



December 1, 2017

Dee Lance
Department of Natural Resources
473 Griffith Avenue
Wisconsin Rapids, WI 54494

Re: Status Report, Remediation System O&M Report
Monroe Center Store, 999 CTH Z, Arsdale, WI
BRRTS# 03-01-175845, PECFA # 54613-9736-99-A

Dear Dee:

This report summarizes the activities at the site listed above from May 12, 2017 through November 17, 2017.

Timeline of activities since the May 12, 2017 Startup Report:

- MSA submitted a change order request to the DNR from SGS for installation of a new vacuum gauge on May 1, 2017. This change order was approved by DNR on May 4, 2017.
- SGS (the system contractor) returned to the site on May 18, 2017 to complete the system construction, including installation of a new vacuum gauge as approved by DNR. On this date they replaced the vacuum gauge, regraded the site and planted grass, poured a concrete pad for well AS-2, cleaned up spilled concrete and other debris left from the Fall 2017 construction, and repaired the box around the system valving which had been damaged by water.
- MSA approved final payment for system construction to SGS on June 7, 2017.
- In July 2017 we received a call from the owner of the adjacent property regarding high odors from the system reported to the owner by the renter for the property. On August 3, 2017 DNR approved a change order to straighten out and extend the discharge piping to a height of 18 feet to get the odors higher above the ground surface.
- SGS Environmental Contracting performed the change order to extend the piping on August 11, 2017.
- Groundwater samples were collected from the monitoring wells on August 30, 2017. A water sample was also collected from the water supply well at 1906 Blackhawk Avenue. MSA attempted to collect a sample from the water supply well at 999 CTH Z (the source property), by connecting power from the pump in the water supply well to a generator, and also to the remediation trailer. Both connections tripped without starting the pump, indicating some problem with the pump in the well. Therefore, a sample was not collected from the source property water supply well.
- In October, it was determined that the system benzene discharge was approaching the annual limit. Based on conversations with you, it was determined that the most cost effective solution was to raise the system discharge stack height further, over 25 feet, as the discharge limits are higher for stacks exceeding 25 feet in height from the ground surface. On November 2, MSA submitted a change order request for the cost of this work. The DNR approved the change order on November 3, 2017. SGS performed the work on November 9, 2017, extending the stack height over 25 feet from the

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Dee Lance, DNR
December 1, 2017

ground surface. A photo documenting the current trailer and discharge stack configuration is attached.

- Monthly system checks have been performed throughout this period.

System Operation and Monitoring Data

Attached are two tables outlining the operation and monitoring data collected from the first day of startup on March 29th through November 17, 2017. The tables outline the operating parameters for the system, along with the SVE wells in operation and vacuums measured at monitoring wells at the site.

Monthly system check visits are performed to evaluate system performance, measure discharge concentrations, and perform routine maintenance as needed. Initial total VOC discharge concentrations exceeded 3 pounds of VOCs per hour, but gradually decreased through mid-Summer. In July the entire SVE system and air sparge system was started up at the site. VOC discharge concentrations increased to over 1 pound per hour, but have gradually decreased to 0.374 pounds per hour as of the November 17, 2017 system visit.

A vacuum is consistently detected at all of the monitoring wells at the site, including monitoring well MW-6 located west of the house at 1906 Blackhawk Avenue. This indicates there is a very large range of influence of the system.

We will continue to monitor for the presence of free product at the site. No free product has been detected at the site this year, primarily due to a high water table at the site.

Air discharge samples were collected on carbon and analyzed for benzene concentration on July 18, 2017 and September 17, 2017. The laboratory results are attached. Based on discharge concentrations, approximately 268 pounds of benzene have been discharged at the site through November 17, 2017. The total VOC concentration is measured onsite with a PID, and based on discharge measurements, approximately 5,618 pounds of VOCs have been discharged by the system through November 17, 2017. These concentrations are within DNR regulatory air discharge limits. The next benzene air sample will be collected in December.

MSA will continue with monthly system visits until March 2018 to measure discharge concentrations, perform system maintenance, and modify system operation. After the March 2018 system check, system performance will be evaluated and a report will be prepared and submitted to you. The evaluation will include a determination of whether the system performance at that point warrants continued operation, or whether the system can be shut down to begin to evaluate natural attenuation of the remaining contamination at the site. A groundwater sample round will be collected in March 2018, and those results will be included in the evaluation.

Please contact me with any questions or if you need additional information.

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Dee Lance, DNR
December 1, 2017

Sincerely,

MSA Professional Services, Inc.

A handwritten signature in black ink that reads "Jayne A. Englebert". The signature is written in a cursive style with a large, prominent 'J' and 'E'.

Jayne A. Englebert, P.G.
Senior Hydrogeologist

Enc.

Cc: Patricia Hennessy, representative for the Estate of James Crosse, Jr.
Carla Plantz, owner, 1906 Blackhawk Avenue
Richard Lyster, MSA

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 724.13(3), Wis. Adm. Code. A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Failure to submit this form as required is a violation of s. NR 724.13(3), Wis. Adm. Code, and is subject to the penalties in s. 292.99, Wis. Stats. This form must be submitted every six months for soil or groundwater remediation projects that report operation and maintenance progress in accordance with s. NR 724.13(3), Wis. Adm. Code.

Note: Long-term monitoring results submitted in accordance with s. NR 724.17(3), Wis. Adm. Code are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with s. NR 724.17(3), Wis. Adm. Code.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent State lead Superfund response.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and obtain prior written approval for any omissions or changes.

Submittal of this form is not a substitute for reporting required by Department programs such as Waste Water or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.). Unless otherwise noted, all citations refer to Wisconsin Administrative Code.

Note: There is a separate semi-annual report required under s. NR 700.11(1), Wis. Adm. Code. Reporting under that provision is through an internet-based form:

<http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf>

Section GI - General Site Information

A. General Information

1. Site name

Monroe Center Store

2. Reporting period from: 04/22/2017 To: 11/17/2017 Days in period: 209

3. Regulatory agency (enter DNR, DATCP and/or other) DNR 4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific) 03-01-175845

5. Site location

| | | |
|--|------------------|---|
| Region West Central Region | County Adams | Address 999 CTH Z |
| Municipality name <input type="radio"/> City <input checked="" type="radio"/> Town <input type="radio"/> Village Monroe | Township 19 N | Range <input checked="" type="radio"/> E <input type="radio"/> W 5 |
| | Section 18 | ¼ SE ¼ SE |

6. Responsible party

Name
Estate of James Crosse Jr.

Mailing address
11037 Eaton Street, Westchester, IL 60154

Phone number
(708) 712-1858

7. Consultant

Select if the following information has changed since the last submittal

Company name
MSA Professional Services, Inc.

Mailing address
1230 South Blvd., Baraboo, WI 53913

Phone number
(608) 355-8860

8. Contaminants

gasoline

9. Soil types (USCS or USDA)

SP, SM, CL

10. Hydraulic conductivity(cm/sec):

11. Average linear velocity of groundwater (ft/yr)

12. If soil is treated ex situ, is the treatment location off site? Yes No

If yes, give location: Region

County

| | | | | | |
|---|---------------|--|---------|---|-----|
| Municipality name <input type="radio"/> City <input type="radio"/> Town <input type="radio"/> Village | Township N | Range <input type="radio"/> E <input checked="" type="radio"/> W | Section | ¼ | ¼ ¼ |
|---|---------------|--|---------|---|-----|

Site name: Monroe Center Store
Reporting period from: 04/22/2017 To: 11/17/2017
Days in period: 209

B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- Groundwater extraction (submit a completed Section GW-1).
- Free product recovery (submit a completed Section GW-1).
- In situ air sparging (submit a completed Section GW-2).
- Groundwater natural attenuation (submit a completed Section GW-3).
- Other groundwater remediation method (submit a completed Section GW-4).
- Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- Soil natural attenuation (submit a completed Section IS-2).
- Other in situ soil remediation method (submit a completed Section IS-3).
- Biopiles (submit a completed Section ES-1).
- Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- Other ex situ remediation method (submit a completed Section ES-3).
- Site is a landfill (submit a completed Section LF-1).

C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attenuation), complete this subsection.

1. Is the system operating at design rates and specifications? Yes No
If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

2. Are modifications to the system warranted to improve effectiveness Yes No
If yes, explain:

3. Is natural attenuation an effective low cost option at this time? Yes No
4. Is closure sampling warranted at this time? Yes No
5. Are there any modifications that can be made to the remediation to improve cost effectiveness? Yes No
If yes, explain:

D. Economic and Cost Data to Date

1. Total investigation cost: _____
2. Implementation costs (design, capital and installation costs, excluding investigation costs): _____
3. Total costs during the previous reporting period: _____
4. Total costs during this reporting period: _____
5. Total anticipated costs for the next reporting period: _____
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? Yes No
If yes, explain:

7. If closure is anticipated within 12 months, estimated costs for project closeout: _____

Site name: Monroe Center Store

Reporting period from: 04/22/2017

To: 11/17/2017

Days in period: 209

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 11/14)

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E. Name(s), Signature(s) and Date of Person(s) Submitting Form

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.

Registered Professional Engineers:

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

| | |
|------------|-------|
| Print name | Title |
| Signature | Date |

Hydrogeologists:

I hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

| | |
|-------------------------------------|--------------------------------|
| Print name Jayne Engleburt | Title Senior Hydrogeologist |
| Signature <i>Jayne Engleburt</i> | Date 11-30-2017 |

Scientists:

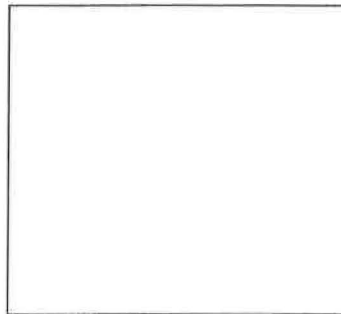
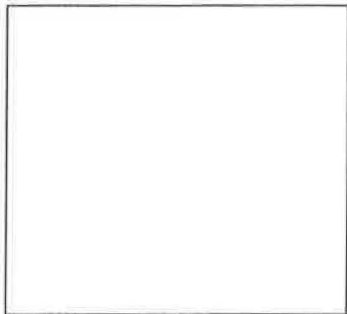
I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

| | |
|------------|-------|
| Print name | Title |
| Signature | Date |

Other Persons:

| | |
|------------|-------|
| Print name | Title |
| Signature | Date |

Professional Seal(s), if applicable:



Site name: Monroe Center Store
Reporting period from: 04/22/2017 To: 11/17/2017
Days in period: 209

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 11/14)

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Section GW-2, In Situ Air Sparging Systems

A. In Situ Air Sparging System Operation

1. Number of air injection wells at the site and the number actually in use during the period: 6
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
189.7
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
90.94%

B. System Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in B.1.a.
 - a. Contaminant: benzene
 - b. Percent reduction necessary to reach ch. NR 140 ES and PAL: 94 %
 - c. Maximum contaminant concentration level in any monitoring well: 810 $\mu\text{g/L}$
2. Is there any evidence that air is short circuiting through natural or man-made pathways? Yes No
If yes, explain:
3. Is the size of the plume: Increasing Stabalized Decreasing ?
If increasing, explain:

C. Additional Attachments

Attach the following to this form:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Site map with all air injection wells and groundwater monitoring points.
- Graph of contaminant concentrations versus time for the contaminant listed in B.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

Site name: Monroe Center Store
Reporting period from: 04/22/2017 To: 11/17/2017
Days in period: 209

Section IS-1, Soil Venting (Including Soil Vapor Extraction, Building Venting and Bioventing)

A. Soil Venting Operation

Note: This form is not required for building vapor mitigation systems that are installed proactively to protect building occupants/users and are not considered part of ongoing active soil remediation.

1. Number of air extraction wells available and number of wells actually in use during the period: 10
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
189.7
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
90.94%
4. Average depth to groundwater: 15 gpm

B. Building Basement/Subslab Venting System Operation

1. Number of venting points available and number of points actually in use during the period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain): _____
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain: _____

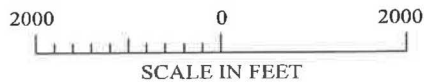
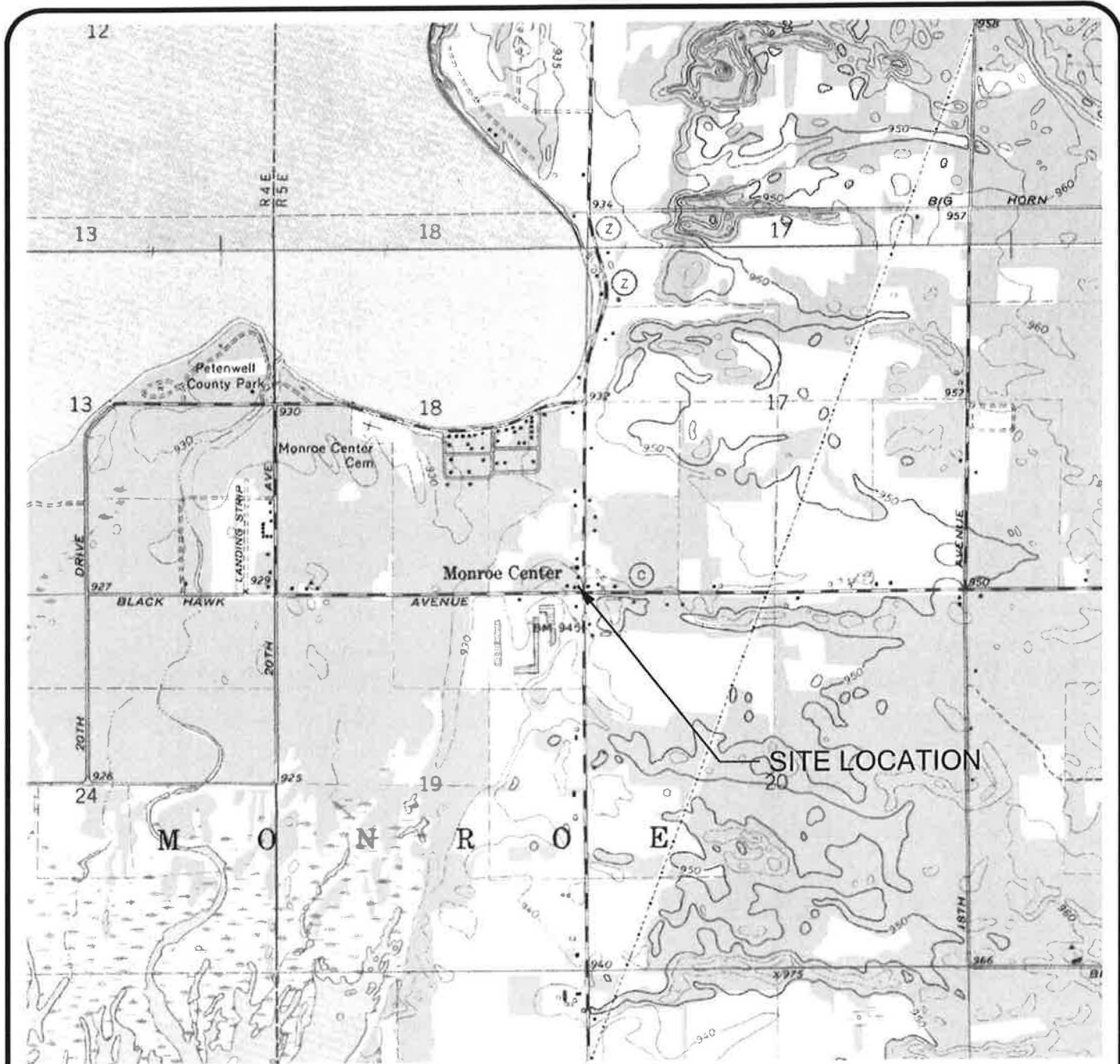
C. Effectiveness Evaluation

1. Average contaminant removal rate for the entire system: 8.97 pounds per day
2. Average contaminant removal rate per well or venting point: 0.897 pounds per day
3. If the average contaminant removal rate is less than one pound per day for the entire system, or if the average contaminant removal rate per well is less than one tenth of a pound per day, evaluate the following:
 - a. If contaminants are aerobically biodegradable and confirmation borings have not been drilled in the past year:
 - i. Oxygen levels in extracted air: _____ percent
 - ii. Methane levels in extracted air (ppmv) If over 10 ppmv, explain: _____
 - iii. If methane is not present above 10 ppmv and if oxygen is greater than 20 percent in extracted air, you should either:
 - o Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
 - o Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.
 - b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.
 - c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

D. Additional Attachments

Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells.
- If water table monitoring wells are present at the site, a map of well locations.
- Time versus vapor phase contaminant concentration graph.
- Time versus cumulative contaminant removal graph.
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations.
- Table of soil contaminant chemistry data.
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted.
- System operational data table.



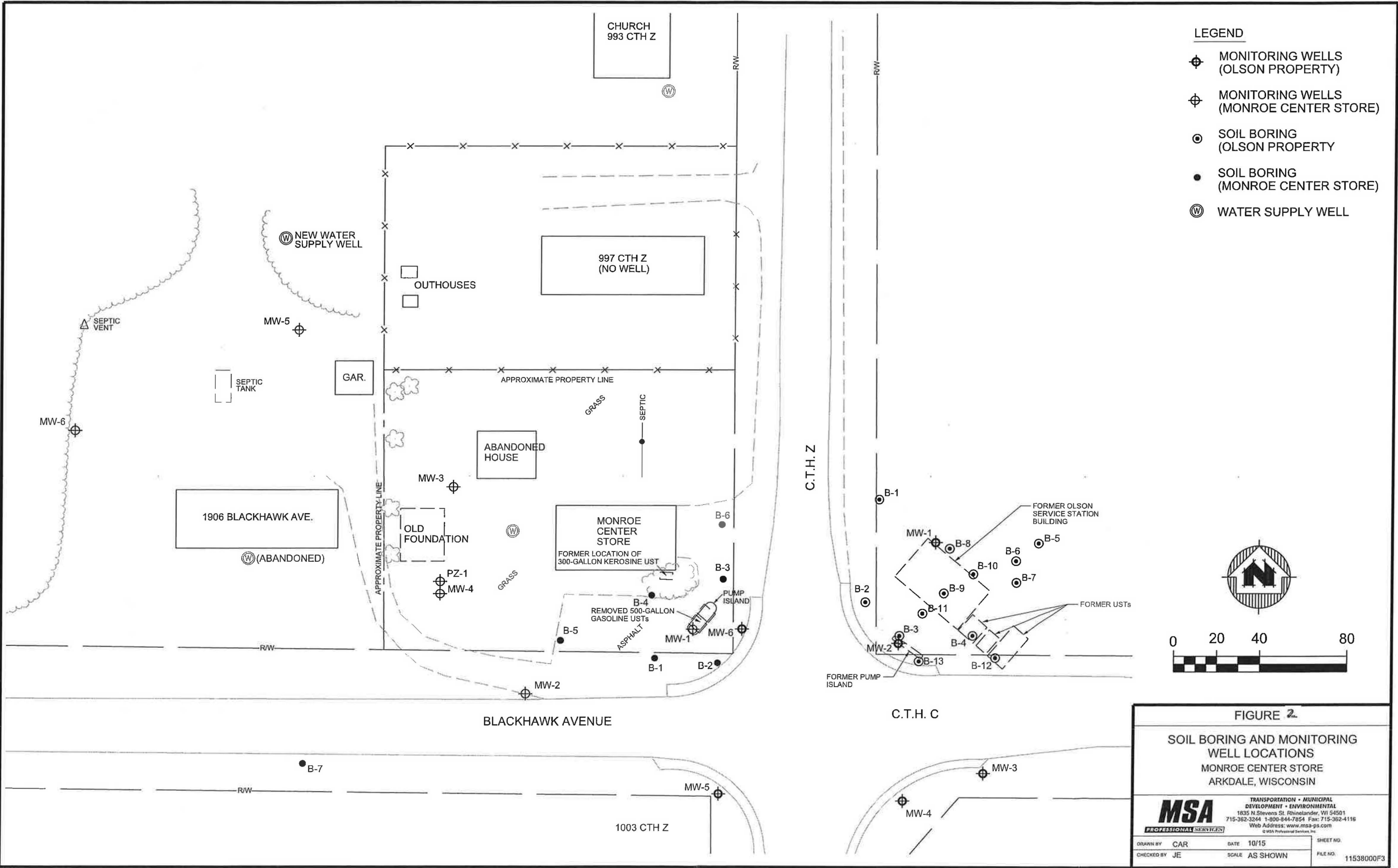
Arkdale & Arkdale NW Quadrangle
 Wisconsin - Adams County
 7.5 Minute Series (Topographic)

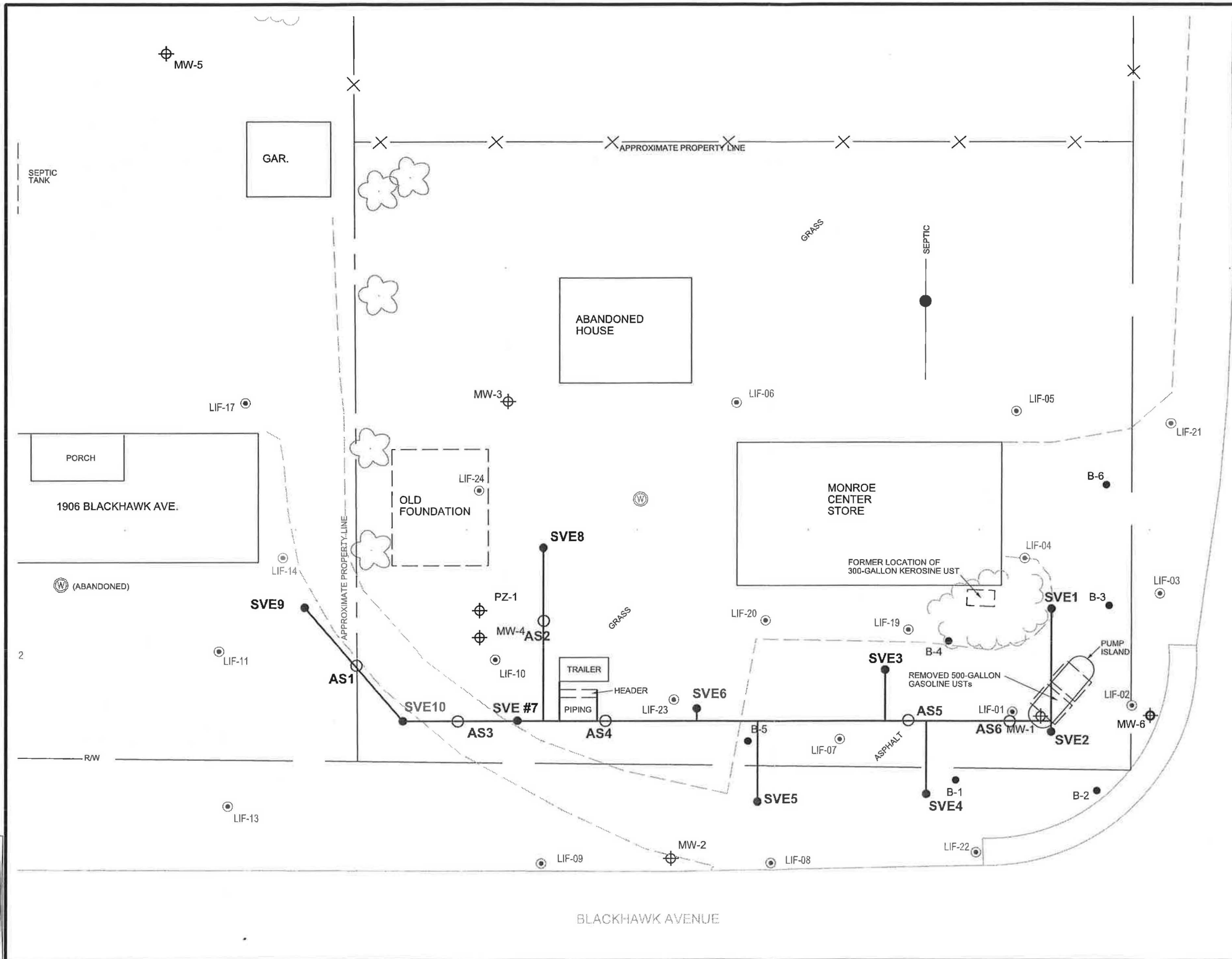
Contour Interval 10 Feet
 1967, 1969
 PhotoRevised 1985

FIGURE 1
 SITE LOCATION MAP
 Monroe Center Store
 Intersection of CTH C & Z
 Town of Monroe, Adams County, WI



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LEGEND

- ⊕ MONITORING WELLS (OLSON PROPERTY)
- ⊕ MONITORING WELLS (MONROE CENTER STORE)
- ⊙ SOIL BORING (OLSON PROPERTY)
- SOIL BORING (MONROE CENTER STORE)
- Ⓜ WATER SUPPLY WELL
- ⊙ LASER INDUCED FLUORESCENCE BORING
- SVE WELL LOCATION
- AS WELL LOCATION

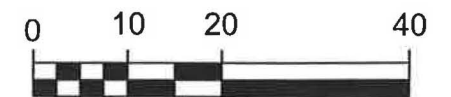


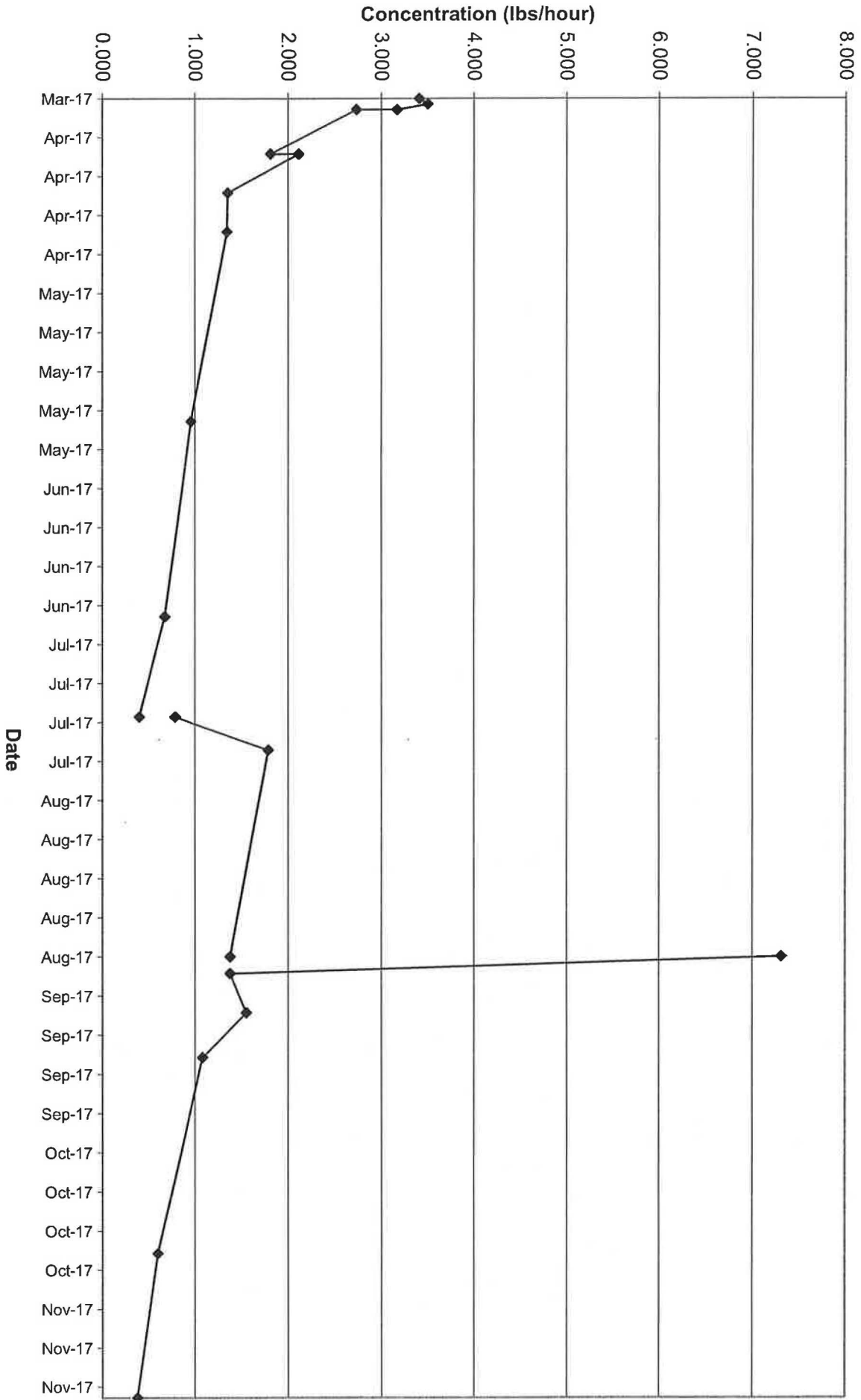
FIGURE 3

**SVE and AS Well Layout
MONROE CENTER STORE
TOWN OF MONROE, WISCONSIN**

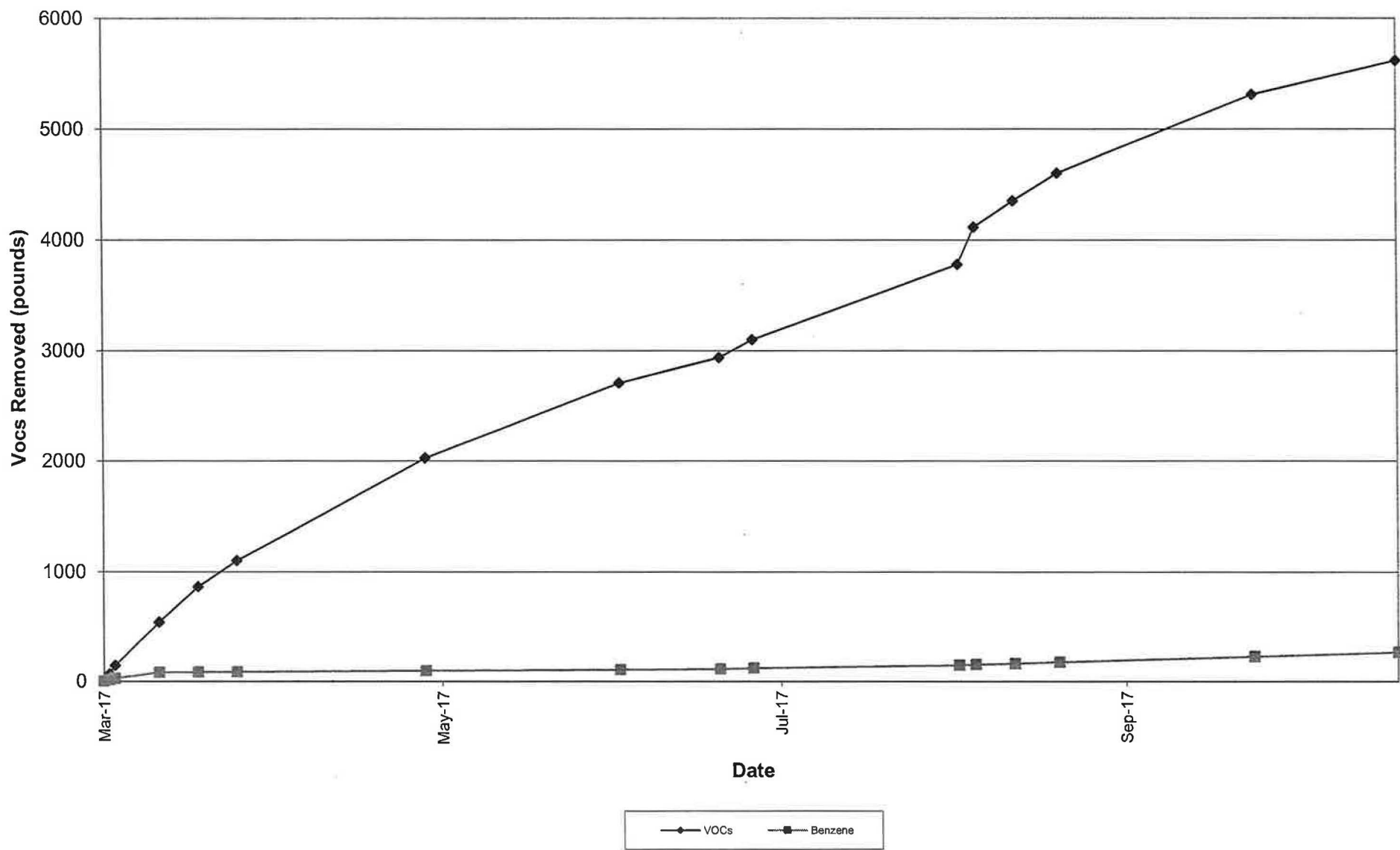
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| | | |
|------------------|-------------------|----------------------------|
| DRAWN BY CAR | DATE 1/2017 | SHEET NO. |
| CHECKED BY JE | SCALE AS SHOWN | FILE NO. 11538000 F3 |

**Discharge Rate vs. Time
Monroe Center Store, Arkdale, WI**



Cumulative VOCs Removed vs. Time Monroe Center STroe, Arkdale, WI



Vacuum Measurements During Remediation System Operation
Monroe Center Store, 999 CTH Z, Arsdale, WI

| Date | 3/29/2017 | 3/29/2017 | 3/29/2017 | 3/30/2017 | 3/31/2017 | 3/31/2017 | 4/8/2017 | 4/8/2017 | 4/15/2017 | 4/20/2017 | 5/26/2017 | 7/18/2017 | 8/30/2017 | 9/17/2017 | 11/17/2017 |
|------------------------|-------------|--------------|--------------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| Description | Pre-Startup | Post-Startup | Post-Startup | 2nd Day | 3rd Day | 3rd Day | 2nd Wk | 2nd Wk | 3rd Wk | 4th Wk | Monthly | Monthly | Monthly | Monthly | Monthly |
| SVE Wells In Operation | None | 1, 2 | 1,2,4 | 1,2,4 | 1,2,4 | 1,2,3,4,5 | 1,2,3,4,5 | 1,2,4,9 | 1,2,4,9 | 1,2,4,9 | 1,2,4,9 | 1,2,4,9 | All | All | All |
| Dilution CFM | 0 | 0 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |

Vacuum Measurement (in inches of water)

| | | | | | | | | | | | | | | | |
|------------|---------|------|-----|-------|-------|-----|-------|--|-------|-------|-------|--------|-------|------|-------|
| MW-1 | 0 | | -21 | -21.5 | -21.5 | -18 | -20 | | -19.5 | -19.5 | -22.5 | -18.75 | -4.5 | -3 | -10 |
| MW-2 | 0 | -7.5 | | -8.0 | -8.0 | | -13 | | -8.5 | -9.0 | -8.5 | -6.5 | -10.5 | -10 | -8.5 |
| MW-3 | +0-0.01 | | | -3.5 | -3.0 | | -4.5 | | -5.0 | -6.0 | -5.5 | -4 | -5.5 | -5.5 | -5.5 |
| MW-4 | 0 | -5.0 | | -6.0 | -6.0 | | -7.5 | | -8.5 | -8.5 | -8 | -6 | -11 | -11 | -10 |
| MW-5 | 0 | | | -1.0 | -1.0 | | -0.5 | | -1.0 | -1.5 | -1 | -0.75 | -1 | -1 | -1 |
| MW-6 | 0 | | | -0.5 | -1.0 | | -0.5 | | -0.5 | -1.0 | -1 | -0.5 | -0.75 | -0.5 | -0.05 |
| Olson MW-5 | 0 | -7.0 | | -6.0 | -6.5 | | -7.5 | | -7.0 | -7.0 | -6.5 | -5.25 | -4 | -4 | -3.5 |
| Olson MW-6 | 0 | -20 | -15 | -13.5 | -12.5 | -10 | -13.5 | | -11.5 | -12.5 | -11.5 | -10.5 | -7 | -7 | -6 |

Depth to Groundwater (in feet below top of casing)

| | | | | | | | | | | | | | | | |
|------------|-------|--|--|--|--|--|--|--|--|--|-------|--|-------|--|--|
| MW-1 | 15.02 | | | | | | | | | | 13.59 | | 13.13 | | |
| MW-2 | 19.00 | | | | | | | | | | 16.64 | | 18.09 | | |
| MW-3 | 23.14 | | | | | | | | | | | | 23.3 | | |
| MW-4 | 20.01 | | | | | | | | | | 18.73 | | 20.04 | | |
| MW-5 | 22.88 | | | | | | | | | | | | 23.02 | | |
| MW-6 | 17.22 | | | | | | | | | | | | 17.34 | | |
| Olson MW-5 | 16.68 | | | | | | | | | | | | 16.86 | | |
| Olson MW-6 | 15.65 | | | | | | | | | | | | 15.73 | | |

Free Product Thickness (in feet)

| | | | | | | | | | | | | | | | |
|------------|---|--|--|--|--|--|--|--|--|--|---|--|---|--|--|
| MW-1 | 0 | | | | | | | | | | 0 | | 0 | | |
| MW-2 | 0 | | | | | | | | | | 0 | | 0 | | |
| MW-3 | 0 | | | | | | | | | | | | 0 | | |
| MW-4 | 0 | | | | | | | | | | 0 | | 0 | | |
| MW-5 | 0 | | | | | | | | | | | | 0 | | |
| MW-6 | 0 | | | | | | | | | | | | 0 | | |
| Olson MW-5 | 0 | | | | | | | | | | | | 0 | | |
| Olson MW-6 | 0 | | | | | | | | | | | | 0 | | |

Laboratory Results - Groundwater (VOCs)
Monroe Center Store, Arkdale, WI

| | Benzene | Toluene | Ethyl- benzene | Total Tri- methyl- benzenes | Total Xylenes | Methyl- tert- butyl-ether | Naph- thalene | 1,2-Dichloro- ethane | 1,2-Dibromo- ethane | Dissolved Lead | Free Product Thickness | Groundwater Elevation in site datum |
|-------------|------------------------------|--------------|-------------------|-----------------------------------|------------------|------------------------------|------------------|-------------------------|------------------------|-------------------|---------------------------|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | feet | feet |
| NR 140 ES | 5 | 800 | 700 | 480 | 2000 | 60 | 100 | 5 | 0.05 | 15 | | |
| NR 140 PAL | 0.5 | 160 | 140 | 96 | 400 | 12 | 10 | 0.5 | 0.005 | 1.5 | | |
| MW-1 | TOC = 101.01 feet site datum | | | | | | | | | | | |
| 31-Jul-12 | 1100 | 14000 | 5800 | 12200 | 23800 | <200 | 5100 | <150 | <150 | 9.6 | 0.63 | 84.56 |
| 8-Aug-12 | no sample | | | | | | | | | | 0.35 | 84.63 |
| 14-Sep-12 | no sample | | | | | | | | | | 0.26 | 84.51 |
| 9-Jul-14 | 500 | 3200 | 1800 | 3350 | 9200 | <10 | 790 | <10 | <20 | | 0.07 | 85.79 |
| 6-Oct-14 | 760 | 5200 | 2500 | 4500 | 15000 | <80 | 1000 | | | | 0.18 | 85.63 |
| 30-Aug-17 | 19 | 12 | 28 | 311 | 224 | <0.30 | 43 | | | | 0 | |
| MW-2 | TOC = 103.78 feet site datum | | | | | | | | | | | |
| 31-Jul-12 | 1200 | 8000 | 2400 | 2060 | 9500 | <0.40 | 510 | <0.30 | <0.30 | 25 | 0 | 84.92 |
| 8-Aug-12 | no sample | | | | | | | | | | 0 | 84.78 |
| 9-Jul-14 | 1100 | 10000 | 2600 | 3180 | 10600 | <10 | 820 | <10 | <20 | | 0.59 | 85.19 |
| 6-Oct-14 | 200 | 2600 | 930 | 1250 | 3800 | <40 | 310 | | | | 0.47 | 85.23 |
| 30-Aug-17 | 810 | 10000 | 2900 | 3670 | 12500 | <75 | 670 | | | | 0 | 85.69 |
| MW-3 | TOC = 108.80 feet site datum | | | | | | | | | | | |
| 31-Jul-12 | 67 | 3.2 | 15 | 5.9 | 26.9 | <0.40 | 11 | 2.3 | <0.30 | 3.2 | 0 | 84.83 |
| 8-Aug-12 | no sample | | | | | | | | | | 0 | 84.71 |
| 9-Jul-14 | 22 | 1.5 | 1.3 | <1.10 | 5.8 | 0.55 | 0.68 | 0.84 | <0.40 | | 0 | 85.59 |
| 6-Oct-14 | 61 | <0.50 | <0.50 | <1.10 | 2.0 | 1.2 | 4.7 | | | | 0 | 85.55 |
| 30-Aug-17 | <0.24 | <0.30 | <0.30 | <0.80 | <0.90 | <0.30 | <0.70 | | | | 0 | 85.50 |
| MW-4 | TOC = 105.69 feet site datum | | | | | | | | | | | |
| 31-Jul-12 | 61 | 740 | 240 | 348 | 1120 | <0.40 | 64 | <0.30 | 0.46 | 3.7 | 0.11 | 84.72 |
| 8-Aug-12 | no sample | | | | | | | | | | 0.10 | 84.60 |
| 14-Sep-12 | no sample | | | | | | | | | | 0.53 | 84.08 |
| 9-Jul-14 | 870 | 12000 | 1200 | 2270 | 5500 | <10 | 360 | <10 | <20 | | 0.00 | 85.58 |
| 6-Oct-14 | 890 | 5800 | 1000 | 2390 | 5800 | <8.0 | 420 | | | | 0.02 | 85.53 |
| 30-Aug-17 | 510 | 2000 | 200 | 450 | 1410 | 3.6 | 74 | | | | 0.00 | 85.65 |
| PZ-1 | TOC = 105.78 feet site datum | | | | | | | | | | | |
| 31-Jul-12 | <0.30 | 4.2 | 1.2 | 0.83 | 5.0 | <0.40 | <0.30 | <0.30 | <0.30 | 3.1 | 0 | 84.84 |
| 8-Aug-12 | no sample | | | | | | | | | | 0 | 84.70 |
| 9-Jul-14 | <0.25 | <0.50 | <0.50 | <1.10 | <1.50 | <0.20 | <0.50 | <0.20 | <0.40 | | 0 | 85.60 |
| 6-Oct-14 | <0.50 | <0.50 | <0.50 | <1.10 | <1.50 | <0.40 | <1.2 | | | | 0 | 85.56 |
| 30-Aug-17 | <0.24 | 0.36 | <0.30 | 3.18 | 1.87 | <0.30 | 0.75 | | | | 0 | 85.47 |
| MW-5 | TOC = 108.26 feet site datum | | | | | | | | | | | |
| 9-Jul-14 | <0.25 | <0.50 | <0.50 | <1.10 | <1.50 | <0.20 | <0.50 | <0.20 | <0.40 | | 0 | 85.37 |
| 6-Oct-14 | <0.50 | <0.50 | <0.50 | <1.10 | <1.50 | <0.40 | <1.2 | | | | 0 | 85.36 |
| 30-Aug-17 | <0.24 | <0.30 | <0.30 | <0.80 | <0.90 | <0.30 | <0.70 | | | | 0 | 85.24 |

Laboratory Results - Groundwater (VOCs)
Monroe Center Store, Arkdale, WI

| | Benzene | Toluene | Ethyl-benzene | Total Tri-methyl-benzenes | Total Xylenes | Methyl-tert-butyl-ether | Naphthalene | 1,2-Dichloroethane | 1,2-Dibromoethane | Dissolved Lead | Free Product Thickness | Groundwater Elevation in site datum |
|----------------------------|---|------------|---------------|---------------------------|---------------|-------------------------|-------------|--------------------|-------------------|----------------|------------------------|-------------------------------------|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | feet | feet |
| NR 140 ES | 5 | 800 | 700 | 480 | 2000 | 60 | 100 | 5 | 0.05 | 15 | | |
| NR 140 PAL | 0.5 | 160 | 140 | 96 | 400 | 12 | 10 | 0.5 | 0.005 | 1.5 | | |
| MW-6 | TOC = 102.38 feet site datum | | | | | | | | | | | |
| 9-Jul-14 | 420 | 42 | 400 | 307 | 1310 | 1.9 | 66 | 1.1 | <0.40 | | 0 | 85.20 |
| 6-Oct-14 | 1300 | 39 | 1300 | 970 | 5100 | <4.0 | 250 | | | | 0 | 85.21 |
| 30-Aug-17 | 18 | 0.31 | 22 | 8.9 | 16.6 | <0.30 | 9.6 | | | | 0 | 85.04 |
| B-7 | | | | | | | | | | | | |
| 12-Jun-14 | <0.25 | <0.50 | <0.50 | <1.10 | <1.50 | <0.20 | <0.50 | <0.20 | <0.40 | | 0 | |
| Olson MW-2 | TOC = 101.35 feet site datum | | | | | | | | | | | |
| 9-Jul-14 | no sample | | | | | | | | | | 0 | 86.06 |
| Olson MW-5 | TOC = 102.75 feet site datum | | | | | | | | | | | |
| 16-Nov-11 | <0.41 | <0.67 | <0.54 | <1.8 | <2.63 | <0.61 | 0.11 | | | 2.0 | 0 | |
| 15-Mar-12 | <0.39 | <0.42 | <0.41 | <0.83 | <1.3 | <0.38 | <0.40 | | | <1.7 | 0 | |
| 27-Jun-12 | <0.39 | <0.42 | <0.41 | <0.83 | <1.3 | <0.38 | <0.40 | | | 2.5 | 0 | |
| 27-Sep-12 | 0.40 | <0.42 | <0.41 | <0.83 | <1.3 | <0.61 | <0.40 | | | | 0 | |
| 9-Jul-14 | no sample | | | | | | | | | | 0 | 85.96 |
| 30-Aug-17 | no sample | | | | | | | | | | 0 | 85.89 |
| Olson MW-6 | TOC = 101.65 feet site datum | | | | | | | | | | | |
| 16-Nov-11 | 74.7 | 240 | 47 | 33.1 | 227.9 | <0.61 | 2.6 | | | 1.6 | | |
| 15-Mar-12 | 150 | 935 | 288 | 165.7 | 969 | 5.1 | 25.4 | | | <1.7 | | |
| 31-Jul-12 | no sample | | | | | | | | | | 0 | 85.13 |
| 9-Jul-14 | no sample | | | | | | | | | | 0 | 85.88 |
| 30-Aug-17 | 14 | 7.2 | 100 | 153 | 108 | <0.30 | 53 | | | | 0 | 85.92 |
| Onsite Water Well | | | | | | | | | | | | |
| 31-Jul-12 | <0.30 | <0.30 | <0.30 | <0.80 | <0.90 | <0.40 | <0.30 | <0.30 | <0.30 | | | |
| 9-Jul-14 | No access for sampling | | | | | | | | | | | |
| 6-Oct-14 | No access for sampling | | | | | | | | | | | |
| 30-Aug-17 | Attempted to collect sample, circuit breaker kept tripping, pump not working... | | | | | | | | | | | |
| 1906 Blackhawk Ave. | | | | | | | | | | | | |
| 11-Jan-11 | 67 | 100 | 8 | 26 | 106 | 1.9 | 11 | 0.15 | <0.15 | | | |
| 31-Jul-12 | <0.30 | <0.30 | <0.30 | <0.80 | <0.90 | <0.40 | <0.30 | <0.30 | <0.30 | | | |
| 9-Jul-14 | No power to well | | | | | | | | | | | |
| 6-Oct-14 | <0.25 | <0.50 | <0.50 | <1.10 | <1.50 | <0.20 | <0.50 | <0.20 | <0.40 | | | |
| 30-Aug-17 | <0.24 | <0.30 | <0.30 | <0.80 | <0.90 | <0.30 | <0.70 | | | | | |

Laboratory Results - Groundwater (VOCs)
Monroe Center Store, Arkdale, WI

| | Benzene | Toluene | Ethyl- benzene | Total Tri- methyl- benzenes | Total Xylenes | Methyl- tert- butyl-ether | Naph- thalene | 1,2-Dichloro- ethane | 1,2-Dibromo- ethane | Dissolved Lead | Free Product Thickness | Groundwater Elevation in site datum |
|--------------------------------|---------|---------|-------------------|-----------------------------------|------------------|------------------------------|------------------|-------------------------|------------------------|-------------------|---------------------------|---|
| Units | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | ug/L | feet | feet |
| NR 140 ES | 5 | 800 | 700 | 480 | 2000 | 60 | 100 | 5 | 0.05 | 15 | | |
| NR 140 PAL | 0.5 | 160 | 140 | 96 | 400 | 12 | 10 | 0.5 | 0.005 | 1.5 | | |
| 1896 CTH C 15-Feb-11 | <0.15 | <0.15 | <0.15 | <0.30 | <0.30 | <0.15 | <0.15 | <0.15 | <0.15 | | | |

Blank = not analyzed

Bold Values exceed the NR 140 enforcement standard

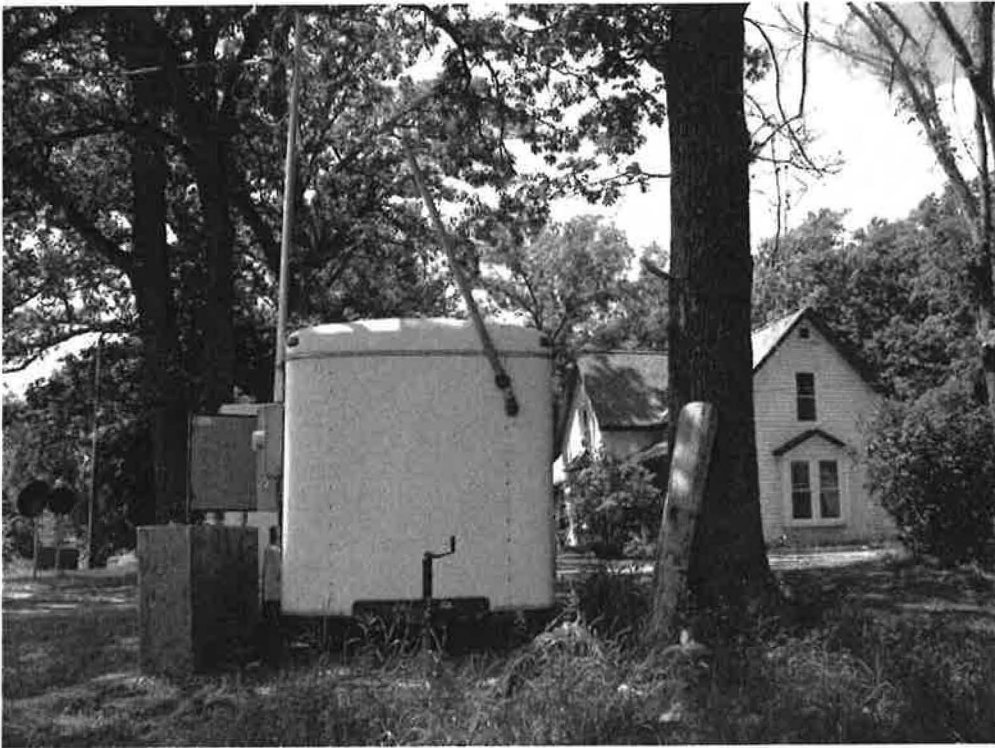


Photo 1 - Before July 2017 stack repair, extension

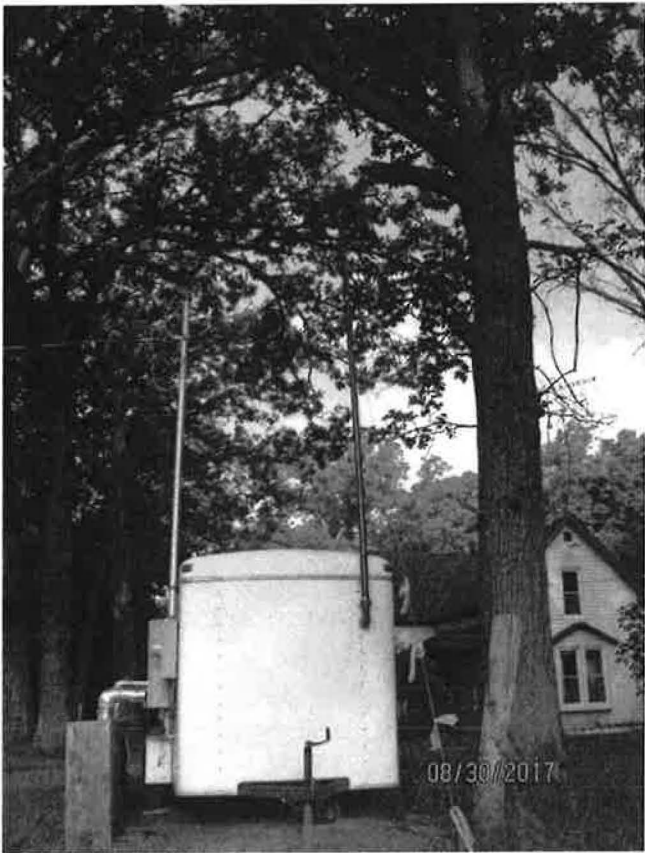


Photo 2 - After July 2017 stack repair, extension



Photo 3 - Photo showing the November stack height extension (white segment at top of pipe). Pipe is braced against tree to stabilize it.



ANALYTICAL REPORT

MSA PROFESSIONAL SERVICES

JAYNE ENGLEBERT

1230 SOUTH BLVD

BARABOO, WI 53913

Project Name: MONROE CENTER

Project Phase:

Contract #: 2054

Project #: 11538000

Folder #: 130317

Purchase Order #:

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Arrival Temperature: See COC

Report Date: 09/18/2017

Date Received: 08/31/2017

Reprint Date: 09/18/2017

CT LAB Sample#: 914123 Sample Description: MW-1

Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|-------------------------|--------|-------|------|------|----------|-----------|----------------|--------------------|---------|-----------|
| Organic Results | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 240 | ug/L | 8.0 | 24 | 20 | | | 09/11/2017 16:34 | AGK | EPA 8260C |
| 1,3,5-Trimethylbenzene | 71 | ug/L | 0.40 | 1.3 | 1 | | | 09/11/2017 22:34 | AGK | EPA 8260C |
| Benzene | 19 | ug/L | 0.24 | 0.81 | 1 | | | 09/11/2017 22:34 | AGK | EPA 8260C |
| Ethylbenzene | 28 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 22:34 | AGK | EPA 8260C |
| m & p-Xylene | 150 | ug/L | 0.50 | 1.8 | 1 | | | 09/11/2017 22:34 | AGK | EPA 8260C |
| Methyl tert-butyl ether | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 22:34 | AGK | EPA 8260C |
| Naphthalene | 43 | ug/L | 0.70 | 2.2 | 1 | | | 09/11/2017 22:34 | AGK | EPA 8260C |
| o-Xylene | 74 | ug/L | 0.40 | 1.4 | 1 | | | 09/11/2017 22:34 | AGK | EPA 8260C |
| Toluene | 12 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 22:34 | AGK | EPA 8260C |

CT LAB Sample#: 914124 Sample Description: MW-2

Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|---------|--------|-------|-----|-----|----------|-----------|----------------|--------------------|---------|--------|
|---------|--------|-------|-----|-----|----------|-----------|----------------|--------------------|---------|--------|

Organic Results

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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CT LAB Sample#: 914124 Sample Description: MW-2 Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|-------------------------|--------|-------|-----|-----|----------|-----------|----------------|--------------------|---------|-----------|
| 1,2,4-Trimethylbenzene | 2800 | ug/L | 100 | 300 | 250 | | | 09/12/2017 12:14 | AGK | EPA 8260C |
| 1,3,5-Trimethylbenzene | 870 | ug/L | 100 | 330 | 250 | | | 09/12/2017 12:14 | AGK | EPA 8260C |
| Benzene | 810 | ug/L | 60 | 200 | 250 | | | 09/12/2017 12:14 | AGK | EPA 8260C |
| Ethylbenzene | 2900 | ug/L | 75 | 280 | 250 | | | 09/12/2017 12:14 | AGK | EPA 8260C |
| m & p-Xylene | 8800 | ug/L | 130 | 450 | 250 | | | 09/12/2017 12:14 | AGK | EPA 8260C |
| Methyl tert-butyl ether | <75 | ug/L | 75 | 280 | 250 | | | 09/12/2017 12:14 | AGK | EPA 8260C |
| Naphthalene | 670 | ug/L | 180 | 550 | 250 | | | 09/12/2017 12:14 | AGK | EPA 8260C |
| o-Xylene | 3700 | ug/L | 100 | 350 | 250 | | | 09/12/2017 12:14 | AGK | EPA 8260C |
| Toluene | 10000 | ug/L | 75 | 280 | 250 | | | 09/12/2017 12:14 | AGK | EPA 8260C |

CT LAB Sample#: 914125 Sample Description: MW-3 Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|-------------------------|--------|-------|------|------|----------|-----------|----------------|--------------------|---------|-----------|
| Organic Results | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.40 | ug/L | 0.40 | 1.2 | 1 | | | 09/11/2017 18:34 | AGK | EPA 8260C |
| 1,3,5-Trimethylbenzene | <0.40 | ug/L | 0.40 | 1.3 | 1 | | | 09/11/2017 18:34 | AGK | EPA 8260C |
| Benzene | <0.24 | ug/L | 0.24 | 0.81 | 1 | | | 09/11/2017 18:34 | AGK | EPA 8260C |
| Ethylbenzene | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 18:34 | AGK | EPA 8260C |
| m & p-Xylene | <0.50 | ug/L | 0.50 | 1.8 | 1 | | | 09/11/2017 18:34 | AGK | EPA 8260C |
| Methyl tert-butyl ether | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 18:34 | AGK | EPA 8260C |
| Naphthalene | <0.70 | ug/L | 0.70 | 2.2 | 1 | | | 09/11/2017 18:34 | AGK | EPA 8260C |
| o-Xylene | <0.40 | ug/L | 0.40 | 1.4 | 1 | | | 09/11/2017 18:34 | AGK | EPA 8260C |
| Toluene | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 18:34 | AGK | EPA 8260C |

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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 Folder #: 130317
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CT LAB Sample#: 914126 Sample Description: MW-4 Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|-------------------------|--------|-------|------|-----|----------|-----------|----------------|--------------------|---------|-----------|
| Organic Results | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 310 | ug/L | 20 | 60 | 50 | | | 09/12/2017 12:43 | AGK | EPA 8260C |
| 1,3,5-Trimethylbenzene | 140 | ug/L | 20 | 65 | 50 | | | 09/12/2017 12:43 | AGK | EPA 8260C |
| Benzene | 510 | ug/L | 12 | 41 | 50 | | | 09/12/2017 12:43 | AGK | EPA 8260C |
| Ethylbenzene | 200 | ug/L | 15 | 55 | 50 | | | 09/12/2017 12:43 | AGK | EPA 8260C |
| m & p-Xylene | 950 | ug/L | 25 | 90 | 50 | | | 09/12/2017 12:43 | AGK | EPA 8260C |
| Methyl tert-butyl ether | 3.6 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 23:34 | AGK | EPA 8260C |
| Naphthalene | 74 | ug/L | 0.70 | 2.2 | 1 | | | 09/11/2017 23:34 | AGK | EPA 8260C |
| o-Xylene | 460 | ug/L | 20 | 70 | 50 | | | 09/12/2017 12:43 | AGK | EPA 8260C |
| Toluene | 2000 | ug/L | 15 | 55 | 50 | | | 09/12/2017 12:43 | AGK | EPA 8260C |

CT LAB Sample#: 914127 Sample Description: PW-4 Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|-------------------------|--------|-------|--------|------|----------|-----------|----------------|--------------------|---------|-----------|
| Organic Results | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 2.3 | ug/L | 0.40 | 1.2 | 1 | | | 09/11/2017 19:04 | AGK | EPA 8260C |
| 1,3,5-Trimethylbenzene | 0.88 | ug/L | 0.40 * | 1.3 | 1 | | | 09/11/2017 19:04 | AGK | EPA 8260C |
| Benzene | <0.24 | ug/L | 0.24 | 0.81 | 1 | | | 09/11/2017 19:04 | AGK | EPA 8260C |
| Ethylbenzene | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 19:04 | AGK | EPA 8260C |
| m & p-Xylene | 1.3 | ug/L | 0.50 * | 1.8 | 1 | | | 09/11/2017 19:04 | AGK | EPA 8260C |
| Methyl tert-butyl ether | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 19:04 | AGK | EPA 8260C |
| Naphthalene | 0.75 | ug/L | 0.70 * | 2.2 | 1 | | | 09/11/2017 19:04 | AGK | EPA 8260C |
| o-Xylene | 0.57 | ug/L | 0.40 * | 1.4 | 1 | | | 09/11/2017 19:04 | AGK | EPA 8260C |
| Toluene | 0.36 | ug/L | 0.30 * | 1.1 | 1 | | | 09/11/2017 19:04 | AGK | EPA 8260C |

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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CT LAB Sample#: 914128 Sample Description: MW-5 Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|-------------------------|--------|-------|------|------|----------|-----------|----------------|--------------------|---------|-----------|
| Organic Results | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.40 | ug/L | 0.40 | 1.2 | 1 | | | 09/11/2017 19:34 | AGK | EPA 8260C |
| 1,3,5-Trimethylbenzene | <0.40 | ug/L | 0.40 | 1.3 | 1 | | | 09/11/2017 19:34 | AGK | EPA 8260C |
| Benzene | <0.24 | ug/L | 0.24 | 0.81 | 1 | | | 09/11/2017 19:34 | AGK | EPA 8260C |
| Ethylbenzene | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 19:34 | AGK | EPA 8260C |
| m & p-Xylene | <0.50 | ug/L | 0.50 | 1.8 | 1 | | | 09/11/2017 19:34 | AGK | EPA 8260C |
| Methyl tert-butyl ether | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 19:34 | AGK | EPA 8260C |
| Naphthalene | <0.70 | ug/L | 0.70 | 2.2 | 1 | | | 09/11/2017 19:34 | AGK | EPA 8260C |
| o-Xylene | <0.40 | ug/L | 0.40 | 1.4 | 1 | | | 09/11/2017 19:34 | AGK | EPA 8260C |
| Toluene | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 19:34 | AGK | EPA 8260C |

CT LAB Sample#: 914129 Sample Description: MW-6 Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|-------------------------|-------------|-------|--------|------|----------|-----------|----------------|--------------------|---------|-----------|
| Organic Results | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 6.6 | ug/L | 0.40 | 1.2 | 1 | | | 09/11/2017 22:04 | AGK | EPA 8260C |
| 1,3,5-Trimethylbenzene | 2.3 | ug/L | 0.40 | 1.3 | 1 | | | 09/11/2017 22:04 | AGK | EPA 8260C |
| Benzene | 18 | ug/L | 0.24 | 0.81 | 1 | | | 09/11/2017 22:04 | AGK | EPA 8260C |
| Ethylbenzene | 22 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 22:04 | AGK | EPA 8260C |
| m & p-Xylene | 10 | ug/L | 0.50 | 1.8 | 1 | | | 09/11/2017 22:04 | AGK | EPA 8260C |
| Methyl tert-butyl ether | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 22:04 | AGK | EPA 8260C |
| Naphthalene | 9.6 | ug/L | 0.70 | 2.2 | 1 | | | 09/11/2017 22:04 | AGK | EPA 8260C |
| o-Xylene | 6.6 | ug/L | 0.40 | 1.4 | 1 | | | 09/11/2017 22:04 | AGK | EPA 8260C |
| Toluene | 0.31 | ug/L | 0.30 * | 1.1 | 1 | | | 09/11/2017 22:04 | AGK | EPA 8260C |

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

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 Project Name: MONROE CENTER
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CT LAB Sample#: 914130 Sample Description: OMW-6

Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|-------------------------|--------|-------|------|------|----------|-----------|----------------|--------------------|---------|-----------|
| Organic Results | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 100 | ug/L | 8.0 | 24 | 20 | | | 09/11/2017 15:35 | AGK | EPA 8260C |
| 1,3,5-Trimethylbenzene | 53 | ug/L | 0.40 | 1.3 | 1 | | | 09/11/2017 21:34 | AGK | EPA 8260C |
| Benzene | 14 | ug/L | 0.24 | 0.81 | 1 | | | 09/11/2017 21:34 | AGK | EPA 8260C |
| Ethylbenzene | 100 | ug/L | 6.0 | 22 | 20 | | | 09/11/2017 15:35 | AGK | EPA 8260C |
| m & p-Xylene | 62 | ug/L | 0.50 | 1.8 | 1 | | | 09/11/2017 21:34 | AGK | EPA 8260C |
| Methyl tert-butyl ether | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 21:34 | AGK | EPA 8260C |
| Naphthalene | 53 | ug/L | 14 | 44 | 20 | | | 09/11/2017 15:35 | AGK | EPA 8260C |
| o-Xylene | 46 | ug/L | 0.40 | 1.4 | 1 | | | 09/11/2017 21:34 | AGK | EPA 8260C |
| Toluene | 7.2 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 21:34 | AGK | EPA 8260C |

CT LAB Sample#: 914131 Sample Description: 1906 BLACK HAWK

Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|-------------------------|--------|-------|------|------|----------|-----------|----------------|--------------------|---------|-----------|
| Organic Results | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.40 | ug/L | 0.40 | 1.2 | 1 | | | 09/11/2017 20:03 | AGK | EPA 8260C |
| 1,3,5-Trimethylbenzene | <0.40 | ug/L | 0.40 | 1.3 | 1 | | | 09/11/2017 20:03 | AGK | EPA 8260C |
| Benzene | <0.24 | ug/L | 0.24 | 0.81 | 1 | | | 09/11/2017 20:03 | AGK | EPA 8260C |
| Ethylbenzene | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 20:03 | AGK | EPA 8260C |
| m & p-Xylene | <0.50 | ug/L | 0.50 | 1.8 | 1 | | | 09/11/2017 20:03 | AGK | EPA 8260C |
| Methyl tert-butyl ether | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 20:03 | AGK | EPA 8260C |
| Naphthalene | <0.70 | ug/L | 0.70 | 2.2 | 1 | | | 09/11/2017 20:03 | AGK | EPA 8260C |
| o-Xylene | <0.40 | ug/L | 0.40 | 1.4 | 1 | | | 09/11/2017 20:03 | AGK | EPA 8260C |
| Toluene | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 20:03 | AGK | EPA 8260C |

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis

CT LABORATORIES

delivering more than data from your environmental analyses



MSA PROFESSIONAL SERVICES

Project Name: MONROE CENTER

Project #: 11538000

Project Phase:

Contract #: 2054

Folder #: 130317

Page 6 of 7

CT LAB Sample#: 914132 Sample Description: TRIP BLANK

Sampled: 08/30/2017

| Analyte | Result | Units | LOD | LOQ | Dilution | Qualifier | Prep Date/Time | Analysis Date/Time | Analyst | Method |
|-------------------------|--------|-------|------|------|----------|-----------|----------------|--------------------|---------|-----------|
| Organic Results | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.40 | ug/L | 0.40 | 1.2 | 1 | | | 09/11/2017 15:04 | AGK | EPA 8260C |
| 1,3,5-Trimethylbenzene | <0.40 | ug/L | 0.40 | 1.3 | 1 | | | 09/11/2017 15:04 | AGK | EPA 8260C |
| Benzene | <0.24 | ug/L | 0.24 | 0.81 | 1 | | | 09/11/2017 15:04 | AGK | EPA 8260C |
| Ethylbenzene | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 15:04 | AGK | EPA 8260C |
| m & p-Xylene | <0.50 | ug/L | 0.50 | 1.8 | 1 | | | 09/11/2017 15:04 | AGK | EPA 8260C |
| Methyl tert-butyl ether | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 15:04 | AGK | EPA 8260C |
| Naphthalene | <0.70 | ug/L | 0.70 | 2.2 | 1 | | | 09/11/2017 15:04 | AGK | EPA 8260C |
| o-Xylene | <0.40 | ug/L | 0.40 | 1.4 | 1 | | | 09/11/2017 15:04 | AGK | EPA 8260C |
| Toluene | <0.30 | ug/L | 0.30 | 1.1 | 1 | | | 09/11/2017 15:04 | AGK | EPA 8260C |

Unless specifically stated to the contrary, soil/sediment/sludge sample results reported on a Dry Weight Basis



Notes: * Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
 Project Manager
 608-356-2760

QC Qualifiers

| Code | Description |
|------|---|
| B | Analyte detected in the associated Method Blank. |
| C | Toxicity present in BOD sample. |
| D | Diluted Out. |
| E | Safe, No Total Coliform detected. |
| F | Unsafe, Total Coliform detected, no E. Coli detected. |
| G | Unsafe, Total Coliform detected and E. Coli detected. |
| H | Holding time exceeded. |
| I | BOD incubator temperature was outside acceptance limits during test period. |
| J | Estimated value. |
| L | Significant peaks were detected outside the chromatographic window. |
| M | Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits. |
| N | Insufficient BOD oxygen depletion. |
| O | Complete BOD oxygen depletion. |
| P | Concentration of analyte differs more than 40% between primary and confirmation analysis. |
| Q | Laboratory Control Sample outside acceptance limits. |
| R | See Narrative at end of report. |
| S | Surrogate standard recovery outside acceptance limits due to apparent matrix effects. |
| T | Sample received with improper preservation or temperature. |
| U | Analyte concentration was below detection limit. |
| V | Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference. |
| W | Sample amount received was below program minimum. |
| X | Analyte exceeded calibration range. |
| Y | Replicate/Duplicate precision outside acceptance limits. |
| Z | Specified calibration criteria was not met. |

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
 Wisconsin (DATCP) Bacteriology ID# 105-289
 Louisiana NELAP (primary) ID# ACC20160002
 Illinois NELAP Lab ID# 200073
 Kansas NELAP Lab ID# E-10368
 Virginia NELAP Lab ID# 460203
 Maryland Lab ID# WI00061
 ISO/IEC 17025-2005 A2LA Cert # 3806.01
 DoD-ELAP A2LA 3806.01
 GA EPD Stipulation ID ACC20160002
 Pennsylvania NELAP Lab ID# 68-04201, # 008

Company: MSA Professional
 Project Contact: Jayne Engel
 Telephone: 608-356-2791
 Project Name: Monroe Center
 Project #: 11538000
 Location: WI

Folder #: 130317
 Company: MSA PROFESSIONAL S
 Project: MONROE CENTER
 Logged By: BNA PM: ET

1230 Lange Court, Baraboo, WI 53913
 608-356-2760 Fax 608-356-2766
 www.ctlaboratories.com

Report To: MSA
 EMAIL: 1230 South Blvd.
 Company: Baraboo WI
 Address: 53913
 Invoice To: Same
 EMAIL:
 Company:
 Address:

Sampled By: Dario S. Zimmerman

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

| Client Special Instructions | | | | Filtered? Y/N | ANALYSES REQUESTED | | | | | | | | | | Total # Containers | Designated MS/MSD | Turnaround Time | | |
|-----------------------------|------|--------|-----------|---------------|-----------------------|--------------------------------------|---|--|--|--|--|--|--|--|--------------------|-------------------|-----------------|--------------------|--------|
| PELCA | | | | | | | | | | | | | | | | | Normal | RUSH* | |
| | | | | | | | | | | | | | | | | | | Date Needed: _____ | |
| Matrix: | | | | | | | | | | | | | | Rush analysis requires prior CT Laboratories' approval | | | | | |
| S - soil/sediment | | | | | | | | | | | | | | Surcharges: | | | | | |
| SW - surface water | | | | | | | | | | | | | | 24 hr 200% | | | | | |
| WW - wastewater | | | | | | | | | | | | | | 2-3 days 100% | | | | | |
| DW - drinking water | | | | | | | | | | | | | | 4-9 days 50% | | | | | |
| M - misc/waste | | | | | | | | | | | | | | | | | | | |
| Collection | | Matrix | Grab/Comp | Sample # | Sample ID Description | Fill in Spaces with Bottles per Test | | | | | | | | | | CT Lab ID # | | | |
| Date | Time | | | | | | | | | | | | | | | Lab use only | | | |
| 8/31/17 | | G | G | | mw-1 | N | X | | | | | | | | | | 3 | 914123 | |
| | | | | | mw-2 | | X | | | | | | | | | | | 3 | 914124 |
| | | | | | mw-3 | | X | | | | | | | | | | | 3 | 914125 |
| | | | | | mw-4 | | X | | | | | | | | | | | 3 | 914126 |
| | | | | | pw-4 | | X | | | | | | | | | | | 3 | 914127 |
| | | | | | mw-5 | | X | | | | | | | | | | | 3 | 914128 |
| | | | | | mw-6 | | X | | | | | | | | | | | 3 | 914129 |
| | | | | | omw-6 | | X | | | | | | | | | | | 3 | 914130 |
| | | | | | 1906 Blank/blank | | X | | | | | | | | | | | 3 | 914131 |
| | | | | | Field Blank | | X | | | | | | | | | | | 1 | 914132 |

| | | | | |
|-------------------------------------|---------------------------|--|--------------------------------|---|
| Relinquished By: <u>[Signature]</u> | Date/Time: <u>8/31/17</u> | Received By: <u>[Signature]</u> | Date/Time: <u>8/31/17 0935</u> | Lab Use Only |
| Received by: | Date/Time: | Received for Laboratory by: <u>[Signature]</u> | Date/Time: <u>8-31-17 1004</u> | Ice Present <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| | | | | Temp <u>1.8</u> IR Gun <u>20</u> |
| | | | | Cooler # <u>5330</u> |

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: 310-110549-1
Client Project/Site: Monroe Center, #11538000

For:
MSA Professional Services, Inc
1230 South Blvd
Baraboo, Wisconsin 53913

Attn: Ms. Jayne Englebert



*Authorized for release by:
7/31/2017 2:42:26 PM*

Brian Graettinger, Manager of Project Management
(319)277-2401
brian.graettinger@testamericainc.com

LINKS

Review your project
results through
Total Access

Have a Question?

 **Ask
The
Expert**

Visit us at:
www.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.

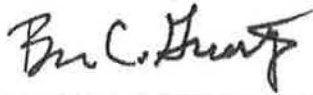
Results relate only to the items tested and the sample(s) as received by the laboratory.

Unless otherwise noted, analyses included in this report were performed by TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613.

TestAmerica Cedar Falls (Lab ID 101044) is accredited by the American Industrial Hygiene Association Laboratory Accreditation Programs (AIHA-LAP), LLC in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1022, NIOSH 1300, NIOSH 1500, NIOSH 1501, NIOSH 1615, OSHA 07, NIOSH 7303 and NIOSH 9102. Volatile Organic Compounds accredited for Solid Sorbent Tubes and 3M Organic Vapor Monitors.

Method Modifications: TestAmerica Cedar Falls performs NIOSH 9102 Elements on Wipes with the following method modification – HNO₃ is used as the digestion acid with no HClO₄ utilized at any time during the analysis.

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report. Gravimetric analyses are not mathematically adjusted for blank values. Unless otherwise noted, all other sample results have been mathematically adjusted for blank values. The methods utilized for the analyses are fit for the intended use.



Brian Graettinger
Manager of Project Management
7/31/2017 2:42:26 PM





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Case Narrative

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-110549-1

Job ID: 310-110549-1

Laboratory: TestAmerica Cedar Falls

Narrative

**Job Narrative
310-110549-1**

Comments

No additional comments.

Receipt

The sample was received on 7/25/2017 9:10 AM in good condition.

Industrial Hygiene

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Sample Summary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-110549-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-110549-1 | Discharge | Air | 07/18/17 00:00 | 07/25/17 09:10 |



Detection Summary

Client: MSA Professional Services, Inc
 Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-110549-1

Client Sample ID: Discharge

Lab Sample ID: 310-110549-1

| Analyte | Result ug/Sample | Result mg/m3 | Result ppm | Qualifier | RL ug/Sample | Dil Fac | Method | Prep Type |
|---------|---------------------|-----------------|---------------|-----------|-----------------|---------|----------|-----------|
| Benzene | 66 | 27 | 8.5 | | 11 | 1 | 1501 Sum | Total/NA |

$$\frac{66 \text{ ug}}{2.43 \text{ L}} \times \frac{1 \text{ g}}{1 \times 10^6 \text{ ug}} \times \frac{1 \text{ lb}}{453.59 \text{ g}} = 5.980 \frac{\text{lbs}}{\text{L}} \times \frac{\text{L}}{0.03532 \text{ m}^3}$$

$$1.69 \times 10^{-6} \text{ lbs/CF}$$

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Client Sample Results

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-110549-1

Client Sample ID: Discharge

Lab Sample ID: 310-110549-1

Date Collected: 07/18/17 00:00

Matrix: Air

Date Received: 07/25/17 09:10

Sample Air Volume: 2.43 L

Sample Container: IH - Coconut Shell Charcoal Tube, 150 mg

Method: 1501 Sum - NIOSH Method 1501 (Modified)

| Analyte | Result ug/Sample | Result mg/m3 | Result ppm | Qualifier | RL ug/Sample | Prepared | Analyzed | Dil Fac |
|---------|---------------------|-----------------|---------------|-----------|-----------------|----------|----------------|---------|
| Benzene | 66 | 27 | 8.5 | | 11 | | 07/31/17 13:40 | 1 |

Definitions/Glossary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-110549-1

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 |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| 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 (Radiochemistry) |
| 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) |

QC Sample Results

Client: MSA Professional Services, Inc
 Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-110549-1

Method: 1501 Front - NIOSH Method 1501 (Modified)

Lab Sample ID: MB 310-173572/1-A

Matrix: Air

Analysis Batch: 173497

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 173572

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------------|-----------------|----|-----|-----------|---|----------------|----------------|---------|
| Benzene | <11 | | 11 | | ug/Sample | | 07/26/17 09:57 | 07/26/17 21:51 | 1 |

Lab Sample ID: LCS 310-173572/5-A

Matrix: Air

Analysis Batch: 173497

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 173572

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---------|----------------|---------------|------------------|-----------|---|------|-----------------|
| Benzene | 250 | 237 | | ug/Sample | | 95 | 85 - 125 |

Lab Sample ID: LCSD 310-173572/3-A

Matrix: Air

Analysis Batch: 173497

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 173572

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------|----------------|----------------|-------------------|-----------|---|------|-----------------|-----|--------------|
| Benzene | 250 | 243 | | ug/Sample | | 97 | 85 - 125 | 3 | 20 |

QC Association Summary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-110549-1

IH - GC VOA

Analysis Batch: 173497

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| MB 310-173572/1-A | Method Blank | Total/NA | Air | 1501 Front | 173572 |
| LCS 310-173572/5-A | Lab Control Sample | Total/NA | Air | 1501 Front | 173572 |
| LCSD 310-173572/3-A | Lab Control Sample Dup | Total/NA | Air | 1501 Front | 173572 |

Prep Batch: 173572

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------------|------------|
| MB 310-173572/1-A | Method Blank | Total/NA | Air | Tube prep/Back | |
| LCS 310-173572/5-A | Lab Control Sample | Total/NA | Air | Tube prep/Back | |
| LCSD 310-173572/3-A | Lab Control Sample Dup | Total/NA | Air | Tube prep/Back | |

Analysis Batch: 174076

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 310-110549-1 | Discharge | Total/NA | Air | 1501 Sum | |

Lab Chronicle

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-110549-1

Client Sample ID: Discharge

Lab Sample ID: 310-110549-1

Date Collected: 07/18/17 00:00

Matrix: Air

Date Received: 07/25/17 09:10

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 1501 Sum | | 1 | 174076 | 07/31/17 13:40 | JCM | TAL CF |

Laboratory References:

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

Accreditation/Certification Summary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-110549-1

Laboratory: TestAmerica Cedar Falls

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

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-----------------------|---------------|------------|-----------------------|-----------------|
| AIHA-LAP, LLC | IHLAP | | 101044 | 11-01-18 |
| Georgia | State Program | 4 | IA100001 (OR) | 09-29-17 |
| Illinois | NELAP | 5 | 200024 | 11-29-17 |
| Iowa | State Program | 7 | 007 | 12-01-17 |
| Kansas | NELAP | 7 | E-10341 | 01-31-18 |
| Minnesota | NELAP | 5 | 019-999-319 | 12-31-17 |
| Minnesota (Petrofund) | State Program | 1 | 3349 | 08-22-17 |
| North Dakota | State Program | 8 | R-186 | 09-29-17 |
| Oregon | NELAP | 10 | IA100001 | 09-29-17 |

Method Summary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-110549-1

| Method | Method Description | Protocol | Laboratory |
|------------|------------------------------|----------|------------|
| 1501 Front | NIOSH Method 1501 (Modified) | NIOSH | TAL CF |
| 1501 Sum | NIOSH Method 1501 (Modified) | NIOSH | TAL CF |

Protocol References:

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994.

Laboratory References:

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



TH



Laboratory Chain of Custody Form

310-110549 Chain of Custody
 Cedar Falls, IA 50613
 Ph: 1-800-750-2401 or (319) 277-2401
 Fax: (319) 277-2425
 www.testamericainc.com

Report To: Jaime Engelbert
 Invoice To: Jaime Engelbert
 Company: MSA Professional Services
 Address: 1230 South Blvd.
 City, State, Zip: Benning, WI. 53913

Page: 1 of 1
 Sampler: Dave Fitzsimmons Project Name: Monroe Center Project No.: 115346000 P.O. #:
 Phone: _____ Fax: _____ Email Address: _____

| Lab Number (Internal use Only) | Date Sampled | Sample Identification | Media Type (Filter, Tube, Passive Monitor) | Analysis Method(s)/Analytes(s) | Sampling Time (Minutes) | Air Volume (Liters) | Pump ID |
|--------------------------------|--------------|-----------------------|--|--------------------------------|-------------------------|---------------------|---------|
| | 7/18/17 | Discharge | C.T. 26-01 | Benzene | 12 minutes | 2.93L | |
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| Sample Receipt | Reporting/Deliverables | Turn Around Time Requested |
|---|--|--|
| Temperature _____ °C | Hardcopy Results: Yes _____ No _____ | Next Day by 6pm _____ 2 Business Days _____ |
| Sample Seals: Yes _____ No _____ | E-Mail Results: Yes _____ No _____ | 3 Business Days _____ 4 Business Days _____ |
| Sample Seals Intact: Yes _____ No _____ | EDD: Yes _____ No _____ Type: _____ | Standard 7 Business Days _____ |
| Total # of Samples: _____ | Data Package: Standard Level II: _____ Level III: _____ Level IV: _____ | RUSH Charges Authorized Yes _____ No _____ Subject to scheduling and availability (RUSH surcharges apply) |

Instructions / Special Requirements:

| Date | Time | Samples Relinquished By | Received By |
|------|------|-------------------------|----------------------------|
| | | | <u>RC Eng</u> 7/25/17 0910 |
| | | | |
| | | | |

13

TestAmerica

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

IH Sample Receipt Form

Client: MSA Project: Monroe Center

City: Baraboo, WI

Date: 7/25/17 Receiver's Initials: BCW Time (Delivered): 0910

COC completed correctly? Yes No
(Cite inconsistencies below)

Sample Checklist (Mark non-conformance or acceptance)

| | | | |
|--------------------------|-----------------|--------------------------|----------------------------|
| <input type="checkbox"/> | Received Broken | <input type="checkbox"/> | Information Missing |
| <input type="checkbox"/> | Improper Media | <input type="checkbox"/> | Missing Sample |
| <input type="checkbox"/> | Missing Label | <input type="checkbox"/> | Sample Past Hold Date |
| <input type="checkbox"/> | Temperature | <input type="checkbox"/> | Extra Sample |
| <input type="checkbox"/> | COC Discrepancy | <input type="checkbox"/> | Insufficient Sample Volume |
| <input type="checkbox"/> | Other: | | |

Couriers

| | | | |
|-------------------------------------|--------------|--------------------------|------------|
| <input checked="" type="checkbox"/> | UPS | <input type="checkbox"/> | TA Courier |
| <input type="checkbox"/> | FedEx | <input type="checkbox"/> | Client |
| <input type="checkbox"/> | FedEx Ground | <input type="checkbox"/> | Other: |
| <input type="checkbox"/> | USPS | | |
| <input type="checkbox"/> | Spee-Dee | | |

The samples, as received, are acceptable for analysis

| | |
|--------------------------|----------------------------------|
| <input type="checkbox"/> | Samples not received in a cooler |
| <input type="checkbox"/> | Temperature not taken |

Reviewed by: BCW Date: 7/25/17

Comments

Login Sample Receipt Checklist

Client: MSA Professional Services, Inc

Job Number: 310-110549-1

Login Number: 110549

List Source: TestAmerica Cedar Falls

List Number: 1

Creator: Dralle, Steve L

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| 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. | N/A | |
| Cooler Temperature is acceptable. | N/A | |
| Cooler Temperature is recorded. | N/A | |
| 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 (excluding tests with immediate HTs) | 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 $<6\text{mm}$ (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



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: 310-116176-1
Client Project/Site: Monroe Center, #11538000

For:
MSA Professional Services, Inc
1230 South Blvd
Baraboo, Wisconsin 53913

Attn: Ms. Jayne Englebert



*Authorized for release by:
10/17/2017 3:15:01 PM*

Brian Graettinger, Manager of Project Management
(319)277-2401
brian.graettinger@testamericainc.com

LINKS

Review your project
results through
Total Access

Have a Question?

 **Ask
The
Expert**

Visit us at:
www.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.



Unless otherwise noted, analyses included in this report were performed by TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613.

TestAmerica Cedar Falls (Lab ID 101044) is accredited by the American Industrial Hygiene Association Laboratory Accreditation Programs (AIHA-LAP), LLC in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1022, NIOSH 1300, NIOSH 1500, NIOSH 1501, NIOSH 1615, OSHA 07, NIOSH 7303 and NIOSH 9102. Volatile Organic Compounds accredited for Solid Sorbent Tubes and 3M Organic Vapor Monitors.

Method Modifications: TestAmerica Cedar Falls performs NIOSH 9102 Elements on Wipes with the following method modification – HNO₃ is used as the digestion acid with no HClO₄ utilized at any time during the analysis.

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report. Gravimetric analyses are not mathematically adjusted for blank values. Unless otherwise noted, all other sample results have been mathematically adjusted for blank values. The methods utilized for the analyses are fit for the intended use.

A handwritten signature in black ink, appearing to read "Brian Graettinger". The signature is written in a cursive style and is positioned above a horizontal line.

Brian Graettinger
Manager of Project Management
10/17/2017 3:15:01 PM

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Case Narrative

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-116176-1

Job ID: 310-116176-1

Laboratory: TestAmerica Cedar Falls

Narrative

Job Narrative
310-116176-1

Comments

No additional comments.

Receipt

The sample was received on 10/10/2017 9:00 AM in good condition.

Industrial Hygiene

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Lab Admin

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-116176-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-------------------------|--------|----------------|----------------|
| 310-116176-1 | Monroe Center Discharge | Air | 09/17/17 00:00 | 10/10/17 09:00 |



Detection Summary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-116176-1

Client Sample ID: Monroe Center Discharge

Lab Sample ID: 310-116176-1

| Analyte | Result ug/Sample | Result mg/m3 | Result ppm | Qualifier | RL ug/Sample | Dil Fac | Method | Prep Type |
|---------|---------------------|-----------------|---------------|-----------|-----------------|---------|----------|-----------|
| Benzene | 320 | 130 | 40 | | 11 | 1 | 1501 Sum | Total/NA |

5

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Client Sample Results

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-116176-1

Client Sample ID: Monroe Center Discharge

Lab Sample ID: 310-116176-1

Date Collected: 09/17/17 00:00

Matrix: Air

Date Received: 10/10/17 09:00

Sample Air Volume: 2.5 L

Sample Container: IH - Coconut Shell Charcoal Tube, 150 mg

Method: 1501 Sum - NIOSH Method 1501 (Modified)

| Analyte | Result | Result | Result | Qualifier | RL | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------|--------|-----------|-----------|----------|----------------|---------|
| | ug/Sample | mg/m3 | ppm | | ug/Sample | | | |
| Benzene | 320 | 130 | 40 | | 11 | | 10/17/17 14:39 | 1 |

Definitions/Glossary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-116176-1

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 |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| 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 (Radiochemistry) |
| 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) |

QC Sample Results

Client: MSA Professional Services, Inc
 Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-116176-1

Method: 1501 Front - NIOSH Method 1501 (Modified)

Lab Sample ID: MB 310-181989/1-A
 Matrix: Air
 Analysis Batch: 182053

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 181989

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|----|-----|-----------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Benzene | <11 | | 11 | | ug/Sample | | 10/11/17 08:58 | 10/12/17 09:50 | 1 |

Lab Sample ID: LCS 310-181989/2-A
 Matrix: Air
 Analysis Batch: 182053

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 181989

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec. | Limits |
|---------|-------|--------|-----------|-----------|---|------|----------|--------|
| | Added | Result | Qualifier | | | | | |
| Benzene | 250 | 293 | | ug/Sample | | 117 | 85 - 125 | |

Lab Sample ID: LCSD 310-181989/3-A
 Matrix: Air
 Analysis Batch: 182053

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 181989

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec | %Rec. | Limits | RPD | RPD | Limit |
|---------|-------|--------|-----------|-----------|---|------|----------|--------|-----|-----|-------|
| | Added | Result | Qualifier | | | | | | | | |
| Benzene | 250 | 254 | | ug/Sample | | 102 | 85 - 125 | 14 | 20 | | |

QC Association Summary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-116176-1

IH - GC VOA

Prep Batch: 181989

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|----------------|------------|
| MB 310-181989/1-A | Method Blank | Total/NA | Air | Tube prep/Back | |
| LCS 310-181989/2-A | Lab Control Sample | Total/NA | Air | Tube prep/Back | |
| LCSD 310-181989/3-A | Lab Control Sample Dup | Total/NA | Air | Tube prep/Back | |

Analysis Batch: 182053

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|------------|------------|
| MB 310-181989/1-A | Method Blank | Total/NA | Air | 1501 Front | 181989 |
| LCS 310-181989/2-A | Lab Control Sample | Total/NA | Air | 1501 Front | 181989 |
| LCSD 310-181989/3-A | Lab Control Sample Dup | Total/NA | Air | 1501 Front | 181989 |

Analysis Batch: 182747

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|-------------------------|-----------|--------|----------|------------|
| 310-116176-1 | Monroe Center Discharge | Total/NA | Air | 1501 Sum | |

Lab Chronicle

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-116176-1

Client Sample ID: Monroe Center Discharge

Lab Sample ID: 310-116176-1

Date Collected: 09/17/17 00:00

Matrix: Air

Date Received: 10/10/17 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Analysis | 1501 Sum | | 1 | 182747 | 10/17/17 14:39 | JCM | TAL CF |

Laboratory References:

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



Accreditation/Certification Summary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-116176-1

Laboratory: TestAmerica Cedar Falls

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

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-----------------------|---------------|------------|-----------------------|-----------------|
| AIHA-LAP, LLC | IHLAP | | 101044 | 11-01-18 |
| Georgia | State Program | 4 | IA100001 (OR) | 09-29-18 |
| Illinois | NELAP | 5 | 200024 | 11-29-17 |
| Iowa | State Program | 7 | 007 | 12-01-17 |
| Kansas | NELAP | 7 | E-10341 | 01-31-18 |
| Minnesota | NELAP | 5 | 019-999-319 | 12-31-17 |
| Minnesota (Petrofund) | State Program | 1 | 3349 | 08-22-18 |
| North Dakota | State Program | 8 | R-186 | 09-29-17 * |
| Oregon | NELAP | 10 | IA100001 | 09-29-18 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Cedar Falls

Method Summary

Client: MSA Professional Services, Inc
Project/Site: Monroe Center, #11538000

TestAmerica Job ID: 310-116176-1

| Method | Method Description | Protocol | Laboratory |
|------------|------------------------------|----------|------------|
| 1501 Front | NIOSH Method 1501 (Modified) | NIOSH | TAL CF |
| 1501 Sum | NIOSH Method 1501 (Modified) | NIOSH | TAL CF |

Protocol References:

NIOSH = NIOSH Manual Of Analytical Methods, National Institute For Occupational Safety And Health, 4th Edition, August 1994.

Laboratory References:

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

TE
THE



Laboratory Chain of Custody Form

310-116176 Chain of Custody
14 Enterprise Drive • 107
Cedar Falls, IA 50613
Ph: 1-800-750-2401 or (319) 277-2401
Fax: (319) 277-2425
www.1estamericainc.com

Report To: Janice Englebert
Invoice To: Janice Englebert
Company: MSA Professional Services
Address: 1230 South Blvd.
City, State, Zip: Baraboo WI, 53913
Phone: (888) 356-2777 Fax: _____ Email Address: _____
Sampler: David Fitzsimmons Project Name: Monitor Center Project No.: 11538000 P.O. #: _____

| Lab Number (Internal use Only) | Date Sampled | Sample Identification | Media Type (Filter, Tube, Passive Monitor) | Analysis Method(s)/Analytes(s) | Sampling Time (Minutes) | Air Volume (Liters) | Pump ID |
|--------------------------------|--------------|--------------------------|--|--------------------------------|-------------------------|---------------------|---------|
| | 9/17/17 | Monitor Center Discharge | Tube | T, Benzene | 12.00 | 2.5 L | |
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| Sample Receipt | Reporting/Deliverables | Turn Around Time Requested |
|---|--|--|
| Temperature: _____ °C | Hardcopy Results: Yes _____ No _____ | Next Day by 6pm _____ 2 Business Days _____ |
| Sample Seals: Yes _____ No _____ | E-Mail Results: Yes _____ No _____ | 3 Business Days _____ 4 Business Days _____ |
| Sample Seals Intact: Yes _____ No _____ | EDD: Yes _____ No _____ Type _____ | Standard 7 Business Days _____ |
| Total # of Samples: _____ | Data Package: Standard Level II: _____ Level III: _____ Level IV: _____ | RUSH Charges Authorized Yes _____ No _____ Subject to scheduling and availability (RUSH surcharges apply) |

Instructions / Special Requirements: _____

| Date | Time | Samples Relinquished By | Received By |
|---------|------|--------------------------|-------------|
| 9/17/17 | | <u>David Fitzsimmons</u> | |
| | | | |
| | | | |

13

TestAmerica

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

TestAmerica Sample Receipt Form – Industrial Hygiene Cedar Falls Facility

Client: MSA Project: Monroe Center

City: Baraboo WI

Date: 10/10/17 Receiver's Initials: BCCN Time (Delivered): 0900

COC completed correctly? Yes No
(Cite Inconsistencies below)

Sample Checklist (Mark non-conformance or acceptance)

| | | | |
|--------------------------|-----------------|--------------------------|----------------------------|
| <input type="checkbox"/> | Received Broken | <input type="checkbox"/> | Information Missing |
| <input type="checkbox"/> | Improper Media | <input type="checkbox"/> | Missing Sample |
| <input type="checkbox"/> | Missing Label | <input type="checkbox"/> | Sample Past Hold Date |
| <input type="checkbox"/> | Temperature | <input type="checkbox"/> | Extra Sample |
| <input type="checkbox"/> | COC Discrepancy | <input type="checkbox"/> | Insufficient Sample Volume |
| <input type="checkbox"/> | Other: | | |

The samples are acceptable for analysis

Couriers

| | | | |
|-------------------------------------|----------------|--------------------------|------------|
| <input checked="" type="checkbox"/> | UPS <u>Grd</u> | <input type="checkbox"/> | TA Courier |
| <input type="checkbox"/> | FedEx | <input type="checkbox"/> | Client |
| <input type="checkbox"/> | FedEx Ground | <input type="checkbox"/> | Other: |
| <input type="checkbox"/> | USPS | <input type="checkbox"/> | |
| <input type="checkbox"/> | Spee-Dee | <input type="checkbox"/> | |

| | |
|-------------------------------------|----------------------------------|
| <input checked="" type="checkbox"/> | Samples not received in a cooler |
| <input checked="" type="checkbox"/> | Temperature not taken |

Reviewed by: BCCN Date: 10/10/17

Comments

Document: CF-LG-WI-003
Revision: 8
Date: 6/23/2014

Login Sample Receipt Checklist

Client: MSA Professional Services, Inc

Job Number: 310-116176-1

Login Number: 116176

List Source: TestAmerica Cedar Falls

List Number: 1

Creator: Dralle, Steve L

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is \leq background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| 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. | N/A | |
| Cooler Temperature is acceptable. | N/A | |
| Cooler Temperature is recorded. | N/A | |
| 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 (excluding tests with immediate HTs) | 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 $<6\text{mm}$ (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |