMW-17		1040	W	3	X							04	
TMW-16		1108	W	3	X							05	1215
TMW-~~26~~ ~~24~~ 27		1205	W	3	X							06	
TMW-28		1345	W	3	X							07	1425
TMW-26		1415	W	3	X							08	
TMW-23		1430	W	3	X							09	1500
TMW-24		1440	W	3	X							10	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	06/27/13	15:30	[signature]	6/27/13	1530
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

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Rev. 11/08

Environmental Chemistry
Consulting Services, Inc.
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #: J132608

Project Number: 2662
Project Name: Sauer-Danfoss Investigation
Project Location: Ames, IA
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print): E. Toledo

Analyses Requested / Preservation Codes: A; 8260 Full List

Mail Report To:
Company: Fehr-Graham
Address:
E-mail Address:
Invoice To: Direct Pub
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	8260 Full List						Comments	Lab ID	Lab Receipt Time
TMW-11	6/27/13	1507	W	3	X							U	1520

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Relinquished By: [signature] Date: 06/27/13 Time: 15:30
Relinquished By: Date: Time:

Received By: [signature] Date: 6/27/13 Time: 1530
Received By: Date: Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N