Seneca Companies

The Complete Solution

CON 12-15
Doc # 26791

*BRANCH ADDRESS*
7241 Gaines Street Court
Davenport, IA 52806
Phone: 563-332- 8000
Toll-Free: 800-728-6900
Fax: 563-332-9465

September 13, 2013

Mr. Mike Stewart
River Cities Management L.L.C.
200 East 90th Street
Davenport, Iowa 52806

Subject: Site Assessment Report 2013
River Cities Industrial Center
200 East 90th Street, Davenport, Iowa

Dear Mr. Stewart:

In accordance with our contract, on September 3, 2013 Seneca Environmental Services (SES) mobilized to the above referenced site to collect groundwater samples from select monitoring wells. The locations of the wells sampled and other wells that also remain on-site may be found in Attachment 1, Site Plan Map. Prior to sampling, depth to water/product was measured using a free product probe. Free product was not present in the monitoring wells sampled. Groundwater samples were collected after the wells were properly purged using disposable polyethylene bailers. The groundwater was placed into appropriate containers supplied by the laboratory and chilled until relinquished to the laboratory for analysis. All samples were analyzed by the Iowa OA2 Method. The groundwater results, and previous free product measurements, are tabulated in Table 1. The laboratory report is included as Attachment 3.

Because the contaminants of concern are derived from petroleum, test results for this site are compared to those standards utilized by the IDNR leaking underground storage tank program. These standards, as found in the 'Iowa Tier 1 Look-Up Table' in 567 IAC Chapter 135, are the standards above which concentrations of petroleum contaminants for actual and potential receptors present some risk to human health and the environment.

Of the seven wells sampled, two contain current diesel concentrations and waste oil concentrations above the most stringent IDNR Tier 1 target levels of 1,200 ug/L and 400 ug/L for diesel fuel and waste oil, respectively. These target levels are for actual groundwater ingestion, i.e. contaminated drinking water from a drinking water well or other drinking water source. The target level for potential groundwater ingestion receptors, water wells that could be drilled in the future, is 75,000 ug/L. Both of the monitoring wells containing petroleum contamination above Tier 1 standards exceed the potential risk standard also.

Other risk pathways recognized by the IDNR for contaminated groundwater are groundwater vapor to enclosed space, groundwater to water line, and groundwater to surface water. Of the seven wells sampled, two have contaminant concentrations above the threshold values for groundwater to water line and groundwater to surface water, i.e. 75,000 ug/L diesel.

Monitoring in 2013 indicated that previously contaminated monitoring wells exhibited increasing concentrations of diesel fuel and waste oil contamination (MW18, MW19). However, both of these wells have experienced mostly downward treads over the life of sampling. Previously uncontaminated monitoring wells remain uncontaminated. Based on testing results, the groundwater contaminant plume does not appear to be migrating at this time.

Groundwater elevations were determined in each of the seven wells sampled. The elevations of the groundwater surface are presented in Table 1 and contoured in the Groundwater Contour Map, Attachment 2. Projected groundwater flow direction based on groundwater elevations is generally to the north.

Based on the age of the release, the absence of free product, the apparent stability of the contaminant plume and declining concentrations in monitored wells, the site poses little risk to human health or the environment. Consideration should be given to closing the site or allowing a reduced monitoring schedule.

Sincerely,
**SENECA COMPANIES INC.**

Neil P. DeRynck
ICGP #1238
Senior Project Manager

Attachment 1: Site Plan Map
Attachment 2: Groundwater Contour Map
Attachment 2: Laboratory Data Sheets

**Table 1**
**Groundwater Data[1]**

| Boring/ well | Date | Top of Casing Elevation | Static Water Level Elevation | Free Product Thickness (ft.) | Benzene (ug/L) | Toluene (ug/L) | Ethyl benzene (ug/L) | Xylenes (ug/L) | Diesel (ug/L) | Waste Oil (ug/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| MW2 | 8/15/95 | 743.28 | | 0.0 | <2 | <2 | <2 | <2 | <100 | |
| MW2 | 6/4/03 | 743.28 | 732.95 | 0.0 | | | | | <380 | <380 |
| MW2 | 5/2/05 | 743.28 | 732.50 | 0.0 | | | | | **1490** | <380 |
| MW2 | 4/24/07 | 743.28 | 732.68 | 0.0 | | | | | <300 | <300 |
| MW2 | 7/24/08 | 743.28 | 733.60 | 0.0 | | | | | <300 | **717** |
| MW2 | 8/11/09 | 743.28 | 733.13 | 0.0 | | | | | <300 | <300 |
| MW2 | 8/10/10 | 743.28 | 733.24 | 0.0 | | | | | <300 | <300 |
| MW2 | 9/14/11 | 743.28 | 732.85 | 0.0 | | | | | <300 | <300 |
| MW2 | 9/03/13 | 743.28 | 733.34 | 0.0 | | | | | <227 | <227 |
| MW3 | 8/16/95 | 743.40 | | 0.0 | <2 | <2 | <2 | <2 | <100 | |
| MW3 | 6//03 | 743.40 | 733.10 | 0.0 | | | | | <380 | <380 |
| MW3 | 5/2/05 | 743.40 | 732.51 | 0.0 | | | | | **5640** | <380 |
| MW3 | 4/24/07 | 743.40 | 732.85 | 0.0 | | | | | <300 | <300 |
| MW3 | 7/24/08 | 743.40 | 734.30 | 0.0 | | | | | <300 | <300 |
| MW4 | 8/15/95 | 742.99 | | 5.4 | 1.7 | <2 | <1 | <1 | <100 | |
| MW4 | 6/4/03 | 742.99 | 732.92 | 0.52 | 830 | 210 | 940 | 940 | **2900** | |
| MW4 | 5/2/05 | Not located | | | | | | | | |
| MW4 | 4/24/07 | Not located | | | | | | | | |
| MW4 | 7/24/08 | 742.99 | 734.40 | 0.0 | | | | | **5,800,000** | **100,000** |
| MW4 | 8/11/09 | 742.99 | 733.94 | 0.0 | | | | | **12,700,000** | **240,000** |
| MW4 | 8/10/10 | 742.99 | 733.09 | 0.0 | | | | | **1,100,000** | <30000 |
| MW4 | 9/14/11 | 742.99 | DRY | | | | | | | |
| MW4 | 9/03/13 | Not located | | | | | | | | |
| MW5 | 8/15/95 | 741.78 | | 0.0 | <1 | <1 | <1 | <1 | 100 | |
| MW5 | 6/4/03 | 741.78 | 731.48 | 1.01 | | | | | **312,000** | **18,200** |
| MW5 | 5/2/05 | 741.78 | 732.28 | 0.0 | | | | | **1,520,000** | **55,000** |
| MW5 | 4/24/07 | 741.78 | 732.48 | 0.0[2] | | | | | **672,000** | **15,700** |
| MW5 | 7/24/08 | 741.78 | 733.98 | 0.0[2] | | | | | **359,000** | **9,640** |
| MW13 | 9/14/95 | 743.06 | | 0.0 | <1 | <1 | <1 | <1 | <100 | |
| MW13 | 6/4/03 | 743.06 | 732.55 | 0.0 | | | | | <380 | <380 |
| MW13 | 5/2/05 | Well casing plugged | | | | | | | | |
| MW13 | 4/24/07 | 743.06 | 732.94 | | | | | | <300 | <300 |
| MW13 | 7/24/08 | 743.06 | 733.51 | | | | | | <300 | <300 |
| MW13 | 8/11/09 | 743.06 | 733.26 | | | | | | <300 | <300 |
| MW13 | 8/10/10 | 743.06 | 733.53 | 0.0 | | | | | <300 | <300 |
| MW13 | 9/14/11 | 743.06 | 732.59 | 0.0 | | | | | <300 | <300 |
| MW13 | 9/03/13 | 743.06 | 733.09 | 0.0 | | | | | <227 | <227 |
| MW14 | 9/14/95 | 743.52 | | 0.0 | <1 | <1 | <1 | <1 | <100 | |
| MW14 | 6/4/03 | 743.52 | 731.31 | 0.0 | | | | | <380 | <380 |
| MW14 | 5/2/05 | 743.52 | 730.57 | 0.0 | | | | | **5550** | <380 |
| MW14 | 4/24/07 | 743.52 | 730.67 | 0.0 | | | | | <300 | <300 |
| MW14 | 7/24/08 | 743.52 | 733.77 | 0.0 | | | | | <300 | <300 |
| MW16 | 9/14/95 | 740.37 | | 0.0 | <1 | <1 | <1 | <1 | 600 | |
| MW16 | 6/4/03 | 740.37 | 730.45 | 0.0 | | | | | <380 | <380 |

| Boring/ well | Date | Top of Casing Elevation | Static Water Level Elevation | Free Product Thickness (ft.) | Benzene (ug/L) | Toluene (ug/L) | Ethyl benzene (ug/L) | Xylenes (ug/L) | Diesel (ug/L) | Waste Oil (ug/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| MW16 | 5/2/05 | 740.37 | 730.02 | 0.0 | | | | | **1610** | <380 |
| MW16 | 4/24/07 | 740.37 | 730.45 | 0.0 | | | | | <300 | 351 |
| MW16 | 7/24/08 | 740.37 | 732.83 | 0.0 | | | | | <300 | <300 |
| MW16 | 8/11/09 | 740.37 | 733.03 | 0.0 | | | | | <300 | <300 |
| MW16 | 8/10/10 | 740.37 | 732.97 | 0.0 | | | | | <300 | <300 |
| MW16 | 9/14/11 | 740.37 | 731.49 | 0.0 | | | | | <300 | <300 |
| MW16 | 9/03/13 | 740.37 | 731.57 | 0.0 | | | | | <227 | <227 |
| MW17 | 11/30/9 | 744.35 | | 10.7 | 15.6 | 1.1 | 6.4 | <3 | <100 | |
| MW17 | 6/4/03 | 744.35 | 733.22 | 0.12 | | | | | **233,000** | **17,700** |
| MW17 | 5/2/05 | 744.35 | 732.67 | 0.23 | | | | | **1,570,000** | **52,600** |
| MW17 | 4/24/07 | 744.35 | 733.48 | 0.0[2] | | | | | **245,000** | **7,010** |
| MW17 | 7/24/08 | 744.35 | 735.79 | 0.0[2] | | | | | **177,000** | **3,650** |
| MW18 | 9/15/95 | 743.69 | | 8.85 | <1 | <1 | <1 | <1 | 1100 | |
| MW18 | 6/4/03 | 743.69 | 731.91 | 0.0 | | | | | | **6650** |
| MW18 | 5/2/05 | 743.69 | 731.37 | 0.12 | | | | | **3,330,000** | **223,000** |
| MW18 | 4/24/07 | 743.69 | 732.01 | 0.0[2] | | | | | **633,000** | **27,100** |
| MW18 | 7/24/08 | 743.69 | 734.73 | 0.0[2] | | | | | **865,000** | **27,800** |
| MW18 | 8/11/09 | 743.69 | 734.30 | | | | | | **383,000** | **16,600** |
| MW18 | 9/14/11 | 743.69 | 731.32 | 0.0 | | | | | **249,000** | **6,670** |
| MW18 | 9/03/13 | 743.69 | 731.79 | 0.0 | | | | | **271,000** | **17,100** |
| MW19 | 9/15/95 | 742.95 | | 3.03 | <1 | <1 | <1 | <1 | <100 | |
| MW19 | 6/4/03 | 742.95 | 731.6 | 0.04 | | | | | **185,000** | **15,700** |
| MW19 | 5/2/05 | 742.95 | 731.30 | 0.0 | | | | | **1,150,000** | **70,000** |
| MW19 | 4/24/07 | 742.95 | 731.49 | 0.0[2] | | | | | **441,000** | **8140** |
| MW19 | 7/24/08 | 742.95 | 732.62 | 0.0[2] | | | | | **750,000** | **30,000** |
| MW19 | 8/11/09 | 742.95 | 732.51 | | | | | | **259,000** | **10900** |
| MW19 | 8/10/10 | 742.97 | 732.50 | 0.0 | | | | | **39,400** | **2,970** |
| MW19 | 9/14/11 | 742.97 | 731.67 | 0.0 | | | | | **18200** | **550** |
| MW19 | 9/03/13 | 742.97 | 732.38 | 0.0 | | | | | **90,600** | **27,000** |
| MW27 | 9/22/95 | 741.95 | | 3.78 | <1 | <1 | <1 | <1 | <100 | |
| MW27 | 6/4/03 | 741.95 | 734.13 | 0.18 | | | | | **3,290,000** | **207,000** |
| MW27 | 5/2/05 | 741.95 | 733.23 | 0.32 | | | | | **20,600,000** | **679,000** |
| MW27 | 4/24/07 | 741.95 | 733.55 | 0.0[2] | | | | | **3,000,000** | **22,400** |
| MW27 | 7/24/08 | 741.95 | 733.45 | 0.0[2] | | | | | **2,460,000** | **64,800** |
| MW27 | 8/11/09 | 741.95 | 734.07 | | | | | | **615,000** | **24900** |
| MW27 | 8/10/10 | 741.95 | 734.15 | 0.0 | | | | | **111,000** | **9,510** |
| MW27 | 9/14/11 | 741.95 | Well was dry | | | | | | | |
| MW27 | 9/03/13 | 741.95 | Well was dry | | | | | | | |
| MW28 | 9/22/95 | 740.31 | | 0.0 | <1 | <1 | <1 | <1 | <100 | |
| MW28 | 6/4/03 | 740.31 | 728.29 | 0.0 | | | | | <380 | <380 |
| MW28 | 5/2/05 | 740.31 | 728.13 | 0.0 | | | | | 996 | <380 |
| MW28 | 4/24/07 | dry | | | | | | | | |
| MW28 | 7/24/08 | 740.31 | 731.30 | 0.0 | | | | | <300 | <300 |
| MW32 | 6/4/03 | 745.08 | | 0.0 | | | | | **1810** | <380 |
| MW32 | 5/2/05 | 745.08 | 732.84 | 0.0 | | | | | <380 | <380 |
| MW32 | 4/24/07 | 745.08 | 733.30 | 0.0 | | | | | <300 | <300 |

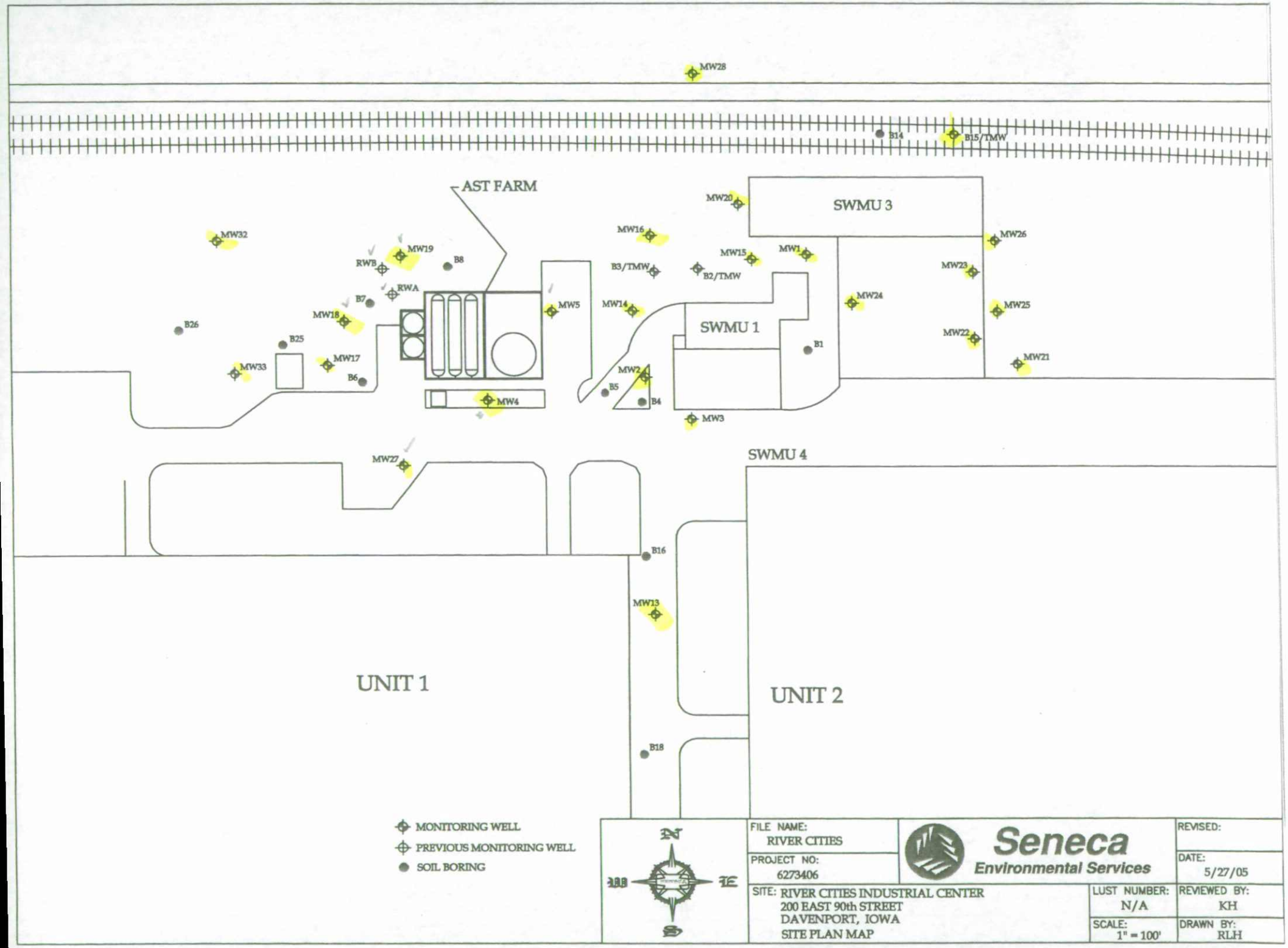
| Boring/ well | Date | Top of Casing Elevation | Static Water Level Elevation | Free Product Thickness (ft.) | Benzene (ug/L) | Toluene (ug/L) | Ethyl benzene (ug/L) | Xylenes (ug/L) | Diesel (ug/L) | Waste Oil (ug/L) |
|---|---|---|---|---|---|---|---|---|---|---|
| MW32 | 7/24/08 | 745.08 | 733.74 | 0.0 | | | | | <300 | <300 |
| MW32 | 8/11/09 | 745.08 | 733.61 | | | | | | <300 | <300 |
| MW32 | 8/10/10 | 745.08 | 733.79 | 0.0 | | | | | <300 | <300 |
| MW32 | 9/14/11 | 745.08 | 732.81 | 0.0 | | | | | <300 | <300 |
| MW32 | 9/03/13 | 745.08 | 733.63 | 0.0 | | | | | <227 | <227 |
| MW33 | 6/4/03 | 745.28 | | 0.0 | | | | | 463 | <380 |
| MW33 | 5/2/05 | 745.28 | 732.77 | 0.0 | | | | | <380 | <380 |
| MW33 | 4/24/07 | 745.28 | 732.88 | 0.0 | | | | | <300 | <300 |
| MW33 | 7/24/08 | 745.28 | 733.05 | 0.0 | | | | | <300 | <300 |
| MW33 | 8/11/09 | 745.28 | 732.98 | | | | | | <300 | <300 |
| MW33 | 8/10/10 | 745.28 | 733.06 | 0.0 | | | | | <300 | <300 |
| MW33 | 9/14/11 | 745.28 | 732.46 | 0.0 | | | | | <300 | <300 |
| MW33 | 9/03/13 | 745.28 | 733.13 | 0.0 | | | | | <227 | <227 |
| RWA | 6/4/03 | | | 0.13 | | | | | **57,800** | **12,800** |
| RWA | 5/2/05 | | | 0.0 | | | | | **11,500** | **1510** |
| RWA | 4/24/07 | | | 0.0 | | | | | **21,100** | **4300** |
| RWA | 7/24/08 | | | 0.0 | | | | | **56,700** | **11,600** |
| RWB | 6/4/03 | | | 0.0 | | | | | | **4230** |
| RWB | 5/2/05 | | | 0.0 | | | | | **17,000** | **1210** |
| RWB | 4/24/07 | | | 0.0 | | | | | **85,200** | **2670** |
| RWB | 7/24/08 | | | 0.0 | | | | | **56,500** | **2,140** |

[1] The concentrations in **bold** are above the lowest IDNR Tier 1 target levels of 1,200 ug/L for diesel and 400 ug/L for waste oil.

[2] Absorbent sock in well.

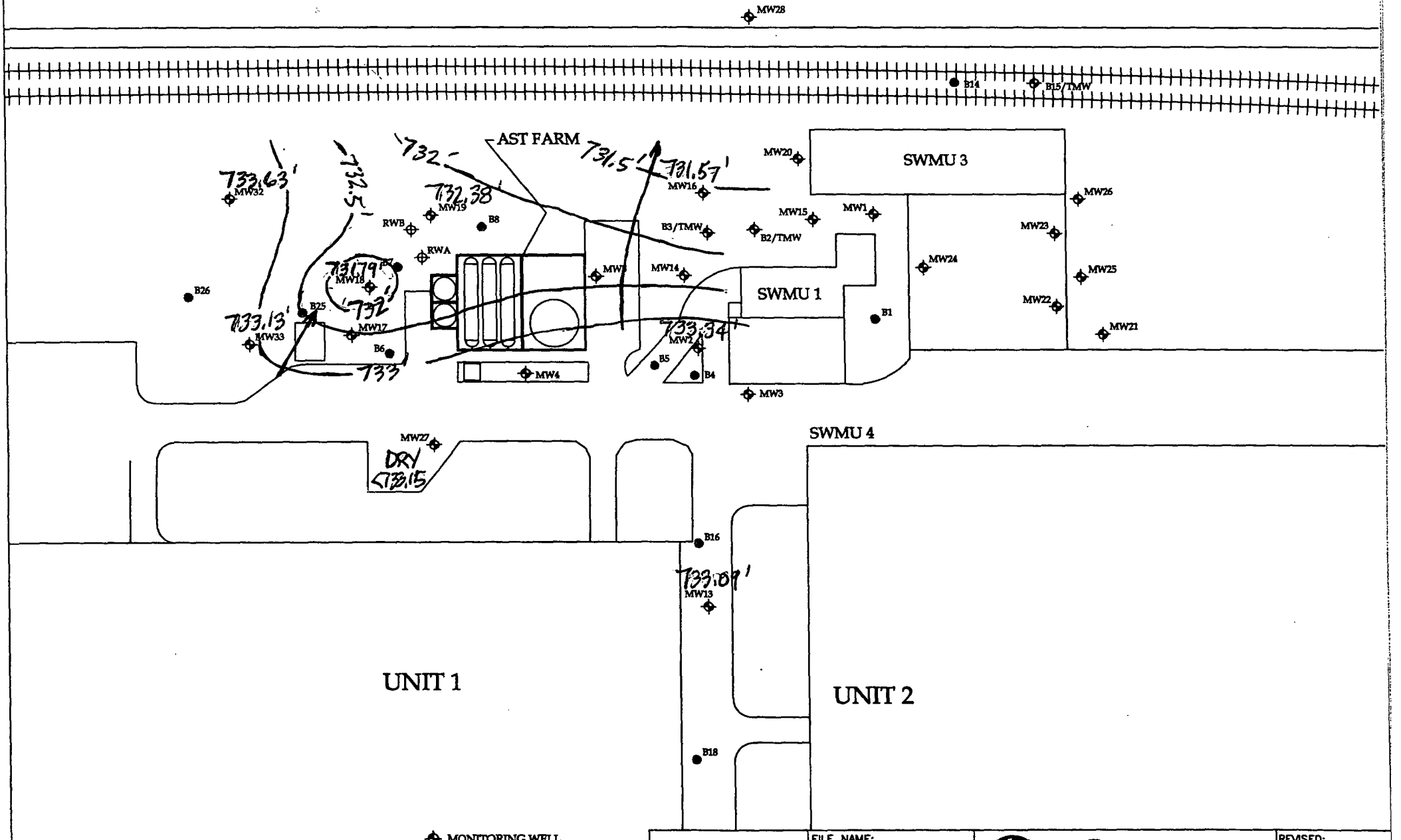
# ATTACHMENT 1

Site Plan Map


MW28
B14
B15/TMW
AST FARM
SWMU 3
SWMU 1
SWMU 4
UNIT 1
UNIT 2
MW32
MW19
RWB
B8
RWA
B7
MW18
B26
B25
MW17
MW33
B6
MW5
MW4
MW16
B3/TMW
MW15
B2/TMW
MW1
MW20
MW26
MW23
MW24
MW25
MW22
MW21
B1
MW14
MW2
B5
B4
MW3
MW27
B16
MW13
B18
MONITORING WELL
PREVIOUS MONITORING WELL
SOIL BORING
N
NW
NE
FILE NAME: RIVER CITIES
PROJECT NO: 6273406
Seneca Environmental Services
SITE: RIVER CITIES INDUSTRIAL CENTER
200 EAST 90th STREET
DAVENPORT, IOWA
SITE PLAN MAP
LUST NUMBER: N/A
SCALE: 1" = 100'
REVISED:
DATE: 5/27/05
REVIEWED BY: KH
DRAWN BY: RLH

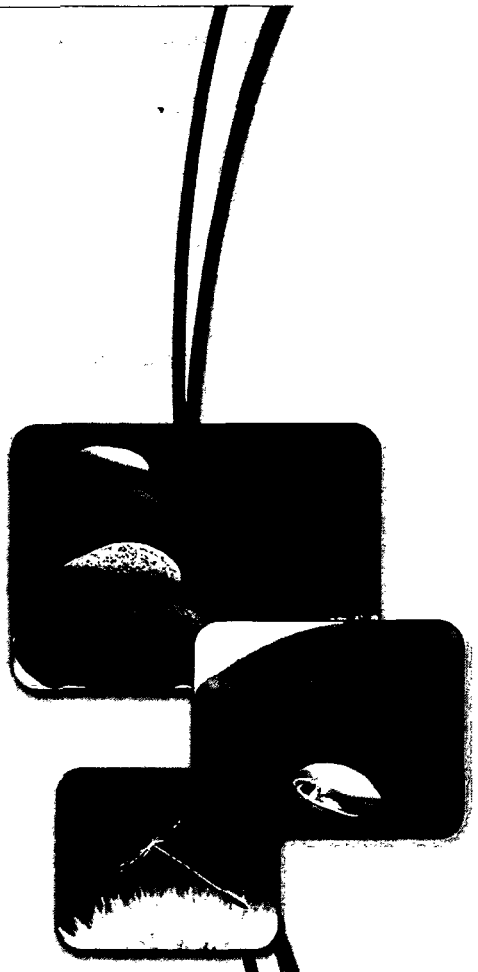
# ATTACHMENT 2

Groundwater Contour Map


MW28
B14
B15/TMW
AST FARM
SWMU 3
SWMU 1
SWMU 4
UNIT 1
UNIT 2
MW20
MW16
MW15
MW1
MW26
MW23
MW24
MW25
MW22
MW21
B3/TMW
B2/TMW
RWB
B8
RWA
MW19
MW18
MW17
MW33
MW32
B26
B25
B6
MW4
MW5
MW14
MW2
B5
B4
MW3
B1
MW27
DRY
<733.15
B16
MW13
B18
733.63'
732.5'
732'
732.38'
731.5'
731.57'
731.79'
733.13'
733.34'
733.09'
733'
N
S
E
W
MONITORING WELL
PREVIOUS MONITORING WELL
SOIL BORING
DIRECTION OF GW FLOW
CONTOUR INTERVAL = 0.5'
DATA IN FEET AMSL
FILE NAME: RIVER CITIES
PROJECT NO: 6273406
Seneca Environmental Services
SITE: RIVER CITIES INDUSTRIAL CENTER
200 EAST 90th STREET
DAVENPORT, IOWA
GROUNDWATER CONTOUR MAP
LUST NUMBER: N/A
SCALE: 1" = 100'
REVISED:
DATE: 5/27/05
REVIEWED BY: KH
DRAWN BY: RLH

# ATTACHMENT 3

Laboratory Data Sheets



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Cedar Falls
704 Enterprise Drive
Cedar Falls, IA 50613
Tel: (319)277-2401

TestAmerica Job ID: 310-14972-1
TestAmerica Sample Delivery Group: 6273406
Client Project/Site: River Cities Industrial Center

For:
Seneca Companies
7241 Gaines Street Court
Davenport, Iowa 52806

Attn: Neil Derynck

Angela Muehling

*Authorized for release by:*
*9/12/2013 4:17:15 PM*

Angela Muehling, Project Manager I
angela.muehling@testamericainc.com



*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

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Method Summary . . . . . 16
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Receipt Checklists . . . . . 19

# Case Narrative

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

## Job ID: 310-14972-1

**Laboratory: TestAmerica Cedar Falls**

**Narrative**

**Job Narrative**
**310-14972-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 9/5/2013 9:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 0.6° C.

**GC Semi VOA**
No analytical or quality issues were noted.

**Organic Prep**
No analytical or quality issues were noted.

# Sample Summary

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 310-14972-1 | MW-2 | Ground Water | 09/03/13 11:01 | 09/05/13 09:05 |
| 310-14972-2 | MW-13 | Ground Water | 09/03/13 10:50 | 09/05/13 09:05 |
| 310-14972-3 | MW-16 | Ground Water | 09/03/13 11:08 | 09/05/13 09:05 |
| 310-14972-4 | MW-18 | Ground Water | 09/03/13 11:23 | 09/05/13 09:05 |
| 310-14972-5 | MW-19 | Ground Water | 09/03/13 11:18 | 09/05/13 09:05 |
| 310-14972-6 | MW-32 | Ground Water | 09/03/13 11:30 | 09/05/13 09:05 |
| 310-14972-7 | MW-33 | Ground Water | 09/03/13 11:35 | 09/05/13 09:05 |

# Client Sample Results

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

**Client Sample ID: MW-2**
**Date Collected: 09/03/13 11:01**
**Date Received: 09/05/13 09:05**
**Sampler Name: Garrett Boelkes**

**Lab Sample ID: 310-14972-1**
**Matrix: Ground Water**
**Sampler Phone Number: 563-332-8000**

**Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)**

| Analyte | Result | Qualifier | NONE | NONE | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | <227 | | 227 | | ug/L | | | 09/06/13 10:10 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 03:46 | 1 |
| Diesel | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 03:46 | 1 |
| Waste Oil | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 03:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *87* | | *45 - 140* | *09/06/13 15:04* | *09/10/13 03:46* | *1* |

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

**Client Sample ID: MW-13**
**Date Collected: 09/03/13 10:50**
**Date Received: 09/05/13 09:05**
**Sampler Name: Garrett Boelkes**

**Lab Sample ID: 310-14972-2**
**Matrix: Ground Water**
**Sampler Phone Number: 563-332-8000**

**Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)**

| Analyte | Result | Qualifier | NONE | NONE | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | <227 | | 227 | | ug/L | | | 09/06/13 10:10 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 04:28 | 1 |
| Diesel | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 04:28 | 1 |
| Waste Oil | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 04:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *93* | | *45 - 140* | *09/06/13 15:04* | *09/10/13 04:28* | *1* |

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

**Client Sample ID: MW-16**
**Date Collected: 09/03/13 11:08**
**Date Received: 09/05/13 09:05**
**Sampler Name: Garrett Boelkes**

**Lab Sample ID: 310-14972-3**
**Matrix: Ground Water**
**Sampler Phone Number: 563-332-8000**

**Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)**

| Analyte | Result | Qualifier | NONE | NONE | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | <227 | | 227 | | ug/L | | | 09/06/13 10:10 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 05:10 | 1 |
| Diesel | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 05:10 | 1 |
| Waste Oil | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 05:10 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *81* | | *45 - 140* | *09/06/13 15:04* | *09/10/13 05:10* | *1* |

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

**Client Sample ID: MW-18**
**Date Collected: 09/03/13 11:23**
**Date Received: 09/05/13 09:05**
**Sampler Name: Garrett Boelkes**

**Lab Sample ID: 310-14972-4**
**Matrix: Ground Water**
**Sampler Phone Number: 563-332-8000**

**Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)**

| Analyte | Result | Qualifier | NONE | NONE | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | 291000 | | 2270 | | ug/L | | | 09/06/13 10:10 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline | 2930 | Z | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 05:51 | 1 |
| Diesel | 271000 | | 2270 | | ug/L | | 09/06/13 15:04 | 09/11/13 14:43 | 10 |
| Waste Oil | 17100 | Z | 2270 | | ug/L | | 09/06/13 15:04 | 09/11/13 14:43 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *110* | | *45 - 140* | *09/06/13 15:04* | *09/10/13 05:51* | *1* |

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

**Client Sample ID: MW-19**
**Date Collected: 09/03/13 11:18**
**Date Received: 09/05/13 09:05**
**Sampler Name: Garrett Boelkes**

**Lab Sample ID: 310-14972-5**
**Matrix: Ground Water**
**Sampler Phone Number: 563-332-8000**

**Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)**

| Analyte | Result | Qualifier | NONE | NONE | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | 118000 | | 2270 | | ug/L | | | 09/06/13 10:10 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline | 782 | Z | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 06:33 | 1 |
| Diesel | 90600 | | 2270 | | ug/L | | 09/06/13 15:04 | 09/11/13 14:01 | 10 |
| Waste Oil | 27000 | Z | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 06:33 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *104* | | *45 - 140* | *09/06/13 15:04* | *09/10/13 06:33* | *1* |

# Client Sample Results

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

**Client Sample ID: MW-32**
**Date Collected: 09/03/13 11:30**
**Date Received: 09/05/13 09:05**
**Sampler Name: Garrett Boelkes**

**Lab Sample ID: 310-14972-6**
**Matrix: Ground Water**
**Sampler Phone Number: 563-332-8000**

**Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)**

| Analyte | Result | Qualifier | NONE | NONE | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | <0.227 | | 0.227 | | ug/L | | | 09/06/13 10:10 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 07:14 | 1 |
| Diesel | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 07:14 | 1 |
| Waste Oil | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 07:14 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *95* | | *45 - 140* | *09/06/13 15:04* | *09/10/13 07:14* | *1* |

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

**Client Sample ID: MW-33**
**Date Collected: 09/03/13 11:35**
**Date Received: 09/05/13 09:05**
**Sampler Name: Garrett Boelkes**

**Lab Sample ID: 310-14972-7**
**Matrix: Ground Water**
**Sampler Phone Number: 563-332-8000**

**Method: OA-2 - Iowa - Extractable Petroleum Hydrocarbons (GC)**

| Analyte | Result | Qualifier | NONE | NONE | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total Extractable Hydrocarbons | <0.227 | | 0.227 | | ug/L | | | 09/06/13 10:10 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 07:55 | 1 |
| Diesel | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 07:55 | 1 |
| Waste Oil | <227 | | 227 | | ug/L | | 09/06/13 15:04 | 09/10/13 07:55 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *n-Octacosane* | *90* | | *45 - 140* | *09/06/13 15:04* | *09/10/13 07:55* | *1* |

# Lab Chronicle

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

## Client Sample ID: MW-2

**Lab Sample ID: 310-14972-1**
**Matrix: Ground Water**
**Date Collected: 09/03/13 11:01**
**Date Received: 09/05/13 09:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | OA-2 | | 1 | 24202 | 09/06/13 10:10 | EEE1 | TAL CF |
| Total/NA | Prep | 3510C | | | 24250 | 09/06/13 15:04 | ELS | TAL CF |
| Total/NA | Analysis | OA-2 | | 1 | 24357 | 09/10/13 03:46 | BKT | TAL CF |

## Client Sample ID: MW-13

**Lab Sample ID: 310-14972-2**
**Matrix: Ground Water**
**Date Collected: 09/03/13 10:50**
**Date Received: 09/05/13 09:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | OA-2 | | 1 | 24202 | 09/06/13 10:10 | EEE1 | TAL CF |
| Total/NA | Prep | 3510C | | | 24250 | 09/06/13 15:04 | ELS | TAL CF |
| Total/NA | Analysis | OA-2 | | 1 | 24357 | 09/10/13 04:28 | BKT | TAL CF |

## Client Sample ID: MW-16

**Lab Sample ID: 310-14972-3**
**Matrix: Ground Water**
**Date Collected: 09/03/13 11:08**
**Date Received: 09/05/13 09:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | OA-2 | | 1 | 24202 | 09/06/13 10:10 | EEE1 | TAL CF |
| Total/NA | Prep | 3510C | | | 24250 | 09/06/13 15:04 | ELS | TAL CF |
| Total/NA | Analysis | OA-2 | | 1 | 24357 | 09/10/13 05:10 | BKT | TAL CF |

## Client Sample ID: MW-18

**Lab Sample ID: 310-14972-4**
**Matrix: Ground Water**
**Date Collected: 09/03/13 11:23**
**Date Received: 09/05/13 09:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | OA-2 | | 1 | 24202 | 09/06/13 10:10 | EEE1 | TAL CF |
| Total/NA | Prep | 3510C | | | 24250 | 09/06/13 15:04 | ELS | TAL CF |
| Total/NA | Analysis | OA-2 | | 1 | 24357 | 09/10/13 05:51 | BKT | TAL CF |
| Total/NA | Prep | 3510C | | | 24250 | 09/06/13 15:04 | ELS | TAL CF |
| Total/NA | Analysis | OA-2 | | 10 | 24603 | 09/11/13 14:43 | BKT | TAL CF |

## Client Sample ID: MW-19

**Lab Sample ID: 310-14972-5**
**Matrix: Ground Water**
**Date Collected: 09/03/13 11:18**
**Date Received: 09/05/13 09:05**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | OA-2 | | 1 | 24202 | 09/06/13 10:10 | EEE1 | TAL CF |
| Total/NA | Prep | 3510C | | | 24250 | 09/06/13 15:04 | ELS | TAL CF |
| Total/NA | Analysis | OA-2 | | 1 | 24357 | 09/10/13 06:33 | BKT | TAL CF |
| Total/NA | Prep | 3510C | | | 24250 | 09/06/13 15:04 | ELS | TAL CF |

# Lab Chronicle

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

## Client Sample ID: MW-19

**Date Collected: 09/03/13 11:18**
**Date Received: 09/05/13 09:05**

**Lab Sample ID: 310-14972-5**
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | OA-2 | | 10 | 24603 | 09/11/13 14:01 | BKT | TAL CF |

## Client Sample ID: MW-32

**Date Collected: 09/03/13 11:30**
**Date Received: 09/05/13 09:05**

**Lab Sample ID: 310-14972-6**
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | OA-2 | | 1 | 24202 | 09/06/13 10:10 | EEE1 | TAL CF |
| Total/NA | Prep | 3510C | | | 24250 | 09/06/13 15:04 | ELS | TAL CF |
| Total/NA | Analysis | OA-2 | | 1 | 24357 | 09/10/13 07:14 | BKT | TAL CF |

## Client Sample ID: MW-33

**Date Collected: 09/03/13 11:35**
**Date Received: 09/05/13 09:05**

**Lab Sample ID: 310-14972-7**
**Matrix: Ground Water**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | OA-2 | | 1 | 24202 | 09/06/13 10:10 | EEE1 | TAL CF |
| Total/NA | Prep | 3510C | | | 24250 | 09/06/13 15:04 | ELS | TAL CF |
| Total/NA | Analysis | OA-2 | | 1 | 24357 | 09/10/13 07:55 | BKT | TAL CF |

**Laboratory References:**

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

## Qualifiers

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| Z | The chromatographic response does not resemble a typical fuel pattern. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

# Certification Summary

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

## Laboratory: TestAmerica Cedar Falls

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| AIHA | IHLAP | | 101044 | 11-01-14 |
| Illinois | NELAP | 5 | 200024 | 11-29-13 |
| Iowa | State Program | 7 | 7 | 12-01-13 |
| Kansas | NELAP | 7 | E-10341 | 01-31-14 |
| Minnesota | NELAP | 5 | 019-999-319 | 12-31-13 |
| North Dakota | State Program | 8 | R-186 | 09-29-13 * |
| Oregon | NELAP | 10 | IA100001 | 09-29-13 * |
| Wisconsin | State Program | 5 | 999917270 | 08-31-13 * |

* Expired certification is currently pending renewal and is considered valid.

# Method Summary

Client: Seneca Companies
Project/Site: River Cities Industrial Center

TestAmerica Job ID: 310-14972-1
SDG: 6273406

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| OA-2 | Iowa - Extractable Petroleum Hydrocarbons (GC) | Iowa DNR | TAL CF |

**Protocol References:**

Iowa DNR = Iowa Department of Natural Resources

**Laboratory References:**

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
704 Enterprise Drive • Cedar Falls, IA 50613
Tel 319-277-2401 • Fax 319-277-2425

# TestAmerica Sample Receipt and Cedar Falls Facility

310-14972 Chain of Custody

Client: Seneca Project: River Cities Ind. Ctr. 310501

City: _____ State: _____

Date: 9-5-13 Receiver's Initials: CH Time (Delivered): 9:05

**Temperature Record:**

Cooler ID# (If Applicable): Dayton

Uncorrected Temp: 0.6 °C

Corrected Temp: 0.6 °C

**Thermometer:**

- [X] IR "E" - 111531506
- [ ] IR "Front" - 61854108
- [ ] IR "G" - 130195822
- [ ] IR "H" - 130195853
- [ ] Other:

**Courier:**

- [X] UPS
- [ ] FedEx
- [ ] FedEx Ground
- [ ] US Postal Service
- [ ] Spee-Dee
- [ ] TA Courier
- [ ] TA Field Services
- [ ] Client
- [ ] Other: _____

- [X] Temperature blank
- [ ] Temperature out of compliance

**Coolant Record:**

- [X] Received on ice
  - [X] Wet ice
  - [ ] Blue ice
  - [ ] Dry ice
  - [ ] Other: _____
- [ ] NONE

**Exceptions Noted:**

- [ ] Sample(s) not received in cooler
- [ ] Sample(s) received same day of sampling
  - [ ] Evidence of chilling process
- [ ] Temp blank <0°C, samples NOT FROZEN
- [ ] Temp blank <0°C, samples FROZEN
- [ ] Temperature not taken: *(indicate reason)*

_____

- [ ] Non-Conformance Report Started

**Custody Seals:**

Cooler Custody Seals Present? [X] Yes [ ] No

Cooler Custody Seals Intact? [X] Yes [ ] No [ ] N/A

Sample Custody Seals Present? [ ] Yes [X] No

Sample Custody Seals Intact? [ ] Yes [ ] No [X] N/A

Document No.: CF-LG-WI-002
Revision: 20
Date: 7/31/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319 - 277 - 2401 or 1 - 800 - 750 - 2401
Fax: 319 - 277 - 2425

Company: **Seneca Environmental**
Your PO #: 287742

Send Report To: NEAL DERYNCK
Invoice To:

Address: 7241 Gaines Street Court
TA Quote #:

City/State/Zip Code: Davenport, IA 52806
Project Name: RIVER CITIES INDUSTRIAL CENTER

Telephone Number: 563-332-8000 Fax: 563-332-9465
Project Number: 6273406

Sampled by: (Print Name) GARRETT BOELKES
Project Manager: N.D

(Signature)
Proj. Man. Telephone:

Proj. Man. E-mail Address: @senecaco.com

| Sample ID | Date Sampled | Time Sampled | # of containers shipped | Grab | Composite | Field Filtered | Preservative: Ice | $HNO_3$ (Red & White Label) | HCl (Blue & White Label) | NaOH ( Orange & White Label) | $H_2SO_4$ Plastic (Yellow & White Label) | $H_2SO_4$ Glass(Yellow & White Label) | None (Black & White Label) | Other ( Specify) | Matrix: Groundwater | Wastewater | Drinking Water | Sludge | Soil | Other Specify: | Analyze For: OA-1 w/MTBE (GCMS) | OA-1 (GC) | OA-2 | Lead | PNAs | RUSH TAT (Must call ahead!) | Standard TAT | Fax Results | E-mail Results | Send QC with report |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW2 | 09-03-13 | 11:01A | | X | | | X | | | | | | | | X | | | | | | | | X | | | | | | | |
| MW13 | | 10:50A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW16 | | 11:08A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW18 | | 11:23A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW19 | | 11:18A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW32 | | 11:30A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW33 | | 11:35A | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

NOTE: All turn around times are calculated from the time of receipt at TestAmeric.
***NOTICE:* Pre-Arrangements must be made *AT LEAST 48 Hours in ADVANCE* to receive results with RUSH turn around time commitments; *additional charges* may be assessed.**
NOTE: There may be a charge assessed for TestAmerica disposing of sample remainder

NOTES:

| Relinquished by | Date | Time | Received by | Date | Time | Relinquished by | Date | Time |
|---|---|---|---|---|---|---|---|---|
| | 09-03-13 | 12:25P | Tony Edelen | 9/4 | 11:35 | Tony Edelen | 9/4 | 1530 |
| Shipped Via: | | | Comments: | | | Shipped Via: | | |
| Received for TestAmerica by | Date | Time | Temperature Upon Receipt | | | Laboratory Comments | | |
| | 9/5/13 | 905 | | | | | | |


9/12/2013

10 6 8 2 6 5 4 1

# Login Sample Receipt Checklist

Client: Seneca Companies

Job Number: 310-14972-1
SDG Number: 6273406

**Login Number: 14972**
**List Number: 1**
**Creator: Facciani, Melene K.**

**List Source: TestAmerica Cedar Falls**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |