



STATE OF IOWA

CHESTER J. CULVER, GOVERNOR
PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
PATRICIA L. BODDY, INTERIM DIRECTOR

September 21, 2010

Duane Armstead
Greenfield Municipal Utilities
P.O. Box 95
Greenfield, Iowa 50849

Subject: Greenfield Municipal Utilities, South 1st and Southeast Kent Street, Greenfield, Iowa

Dear Mr. Armstead:

Thank you for the submittal of the Third Quarter Monitoring Report 2010 dated August 17, 2010, conducted on the property referenced above. As noted in the report, total extractable hydrocarbons (TEH) as diesel and waste oil were detected in several monitoring wells onsite; however, all of the concentrations were below the potential groundwater ingestion standard of 75,000 ug/L. The concentrations appear to be stable and continue to decrease over time. The Department was onsite during the first and third quarter sampling events to collect groundwater samples for analysis by the University Hygienic Laboratory (UHL). While discrepancies were noted, they appear to be minor. The Department's analytical results are attached for your records.

Based on the information presented above, no further action is required on the Greenfield Municipal Utilities site at this time. Please note that this judgment is based on information available to the Department at this time and is subject to revision, if additional information indicates such a change is warranted. All monitoring wells onsite must be properly abandoned and the well abandonment forms should be submitted for our records. Feel free to contact me if there are any questions, comments, or concerns at (515) 281-4420.

Sincerely,

A handwritten signature in black ink, appearing to read "Tami S. Rice".

Tami S. Rice
Environmental Specialist Senior
Contaminated Sites Section
Iowa Department of Natural Resources

Enclosures: Analytical Results dated 08/23/2010

Cc: Cal Lundberg, Supervisor, Contaminated Sites Section, Iowa Department of Natural Resources (w/o Encl.)
Mark Landa, Sullivan & Ward, P.C., 6601 Westown Parkway, Suite 200, West Des Moines, Iowa 50266 (w/Encl.)
Eric Mueggenberg, Terracon, 600 Southwest 7th Street, Suite M, Des Moines, Iowa 50309 (w/Encl.)
Field Office 4, 1401 Sunnyside Lane, Atlantic, Iowa 50022 (w/o Encl.)



Hygienic Laboratory

The University of Iowa

Date of report: 08-23-2010

|||||.....|||||.....
 TAMI RICE
 IDNR CONTAMINATED SITES
 502 EAST NINTH STREET

 DES MOINES IA 50319-0034

Sample Number 2010029038 Revision 1
 Date Received 08-04-2010
 Project WMSF
 Date Collected 08-04-2010 11:36
 Collection Site pmw-4a
 Collection Town
 Description water
 Reference GREENFIELD MUNI UTIL
 Collector RICE TAMI S.
 Phone (515) 281-4420
 Purchase Order

Comments

Account #19745
 Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

Total Extractable Hydrocarbons

Analyte	Concentration ug/L	Quantitation Limit ug/L
Gasoline	< 100	100
Mineral spirits	< 100	100
Kerosene	< 100	100
Diesel Fuel	1100	100
Motor Oil	< 100	100
Total Extractable Hydrocarbons	1100	100

Comments

The chromatographic profile of the sample extract did not match this laboratory's fuel or oil standards. Quantitation is based on this laboratory's diesel fuel standard.

Date Analyzed: 08-11-2010
 Method: OA-2
 Date Prepared: 08-06-2010

Analyzed at: Iowa City

Analyst: MA
 Verified: SM
 Analyst: GJ
 Verified: KB

Description of units used within this report

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

The results of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City #027, Lakeside #393.

If you have any questions please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.



Hygienic Laboratory

The University of Iowa

Date of report: 08-23-2010

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TAMI RICE
IDNR CONTAMINATED SITES
502 EAST NINTH STREET

DES MOINES IA 50319-0034

Sample Number 2010029039 Revision 1
Date Received 08-04-2010
Project WMSF
Date Collected 08-04-2010 11:53
Collection Site pmw-5
Collection Town
Description water
Reference GREENFIELD MUNI UTIL
Collector RICE TAMI S.
Phone (515) 281-4420
Purchase Order

Comments

Account #19745

Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

Total Extractable Hydrocarbons

Analyte	Concentration ug/L	Quantitation Limit ug/L
Gasoline	< 100	100
Mineral spirits	< 100	100
Kerosene	< 100	100
Diesel Fuel	3300	100
Motor Oil	< 100	100
Total Extractable Hydrocarbons	3300	100

Comments

The chromatographic profile of the sample extract did not match this laboratory's fuel or oil standards. Quantitation is based on this laboratory's diesel fuel standard.

Date Analyzed: 08-11-2010
Method: OA-2
Date Prepared: 08-06-2010

Analyzed at: Iowa City

Analyst: MA
Verified: SM
Analyst: GJ
Verified: KB

Description of units used within this report

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

The results of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City #027, Lakeside #393.

If you have any questions please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.



Hygienic Laboratory

The University of Iowa

Date of report: 08-23-2010

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 TAMI RICE
 IDNR CONTAMINATED SITES
 502 EAST NINTH STREET

 DES MOINES IA 50319-0034

Sample Number 2010029042 Revision 1
 Date Received 08-04-2010
 Project WMSF
 Date Collected 08-04-2010 11:18
 Collection Site pmw-8
 Collection Town
 Description water
 Reference GREENFIELD MUNI UTIL
 Collector RICE TAMI S.
 Phone (515) 281-4420
 Purchase Order

Comments

Account #19745
 Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

Total Extractable Hydrocarbons

Analyte	Concentration ug/L	Quantitation Limit ug/L
Gasoline	< 110	110
Mineral spirits	< 110	110
Kerosene	< 110	110
Diesel Fuel	470	110
Motor Oil	< 110	110
Total Extractable Hydrocarbons	470	110

Comments

The chromatographic profile of the sample extract did not match this laboratory's fuel or oil standards. Quantitation is based on this laboratory's diesel fuel standard.

Date Analyzed: 08-11-2010
 Method: OA-2
 Date Prepared: 08-06-2010

Analyzed at: Iowa City

Analyst: MA/CR
 Verified: SM
 Analyst: GJ
 Verified: KB

Description of units used within this report

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

The results of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City #027, Lakeside #393.

If you have any questions please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.



Hygienic Laboratory

The University of Iowa

Date of report: 08-23-2010

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TAMI RICE
IDNR CONTAMINATED SITES
502 EAST NINTH STREET

DES MOINES IA 50319-0034

Sample Number 2010029043 Revision 1
Date Received 08-04-2010
Project WMSF
Date Collected 08-04-2010 11:05
Collection Site pmw-9
Collection Town
Description water
Reference GREENFIELD MUNI UTIL
Collector RICE TAMI S.
Phone (515) 281-4420
Purchase Order

Comments

Account #19745
Upon arrival, sample met container and preservation requirements for the analysis requested. Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

Total Extractable Hydrocarbons

Analyte	Concentration ug/L	Quantitation Limit ug/L
Gasoline	<100	100
Mineral spirits	<100	100
Kerosene	<100	100
Diesel Fuel	2500	100
Motor Oil	<100	100
Total Extractable Hydrocarbons	2500	100

Comments

The chromatographic profile of the sample extract did not match this laboratory's fuel or oil standards. Quantitation is based on this laboratory's diesel fuel standard.

Date Analyzed: 08-11-2010
Method: OA-2
Date Prepared: 08-06-2010

Analyzed at: Iowa City

Analyst: MA
Verified: SM
Analyst: GJ
Verified: KB

Description of units used within this report

ug/L - Micrograms per Liter

Quant Limit - Lowest concentration reliably measured

The results of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City #027, Lakeside #393.

If you have any questions please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.



Hygienic Laboratory

The University of Iowa

CHAIN-OF-CUSTODY

Contact Name TAMI RICE		Phone 515-281-4420		Analysis Requested	
Company DNL - Contaminated Sites		Fax 515-281-8895		Project Name and/or Number Greenfield Municipal Utilities	
Address 502 E 9TH Street		State IA		Collector's Phone # 515-281-4420	
City Des Moines		Zip 50319		Print Collector's Name TAMI S. RICE	
Sample ID/Description	Date	Time	W	S	Other
1. PMW-1A	8/4/10	11:47am	✓		
2. PMW-2		11:30am	✓		
3. PMW-4A		11:36am	✓		
4. PMW-5		11:53am	✓		
5. PMW-6		11:12am	✓		
6. PMW-7		11:29am	✓		
7. PMW-8		11:19am	✓		
8. PMW-9		11:05am	✓		
Relinquished by TAMI S. RICE	Date 8/4/10	Time 1:54 pm	Comments 2010029036 AK 2010029037 AK 2010029038 AK 2010029039 AK 2010029040 AK 2010029041 AK 2010-08-04 14:15		
Relinquished by	Date	Time	Comments		
Sample receiving custodian Kevin O'Sullivan	Date 8/5/10	Time	Comments 8-18-10 IC lead 34°C = 91.8°F		

WMSF

Purchase Order #
19745

(2024)

Collector's Signature
TAMI S. RICE

Committee ILLI, Sample Number
2010029042 AK 7
2010029043 AK 8
2010-08-04 14:15

