AMERICAN ENGINEERING TESTING, INC.

CONSULTANTS
· ENVIRONMENTAL
· GEOTECHNICAL
· MATERIALS
· FORENSICS

GROUNDWATER MONITORING REPORT

DairiConcepts Site

W888 Chili Road, Chili,
Clark County, Wisconsin 54420

AET Project No. 03-05510
WDNR BRRTS No. 03-10-545212
PECFA No. 54420-9999-88

Date:

September 23, 2019

Prepared for:

Dairy Farmers of America
1405 N. 98th Street
Kansas City, KS 66111

www.amengtest.com

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September 23, 2019

Dairy Farmers of America
1405 N. 98th Street
Kansas City, KS 66111

Attn: Steve Moore & Stacy Doing
Submitted via Email: smoore@dfamilk.com & sdoing@dfamilk.com

RE: Groundwater Monitoring Report
DairiConcepts Site, W888 Chili Road,
Chili, Clark County, Wisconsin.
WDNR BRRTS No. 03-10-545212. PECFA No. 54420-9999-88.
AET Project No. 03-05510.

American Engineering Testing, Inc. has completed Groundwater Monitoring services at the above-referenced property in Chili, Wisconsin. These services were performed in accordance with our approved proposal dated March 28, 2016. On your behalf, we are also forwarding the report to the Wisconsin Department of Natural Resources (WDNR) at this time for review.

We appreciate the opportunity to serve you on this project. If you have any questions regarding the information presented in this report, or if we can be of additional service, please contact me.

Sincerely,
American Engineering Testing, Inc.

Michael K. Neal, Professional Hydrologist
Geomorphologist

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cc: Dee Lance, WDNR, 473 Griffith Avenue, Wisconsin Rapids, WI 54494

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GROUNDWATER MONITORING REPORT
DAIRICONCEPTS SITE
CHILI, WISCONSIN

AET PROJECT NO. 03-05510

EXECUTIVE SUMMARY

American Engineering Testing, Inc. (AET) was authorized by Dairy Farmers of America (DFA) to conduct Soil Remediation and Groundwater Monitoring activities for the DairiConcepts plant property located at W888 Chili Road, Chili, Clark County, Wisconsin (the Site). The Wisconsin Department of Natural Resources (WDNR) has directed DFA, the property owner, to investigate and remediate the Site. The responsible party letter was issued on April 4, 2006 after soil and groundwater contamination was encountered at the Site.

The results of our initial site investigation indicated that petroleum impacts to soil were present on the Site in the area of a previous petroleum underground storage tank (UST) system. Petroleum-contaminated soils that exceed the WDNR NR 720 soil to groundwater residual contaminant levels (RCLs) were present in the former tank bed. Soil contamination previously extended from five feet below ground surface (bgs) to the groundwater table (12-15 feet bgs) in an area approximately 110 feet east/west by 30 feet north/south.

AET observed the removal of approximately 1,203 tons of contaminated soil from the area of monitoring well MW-4 and the former tank bed. Excavation soil sampling in the source area indicates that most of the soil contaminated at levels above NR 720 soil to groundwater RCLs has been removed. The presence of an underground fiber optic cable near MW-3A prevented expansion of the excavation to the west. Soil contamination from approximately four to at least 15 feet bgs remains in the area of MW-3A and likely extends beneath the pavement of Chili Road and County Highway Y. In our opinion, remaining soil contamination at the Site is associated with the impacted groundwater smear zone.

Groundwater monitoring shows that petroleum constituents remain on and off the Site at concentrations exceeding the NR 140 enforcement standard (ES). Groundwater contamination extends in a plume approximately 230 feet by 140 feet surrounding monitoring wells MW-3A, MW-4A, MW-4R, MW-5A, and MW-10. The extent of impact is limited and is defined by the lack of contamination in groundwater monitoring wells CMW-1, MW-3, MW-6A, MW-7A, MW-6, and MW-9. AET recommends the remaining groundwater contamination be allowed to naturally attenuate.

The removal of the leaking gasoline UST system, along with the excavation of 1,203 tons of petroleum impacted soil, has removed the source for mobilizing the degraded light non-aqueous phase liquids (LNAPL) at the Site. An assessment of the Site indicates remediation and recovery

of remaining LNAPL is not feasible due to the soil composition of the smear zone. Grain size distribution testing shows the smear zone is composed of soils that contain greater than 40 percent silt and clay, which are soils having relatively low permeabilities. As a result of the silt and clay composition, LNAPL in the smear zone is essentially immobile due to flow restrictions caused by dual-phase flow through these low permeability soils. Therefore, we conclude the LNAPL at the Site has reached an equilibrium regarding further migration and/or contaminant loading to the groundwater, and the remaining degraded LNAPL is not "free" or readily mobile. Groundwater monitoring has demonstrated the dissolved contaminant plume is stable and decreasing in the presence of the immobile LNAPL that remains at the Site.

Based on these results, AET recommends that this Site be considered for closure. If the WDNR agrees with these recommendations, AET will submit a closure application, GIS Registry packet, and off-site notifications.

1.0 INTRODUCTION

Dairy Farmers of America (DFA) authorized American Engineering Testing, Inc. (AET) to conduct soil remediation and groundwater monitoring activities on their plant property located at W888 Chili Road, Chili, Clark County, Wisconsin (the Site). **Figure 1** shows the Site location, and **Figure 2** shows the current Site layout.

Appendix A contains a list of the acronyms and abbreviations used in this report.

1.1 Purpose

We have completed the scope of services for this project as required by the Wisconsin Department of Natural Resources (WDNR). AET's services have been performed in accordance with generally accepted practices of the profession undertaken in similar studies at the same time and in the same geographical area, and for the following purposes:

- To complete a light non-aqueous phase liquid (LNAPL) assessment on the remaining weathered free product on-site, this included:
  - Monitoring free product levels in three groundwater monitoring wells;
  - Installation of two additional groundwater observation wells north and east of monitoring well MW-10 to define the horizontal extent of free product;
  - Collect soil samples across the smear zone and analyze for total organic carbon and grain size analysis; and
  - Collect free product samples for qualitative laboratory fluid analysis (density, viscosity, and surface and interfacial tension parameters.
- To collect four quarterly rounds of groundwater samples to evaluate the effect of soil remediation on groundwater quality, the stability of the groundwater contamination plume, and the feasibility of using natural attention as a closure option for the remaining residual contamination; and
- To evaluate the need for further site remediation and/or continued groundwater monitoring.

2.0 BACKGROUND

2.1 Site Description and Features

The address for the Site is W888 Chili Road, and it is located in the southwest quarter of the southwest quarter of Section 23, Township 25 North, Range 1 East, in unincorporated Chili, Town of Fremont, Clark County, Wisconsin. The Site is a 1.06-acre lot located on the east side of County Highway Y, north of Chili Road. The Site operated as a dairy and cheese factory until the 1980s. Currently, the Site is occupied by the DairiConcepts plant, which produces dry cheese products.

The town of Chili is served by potable well water supply and municipal sewer system. The former petroleum underground storage tank (UST) system was used to fuel dairy fleet vehicles and was removed in the 1980s.

At present, neighboring property uses include County Highway Y and commercial property to the west, residential property to the north, Chili Road and residential properties to the south, and municipal property (tennis courts and baseball field) to the east.

2.2 Physical Setting

The Site is located in the Central Plain Physiographic Province of central Wisconsin. Fluvial and glacial processes have been an important geologic agent in determining the surface geology and physiography of the Site, and it is situated on alluvial and glacial deposits.

Soils encountered at the Site are predominantly clayey from the surface to approximately 10 feet below ground surface (bgs). Bedrock was encountered in all of the soil borings, and the excavation completed at the Site, at approximately 10 feet bgs. Regionally, bedrock consists of Cambrian period sandstones.

Bedrock encountered beneath the Site consists of sandstone of the Mount Simon Formation, which according to published geologic maps overlies crystalline rock. The Mount Simon Formation consists predominantly of a medium-grained quartzose sandstone, but does contain some shale beds which are common in the upper part of the formation. At the site, the upper 4 feet of the sandstone is weathered to essentially a soil regolith.

Depth to groundwater in the source area during the last four rounds of monitoring ranges from 7.63 to 13.33 feet bgs in the monitoring wells. Topography at the Site is relatively level. Groundwater elevation data collected from the monitoring wells suggests that the water table is relatively flat, and that groundwater flow is controlled by the pumping of water from a potable supply well in the vicinity of the Site. Historically depth to groundwater has ranged from 7.23 to 15.15 feet bgs in the monitoring wells.

2.3 Previous Environmental Reports

Earth Tech completed a site investigation for the WDNR in response to petroleum detection in a residential potable well located at the former Krueger residence, W887 Chili Road (currently the DairiConcepts office) in the town of Chili. The results of the investigation were included in their reports of Project No. 82060 dated November 15, 2005 and March 2006. Refer to these reports for background and supplemental information. The site investigation was completed to gather sufficient subsurface information to assess permanent potable water supply well replacement

options for the contaminated Krueger residential well and to confirm the source or sources of contamination that may have contributed to contamination of the residential well. The site investigation was completed from January 2004 to April 2006. The site investigation reports revealed the following:

- Subsurface materials consist of low-permeability clay soils from the ground surface to approximately 10 feet bgs. Sandstone bedrock of varying permeability underlies the clay soil to the termination depth borings at a maximum depth of 20 feet bgs. Granite bedrock underlies the sandstone at depths ranging from 50 to 57 feet, based on logs from private supply wells in the area.
- Soil and groundwater sampling confirmed three potential sources of petroleum contamination that include the former USTs located near the southwest corner of the DairiConcepts plant property, reported USTs in the area directly west of the Wolfe property garage, and the former UST located at the Chili Service garage.
- Wisconsin Administrative Code (WAC) NR 140 enforcement standard (ES) exceedances for benzene, 1,2-dichloroethane (DCA), naphthalene, toluene, and trimethylbenzenes (TMBs) were detected in groundwater samples collected from monitoring wells within and directly downgradient of the identified sources.
- In July 2005, free product was observed in monitoring well MW-4 adjacent to the southwest corner of the DairiConcepts plant property.
- Measured groundwater elevations indicate that the water table in the vicinity of the investigation area is nearly flat, thus generating negligible hydraulic gradient to drive groundwater flow laterally. An apparent east or southeast flow trend was inferred from the measured groundwater elevations however, due to the relatively flat gradient of the water table this groundwater flow direction is inconclusive.
- Measured groundwater elevations indicate a downward vertical gradient between wells MW-7 and PZ-7.
- Private potable well pumping likely has a significant effect on horizontal and vertical groundwater movement within the investigation area. Hydraulic stress, due to water withdrawal within the groundwater cone of depression generated by pumping, would tend to influence groundwater (and contaminant) flow in the vicinity of the potable wells, especially in the absence of significant natural flow.
- Soil gas survey and continued groundwater sampling confirmed contamination from the three previously identified potential sources of petroleum contamination: the former USTs located near the southwest corner of the DairiConcepts property, reported USTs in the area

directly west of the Wolfe property garage, and the former UST located at the Chili Service garage.

- Based on the soil gas survey and groundwater sampling analytical results, any potable well replacement on the former Krueger residential property drawing water from the sandstone aquifer will be at risk of future impacts from past petroleum releases in the area. However, a potable well installed on the southeastern portion of that property and drawing from the underlying fractured granite bedrock would appear to have less risk of future petroleum impacts due to the increased distance of the well from the former UST locations and potential limitations on further downward vertical migration of petroleum contaminated water through the sandstone aquifer. These limitations include the presence of relatively impermeable shale beds within the sandstone, and the presence of relatively impervious feldspar clay (saprolite) at the sandstone/granite bedrock interface.
- Based on Earth Tech's investigation, there was an indication that a release of petroleum to the environment had occurred from three separate UST systems. The WDNR issued Responsible Party letters to DairiConcepts, Mr. Arnold Wolfe, and Chili Service Garage directing them to investigate and remediate their sites on April 4, 2006.

Tetra Tech completed a remedial investigation of the Site, and the results of the investigation are included in their reports of Project No. 1156332427 dated June 11, 2004 and February 11, 2009. Refer to these reports for background and supplemental information. The remedial investigation was completed to determine the degree and extent of soil contamination associated with the former UST system at the Site and to evaluate the potential for groundwater contamination. The remedial investigation reports revealed the following:

- The site investigation began in April 2006 and included the installation of ten soil borings and five groundwater monitoring wells. Five monitoring wells previously installed by Earth Tech were also used in the remedial investigation.
- Petroleum-contaminated soil is present on the Site in the area of the previous petroleum UST system and concentrations exceed the WDNR NR 720 generic residual contaminant levels (RCLs). Soil contamination extends from five feet bgs to the groundwater table (12-15 feet bgs) in an area approximately 110 feet east/west by 30 feet north/south. Soil contamination has affected groundwater quality in monitoring wells MW-3A and MW-4, located near the southwest corner of the Site.
- Active LNAPL removal was conducted in wells MW-3A and MW-4. Product thickness ranging from 5 to 23 inches was observed during removal activities.
- Four quarterly rounds of groundwater sampling confirmed that petroleum-contaminated groundwater is present on the Site in the area of the previous petroleum UST system.

Groundwater contamination extends off site to the west in the County Highway Y road right of way. Groundwater contamination exceeding the NR 140 ES is present within the sandstone bedrock and extends in a plume approximately 250 feet west-east by 100 feet wide surrounding monitoring wells MW-3A, MW-4, MW-4A, and MW-5A.

- A replacement potable well was installed at the former Krueger residence southeast of the Site. The well was constructed in the granite aquifer at a depth of 250 feet bgs.

AET completed additional remedial investigation activities on the Site, and the results of the additional investigation are included in our reports of Project No. 03-05510 dated July 11, 2013 and August 25, 2015. Refer to these reports for background and supplemental information. Continued remedial investigation was completed to determine the extent of groundwater contamination associated with the UST system and to evaluate the potential for groundwater remediation by natural attenuation. The remedial investigation reports revealed the following:

- Two additional groundwater monitoring wells, MW-6A and MW-7A were installed on the adjacent property to define the extent of groundwater contamination to the west. Five quarterly rounds of groundwater samples were collected from May 2010 to July 2015.
- LNAPL was not observed in wells MW-3A or MW-4.
- Groundwater contamination exceeding the NR 140 ES is present within the sandstone bedrock and extends in a plume approximately 250 feet west-east by 100 feet wide surrounding monitoring wells MW-3A, MW-4, MW-4A, and MW-5A. MW-6A and MW-7A define the western extent of the contaminant impacts.
- The WDNR requested soil excavation in the source area and continued groundwater monitoring to bring the Site to closure.

AET completed a soil remediation and groundwater monitoring report on the Site, and the results are included in our report of Project No. 03-05510 dated September 9, 2016. Refer to that report for background and supplemental information. The purpose of the remedial action was to remove petroleum-contaminated soil in the source area to reduce the potential for continued groundwater impact from the contamination associated with the former UST system. The soil remediation and groundwater monitoring report revealed the following:

- In June 2016, approximately 1,203 tons of contaminated soil were removed from the former tank bed area, resulting in the removal of most of the soil contaminated at levels above NR 720 soil to groundwater and non-industrial direct contact RCLs.
- Residual soil contamination exists from approximately four feet bgs to the groundwater table (10-15 feet bgs) in an area approximately 30 feet east/west by 30 feet north/south and likely extends beneath the County Highway Y and Chili Road pavement. Except in the

limited area around monitoring well MW-3A, remaining soil contamination at the Site is associated with the impacted groundwater smear zone.

- Groundwater monitoring shows that petroleum constituents are present on and off site in the area that includes the previous petroleum UST system. Groundwater contamination extends in a plume approximately 400 feet by 150 feet surrounding monitoring wells MW-2A, MW-3A, MW-4R, MW-4A, MW-5A, MW-5, MW-W (WMW-1), and MW-10.
- Based on these results, AET recommended continued groundwater monitoring on a quarterly basis to determine a stable or decreasing contaminant plume.

As recommended in the September 9, 2016 monitoring report, AET continued with groundwater monitoring at the Site in 2017 and 2018. Monitoring results for these years are included in our reports of Project No. 03-05510 dated June 30, 2017 and August 8, 2018. Refer to these reports for background and supplemental information. The purpose of the monitoring was to evaluate the effect of soil remediation on groundwater quality, and to assess the stability of the groundwater contamination plume and the feasibility of using natural attention as a closure option for the remaining residual contamination. The 2017 and 2018 groundwater monitoring reports revealed the following:

- Groundwater monitoring shows that petroleum constituents are present at concentrations exceeding NR 140 ESs in the source area and in the adjacent road right-of-ways in an area approximately 230 feet northwest-southeast and 140 feet wide. The extent of impact is defined by the lack of contamination in groundwater monitoring wells CMW-1, MW-6A, MW-7A, MW-W (WMW-1), MW-E (WPZ-1), MW-6, MW-1A, MW-3, PZ-7, and MW-7.
- Petroleum constituent concentrations in the source wells show variability over time. Concentrations in well MW-3A are generally decreasing, however during two of the last four rounds of sampling LNAPL has been present. Concentrations of benzene and naphthalene in well MW-4A and MW-5A are increasing. LNAPL has also begun to accumulate in monitoring well MW-10. This increase in benzene and naphthalene concentrations, and the occurrence of LNAPL, appears to be associated with the increase and then subsequent decrease of the water table after July 2017. The source of the higher concentrations and LNAPL may be from the lower part of the smear zone where free product is present.
- Based on these results, AET recommended continued groundwater monitoring on a quarterly basis to evaluate the effects of soil remediation and whether a downward trend in groundwater contaminant concentrations has been established to indicate the feasibility of natural attenuation as a remedial measure to attain Site closure. The groundwater

monitoring data will be reviewed to assess the potential effect of the smear zone on contaminant concentrations from fluctuations in the water table.

- The WDNR requested the completion of a LNAPL assessment and continued groundwater monitoring to bring the Site to closure.

3.0 GROUNDWATER MONITORING ACTIVITIES

3.1 Scope of Services

The scope of this remedial action was initially defined in an approved AET proposal agreement with DFA on March 28, 2016. The implemented scope of services included the following:

- Obtain approval of costs from the WDNR PECFA program for reimbursable expenses to complete the required remedial activities.
- Prepare and administer a site-specific safety plan.
- Complete a LNAPL assessment on the remaining weathered free product on-site, this included:
  - Monitoring free product levels in three groundwater monitoring wells;
  - Installing two additional groundwater observation wells north and east of monitoring well MW-10 to define the horizontal extent of free product;
  - Collecting soil samples across the smear zone and analyze for total organic carbon and grain size analysis;
  - Collecting LNAPL samples for qualitative laboratory fluid analysis (density, viscosity, and surface and interfacial tension parameters;
- Collect four quarterly rounds of groundwater samples from eight groundwater monitoring wells (MW-1A, MW-3A, MW-4A, MW-4R, MW-5A, MW-7, MW-10, & MW-W [WMW-1]). Analyze each sample for petroleum volatile organic compounds (PVOCs) plus naphthalene using EPA Method SW8260B. During each sampling event, collect groundwater elevation measurements from all wells.
- Collect one annual round of groundwater samples from four potable wells (PW-1, PW-4, PW-5, & Strey Well). Analyze each sample for VOCs using EPA Method 524.2.
- Properly abandon monitoring well MW-1 which was originally installed in January 2005 as part of the WDNR's Chili Petroleum Contamination Investigation (BRRTS #02-10-517968) which was closed in December 2014.
- Prepare a groundwater monitoring report to document groundwater sampling results. The report will include groundwater flow maps, updated tables, and updated concentration graphs.

3.2 Environmental Sampling Methods

AET conducted soil and groundwater sampling using the methods described on the Environmental Sampling Methods pages in **Appendix B**.

Soil samples were collected from the smear zone (9-11 & 13-15 feet bgs) during the installation of groundwater observation wells. The samples were obtained from a split-spoon sampler and obvious odors or visual evidence of contamination were not noted for the samples. AET collected four rounds of groundwater samples from eight groundwater monitoring wells by purging each well and collecting a sample using a disposable bailer. Bailer samples were emptied into the appropriately preserved containers, and all samples were packed in a cooler and shipped with the chain of custody record. AET also collected one round of groundwater samples from four potable wells.

AET submitted soil, groundwater, and LNAPL samples to Test America laboratory for chemical analyses. Soil samples were analyzed for total organic carbon and groundwater samples were analyzed for PVOCs plus naphthalene and VOCs by their respective EPA GC methods. Test America also analyzed LNAPL samples for density, viscosity, and surface and interfacial tension parameters. Grain size analysis was completed in AET's soils laboratory. Samples were collected in accordance with AET's Quality Assurance/Quality Control (QA/QC) guidelines.

3.3 Reference Standards

For this report, we compare the analytical results to the baseline environmental regulatory standards in use by the WDNR. The reference standards are included in the results tables for comparison with assessment results. The media-specific standards are described below.

The following reference standards apply to potential contaminant exposures in groundwater:

- WAC NR 140 - Groundwater Quality Standards.

4.0 PROJECT RESULTS

4.1 Field Observations

On October 1, 2018 AET abandoned monitoring well MW-1 according to procedures outlined in Chapter NR 141.25 of the WAC following discovery of the damaged well that should have been abandoned in 2014 when the WDNR's Chili Petroleum Contamination Investigation was closed. A WDNR monitoring well abandonment form (Form 3300-005) is included in **Appendix C**.

On October 1, 2018, AET installed groundwater observation wells OW-11 and OW-12. The wells were installed to a depth of 20 feet and screened from 10 to 20 feet bgs. Each well is within 30 feet

of monitoring well MW-10. Following installation, the top of casings were surveyed to mean sea level (msl). The wells were installed and developed according to Chapter 141 of the WAC. **Appendix C** contains soil boring logs, observation well construction forms (Form 4400-113A), and well development forms (Form 4400-113B).

Quarterly groundwater samples were collected on October 3, 2018, and January 7, April 26, and July 9, 2019. Depth to groundwater was measured prior to purging and sampling each well. Depth to groundwater in the source area ranged from 7.63 to 13.33 feet bgs in the monitoring wells. Groundwater elevation data is summarized in **Table 1**.

From October 2018 to July 2019 the presence of LNAPL was measured and removed, if present, in monitoring wells MW-3A, MW-4R, and MW-10 located in the source area. LNAPL has not been observed in replacement well MW-4R since its installation following soil excavation activities in June 2016. LNAPL was present from October 2018 to April 2019 at thicknesses ranging from approximately 0.25–1.5 inches in groundwater monitoring well MW-3A. LNAPL was observed in MW-10 at thicknesses ranging from 0.5-8 inches. During the latest round of groundwater sampling, LNAPL was measured in MW-10 at 0.5 inches. Historic LNAPL measurements are summarized in **Table 2**.

Drums of petroleum contaminated soil boring cuttings and well purge water were picked up by WRR Environmental Services, Inc., Eau Claire, WI in December 2018. Drums of well purge water were picked up by Advanced Tank Service Inc., Eau Claire, WI in July 2019. No drums are currently stored on-site.

4.2 Laboratory Analysis

Appendix D includes the laboratory analytical reports and chains-of-custody for this remedial action. Groundwater sample analytical results are summarized in **Table 3**.

4.2.1 Soil Analytical Results

Total organic carbon was measured at less than the method detection limit (MDL) of 600 ppm in both soil samples collected from the smear zone of observation well OW-11.

Grain size analysis was performed on two soil boring samples collected from the smear zone in soil boring OW-11 to document the grain size distribution in the samples. The samples were collected in a split-spoon sampler from the depth intervals of 9 to 11 feet, and 13 to 15 feet. These sample depths correspond to material from the weathered sandstone bedrock zone. The grain size analysis included hydrometer analysis to measure the distribution of grain size passing the number 200 sieve size, which corresponds to silt and clay particles. Based on the grain-size analysis results, the samples meet the USCS classification of a clayey sand, with over 40 percent consisting of silt

and clay particles (i.e., over 40 percent passing the number 200 sieve size). Results of the grain-size tests are presented on the graphs in **Appendix D**.

4.2.2 Groundwater Analytical Results

The WDNR has established groundwater preventive action limits (PALs) and ESs for selected compounds that are listed in WAC NR 140. If a contaminant concentration exceeds the PAL, the WDNR may require monitoring or additional investigation. If the concentration exceeds the ES, the WDNR may require monitoring or remediation.

The latest round of groundwater samples was collected on July 9, 2019 and contaminant concentrations exceeding ESs were detected in monitoring wells MW-3A, MW-4R, MW-4A, MW-5A, and MW-10.

Benzene concentrations above the ES of five parts per billion (ppb) were detected in monitoring wells MW-3A (150 ppb), MW-4R (760 ppb), MW-4A (32 ppb), MW-5A (6.3 ppb), and MW-10 (570 ppb). Ethylbenzene concentrations above the ES of 700 ppb were detected in monitoring wells MW-4R (1,000 ppb), and MW-10 (1,200 ppb). Naphthalene concentrations above the ES of 100 ppb were detected in monitoring wells MW-4R (1,300 ppb) and MW-10 (1,400 ppb). Toluene concentrations above the ES of 800 ppb were detected in monitoring wells MW-3A (14,000 ppb) and MW-10 (890 ppb). Total TMB concentrations above the ES of 480 ppb were detected in monitoring wells MW-4R (3,990 ppb) and MW-10 (4,100 ppb). Total xylene concentrations above the ES of 2,000 ppb were detected in monitoring wells MW-4R (3,200 ppb) and MW-10 (3,700 ppb).

Several PVOCs or naphthalene were detected in monitoring wells MW-1A, MW-3A, MW-4A, MW-4R, MW-5A, MW-7, and MW-W at concentrations above their respective PALs.
Groundwater analytical results are summarized in **Table 3,** and depicted in **Figures 3,4, 5, and 6**.

4.2.3 LNAPL Analytical Results

A sample of the LNAPL submitted for density was measured at 0.75 g/mL. Viscosity was measured at 0.64 cP. Interfacial tension results are in dynes/cm, 68.2 (air-water), 20.8 (air-oil), and 25.1 (oil-water). LNAPL laboratory analytical results are included in **Appendix D**.

5.0 DISCUSSION AND OPINIONS

5.1 Soil Contamination Conditions

From previous investigations, petroleum-contaminated soil that exceeds the WDNR NR 720 soil to groundwater RCLs remains in the Chili Road and County Highway Y road right-of-ways in the

area of monitoring well MW-3A. We calculated the cumulative hazard and cancer risks using WDNR's NR 720 RCL worksheet and determined that the detected concentration levels are below direct contact concerns. Remaining soil contamination extends from approximately four feet bgs to the groundwater table (7.23-15.15 feet bgs) in an area approximately 30 feet east/west by 30 feet north/south and likely extends beneath the County Highway Y and Chili Road pavement.

Petroleum-contaminated also soil remains on the Site in the area of the previous petroleum UST system. Post remedial soil samples that exceed the WDNR NR 720 soil to groundwater RCLs were collected below the groundwater table and within the sandstone bedrock. Except in the limited area around monitoring well MW-3A, remaining soil contamination at the Site appears to be associated with the impacted groundwater smear zone. Total and residual soil contamination analytical results are summarized in **Tables 4 and 5**. The extent of residual soil contamination is depicted on **Figure 7**.

5.2 Groundwater Contamination Conditions

Petroleum-contaminated groundwater is present on the Site in the area that includes the previous petroleum UST system, the adjacent road right-of-way, and off-site property to the west. Groundwater contamination extends in a plume approximately 230 feet by 140 feet surrounding monitoring wells MW-3A, MW-4A, MW-4R, MW-5A, and MW-10.

Measured groundwater elevations during the last year indicated that the water table is nearly flat with a minimal hydraulic gradient. The total head differential for all monitoring wells measured during each sampling event was 3.81 feet (October 2018), 2.4 feet (January 2019), 1.71 feet (April), and 2.56 (July) with a possible east or west flow trend away from the Site. A downward vertical gradient was observed between wells MW-7/PZ-7 and MW-E/MW-W. The average downward vertical gradient in MW-7/PZ-7 for the year was 0.0725 ft/ft. Historically depth to groundwater has ranged from 7.23 to 15.15 feet bgs in the monitoring wells. The extent of groundwater contamination and elevation data are depicted on **Figures 3, 4, 5, and 6**.

We've reviewed the stability of the groundwater plume at MW-3A, MW-4A, MW-4R, MW-5A, and MW-10 using line graphs showing the concentration trends over time for various petroleum constituents. The line graphs were used to assess trends of the groundwater quality in these wells and the relationship to fluctuations of the water table. Petroleum constituent concentrations in the source wells show great variability over time. Concentrations in well MW-3A, MW-4A, and MW-5A are generally decreasing. Concentrations of benzene, MTBE, and total TMBs in well MW-4R are slightly increasing. Concentrations in well MW-10 are generally decreasing despite the presence of free product. The continued presence of free product in MW-10, appears to be

associated with the increase of the water table after October 2018. **Appendix E** includes concentration verses time graphs to illustrate these trends.

5.3 LNAPL Conditions and Assessment

AET has completed a LNAPL assessment to document the potential for future remediation and recovery of the remaining LNAPL at the site. LNAPL at the site is a historic release from a leaded gasoline UST system that operated to fuel fleet vehicles when the site was an active dairy facility. The USTs were removed in the 1980s, thus removing the LNAPL source. Furthermore, excavation of impacted soils further reduced a source by removing soils containing LNAPL. LNAPL remaining at the site has been subject to degradation processes and since reaching the aquifer smear zone, it has also been subject to the flow limitations associated with dual-phase flow through porous media. These flow limitations can cause degraded LNAPL to become stagnate in the subsurface, as well as making it infeasible to remediate and recover if it resides in a soil of relatively low hydraulic conductivity, such as silts and clays.

AET assessed the feasibility of remediating and recovering degraded LNAPL at the Site following the assessment procedures outlined in the WDNR March 2014 guidance document titled "Assessment Guidance for Sites With Residual Weathered Product" (PUB-RR-787). According to the guidance, soil type has the greatest effect on treatment recovery efficiencies of degraded LNAPL. If a soil type in the smear zone is tested to be predominantly clay or silt, then no further recovery feasibility testing is warranted as recovery model sensitivity results using default and database values indicate a precipitous decline in LNAPL recovery efficiencies from these soils. Consequently, remediation and recovery of LNAPL from a silty and clayey smear zone is not feasible. According to the guidance, clayey and silty soils include soils having 40 percent or more fine-grained constituents (i.e., silts and clays).

Grain-size analysis (gradation testing) of samples collected from the smear zone in soil boring OW-11 indicate a silt and clay size fraction exceeding 40 percent. These samples were collected from the weathered sandstone bedrock zone. The large amount of fines in the sample suggest the possible presence of shale beds in this portion of the formation, or possibly the migration clay into the upper part of the formation from the overlying clayey soils. Based on the percentage of fine-grained constituents indicated by the gradation test, no additional recovery feasibility testing is necessary for the Site as LNAPL remediation and recover is not feasible.

Based on the relatively low hydraulic conductivity properties of the fine-grained constituents in the smear zone, the remaining degraded LNAPL at the Site can be expected to be virtually immobile. This lack of mobility is suggested by the absence of LNAPL in observation wells OW-11 and OW-12 installed within 30 feet of groundwater monitoring well MW-10 where LNAPL is

consistently present. Also, the historical presence of LNAPL in well MW-3A, but its absence in nearby wells MW-4R, and MW-5A further suggests the degraded LNAPL at the site is immobile. According to the WDNR guidance, natural attenuation may be shown to be sufficient to offset the dissolved contaminant flux generated from the immobile LNAPL, which based on groundwater sampling analysis at the Site appears to be the case. Consequently, the presence of degraded LNAPL does not mean the groundwater contaminant plume is unstable, and in this regard, immobile LNAPL may be no more of a risk than contaminated soil.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Soil sampling results obtained during the source removal has indicated that most of the soil contaminated at levels above NR 720 soil to groundwater RCLs has been removed. Soil contamination from approximately four to at least 15 feet bgs remains in the area of MW-3A and likely extends beneath the pavement of Chili Road and County Highway Y. In our opinion, remaining soil contamination at the Site is associated with the impacted groundwater smear zone.

Groundwater monitoring shows that petroleum constituents remain on and off the Site at concentrations exceeding the NR 140 ES. Groundwater contamination extends in a plume approximately 230 feet by 140 feet surrounding monitoring wells MW-3A, MW-4A, MW-4R, MW-5A, and MW-10. The extent of impact is limited and is defined by the lack of contamination in groundwater monitoring wells CMW-1, MW-3, MW-6A, MW-7A, MW-6, and MW-9. AET recommends the remaining groundwater contamination be allowed to naturally attenuate.

The removal of the leaking gasoline UST system, along with the excavation of 1,203 tons of petroleum impacted soil, has removed the source for mobilizing the degraded LNAPL at the Site. An assessment of the Site indicates remediation and recovery of remaining LNAPL is not feasible due to the soil composition of the smear zone. Grain size distribution testing shows the smear zone is composed of soils that contain greater than 40 percent silt and clay, which are soils having relatively low permeabilities. As a result of the silt and clay composition, LNAPL in the smear zone is essentially immobile due to flow restrictions caused by dual-phase flow through these low permeability soils. Therefore, we conclude the LNAPL at the Site has reached an equilibrium regarding further migration and/or contaminant loading to the groundwater, and the remaining degraded LNAPL is not “free” or readily mobile. Groundwater monitoring has demonstrated the dissolved contaminant plume is stable and decreasing in the presence of the immobile LNAPL that remains at the Site.

Based on these results, AET recommends that this Site be considered for closure. If the WDNR agrees with these recommendations, AET will submit a closure application, GIS Registry packet, and off-site notifications.

7.0 REPORT CLOSURE

7.1 Reliance

AET has prepared this report for the exclusive use of the User for specific application to the Site. Written authorization by AET is necessary for other parties to rely on this report.

Because site uses and environmental conditions can change over time, this report must be considered time-sensitive. AET should be consulted if 180 days have elapsed since the report date or the passage of time results in uncertainty about the continuing applicability of this report.

7.2 Standard of Care

AET has endeavored to perform services for this project in a manner consistent with the level of skill and care ordinarily exercised by other members of the profession currently practicing in this area, under similar budgetary and time constraints. No warranty, express or implied, is made.

This report is based on our current understanding of the project and conditions at the Site. If conditions differing from our original understanding or findings are identified, AET should be consulted to determine if there are material impacts on our conclusions or recommendations.

7.3 Methodology

This investigation has been conducted under the supervision of an Environmental Professional and for the objectives described in the Purpose section of this report. AET's findings, opinions, conclusions, and recommendations are based on the Scope of Services defined in this report and are not intended to address non-scope considerations.

7.4 Remarks

The data derived through this investigation has been used to develop professional opinions about the subsurface and environmental conditions at the Site. However, we recognize that not all critical information may have become known to AET and that no exploration program can fully reveal what is in the subsurface. As a result, there may be impacted locations or media that were not detected, and there may be contaminants present other than those for which we tested given the Purpose and Scope of Services for this investigation.

8.0 QUALIFICATIONS AND SIGNATURES

"I, Michael K. Neal, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all of the 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."

"I, Robert J. Wahlstrom, 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."

Report Prepared By:

Michael K. Neal
Professional Hydrologist/Geomorphologist

Report Reviewed By:

Robert J. Wahlstrom, PE, PG
Principal Engineer/Geologist

Tables

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GROUNDWATER ELEVATIONS

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

Well Number	Date	Well Depth	TOC Elevation	Depth to Water	Water Table Elevation
MW-1A	August 9, 2006	20.00	1234.83	13.60	1221.23
	April 12, 2007		1235.38	12.90	1221.93
	November 16, 2007			10.50	1224.33
	October 17, 2008			14.10	1220.73
	May 20, 2010			11.90	1222.93
	November 29, 2012			14.00	1220.83
	April 30, 2013			9.95	1224.88
	April 27, 2015			9.45	1225.38
	July 7, 2015			9.65	1225.18
	July 11, 2016			10.07	1225.31
	October 17, 2016			7.59	1227.79
	March 22, 2017			8.71	1226.67
	June 1, 2017			7.94	1227.44
	September 8, 2017			10.94	1224.44
	December 4, 2017			11.09	1224.29
	April 30, 2018			9.73	1225.65
	July 9, 2018			10.69	1224.69
	October 3, 2018			11.91	1223.47
	January 7, 2019			10.42	1224.96
	April 26, 2019			8.80	1226.58
	July 9, 2019			8.03	1227.35
MW-2A	August 9, 2006	20.00	1235.38	14.10	1221.28
	April 12, 2007			14.00	1221.38
	November 16, 2007			11.00	1224.38
	October 17, 2008			14.55	1220.83
	May 20, 2010			12.35	1223.03
	November 29, 2012			14.40	1220.98
	April 30, 2013			10.40	1224.98
	April 27, 2015			9.65	1225.73
	July 7, 2015			9.85	1225.53
	July 11, 2016			10.36	1225.02
	October 17, 2016			7.99	1227.39
	March 22, 2017			8.98	1226.40
	May 24, 2017			8.51	1226.87

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GROUNDWATER ELEVATIONS

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

Well Number	Date	Well Depth	TOC Elevation	Depth to Water	Water Table Elevation
MW-3	January 21, 2005	21.10	1233.54	12.99	1220.55
	January 27, 2005			13.29	1220.25
	June 21, 2005			10.04	1223.50
	July 21, 2005			11.40	1222.14
	January 23, 2006			12.95	1220.59
	August 9, 2006			12.45	1221.09
	April 12, 2007			11.65	1221.89
	November 16, 2007			9.10	1224.44
	October 17, 2008			12.80	1220.74
	May 20, 2010			10.50	1223.04
	November 29, 2012			12.55	1220.99
	April 30, 2013			8.40	1225.14
	April 27, 2015			7.80	1225.74
	July 7, 2015			8.00	1225.54
	July 11, 2016			8.54	1225.00
	October 17, 2016			6.08	1227.46
	March 22, 2017			7.15	1226.39
	June 1, 2017			6.35	1227.19
	September 8, 2017			9.35	1224.19
	December 4, 2017			9.50	1224.04
	April 30, 2018			8.11	1225.43
	July 9, 2018			9.09	1224.45
	October 3, 2018			10.33	1223.21
	January 7, 2019			8.84	1224.70
	April 26, 2019			7.15	1226.39
	July 9, 2019			6.42	1227.12
MW-3A	August 9, 2006	20.00	1235.89	13.60	1222.29
	April 12, 2007			13.70	1222.19
	November 16, 2007			10.75	1225.14
	October 17, 2008			14.50	1221.39
	May 20, 2010			11.70	1224.19
	November 29, 2012			14.20	1221.69
	April 30, 2013			10.10	1225.79
	April 27, 2015			8.70	1227.19
	July 7, 2015			8.70	1227.19
	July 11, 2016			8.55	1227.34
	October 17, 2016			7.23	1228.66
	March 22, 2017			7.82	1228.07
	June 1, 2017			7.50	1228.39
	September 8, 2017			9.65	1226.24
	December 4, 2017			10.95	1224.94
	April 30, 2018			10.45	1225.44
	July 9, 2018			10.59	1225.30
	October 3, 2018			11.79	1224.10
	January 7, 2019			9.75	1226.14
	April 26, 2019			9.10	1226.79
	July 9, 2019			7.63	1228.26

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GROUNDWATER ELEVATIONS

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

Well Number	Date	Well Depth	TOC Elevation	Depth to Water	Water Table Elevation
MW-4	January 21, 2005	21.20	1235.80	15.15	1220.65
	January 27, 2005			15.50	1220.30
	June 21, 2005			12.26	1223.54
	April 12, 2007			13.90	1221.90
	November 16, 2007			11.30	1224.50
	October 17, 2008			14.70	1221.10
	May 20, 2010			12.20	1223.60
	November 29, 2012			14.60	1221.20
	April 30, 2013			9.50	1226.30
	April 27, 2015			8.35	1227.45
	July 7, 2015			9.65	1226.15
	June 7, 2016			9.33	1226.47
MW-4R	July 11, 2016	20.00	1236.65	11.06	1225.59
	October 17, 2016		1236.83	9.09	1227.74
	March 22, 2017			10.01	1226.82
	June 1, 2017			9.23	1227.60
	September 8, 2017			12.23	1224.60
	December 4, 2017			12.46	1224.37
	April 30, 2018			11.17	1225.66
	July 9, 2018			11.92	1224.91
	October 3, 2018			13.33	1223.50
	January 7, 2019			11.75	1225.08
	April 26, 2019			10.13	1226.70
	July 9, 2019			9.24	1227.59
MW-4A	November 16, 2007	18.00	1235.58	10.75	1224.83
	October 17, 2008			13.35	1222.23
	May 20, 2010			12.20	1223.38
	November 29, 2012			14.40	1221.18
	April 30, 2013			10.70	1224.88
	April 27, 2015			9.60	1225.98
	July 7, 2015			9.65	1225.93
	July 11, 2016			10.15	1225.43
	October 17, 2016			7.68	1227.90
	March 22, 2017			8.78	1226.80
	June 1, 2017			7.83	1227.75
	September 8, 2017			11.15	1224.43
	December 4, 2017			11.43	1224.15
	April 30, 2018			10.15	1225.43
	July 9, 2018			10.83	1224.75
	October 3, 2018			12.32	1223.26
	January 7, 2019			10.47	1225.11
	April 26, 2019			9.22	1226.36
	July 9, 2019			8.19	1227.39

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GROUNDWATER ELEVATIONS

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

Well Number	Date	Well Depth	TOC Elevation	Depth to Water	Water Table Elevation
MW-5	April 29, 2005	21.70	1238.67	15.81	1222.86
	June 21, 2005			14.97	1223.70
	July 21, 2005			16.26	1222.41
	January 23, 2006			17.90	1220.77
	July 7, 2015			11.50	1227.17
	July 11, 2016			11.78	1226.89
	October 17, 2016			9.96	1228.71
	March 22, 2017			10.35	1228.32
	June 1, 2017			10.18	1228.49
	September 8, 2017			12.57	1226.10
	December 4, 2017			13.45	1225.22
	April 30, 2018			11.36	1227.31
	July 9, 2018			12.21	1226.46
	October 3, 2018			12.20	1226.47
	January 7, 2019			12.12	1226.55
	April 26, 2019			11.41	1227.26
	July 9, 2019			10.10	1228.57
MW-5A	November 16, 2007	18.00	1236.41	10.85	1225.56
	October 17, 2008			14.40	1222.01
	May 20, 2010			11.60	1224.81
	November 29, 2012			13.50	1222.91
	April 30, 2013			10.10	1226.31
	April 27, 2015			9.20	1227.21
	July 7, 2015			8.80	1227.61
	July 11, 2016			8.95	1227.46
	October 17, 2016			7.60	1228.81
	March 22, 2017			8.71	1227.70
	June 1, 2017			7.65	1228.76
	September 8, 2017			10.01	1226.40
	December 4, 2017			10.93	1225.48
	April 30, 2018			9.90	1226.51
	July 9, 2018			9.98	1226.43
	October 3, 2018			12.10	1224.31
	January 7, 2019			10.15	1226.26
	April 26, 2019			9.23	1227.18
	July 9, 2019			7.75	1228.66

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GROUNDWATER ELEVATIONS

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 05510

Well Number	Date	Well Depth	TOC Elevation	Depth to Water	Water Table Elevation
MW-6	April 29, 2005	21.10	1236.90	14.72	1222.18
	June 21, 2005			13.32	1223.58
	July 21, 2005			14.60	1222.30
	January 23, 2006			16.30	1220.60
	November 29, 2012			15.80	1221.10
	April 30, 2013			11.80	1225.10
	April 27, 2015			11.00	1225.90
	July 7, 2015			11.20	1225.70
	July 11, 2016			11.70	1225.20
	October 17, 2016			9.24	1227.66
	March 22, 2017			10.29	1226.61
	June 1, 2017			9.52	1227.38
	September 8, 2017			12.51	1224.39
	December 4, 2017			13.41	1223.49
	April 30, 2018			11.35	1225.55
	July 9, 2018			12.20	1224.70
	October 3, 2018			13.41	1223.49
	January 7, 2019			11.92	1224.98
	April 26, 2019			10.32	1226.58
	July 9, 2019			9.51	1227.39
MW-6A	July 7, 2015	15.00	1236.27	9.50	1226.77
	July 11, 2016			9.83	1226.44
	October 17, 2016			7.55	1228.72
	March 22, 2017			8.63	1227.64
	June 1, 2017			9.52	1226.75
	September 8, 2017			10.86	1225.41
	December 4, 2017			11.14	1225.13
	April 30, 2018			10.56	1225.71
	July 9, 2018			10.42	1225.85
	October 3, 2018			11.88	1224.39
	January 7, 2019			10.25	1226.02
	April 26, 2019			9.53	1226.74
	July 9, 2019			7.71	1228.56

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GROUNDWATER ELEVATIONS

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

Well Number	Date	Well Depth	TOC Elevation	Depth to Water	Water Table Elevation
MW-7	April 29, 2005	19.80	1233.49	9.51	1223.98
	June 21, 2005			9.75	1223.74
	July 21, 2005			11.17	1222.32
	January 23, 2006			12.69	1220.80
	August 9, 2006			12.20	1221.29
	April 12, 2007			11.40	1222.09
	November 16, 2007			8.95	1224.54
	October 17, 2008			12.50	1220.99
	May 20, 2010			10.00	1223.49
	November 29, 2012			12.10	1221.39
	April 30, 2013			8.00	1225.49
	April 27, 2015			7.20	1226.29
	July 7, 2015			7.65	1225.84
	July 11, 2016			8.09	1225.40
	October 17, 2016			5.76	1227.73
	March 22, 2017			6.71	1226.78
	June 1, 2017			5.89	1227.60
	September 8, 2017			8.96	1224.53
	December 4, 2017			9.15	1224.34
	April 30, 2018			7.66	1225.83
	July 9, 2018			8.61	1224.88
	October 3, 2018			9.95	1223.54
	January 7, 2019			8.53	1224.96
	April 26, 2019			6.71	1226.78
	July 9, 2019			5.90	1227.59
MW-7A	July 7, 2015	15.00	1234.37	8.40	1225.97
	July 11, 2016			8.62	1225.75
	October 17, 2016			6.11	1228.26
	March 22, 2017			7.11	1227.26
	June 1, 2017			6.18	1228.19
	September 8, 2017			9.18	1225.19
	December 4, 2017			9.46	1224.91
	April 30, 2018			8.19	1226.18
	July 9, 2018			8.89	1225.48
	October 3, 2018			10.35	1224.02
	January 7, 2019			8.72	1225.65
	April 26, 2019			7.09	1227.28
	July 9, 2019			6.22	1228.15

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GROUNDWATER ELEVATIONS

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

Well Number	Date	Well Depth	TOC Elevation	Depth to Water	Water Table Elevation
PZ-7	April 29, 2005	46.30	1233.59	15.60	1217.99
	June 21, 2005			13.54	1220.05
	July 21, 2005			13.81	1219.78
	January 23, 2006			15.98	1217.61
	August 9, 2006			14.96	1218.63
	April 12, 2007			13.25	1220.34
	November 16, 2007			11.65	1221.94
	October 17, 2008			15.10	1218.49
	May 20, 2010			12.75	1220.84
	November 29, 2012			14.45	1219.14
	April 30, 2013			10.45	1223.14
	April 27, 2015			9.50	1224.09
	July 7, 2015			10.25	1223.34
	July 11, 2016			11.02	1222.57
	October 17, 2016			8.68	1224.91
	March 22, 2017			9.49	1224.10
	June 1, 2017			6.89	1226.70
	September 8, 2017			11.54	1222.05
	December 4, 2017			11.65	1221.94
	April 30, 2018			10.94	1222.65
	July 9, 2018			11.44	1222.15
	October 3, 2018			12.50	1221.09
	January 7, 2019			11.08	1222.51
	April 26, 2019			9.51	1224.08
	July 9, 2019			8.73	1224.86
MW-9	April 29, 2005	16.10	1231.65	8.32	1223.33
	June 21, 2005			7.49	1224.16
	July 21, 2005			9.14	1222.51
	January 23, 2006			10.52	1221.13
	August 9, 2006			10.00	1221.65
	April 12, 2007			8.80	1222.85
	November 16, 2007			6.75	1224.90
	October 17, 2008			10.50	1221.15
	May 20, 2010			7.90	1223.75
	November 29, 2012			10.00	1221.65
	April 30, 2013			5.40	1226.25
	April 27, 2015			5.00	1226.65
	July 7, 2015			5.55	1226.10
	July 11, 2016			5.95	1225.70
	October 17, 2016			4.05	1227.60
	March 22, 2017			4.43	1227.22
	June 1, 2017			3.52	1228.13
	September 8, 2017			6.73	1224.92
	December 4, 2017			6.88	1224.77
	April 30, 2018			5.16	1226.49
	July 9, 2018			6.49	1225.16
	October 3, 2018			7.47	1224.18
	January 7, 2019			6.25	1225.40
	April 26, 2019			4.24	1227.41
	July 9, 2019			3.65	1228.00

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GROUNDWATER ELEVATIONS

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

Well Number	Date	Well Depth	TOC Elevation	Depth to Water	Water Table Elevation
MW-10	June 16, 2016	20.00	1240.87	15.54	1225.33
	July 11, 2016			15.30	1225.57
	October 17, 2016			12.99	1227.88
	March 22, 2017			13.95	1226.92
	June 1, 2017			13.18	1227.69
	September 8, 2017			16.10	1224.77
	December 4, 2017			16.21	1224.66
	April 30, 2018				1240.87
	June 5, 2018				1240.87
	July 9, 2018			15.87	1225.00
	September 11, 2018				1240.87
	September 21, 2018				1240.87
	September 24, 2018				1240.87
	October 1, 2018				1240.87
	October 3, 2018			17.45	1223.42
	October 10, 2018				1240.87
	October 24, 2018				1240.87
	November 14, 2018				1240.87
	November 30, 2018				1240.87
	January 7, 2019			15.76	1225.11
	February 22, 2019			17.61	1223.26
	April 9, 2019			15.82	1225.05
	April 26, 2019			14.29	1226.58
	May 17, 2019			14.02	1226.85
	May 23, 2019			13.71	1227.16
	May 31, 2019			13.33	1227.54
	June 21, 2019			13.72	1227.15
	July 9, 2019			12.31	1228.56
CMW-1	April 5, 2007	18.00	1234.64	12.57	1222.07
	July 3, 2007			11.96	1222.68
	November 1, 2007			8.38	1226.26
	January 17, 2008			10.63	1224.01
	December 19, 2008			13.72	1220.92
	May 21, 2010			10.88	1223.76
	November 29, 2012			13.10	1221.54
	April 30, 2013			9.15	1225.49
	April 27, 2015			8.30	1226.34
	July 7, 2015			8.30	1226.34
	July 11, 2016			8.70	1225.94
	October 17, 2016			6.38	1228.26
	March 22, 2017			7.47	1227.17
	June 1, 2017			6.43	1228.21
	September 8, 2017			9.69	1224.95
	December 4, 2017			9.97	1224.67
	April 30, 2018			8.80	1225.84
	July 9, 2018			9.39	1225.25
	October 3, 2018			10.37	1224.27
	January 7, 2019			7.81	1226.83
	April 26, 2019			6.57	1228.07
	July 9, 2019			4.96	1229.68

TABLE 1 (page 9 of 9)

GROUNDWATER ELEVATIONS

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

Well Number	Date	Well Depth	TOC Elevation	Depth to Water	Water Table Elevation
Street MW-East (WPZ-1)	July 7, 2015	32.00	1237.41	11.80	1225.61
	July 11, 2016			12.33	1225.08
	October 17, 2016			9.90	1227.51
	March 22, 2017			10.91	1226.50
	June 1, 2017			10.16	1227.25
	September 8, 2017			13.19	1224.22
	December 4, 2017			14.09	1223.32
	April 30, 2018			11.96	1225.45
	July 9, 2018			12.95	1224.46
	October 3, 2018			14.47	1222.94
	January 7, 2019			14.04	1223.37
	April 26, 2019			11.05	1226.36
	July 9, 2019			11.63	1225.78
Street MW-West (WMW-1)	July 7, 2015	21.00	1237.55	9.55	1228.00
	July 11, 2016			9.90	1227.65
	October 17, 2016			8.57	1228.98
	March 22, 2017			9.45	1228.10
	June 1, 2017			8.70	1228.85
	September 8, 2017			10.78	1226.77
	December 4, 2017			11.69	1225.86
	April 30, 2018			10.60	1226.95
	July 9, 2018			10.41	1227.14
	October 3, 2018			11.03	1226.52
	January 7, 2019			10.60	1226.95
	April 26, 2019			10.43	1227.12
	July 9, 2019			8.95	1228.60
Quonset Hut Well (WMW-4)	July 7, 2015	21.00	1240.83	12.75	1228.08
	July 11, 2016			12.96	1227.87
	October 17, 2016			12.00	1228.83
	March 22, 2017			12.10	1228.73
	June 1, 2017			11.49	1229.34
	September 8, 2017			13.60	1227.23
	December 4, 2017			14.43	1226.40
	April 30, 2018			13.53	1227.30
	July 9, 2018			13.27	1227.56
	October 3, 2018			13.81	1227.02
	January 7, 2019			13.73	1227.10
	April 26, 2019			13.02	1227.81
	July 9, 2019			11.71	1229.12
OMW-11 North	October 3, 2018	20.00	1240.12	16.73	1223.39
	January 7, 2019			15.11	1225.01
	April 26, 2019			13.59	1226.53
	July 9, 2019			12.65	1227.47
OMW-12 East	October 3, 2018	20.00	1240.13	16.78	1223.35
	January 7, 2019			15.16	1224.97
	April 26, 2019			13.55	1226.58
	July 9, 2019			12.67	1227.46

Wells MW-E (WPZ-1) & MW-Wt (WMW-1) were installed during the Site investigation of the Wolfe Property in Febuary 2007 (BRRTS No. 03-10-545213/09-10-545213).

TABLE 2
HISTORIC FREE PRODUCT MEASUREMENTS
DAIRICONCEPTS SITE, CHILI, WISCONSIN
AET PROJECT NO. 03-05510

	MW-3A		MW-4		MW-10	
Date	Product Thickness (in)	Gallons Removed	Product Thickness (in)	Gallons Removed	Product Thickness (in)	Gallons Removed
May 3, 2006	---	---	6	10	---	---
May 19, 2006	---	---	12	10	---	---
July 28, 2006	---	---	23	10	---	---
August 8, 2006	--	--	4	10	---	---
August 9, 2006	---	---	1.5	10	---	---
September 27, 2006	0	0	7	10	---	---
November 1, 2006	0	0	0.5	10	---	---
April 12, 2007	5	10	0.5	5	---	---
July 13, 2007	27	2	24	2	---	---
July 20, 2007	17	2	8	1.5	---	---
August 3, 2007	8.75	1	3.5	0.5	---	---
August 13, 2007	2.5	0.5	2	0.5	---	---
August 24, 2007	0.5	0.5	1.25	0.5	---	---
August 31, 2007	14	2	0.5	0	---	---
September 7, 2007	20.5	3	0.5	0	---	---
September 14, 2007	19	2.5	0.3	0	---	---
September 24, 2007	18	2.5	0.5	0	---	---
October 5, 2007	22	3.5	0.3	0	---	---
October 8, 2007	3.5	5	0	0	---	---
October 15, 2007	35	5	---	---	---	---
November 2, 2007	33	3.5	0	0	---	---
November 16, 2007	21	2	0	0	---	---
May 16, 2008	29	4	18	4	---	---
June 27, 2008	40	4.5	23.5	2.5	---	---
July 18, 2008	40	4.5	37	2	---	---
July 19, 2008	32	1.5	---	---	---	---
August 7, 2008	35	3.5	24	1	---	---
August 27, 2008	33	3.5	16	1	---	---
September 19, 2008	18	2	4	1	---	---
October 17, 2008	8	5	5	5	---	---
May 27, 2009	28	2	---	---	---	---
June 12, 2009	34	2	25	2	---	---
June 26, 2009	42	2.5	20	1.5	---	---
July 2, 2009	38	2.5	13	1.5	---	---
July 10, 2009	26	3	13	1.5	---	---
July 27, 2009	17	2	7	1	---	---
August 14, 2009	11	1	---	---	---	---
August 21, 2009	8	1.5	---	---	---	---
September 4, 2009	8	1	7	1	---	---
September 11, 2009	7	1	7	1	---	---
September 18, 2009	10	1.5	5	1	---	---
September 25, 2009	5	1	1	0.5	---	---
October 9, 2009	3	0.5	1	0.5	---	---

TABLE 2
HISTORIC FREE PRODUCT MEASUREMENTS
DAIRICONCEPTS SITE, CHILI, WISCONSIN
AET PROJECT NO. 03-05510

	MW-3A		MW-4		MW-10	
Date	Product Thickness (in)	Gallons Removed	Product Thickness (in)	Gallons Removed	Product Thickness (in)	Gallons Removed
October 16, 2009	3	0.5	0.5	0.5	---	---
November 13, 2009	13	1	0.5	0.5	---	---
November 25, 2009	18	1	0.5	0.5	---	---
April 2, 2010	16	1	20	1	---	---
April 10, 2010	4.5	0.5	12	0.5	---	---
April 19, 2010	5	0.5	15	1.5	---	---
April 29, 2010	9	1	24	2	---	---
May 7, 2010	9	1	20	1	---	---
May 20, 2010	24	2	18	2	---	---
May 11, 2012	0	0	3	1	---	---
June 6, 2012	0	0	0.5	0.5	---	---
June 26, 2012	0	0	0.5	0.5	---	---
July 11, 2012	0	0	0.5	0.5	---	---
July 24, 2012	0	0	0	0	---	---
August 10, 2012	0	0	0.25	0.5	---	---
August 31, 2012	0	0	0.5	0.5	---	---
September 11, 2012	0	0	0	0	---	---
September 25, 2012	0	0	0.25	0.5	---	---
November 29, 2012						
April 30, 2013						
April 27, 2015						
July 7, 2015						
July 11, 2016	0	0	MW-4 abandoned 6-6-2016		---	---
October 17, 2016						
March 22, 2017						
June 1, 2017						
September 8, 2017	0	0	---	---	4	5
December 4, 2017	0	0	---	---	15	15
April 30, 2018	1	10	---	---	4	15
June 5, 2018	0.5	15	---	---	4	15
July 9, 2018	0	0	---	---	3	15
September 11, 2018	0.5	0.5	---	---	1.8	4
September 21, 2018	0.5	0	---	---	0.5	0
September 24, 2018	0.5	0.5	---	---	0.5	1
October 1, 2018	0.5	0	---	---	1	1
October 3, 2018	0.5	1	---	---	0.5	1
October 10, 2018	0.25	0	---	---	5	1
October 24, 2018	0	0	---	---	3	0.5
November 14, 2018	0	0	---	---	0.5	0.5
November 30, 2018	---	---	---	---	3	1
January 7, 2019	0.25	5	---	---	0.5	10
February 22, 2019	0	0	---	---	8	1
April 9, 2019	1.5	1	---	---	0.75	1
April 26, 2019	0	0	---	---	0.5	4
May 17, 2019	0	0	---	---	2.5	1

TABLE 2
HISTORIC FREE PRODUCT MEASUREMENTS
DAIRICONCEPTS SITE, CHILI, WISCONSIN
AET PROJECT NO. 03-05510

	MW-3A		MW-4		MW-10	
Date	Product Thickness (in)	Gallons Removed	Product Thickness (in)	Gallons Removed	Product Thickness (in)	Gallons Removed
May 23, 2019	0	0	---	---	1	2
May 31, 2019	0	0	---	---	0.5	2
June 21, 2019	0	0	---	---	3	2
July 9, 2019	0	0	---	---	0.5	5

TABLE 3 (page 1 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-1A																				*NR 140 Remedial Action Limits*	
Date	8/9/06	4/12/07	11/16/07	10/17/08	5/20/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	10/17/16	3/22/17	6/1/17	9/8/17	12/4/17	4/30/18	7/9/18	10/3/18	1/7/19	4/26/19	7/9/19	
Elevation (ft)	1221.23	1221.93	1224.33	1220.73	1222.93	1220.83	1224.88	1225.38	1225.18	1225.31	1227.79	1228.07	1227.44	1224.44	1224.29	1225.65	1224.69	1223.47	1224.96	1226.58	1227.35	
ANALYTE																					*ES*	*PAL*
VOCs/PVOCs (ppb)																						
Benzene	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.074	< 0.2	< 0.074	< 0.15	*1.9*	*4.2*	*3.5*	**6**	< 0.15	*2.5*	*3.7*	*0.78*	< 0.36	0.41*	*1.2*	*5*	*0.5*
1,2-DCA	*1.12*	*0.8*	*0.7*	< 0.3	*0.81*	*1.4*	*1.8*	*2.4*	*1.1*	*1.3*	*1.8*	*3.5*	*1.5*	< 0.39	< 0.39	*3.3*	*1.8*	---	---	---	---	*5*	*0.5*
EDB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	< 0.39	< 0.39	---	---	---	---	*0.05*	*0.005*
Ethylbenzene	< 0.1	< 0.5	< 0.5	< 0.5	0.28	< 0.19	< 0.13	< 0.19	< 0.13	< 0.18	< 0.19	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.37	< 0.37	< 0.37	< 0.37	*700*	*140*
MTBE	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.12	< 0.24	< 0.17	< 0.24	< 0.39	< 0.17	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.39	< 0.24	0.25*	< 0.24	0.35*	*60*	*12*
Naphthalene	< 1	< 0.25	< 0.25	< 0.25	< 1	< 0.21	< 0.16	< 0.21	< 0.16	< 0.34	< 0.21	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 2.4	< 2.4	< 2.4	< 2.4	*100*	*10*
Toluene	0.53	< 0.2	< 0.2	< 0.2	< 4	0.36	< 0.11	< 0.17	< 0.11	< 0.15	< 0.17	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	0.38	< 0.33	< 0.33	< 0.33	< 0.33	*800*	*160*
1,2,4- & 1,3,5-TMB	0.26	< 0.2	< 0.2	< 0.2	0.21	< 0.18	< 0.18	< 0.17	< 0.18	< 0.36	< 0.17	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.3	< 0.3	< 0.3	< 0.3	*480*	*96*
Total Xylenes	0.1	< 0.5	< 0.5	< 0.5	< 4	0.5	< 0.068	< 0.38	< 0.068	< 0.22	< 0.58	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.58	< 0.58	< 0.58	< 0.58	*2,000*	*400*

--- = not analyzed or no standard DCA = dichloroethane EDB = 1,2-dibromoethane MTBE = methyl-tert-butylether ppb = parts per billion TMB = trimethylbenzene

***** = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet): 20

TOC Elevation (feet): 1235.38

Date Installed: 8-Aug-06

Screen Length (feet): 10

TABLE 3 (page 2 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-2A												*NR 140 Remedial Action Limits*	
Date	8/9/06	4/12/07	11/16/07	10/17/08	5/10/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	10/17/16	3/22/17		
Elevation (ft)	1221.28	1221.38	1224.38	1220.83	1223.03	1220.98	1224.98	1225.73	1225.53	1225.02	1227.39	1226.40		
ANALYTE													*ES*	*PAL*
VOCs/PVOCs (ppb)														
Benzene	**632**	< 0.2	*3.8*	**113**	*2.1*	**49**	*5*	**6.3**	**8.7**	**8.9**	< 0.36	< 0.15	*5*	*0.5*
1,2-DCA	**85.2**	*0.74*	*2.2*	< 3	*0.92*	**5.4**	< 0.28	< 0.2	< 0.28	< 0.39	---	< 0.39	*5*	*0.5*
1,2-Dichloropropane	*1.82*	< 0.5	< 0.5	< 3	---	---	---	---	---	---	---	---	*5*	*0.5*
Ethylbenzene	26.3	< 0.5	< 0.5	11.4	< 0.2	0.23	< 0.13	< 0.19	< 0.13	< 0.18	< 0.37	< 0.18	*700*	*140*
Isopropylbenzene	5.29	< 0.2	< 0.2	1.5	---	---	---	---	---	---	---	---	---	---
MTBE	< 1	< 0.5	< 0.5	< 5	< 0.5	< 0.12	< 0.24	< 0.17	< 0.24	< 0.39	< 0.24	< 0.39	*60*	*12*
Naphthalene	< 10	< 0.25	< 0.25	< 10	< 1	0.82	< 0.16	< 0.21	< 0.16	< 0.34	< 2.4	< 0.34	*100*	*10*
Toluene	24.2	< 0.2	0.52	11	< 0.4	0.69	< 0.11	< 0.17	< 0.11	< 0.15	< 0.33	< 0.15	*800*	*160*
1,2,4- & 1,3,5-TMB	3.29	< 0.25	< 0.25	4.8	< 0.2	< 0.17	< 0.18	< 0.17	< 0.18	< 0.36	< 0.3	< 0.36	*480*	*96*
Total Xylenes	20.35	< 0.5	< 0.5	23	< 0.4	1.2	< 0.068	< 0.38	< 0.068	< 0.22	< 0.58	< 0.22	*2,000*	*400*

--- = not analyzed or no standard DCA = dichloroethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	20
TOC Elevation (feet):	1235.38
Date Installed:	9-Aug-06

MW-2A was damaged and abandoned following street resurfacing activities on May 24, 2017.

TABLE 3 (page 3 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-3																	*NR 140 Remedial Action Limits*	
Date	1/27/05	6/21/05	7/21/05	1/23/06	8/8/06	4/12/07	11/16/07	10/17/08	5/10/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	3/22/17	9/8/17	4/30/18		
Elevation (ft)	1220.55	1223.50	1222.14	1220.59	1221.09	1221.89	1224.44	1220.74	1223.04	1220.99	1225.14	1225.74	1225.54	1225.00	1226.39	1224.19	1225.43		
ANALYTE																		*ES*	*PAL*
VOCs/PVOCs (ppb)																			
Benzene	< 0.3	< 0.3	< 0.3	< 0.3	< 0.15	< 0.15	< 0.2	< 0.2	< 0.2	< 0.2	< 0.074	< 0.2	< 0.074	< 0.15	< 0.15	< 0.15	< 0.15	*5*	*0.5*
1,2-DCA	< 0.3	< 0.3	< 0.3	< 0.3	< 0.15	< 0.15	<0.2	< 0.2	< 0.3	< 0.2	< 0.28	< 0.2	< 0.28	< 0.39	< 0.39	< 0.39	< 0.39	*5*	*0.5*
EDB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	< 0.39	*0.05*	*0.005*
Ethylbenzene	< 0.3	< 0.3	< 0.3	< 0.3	< 0.1	< 0.1	< 0.2	< 0.2	< 0.3	< 0.19	< 0.13	< 0.19	< 0.13	< 0.18	< 0.18	< 0.18	< 0.18	*700*	*140*
MTBE	< 0.3	< 0.3	< 0.3	< 0.3	< 0.1	< 0.1	< 0.5	< 0.5	< 0.5	< 0.12	< 0.24	< 0.17	< 0.24	< 0.39	< 0.39	< 0.39	< 0.39	*60*	*12*
Naphthalene	< 0.3	< 0.3	< 0.3	< 0.3	< 1	< 1	< 0.25	< 0.25	< 1	< 0.21	< 0.16	< 0.21	< 0.16	< 0.34	< 0.34	< 0.34	< 0.34	*100*	*10*
Toluene	< 0.3	< 0.3	< 0.3	< 0.3	< 0.4	< 0.4	< 0.2	< 0.2	< 0.4	0.24	< 0.11	< 0.17	< 0.11	< 0.15	< 0.15	< 0.15	< 0.15	*800*	*160*
1,2,4- & 1,3,5-TMB	< 0.3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	< 0.17	< 0.18	< 0.17	< 0.18	< 0.36	< 0.36	< 0.36	< 0.36	*480*	*96*
Total Xylenes	< 0.3	< 0.3	< 0.3	< 0.3	< 0.4	< 0.4	< 0.5	< 0.5	< 0.4	< 0.18	< 0.068	< 0.38	< 0.068	< 0.22	< 0.22	< 0.22	< 0.22	*2,000*	*400*

--- = not analyzed or no standard DCA = dichloroethane EDB = 1,2-dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

MW-3 was installed during the WDNR's Chili Petroleum Contamination Investigation in April 2005 (BRRTS No. 02-10-517968). DairiConcepts accepted responsibility for this well in June 2011.

Well Depth (feet):	21.1
TOC Elevation (feet):	1233.54
Date Installed:	19-Jan-05
Screen Length (feet):	15

TABLE 3 (page 4 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-3A																				NR 140 Remedial Action Limits	
Date	8/9/06	4/12/07	11/16/07	10/17/08	5/20/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	10/17/16	3/22/17	6/1/17	9/8/17	12/4/17	4/30/18	7/9/18	10/3/18	1/7/19	4/26/19	7/9/19	
Elevation (ft)	1222.29	1222.19	1225.14	1221.39	1224.19	1221.69	1225.79	1227.19	1227.19	1227.34	1228.66	1228.07	1228.39	1226.24	1224.94	1225.44	1225.30	1224.10	1226.14	1226.79	1228.26	
ANALYTE																						ES / PAL
VOCs/PVOCs (ppb)																						
Benzene	**11,100**	**12,000**	**8,400**	**5,230**	**3,220**	**1,600**	**2,500**	**3,600**	**8,300**	**4,000**	**3,000**	**2,900**	**3,200**	**2,200**	**1,700**	**2,900**	**2,100**	**1,400**	**2,800**	**2,700**	**150**	*5* / *0.5*
Bromomethane	< 50	< 50	***160***	< 500	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	*10* / *1*
n-Butylbenzene	34	740	740	1,830	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--- / ---
sec-Butylbenzene	7.2	160	160	< 150	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--- / ---
Chloromethane	< 50	< 50	**170**	< 200	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	*3* / *0.3*
2-Chlorotoluene	82	< 120	< 250	< 150	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--- / ---
1,2-DCA	< 50	< 50	< 250	< 150	**121**	< 0.2	< 28	**150**	< 140	< 7.8	< 20	< 7.8	< 3.9	< 7.8	< 7.8	< 7.8	< 2	---	---	---	---	*5* / *0.5*
EDB	---	**300**	**160**	< 150	---	---	---	---	---	---	---	**56**	**45**	< 7.7	---	*< 7.7*	**37**	---	---	---	---	*0.05* / *0.005*
Ethylbenzene	**1,260**	**4,400**	**1,900**	**2,990**	**1,470**	**610**	**1,100**	**1,600**	**21,000**	**1,600**	**1,500**	**1,200**	**1,600**	**1,700**	**3,600**	**2,600**	**1,500**	**1,000**	**1,400**	**1,500**	120	*700* / *140*
Isopropylbenzene	49.1	380	100	286	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--- / ---
p-Isopropyltoluene	20	160	< 100	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--- / ---
MTBE	< 1	< 120	< 250	< 250	< 50	< 0.12	< 24	< 8.5	< 120	< 7.9	< 17	< 7.9	< 3.9	< 7.9	< 7.9	< 7.9	< 2	*45*	**270**	**580**	*15*	*60* / *12*
Naphthalene	**218**	**1,500**	**320**	**807**	**897**	**150**	**840**	**280**	**6,000**	**530**	**400**	**260**	**450**	**340**	**1,700**	**750**	**110**	**1,100**	**580**	**1,800**	*90*	*100* / *10*
Propylbenzene	100	1,200	< 250	< 50	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--- / ---
sec-Butylbenzene	7.18	< 120	< 250	< 150	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--- / ---
Toluene	**14,800**	**30,000**	**18,000**	**14,300**	**6,480**	**4,900**	**7,000**	**13,000**	**68,000**	**16,000**	**11,000**	**11,000**	**12,000**	**15,000**	**11,000**	**18,000**	**9,500**	**7,700**	**11,000**	**9,400**	**14,000**	*800* / *160*
1,2,4- & 1,3,5-TMB	**944**	**9,800**	**1,940**	**6,250**	**4,820**	**1,300**	**14,000**	**2,070**	**56,000**	**2,470**	**1,670**	**1,790**	**2,430**	**1,840**	**10,900**	**4,600**	**2,350**	**10,300**	**2,350**	**3,430**	*335*	*480* / *96*
Total Xylenes	**5,720**	**22,000**	**9,300**	**15,800**	**8,320**	**4,600**	**13,000**	**8,000**	**110,000**	**11,000**	**8,100**	**6,300**	**8,100**	**8,700**	**17,000**	**16,000**	**7,900**	**9,600**	**8,300**	**8,000**	*680*	*2,000* / *400*

--- = not analyzed or no standard DCA = dichloroethane EDB = 1,2-dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	20
TOC Elevation (feet):	1235.89
Date Installed:	9-Aug-06
Screen Length (feet):	10

TABLE 3 (page 5 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-4/4R																					NR 140 Remedial Action Limits	
Date	1/27/05	6/21/05	4/16/07	11/16/07	10/17/08	5/20/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	10/17/16	3/22/17	6/1/17	9/8/17	12/4/17	4/30/18	7/9/18	10/3/18	1/7/19	4/26/19	7/9/19		
Elevation (ft)	1220.30	1223.54	1221.90	1224.50	1221.10	1223.60	1221.20	1226.30	1227.45	1226.15	1225.59	1227.74	1226.82	1227.60	1224.60	1224.37	1225.66	1224.91	1223.50	1225.08	1226.70	1227.59		
ANALYTE																							*ES*	*PAL*
VOCs/PVOCs (ppb)																								
Benzene	**1,660**	**164**	**110**	**1,900**	**1,780**	**1,430**	**190**	**64**	**300**	**2,400**	**1,900**	**700**	**740**	**780**	**660**	**450**	**350**	**300**	**440**	**440**	**310**	**760**	*5*	*0.5*
n-Butylbenzene	< 0.3	34.1	36	100	< 40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sec- Butylbenzene	< 10	< 10	10	23	< 30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-DCA	< 0.3	< 10	< 10	< 20	< 30	< 30	**8.4**	< 5.6	< 10	< 56	**89**	< 10	< 2	< 0.78	< 2	**22**	< 0.78	---	---	---	---	---	*5*	*0.5*
EDB	< 8	< 8	< 8	***23***	< 30	---	---	---	---	---	---	---	< 1.9	< 0.77	---	---	< 0.77	---	---	---	---	---	*0.05*	*0.005*
Ethylbenzene	*355*	79.2	**770**	**1,000**	**1,310**	**1,220**	140	*210*	*210*	**4,200**	**1,800**	**1,000**	**1,100**	**1,400**	**1,200**	**1,200**	**1,200**	**1,100**	**1,100**	**970**	**810**	**1,000**	*700*	*140*
Isopropylbenzene	< 10	11.6	60	91	78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
p-Isopropyltoluene	< 10	< 10	10	28	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE	< 20	< 20	< 20	< 20	< 50	< 50	< 0.12	< 4.8	< 8.5	< 48	< 3.9	< 8.5	< 2	< 0.79	< 2	< 3.9	< 0.79	< 0.79	**87**	**160**	*26*	**540**	*60*	*12*
Naphthalene	< 30	*30*	**180**	**400**	**284**	**249**	*63*	< 3.2	*87*	**1,800**	**430**	**500**	**190**	**360**	**320**	**320**	**340**	*14*	**380**	**440**	**1,300**	**1,300**	*100*	*10*
n-Propylbenzene	< 10	16.7	150	240	< 10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	**1,890**	*269*	*750*	**3,600**	**2,560**	**4,430**	*220*	100	*260*	**2,900**	**6,200**	**2,600**	**2,400**	**2,300**	**2,200**	**1,700**	**1,300**	*740*	**960**	*760*	48	*230*	*800*	*160*
1,2,4- & 1,3,5-TMB	*277*	*150*	**1,220**	**1,960**	**1,587**	**1,287**	**750**	**1,820**	**590**	**16,300**	**2,180**	**1,550**	**1,290**	**1,770**	**1,620**	**1,680**	**1,850**	**2,320**	**2,500**	**1,530**	**2,880**	**3,990**	*480*	*96*
Total Xylenes	*1,195*	*437*	**3,200**	**4,500**	**4,970**	**5,140**	*540*	*800*	*850*	**14,000**	**7,200**	**3,900**	**4,000**	**4,800**	**4,800**	**4,300**	**4,600**	**3,700**	**3,700**	**3,200**	**2,500**	**3,200**	*2,000*	*400*

--- = not analyzed or no standard DCA = dichloroethane EDB = 1,2-Dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	20
TOC Elevation (feet):	1236.83
Date Installed:	16-Jun-16
Screen Length (feet):	15

MW-4 was abandoned during soil excavation activities on June 6, 2016 and replaced with MW-4R.

MW-4 was installed during the WDNR's Chili Petroleum Contamination Investigation in April 2005 (BRRTS No. 02-10-517968). DairiConcepts accepted responsibility for this well in June 2011.

TABLE 3 (page 6 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-4A																			*NR 140 Remedial Action Limits*	
Date	11/16/07	10/17/08	5/20/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	10/17/16	3/22/17	6/1/17	9/8/17	12/4/17	4/30/18	7/9/18	10/3/18	1/7/19	4/26/19	7/9/19		
Elevation (ft)	1224.83	1222.23	1223.38	1221.18	1224.88	1225.98	1225.93	1225.43	1227.90	1226.80	1227.75	1224.43	1224.15	1225.43	1224.75	1223.26	1225.11	1226.36	1227.39		
ANALYTE																				*ES*	*PAL*
VOCs/PVOCs (ppb)																					
Benzene	**1,600**	**1,850**	**1,840**	**1,000**	**600**	**24**	**28**	**28**	**36**	**13**	< 0.36	**66**	**180**	**21**	**110**	**310**	**220**	**120**	**32**	*5*	*0.5*
cis-1,2-Dichloroethylene	< 10	*37.2*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	*70*	*7*
1,2-DCA	< 10	< 50	< 30	< 0.2	< 1.4	< 0.2	< 0.28	< 0.28	---	< 0.39	< 0.28	< 2	< 0.39	< 0.78	---	---	---	---	---	*5*	*0.5*
EDB	< 8	***60.7***	---	---	---	---	---	---	---	< 0.39	---	---	---	< 0.77	---	---	---	---	---	*0.05*	*0.005*
Ethylbenzene	*200*	*610*	*492*	*290*	*180*	77	28	22	53	34	34	74	66	16	57	80	*440*	49	50	*700*	*140*
Isopropylbenzene	21	29.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE	< 20	< 50	< 50	< 0.12	< 1.2	< 0.17	< 0.24	< 0.39	*58*	< 0.39	< 0.24	< 2	< 0.39	< 0.79	< 0.39	*29*	**220**	*17*	*14*	*60*	*12*
Naphthalene	*72*	**144**	**111**	**140**	*26*	8.7	10	8.2	*32*	5.9	*44*	*20*	*12*	2.5	*19*	*37*	**300**	*39*	*58*	*100*	*10*
n-Propylbenzene	34	< 10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	160	*441*	*332*	75	84	31	6.6	4.5	12	6.4	8.6	8.9	5.9	6.9	9.1	11	80	20	15	*800*	*160*
1,2,4- & 1,3,5-TMB	*200*	**437**	**491**	*347*	*181*	*175*	81	21.8	65	54	67	54	26	19	65	*109*	**1,150**	33	54	*480*	*96*
Total Xylenes	300	*781*	*897*	380	320	110	46	34	71	42	39	88	57	30	82	97	*1,100*	67	67	*2,000*	*400*

--- = not analyzed or no standard DCA = dichloroethane EDB = 1,2-Dibromoetha MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	18
TOC Elevation (feet):	1235.58
Date Installed:	12-Nov-07
Screen Length (feet):	10

TABLE 3 (page 7 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-5								**MW-6A**					**MW-7A**					*NR 140 Remedial Action Limits*	
Date	6/21/05	7/21/05	1/23/06	7/7/15	7/11/16	3/22/17	9/8/17	4/30/18	7/7/15	7/11/16	3/22/17	9/8/17	4/30/18	7/7/15	7/11/16	3/22/17	9/8/17	4/30/18		
Elevation (ft)	1223.70	1222.41	1220.77	1227.17	1226.89	1228.32	1226.10	1227.31	1226.77	1226.44	1227.64	1225.41	1225.71	1225.97	1225.75	1227.26	1225.19	1226.18		
ANALYTE																			*ES*	*PAL*
VOCs/PVOCs (ppb)																				
Benzene	**186**	**202**	**262**	*2.1*	**5.4**	*3.5*	**7.9**	*2.8*	< 0.074	< 0.15	< 0.15	< 0.15	< 0.15	< 0.074	< 0.15	< 0.15	Sample Broke	< 0.15	*5*	*0.5*
n-Butylbenzene	9.26	12.2	18.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sec- Butylbenzene	2.69	3.87	5.78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-DCA	**11.2**	**11.6**	**14.5**	< 0.28	< 0.39	< 0.39	< 0.39	< 0.39	< 0.28	< 0.39	< 0.39	< 0.39	< 0.39	< 0.28	< 0.39	< 0.39	---	< 0.39	*5*	*0.5*
EDB	---	---	---	---	---	---	---	< 0.39	---	---	---	---	< 0.39	---	---	---	---	< 0.39	*0.05*	*0.005*
Ethylbenzene	28.4	34.6	19.7	1.8	1.8	1.7	2.2	0.36	< 0.13	< 0.18	< 0.18	< 0.18	< 0.18	< 0.13	< 0.18	< 0.18	---	< 0.18	*700*	*140*
Isopropylbenzene	28.4	34.6	19.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE	---	---	---	< 0.24	< 0.39	< 0.39	< 0.39	< 0.39	< 0.24	< 0.39	< 0.39	< 0.39	< 0.39	< 0.24	< 0.39	< 0.39	---	< 0.39	*60*	*12*
Naphthalene	*24.1*	*26.2*	*31.1*	2.9	9.7	2.4	8.3	1.4	< 0.16	< 0.34	< 0.34	< 0.34	< 0.34	< 0.16	< 0.34	< 0.34	---	< 0.34	*100*	*10*
n-Propylbenzene	7.06	9.91	9.48	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	5.78	8.59	8.94	< 0.11	0.43	0.26	< 0.15	0.42	< 0.11	< 0.15	< 0.15	< 0.15	< 0.15	< 0.11	< 0.15	< 0.15	---	0.66	*800*	*160*
1,2,4- & 1,3,5-TMB	45.24	61.6	91.3	17	31.73	15.44	29	0.72	< 0.18	< 0.36	< 0.36	< 0.36	< 0.36	< 0.18	< 0.36	< 0.36	---	0.56	*480*	*96*
Total Xylenes	73.2	98.8	117.2	20	33	17	26	1.7	< 0.068	< 0.22	< 0.22	< 0.22	< 0.22	< 0.068	< 0.22	< 0.22	---	0.6	*2,000*	*400*

--- = not analyzed or no standard DCA = 1,2-Dichloroethane EDB = 1,2-Dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

MW-5 was installed during the WDNR's Chili Petroleum Contamination Investigation in April 2005 (BRRTS No. 02-10-517968).

TABLE 3 (page 8 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-5A																		*NR 140 Remedial Action Limits*	
Date	11/16/07	10/17/08	5/20/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	10/17/16	3/22/17	6/1/17	9/8/17	12/4/17	4/30/18	7/9/18	10/3/18	1/7/19	4/26/19	7/9/19	
Elevation (ft)	1225.56	1222.01	1224.81	1222.91	1226.31	1227.21	1227.61	1227.46	1228.81	1227.70	1228.76	1226.40	1225.48	1226.51	1226.43	1224.31	1226.26	1227.18	1228.66	
ANALYTE																			*ES*	*PAL*
VOCs/PVOCs (ppb)																				
Benzene	< 200	**143**	**393**	**77**	**63**	**53**	**42**	**30**	**6**	**51**	**16**	**32**	**46**	**5.6**	**48**	**53**	**210**	**89**	**6.3**	*5*	*0.5*
n-Butylbenzene	4,500	< 40	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sec- Butylbenzene	600	< 30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-DCA	< 200	< 30	< 300	< 0.2	< 0.56	< 10	< 1.4	< 7.8	< 1	< 2	< 7.8	*3.6*	< 0.78	< 0.39	---	---	---	---	---	*5*	*0.5*
EDB	---	---	---	---	---	---	---	---	---	---	---	---	---	< 0.39	---	---	---	---	---	*0.05*	*0.005*
Ethylbenzene	**1,200**	**809**	**3,800**	**710**	*620*	*520*	*510*	*220*	55	*470*	*150*	*290*	*470*	140	*460*	*350*	*390*	72	6.8	*700*	*140*
Isopropylbenzene	500	78	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
p-Isopropyltoluene	550	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE	< 500	< 50	< 500	< 0.12	< 0.48	< 8.5	< 1.2	< 7.9	< 0.85	< 2	***300***	< 0.39	< 0.79	< 0.39	< 0.39	***84***	***190***	***62***	4.7	*60*	*12*
Naphthalene	**4,200**	**203**	**2,640**	**190**	**200**	**160**	**150**	**180**	*38*	**110**	*96*	*92*	**200**	*65*	**140**	**230**	**260**	**140**	*40*	*100*	*10*
n-Propylbenzene	2,400	< 10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	***1,400***	***1,300***	***5,590***	***1,100***	**800**	**280**	**220**	72	12	120	42	49	84	11	46	84	65	6.2	0.78	*800*	*160*
1,2,4- & 1,3,5-TMB	**30,500**	**1,767**	**16,470**	**1,840**	**1,130**	**1,900**	**2,020**	**1,400**	*332*	**1,390**	*283*	**620**	**940**	**560**	**910**	**1,700**	**1,060**	**720**	55	*480*	*96*
Total Xylenes	**4,900**	**2,902**	**15,530**	**2,900**	*1,900*	*1,800*	*1,900*	*960*	180	330	*440*	*760*	*920*	320	*890*	*1,300*	*1,000*	390	22	*2,000*	*400*

--- = not analyzed or no standard DCA = dichloroethane EDB = 1,2-Dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	18
TOC Elevation (feet):	1236.41
Date Installed:	12-Nov-07
Screen Length (feet):	10

TABLE 3 (page 9 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-6											*NR 140 Remedial Action Limits*	
Date	6/21/05	7/21/05	1/23/06	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	3/22/17	9/8/17	4/30/18		
Elevation (ft)	1223.58	1222.30	1220.60	1221.10	1225.10	1225.90	1225.70	1225.20	1226.61	1224.39	1225.55		
ANALYTE												*ES*	*PAL*
VOCs/PVOCs (ppb)													
Benzene	< 0.31	< 0.31	< 0.31	< 0.2	< 0.074	< 0.2	< 0.074	< 0.15	< 0.15	< 0.15	< 0.15	*5*	*0.5*
1,2-DCA	< 0.4	< 0.4	< 0.4	*0.59*	< 0.28	< 0.2	< 0.28	< 0.39	< 0.39	*0.76*	< 0.39	*5*	*0.5*
EDB	---	---	---	---	---	---	---	---	---	---	< 0.39	*0.05*	*0.005*
Ethylbenzene	< 0.5	< 0.5	< 0.5	< 0.19	< 0.13	< 0.19	0.52	< 0.18	< 0.18	< 0.18	< 0.18	*700*	*140*
MTBE	< 0.5	< 0.5	< 0.5	< 0.12	< 0.24	< 0.17	< 0.24	< 0.39	< 0.39	< 0.39	< 0.39	*60*	*12*
Naphthalene	< 0.8	< 0.8	< 0.8	< 0.21	< 0.16	< 0.21	2.2	< 0.34	< 0.34	< 0.34	< 0.34	*100*	*10*
Toluene	< 0.3	< 0.3	< 0.3	0.22	< 0.11	< 0.17	0.98	< 0.15	< 0.15	< 0.15	< 0.15	*800*	*160*
1,2,4- & 1,3,5-TMB	< 0.71	< 0.71	< 0.71	< 0.17	< 0.18	< 0.17	5.7	< 0.36	< 0.36	< 0.36	< 0.36	*480*	*96*
Total Xylenes	< 0.92	< 0.92	< 0.92	< 0.18	< 0.068	< 0.38	2.9	< 0.22	< 0.22	< 0.22	< 0.22	*2,000*	*400*

--- = not analyzed or no standard DCA = dichloroethane EDB = 1,2-Dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	21.1
TOC Elevation (feet):	1236.90
Date Installed:	20-Apr-05
Screen Length (feet):	10

MW-6 was installed during the WDNR's Chili Petroleum Contamination Investigation in April 2005 (BRRTS No. 02-10-517968). DairiConcepts accepted responsibility for this well in June 2011.

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ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-7																							*NR 140 Remedial Action Limits*	
Date	6/21/05	7/21/05	1/23/06	8/8/06	4/12/07	11/16/07	10/17/08	5/20/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	10/17/16	3/22/17	6/1/17	9/8/17	12/4/17	4/30/18	7/9/18	10/3/18	1/7/19	4/26/19	7/9/19		
Elevation (ft)	1223.74	1222.32	1220.80	1221.29	1222.09	1224.54	1220.99	1223.49	1221.39	1225.49	1226.29	1225.84	1225.40	1227.73	1226.78	1227.60	1224.53	1224.34	1225.83	1224.88	1223.54	1224.96	1226.78	1227.59		
ANALYTE																									*ES*	*PAL*
VOCs/PVOCs (ppb)																										
Benzene	1.99	1.51	< 0.2	0.31	0.4	*2.2*	< 0.2	1.99	< 0.2	**5.6**	*1.6*	*4.4*	*0.64*	< 0.36	*0.72*	*0.65*	Sample Broke	< 0.15	*4.8*	*4.4*	**6.9**	< 0.36	**5.6**	*3.2*	*5*	*0.5*
1,2-DCA	*0.66*	*0.98*	*1.14*	*1.81*	*0.77*	*0.66*	*1.52*	*0.64*	< 0.2	< 0.28	< 0.2	< 0.28	< 0.39	---	*0.95*	< 0.39	---	*0.73*	*1.7*	*1.6*	---	---	---	---	*5*	*0.5*
EDB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	< 0.39	< 0.39	---	---	---	---	*0.05*	*0.005*
Ethylbenzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.5	< 0.2	< 0.2	< 0.2	< 0.13	< 0.19	4	< 0.18	< 0.37	< 0.18	< 0.18	---	< 0.18	< 0.18	< 0.18	< 0.37	< 0.37	< 0.37	< 0.37	*700*	*140*
MTBE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.12	< 0.24	< 0.17	< 0.24	< 0.39	< 0.24	< 0.39	< 0.39	---	< 0.39	< 0.39	< 0.39	< 0.24	< 0.24	< 0.24	0.27*	*60*	*12*
Naphthalene	< 1	< 1	< 1	< 1	< 0.25	< 0.25	< 1	< 1	< 0.21	< 0.16	< 0.21	8	< 0.34	< 2.4	< 0.34	< 0.34	---	0.58	< 0.34	< 0.34	< 2.4	< 2.4	< 2.4	< 2.4	*100*	*10*
Toluene	< 0.4	< 0.4	< 0.4	< 0.4	< 0.2	< 0.2	< 0.4	< 0.4	0.29	< 0.11	< 0.17	6.3	< 0.15	< 0.33	< 0.15	< 0.15	---	0.17	< 0.15	< 0.15	< 0.33	< 0.33	< 0.33	< 0.33	*800*	*160*
1,2,4- & 1,3,5-TMB	< 0.15	< 0.15	< 0.15	< 0.15	< 0.2	< 0.2	< 0.2	0.92	< 0.17	< 0.18	< 0.17	33.3	< 0.39	< 0.3	< 0.36	< 0.36	---	< 0.36	< 0.36	< 0.39	< 0.3	< 0.3	< 0.3	< 0.3	*480*	*96*
Total Xylenes	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	< 0.5	< 0.4	0.45	< 0.18	< 0.068	< 0.38	26	< 0.22	< 0.58	< 0.22	< 0.22	---	< 0.22	< 0.22	< 0.22	< 0.58	< 0.58	< 0.58	< 0.58	*2,000*	*400*

--- = not analyzed or no standard DCA = dichloroethane EDB = 1,2-Dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

***** = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

Well Depth (feet):	19.8
TOC Elevation (feet):	1233.49
Date Installed:	21-Apr-05
Screen Length (feet):	10

MW-7 was installed during the WDNR's Chili Petroleum Contamination Investigation in April 2005 (BRRTS No. 02-10-517968). DairiConcepts accepted responsibility for this well in June 2011.

TABLE 3 (page 11 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	PZ-7																*NR 140 Remedial Action Limits*	
Date	6/21/05	7/21/05	1/23/06	8/8/06	4/12/07	11/16/07	10/17/08	5/20/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	3/22/17	9/8/17	4/30/18		
Elevation (ft)	1220.05	1219.78	1217.61	1218.64	1220.34	1221.94	1221.94	1220.84	1219.14	1223.14	1224.09	1223.34	1222.57	1224.10	1222.05	1222.65		
ANALYTE																	*ES*	*PAL*
VOCs/PVOCs (ppb)																		
Benzene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.074	< 0.2	< 0.074	< 0.15	< 0.15	< 0.15	< 0.15	*5*	*0.5*
1,2-DCA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.2	< 0.2	< 0.2	< 0.3	< 0.2	< 0.28	< 0.2	< 0.28	< 0.39	< 0.39	< 0.39	< 0.39	*5*	*0.5*
EDB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	< 0.39	*0.05*	*0.005*
Ethylbenzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.5	< 0.5	< 0.2	< 0.19	< 0.13	< 0.19	< 0.13	< 0.18	< 0.18	< 0.18	< 0.18	*700*	*140*
MTBE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.12	< 0.24	< 0.17	< 0.24	< 0.39	< 0.39	< 0.39	< 0.39	*60*	*12*
Naphthalene	< 1	< 1	< 1	< 1	< 0.25	< 0.25	< 0.25	< 1	< 0.21	< 0.16	2	< 0.16	< 0.34	< 0.34	< 0.34	< 0.34	*100*	*10*
Toluene	< 0.4	< 0.4	< 0.4	< 0.4	< 0.2	< 0.2	< 0.2	< 0.4	0.23	< 0.11	< 0.17	0.43	< 0.15	< 0.15	< 0.15	< 0.15	*800*	*160*
1,2,4- & 1,3,5-TMB	< 0.15	< 0.15	< 0.15	< 0.15	< 0.25	< 0.2	< 0.2	< 0.3	< 0.17	< 0.18	0.59	1.3	< 0.39	< 0.39	< 0.39	< 0.39	*480*	*96*
Total Xylenes	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	< 0.5	< 0.5	< 0.4	< 0.18	< 0.068	< 0.38	0.74	< 0.22	< 0.22	< 0.22	< 0.22	*2,000*	*400*

--- = not analyzed or no stan DCA = dichloroethane EDB = 1,2-Dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

PZ-7 was installed during the WDNR's Chili Petroleum Contamination Investigation in April 2005 (BRRTS No. 02-10-517968). DairiConcepts accepted responsibility for this well in June 2011.

Well Depth (feet):	46.3
TOC Elevation (feet):	1233.59
Date Installed:	21-Apr-05
Screen Length (feet):	5

TABLE 3 (page 12 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-9																*NR 140 Remedial Action Limits*	
Date	6/21/05	7/21/05	1/23/06	8/8/06	4/12/07	11/16/07	10/17/08	5/20/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	3/22/17	9/8/17	4/30/18		
Elevation (ft)	1224.16	1222.51	1221.13	1221.65	1222.85	1224.90	1221.15	1223.75	1221.65	1226.25	1226.65	1226.10	1225.70	1227.22	1224.92	1226.49		
ANALYTE																	*ES*	*PAL*
VOCs/PVOCs (ppb)																		
Benzene	< 0.15	< 0.15	< 0.15	< 0.15	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.074	< 0.2	< 0.074	< 0.15	< 0.15	< 0.15	< 0.15	*5*	*0.5*
1,2-DCA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.2	< 0.2	< 0.2	< 0.3	< 0.2	< 0.28	< 0.2	< 0.28	< 0.39	< 0.39	< 0.39	< 0.39	*5*	*0.5*
EDB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	< 0.39	*0.05*	*0.005*
Ethylbenzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.5	< 0.5	< 0.2	< 0.19	< 0.13	< 0.19	< 0.13	< 0.18	< 0.18	< 0.18	< 0.18	*700*	*140*
MTBE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.5	< 0.5	< 0.5	< 0.12	< 0.24	< 0.17	< 0.24	< 0.39	< 0.39	< 0.39	< 0.39	*60*	*12*
Naphthalene	< 1	< 1	< 1	< 1	< 0.25	< 0.25	< 0.25	< 1	< 0.21	< 0.16	0.82	< 0.16	< 0.34	< 0.34	< 0.34	< 0.34	*100*	*10*
Toluene	< 0.4	< 0.4	< 0.4	< 0.4	< 0.2	< 0.2	< 0.2	< 0.2	0.22	< 0.11	< 0.17	< 0.11	< 0.15	< 0.15	< 0.15	< 0.15	*800*	*160*
1,2,4- & 1,3,5-TMB	< 0.25	< 0.25	< 0.25	0.26	< 0.25	< 0.2	< 0.2	< 0.3	< 0.17	< 0.18	< 0.17	0.87	< 0.39	< 0.39	< 0.39	< 0.39	*480*	*96*
Total Xylenes	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	< 0.5	< 0.5	< 0.4	< 0.18	< 0.068	< 0.38	< 0.068	< 0.22	< 0.22	< 0.22	0.5	*2,000*	*400*

--- = not analyzed or no standard DCA = dichloroethane EDB = 1,2-Dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

MW-9 was installed during the WDNR's Chili Petroleum Contamination Investigation in April 2005 (BRRTS No. 02-10-517968). DairiConcepts accepted responsibility for this well in June 2011.

Well Depth (feet):	16.1
TOC Elevation (feet):	1231.65
Date Installed:	21-Apr-05
Screen Length (feet):	10

TABLE 3 (page 13 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	MW-10												NR 140 Remedial Action Limits	
Date	7/11/16	10/17/16	3/22/17	6/1/17	9/8/17	12/4/17	4/30/18	7/9/18	10/3/18	1/7/19	4/26/19	7/9/19		
Elevation (ft)	1225.57	1227.88	1226.92	1227.69	1224.77	1224.66	---	1225.00	1223.42	1225.11	1226.58	1228.56		
ANALYTE													*ES*	*PAL*
VOCs/PVOCs (ppb)														
Benzene	**49**	< 2	**54**	**87**	**64**	**210**	**100**	**340**	**140**	**1,400**	**1,100**	**570**	*5*	*0.5*
n-Butylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---	---
sec- Butylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-DCA	< 2	< 2	< 2	< 2	< 2	< 3.9	***21***	< 7.8	---	---	---	---	*5*	*0.5*
EDB	---	---	---	---	---	---	< 7.7	< 7.7	---	---	---	---	*0.05*	*0.005*
Ethylbenzene	**790**	**1,700**	*590*	**740**	***670***	**1,200**	**1,400**	**1,000**	**960**	**2,100**	**1,800**	**1,200**	*700*	*140*
Isopropylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE	< 2	< 1.7	< 2	**2,100**	< 2	< 3.9	< 7.9	< 7.9	**130**	**1,700**	**320**	**460**	*60*	*12*
Naphthalene	**210**	**820**	*97*	**360**	**180**	**540**	**530**	**1,100**	**510**	**2,300**	**2,100**	**1,400**	*100*	*10*
n-Propylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	*300*	*440*	*420*	**890**	*730*	**1,000**	**1,000**	**1,200**	**1,100**	**2,200**	**1,500**	**890**	*800*	*160*
1,2,4- & 1,3,5-TMB	**1,130**	**2,930**	**960**	**960**	**1,160**	**3,190**	**3,780**	**1,820**	**2,900**	**6,900**	**6,300**	**4,100**	*480*	*96*
Total Xylenes	*1,900*	*1,500*	*1,300*	*1,900*	**2,300**	**3,600**	**4,500**	**3,000**	**2,900**	**6,400**	**6,100**	**3,700**	*2,000*	*400*

--- = not analyzed or no standard DCA = 1,2-Dichloroethane EDB = 1,2-Dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	20
TOC Elevation (feet):	1240.87
Date Installed:	16-Jun-16
Screen Length (feet):	15

TABLE 3 (page 14 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	Street MW-West (WMW-1)											*NR 140 Remedial Action Limits*	
Date	7/7/15	7/11/16	10/17/16	3/22/17	6/1/17	9/8/17	4/30/18	10/3/18	1/7/19	4/26/19	7/9/19		
Elevation (ft)	1228.00	1227.65	1228.98	1228.10	1228.85	1226.77	1226.95	1226.52	1226.95	1227.12	1228.60		
ANALYTE												*ES*	*PAL*
VOCs/PVOCs (ppb)													
Benzene	*2.3*	**5.6**	*0.89*	*1.3*	< 0.36	**5.2**	*2*	**6.6**	*1.5*	*2.6*	*0.65*	*5*	*0.5*
n-Butylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---
sec- Butylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---
1,2-DCA	< 0.28	< 0.39	---	< 0.39	---	< 0.39	< 0.39	---	---	---	---	*5*	*0.5*
EDB	---	---	---	---	---	---	< 0.39	---	---	---	---	*0.05*	*0.005*
Ethylbenzene	< 0.13	1.8	< 0.37	< 0.18	< 0.37	< 018	< 0.18	< 0.37	< 0.37	< 0.37	< 0.37	*700*	*140*
Isopropylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---
MTBE	< 0.24	< 0.39	< 0.24	< 0.39	0.69	< 0.39	< 0.39	0.33*	< 0.24	1.7	< 0.24	*60*	*12*
Naphthalene	< 0.16	< 0.34	< 2.4	< 0.34	< 2.4	< 0.34	< 0.34	< 2.4	< 2.4	< 2.4	< 2.4	*100*	*10*
n-Propylbenzene	---	---	---	---	---	---	---	---	---	---	---	---	---
Toluene	0.39	0.35	< 0.33	< 0.15	< 0.33	< 0.15	< 0.15	< 0.33	< 0.33	< 0.33	< 0.33	*800*	*160*
1,2,4- & 1,3,5-TMB	0.66	2.54	< 0.3	< 0.36	< 0.3	< 0.36	< 0.36	0.96	< 0.3	< 0.3	< 0.3	*480*	*96*
Total Xylenes	0.63	4.5	< 0.58	< 0.22	< 0.58	1.3	0.57	0.93*	< 0.58	< 0.58	< 0.58	*2,000*	*400*

--- = not analyzed or no standard DCA = 1,2-Dichloroethane EDB = 1,2-Dibromoethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	21
TOC Elevation (feet):	1237.55
Date Installed:	26-Feb-07
Screen Length (feet):	10

Street well MW West (WMW-1) was installed during the Site investigation of the Wolfe Property in Febuary 2007 (BRRTS No. 03-10-545213/09-10-545213).

Sample results prior to July 2015 for well Street MW West (WMW-1) was not avaiable.

* = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.

TABLE 3 (page 15 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	Street MW-East (WPZ-1)							*NR 140 Remedial Action Limits*	
Date	7/7/15	7/11/16	10/17/16	3/22/17	6/1/17	9/8/17	4/30/18		
Elevation (ft)	1225.61	1225.08	1227.51	1226.50	1227.25	1224.22	1225.45		
ANALYTE								*ES*	*PAL*
VOCs/PVOCs (ppb)									
Benzene	< 0.074	< 0.15	< 0.36	< 0.15	< 0.36	< 0.15	< 0.15	*5*	*0.5*
n-Butylbenzene	---	---	---	---	---	---	---	---	---
sec- Butylbenzene	---	---	---	---	---	---	---	---	---
1,2-DCA	< 0.28	< 0.39	---	< 0.39	---	< 0.39	< 0.39	*5*	*0.5*
EDB	---	---	---	---	---	---	< 0.39	*0.05*	*0.005*
Ethylbenzene	1.3	< 0.18	< 0.37	< 0.18	< 0.37	< 0.18	< 0.18	*700*	*140*
Isopropylbenzene	---	---	---	---	---	---	---	---	---
MTBE	< 0.24	< 0.39	< 0.24	< 0.39	< 0.24	< 0.39	< 0.39	*60*	*12*
Naphthalene	1.8	< 0.34	< 2.4	< 0.34	< 2.4	< 0.34	1.2	*100*	*10*
n-Propylbenzene	---	---	---	---	---	---	---	---	---
Toluene	2.2	< 0.15	< 0.33	< 0.15	< 0.33	< 0.15	< 0.15	*800*	*160*
1,2,4- & 1,3,5-TMB	7	< 0.36	< 0.3	< 0.36	< 0.3	< 0.36	< 0.36	*480*	*96*
Total Xylenes	6.7	< 0.22	< 0.58	< 0.22	< 0.58	< 0.22	< 0.22	*2,000*	*400*

--- = not analyzed or no standard

DCA = 1,2-Dichloroethane

EDB = 1,2-Dibromoethane

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

Well Depth (feet): 32

TOC Elevation (feet): 1237.41

Date Installed: 26-Feb-07

Screen Length (feet): 5

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Street MW East (WPZ-1) was installed during the Site investigation of the Wolfe Property in Febuary 2007 (BRRTS No. 03-10-545213/09-10-545213).

Sample results prior to July 2015 for well Street MW East (WPZ-1) was not avaiable.

TABLE 3 (page 16 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	CMW-1																*NR 140 Remedial Action Limits*	
Date	4/5/07	7/3/07	11/1/07	1/17/08	12/19/08	5/21/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	10/17/16	3/22/17	6/1/17	9/8/17	4/30/18		
Depth to Water (ft)	1222.07	1222.68	1226.26	12.24.01	1220.92	1223.76	1221.54	1225.49	1226.34	1226.34	1225.94	1228.26	1227.17	1228.21	1224.95	1225.84		
ANALYTE																	*ES*	*PAL*
VOCs/PVOCs (ppb)																		
Benzene	0.41	0.40	**7.11**	*2.65*	*2.14*	< 0.2	0.24	0.28	< 0.2	< 0.074	< 0.15	< 0.36	< 0.15	< 0.36	< 0.15	< 0.15	*5*	*0.5*
1,2-DCA	*0.93*	---	---	---	---	---	< 0.2	< 0.28	< 0.2	< 0.28	< 0.39	---	< 0.39	---	< 0.39	< 0.39	*5*	*0.5*
EDB	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	< 0.39	*0.05*	*0.005*
Ethylbenzene	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.19	< 0.13	< 0.19	< 0.13	< 0.18	< 0.37	< 0.18	< 0.37	< 0.18	< 0.18	*700*	*140*
MTBE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.12	< 0.24	< 0.17	< 0.24	< 0.39	< 0.24	< 0.39	< 0.24	< 0.39	< 0.39	*60*	*12*
Naphthalene	< 1	---	---	---	---	---	< 0.21	< 0.16	< 0.21	< 0.16	< 0.34	< 2.4	< 0.34	< 2.4	< 0.34	< 0.34	*100*	*10*
Toluene	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.17	< 0.11	< 0.17	0.36	< 0.15	< 0.33	< 0.15	< 0.33	< 0.15	< 0.15	*800*	*160*
1,2,4- & 1,3,5-TMB	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.17	< 0.18	< 0.17	0.83	< 0.39	< 0.3	< 0.39	< 0.3	< 0.39	< 0.36	*480*	*96*
Total Xylenes	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.18	< 0.068	< 0.38	0.59	< 0.22	< 0.58	< 0.22	< 0.58	< 0.22	< 0.22	*2,000*	*400*

--- = not analyzed or no standard DCA = 1,2-Dichloroethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

Well Depth (feet):	18
TOC Elevation (feet):	1234.64
Date Installed:	28-Feb-07
Screen Length (feet):	10

CMW-1 was installed during the Site Investigation of the Chili Sevice site in Feburary 2007 (BRRTS No. 03-10-545214). DairiConcepts accepted responsibility for this well in June 2011.

TABLE 3 (page 17 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	CMW-2						CMW-3						NR 140 Remedial Action Limits	
Date	4/5/07	7/3/07	11/1/07	1/17/08	12/19/08	5/21/10	4/5/07	7/3/07	11/1/07	1/17/08	12/19/08	5/21/10		
Elevation (ft)	1225.11	1225.15	1228.76	1226.90	1223.45	1226.36	1224.63	1225.28	1228.92	1226.65	1223.49	1226.60		
ANALYTE													*ES*	*PAL*
Lead (ppb)	< 0.6	0.81	---	---	---	---	< 0.6	< 0.6	---	---	---	---	*15*	*1.5*
VOCs/PVOCs (ppb)														
Benzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.31	< 0.31	**482**	**690**	**14.4**	**459**	**161**	**60.2**	*5*	*0.5*
sec- Butylbenzene	< 0.2	---	---	---	---	---	4.69	---	---	---	---	---	---	---
Chloromethane	< 0.3	---	---	---	---	---	*9.5*	---	---	---	---	---	*30*	*3*
1,2-DCA	< 0.2	---	---	---	---	---	**17.3**	**45.1**	< 2	< 3	**7.03**	**7.61**	*5*	*0.5*
Dichlorodifluoromethane	7.64	---	---	---	---	---	< 3	---	---	---	---	---	*1,000*	*200*
Ethylbenzene	< 0.1	< 0.1	< 0.1	< 0.2	< 0.5	< 0.5	31.6	12.7	< 1	10.8	< 2	< 1	*700*	*140*
Isopropylbenzene	< 0.1	---	---	---	---	---	6.19	---	---	---	---	---	---	---
MTBE	< 0.2	< 0.2	< 0.2	< 0.5	< 0.3	< 0.3	< 2	< 2	< 2	< 5	< 5	< 2.5	*60*	*12*
Propylbenzene	< 0.1	---	---	---	---	---	10.4	---	---	---	---	---	---	---
Toluene	< 0.4	< 0.4	< 0.4	< 0.4	< 0.3	< 0.37	6.61	7.27	< 4	7.97	< 4	< 2	*800*	*160*
1,2,4- & 1,3,5-TMB	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.84	7.27	< 4.66	< 4	< 10.99	< 4	< 2.09	*480*	*96*
Total Xylenes	< 0.6	< 0.6	< 0.6	< 0.6	< 0.36	< 1.39	< 8.52	8.5	< 6	< 6	< 2	< 3	*2,000*	*400*

--- = not analyzed or no standard DCA = 1,2-Dichloroethane MTBE = methyl-tert-butylether ppb = parts per billion TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

CMW-2 was installed during the Site Investigation of the Chili Sevice site in Feburary 2007 (BRRTS No. 03-10-545214) and abandoned after site closure in July 2011.

CMW-3 was installed during the Site Investigation of the Chili Sevice site in Feburary 2007 (BRRTS No. 03-10-545214). DairiConcepts accepted responsibility for this well in June 2011, however the well was abandoned in July 2011.

TABLE 3 (page 18 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	CMW-4							MW-8									NR 140 Remedial Action Limits	
Date	4/5/07	7/3/07	11/1/07	1/17/08	12/19/08	5/21/10	8/17/10	6/21/05	7/21/05	1/23/06	4/5/07	7/3/07	11/1/07	1/17/08	12/19/08	5/21/10		
Elevation (ft)	1224.76	1225.24	1228.96	1226.64	1222.47	1226.56	1230.53	1223.91	1222.59	1220.82	---	---	---	---	---	---		
ANALYTE																	*ES*	*PAL*
Lead (ppb)	< 0.6	< 0.6	---	---	---	---	---	---	---	---	*5.94*	*8.02*	---	---	---	---	*15*	*1.5*
VOCs/PVOCs (ppb)																		
Benzene	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	**1,480**	**1,310**	**1,800**	**364**	**341**	**600**	**708**	**439**	**482**	*5*	*0.5*
n-Butylbenzene	< 0.2	---	---	---	---	---	---	160	112	112	---	---	---	---	---	---	---	---
sec-Butylbenzene	< 0.2	---	---	---	---	---	---	< 4	< 20	28.3	< 20	---	---	---	---	---	---	---
tert-Butylbenzene	< 0.2	---	---	---	---	---	---	< 4	< 20	< 20	26	---	---	---	---	---	---	---
1,2-DCA	< 0.2	---	---	---	---	---	---	**28.5**	< 20	**33.2**	< 20	< 20	< 20	< 3	< 6	**24.3**	*5*	*0.5*
Dichlorodifluoromethane	4.03	---	---	---	---	---	---	< 4	< 20	< 10	< 30	---	---	---	---	---	*1,000*	*200*
Ethylbenzene	< 0.1	< 0.1	< 0.1	< 0.2	< 0.2	< 0.2	< 0.2	*651*	*501*	*491*	*178*	**792**	*179*	*238*	*609*	118	*700*	*140*
Isopropylbenzene	< 0.1	---	---	---	---	---	---	73.9	57.7	65.7	31.4	---	---	---	---	---	---	---
p-Isopropyltoluene	< 0.2	---	---	---	---	---	---	16.4	< 25	< 10	21.8	---	---	---	---	---	---	---
MTBE	< 0.2	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	< 0.5	< 4	< 20	< 20	< 20	< 20	< 20	< 5	< 10	< 5	*60*	*12*
Naphthalene	< 1	---	---	---	---	---	---	**319**	**266**	**273**	< 100	---	---	---	---	---	*100*	*10*
PCE	**17.5**	**8.33**	**7.89**	**8.28**	**9.67**	*4.65*	*2.84*	< 4	< 20	< 20	< 30	---	---	---	---	---	*5*	*0.5*
n-Propylbenzene	< 0.1	---	---	---	---	---	---	108	83.1	83.1	< 10	---	---	---	---	---	---	---
Toluene	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	*526*	*520*	*236*	*212*	*709*	*172*	*552*	**884**	*206*	*800*	*160*
1,2,4- & 1,3,5-TMB	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	**1,099**	**978**	**745**	**629**	**3,730**	*472*	**552**	**884**	*206*	*480*	*96*
Total Xylenes	< 0.6	< 0.6	< 0.6	< 0.6	< 0.2	< 0.6	< 0.6	*1,197*	*1,149*	*834.3*	*796*	**2,399**	*455*	*474*	***1,082***	255.7	*2,000*	*400*

--- = not analyzed or no standard DCA = 1,2-Dichloroethane MTBE = methyl-tert-butylether PCE = tetrachloroethylene ppb = parts per billion TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

CMW-4 was installed during the Site Investigation of the Chili Sevice site in Feburary 2007 (BRRTS No. 03-10-545214) and abandoned after site closure in July 2011.

MW-8 was installed during the WDNR's Chili Petroleum Contamination Investigation in April 2005 (BRRTS No. 02-10-517968), used by Chili Service, and abandoned after site closure in July 2011.

TABLE 3 (page 19 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	PW-1									PW-5					Strey Well							*NR 140 Remedial Action Limits*	
Date	8/9/06	11/29/12	5/8/13	4/27/15	7/7/15	7/11/16	9/8/17	10/3/18	7/9/19	4/27/15	7/7/15	7/11/16	9/8/17	7/9/19	12/10/03	6/15/05	1/23/06	7/3/07	7/11/16	9/8/17	7/9/19		
ANALYTE																						*ES*	*PAL*
VOCs/PVOCs (ppb)																							
Acetone	< 0.15	< 0.2	< 0.074	< 0.2	< 0.13	< 0.13	< 0.13	1.1*	2.5*	< 0.2	< 0.13	< 0.13	< 0.13	1.5*	< 0.15	< 0.15	< 0.13	> 0.13	< 0.13	< 0.13	1.8*	*9,000*	*1,800*
Benzene	< 0.15	< 0.2	< 0.074	< 0.2	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.2	< 0.13	< 0.13	< 0.13	< 0.13	*1.5*	0.347	0.322	0.43	< 0.13	< 0.13	< 0.13	*5*	*0.5*
Chloroform	< 0.15	< 0.2	< 0.074	< 0.2	< 0.13	< 0.13	< 0.13	*2.5*	*0.28**	< 0.2	< 0.13	< 0.13	< 0.13	< 0.13	< 0.15	< 0.15	< 0.13	> 0.13	< 0.13	< 0.13	< 0.13	*6*	*0.6*
1,2-DCA	< 0.1	< 0.2	< 0.28	< 0.2	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.14	< 0.14	< 0.14	< 0.14	< 0.15	0.15	0.185	---	< 0.14	< 0.14	< 0.14	*5*	*0.5*
Ethylbenzene	< 0.1	< 0.19	< 0.13	< 0.19	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.19	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.4	< 0.4	< 0.1	< 0.11	< 0.11	< 0.11	*700*	*140*
MTBE	< 0.4	< 0.12	< 0.24	< 0.17	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.17	< 0.12	< 0.12	< 0.12	< 0.12	< 0.15	< 0.4	< 0.4	< 0.2	< 0.15	< 0.15	< 0.15	*60*	*12*
Naphthalene	< 1	< 0.21	< 0.16	< 0.21	< 0.06	< 0.06	< 0.06	< 0.15	< 0.15	< 0.21	< 0.06	< 0.06	< 0.06	< 0.06	< 0.15	< 1	< 1	---	< 0.15	< 0.15	< 0.15	*100*	*10*
Toluene	< 0.4	< 0.17	< 0.11	< 0.17	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.17	< 0.1	< 0.1	< 0.1	< 0.1	< 0.15	< 0.4	< 0.4	< 0.4	< 0.1	< 0.1	< 0.1	*800*	*160*
Trihalomethanes, Total	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	---	---
1,2,4- & 1,3,5-TMB	< 0.4	0.48	< 0.18	< 0.17	1.65	< 0.13	0.59	1.13*	< 0.13	< 0.17	< 0.09	< 0.09	< 0.13	< 0.13	< 0.3	< 0.3	< 0.3	< 0.4	< 0.13	< 0.13	< 0.13	*480*	*96*
Total Xylenes	< 1	< 0.18	< 0.068	< 0.38	< 0.2	< 0.2	< 0.12	< 0.12	< 0.12	< 0.38	< 0.2	< 0.2	< 0.12	< 0.12	< 0.3	< 0.5	< 0.5	< 0.6	< 0.12	< 0.12	< 0.12	*2,000*	*400*

--- = not analyzed or no standard DCA = 1,2-Dichloroethane MTBE = methyl-tert-butylether TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

PW-1 represents a sample collected from the on site potable well at the DairiConcepts facility (ID #IY805).

PW-5 represents a sample collected from the new (installed 9-25-13) on site potable well at the DairiConcepts facility (ID #XH461).

Strey Well represents a sample collected from the Strey Residence potable well, N5696 County Highway Y.

* = Result is < the Reporting Limit but > or equal to the Method Detection Limit and the concentration is an approximate value.

TABLE 3 (page 20 of 20)

ANALYTICAL RESULTS - GROUNDWATER

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	PW-4													*NR 140 Remedial Action Limits*	
Date	11/1/06	1/10/07	3/2/07	1/11/08	10/17/08	5/20/10	11/29/12	4/30/13	4/27/15	7/7/15	7/11/16	9/8/17	7/9/19		
ANALYTE														*ES*	*PAL*
VOCs/PVOCs (ppb)															
Acetone	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	2*	*9,000*	*1,800*
Benzene	**5.97**	*2.2*	*0.52*	0.27	< 0.2	< 0.2	< 0.2	< 0.074	< 0.2	< 0.13	< 0.13	< 0.13	< 0.13	*5*	*0.5*
Bromobenzene	0.1	< 0.1	< 0.1	< 0.2	< 0.2	---	---	---	---	< 0.13	< 0.13	< 0.13	< 0.13	---	---
Bromodichloromethane	**1.65**	*0.37*	< 0.1	< 0.2	< 0.2	---	---	---	---	< 0.11	< 0.11	< 0.11	< 0.11	*0.6*	*0.06*
Chloroethane	< 0.6	0.1	< 0.6	< 0.6	< 0.6	---	---	---	---	< 0.07	< 0.07	< 0.07	< 0.07	*400*	*80*
Chloroform	**19.6**	*4.4*	< 0.1	< 0.1	< 0.1	---	---	---	---	< 0.14	< 0.14	< 0.14	< 0.14	*6*	*0.6*
Chloromethane	< 0.2	0.12	< 0.2	< 0.2	< 0.2	---	---	---	---	< 0.063	< 0.063	< 0.063	< 0.063	*3*	*0.3*
1,4-Dichlorobenzene	< 0.1	< 0.05	1.13	< 0.8	< 0.8	---	---	---	---	< 0.13	< 0.13	< 0.13	< 0.13	*75*	*15*
1,2-DCA	< 0.1	0.15	< 0.1	< 0.2	< 0.2	< 0.3	< 0.2	< 0.28	< 0.2	< 0.14	< 0.14	< 0.14	< 0.14	*5*	*0.5*
1,2-Dichloropropane	*0.39*	< 0.1	< 0.1	< 0.2	< 0.2	---	---	---	---	< 0.11	< 0.11	< 0.11	< 0.11	*5*	*0.05*
Ethylbenzene	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.2	< 0.19	< 0.13	< 0.19	< 0.11	< 0.11	< 0.11	< 0.11	*700*	*140*
Methylene Chloride	< 0.4	0.91	< 0.4	< 0.4	< 0.4	---	---	---	---	< 0.25	< 0.25	< 0.25	< 0.25	---	---
MTBE	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	0.29	< 0.24	< 0.17	< 0.12	< 0.12	< 0.12	< 0.12	*60*	*12*
Naphthalene	< 1	< 1	< 1	< 1	< 1	< 1	< 0.21	< 0.16	< 0.21	< 0.06	< 0.06	< 0.06	< 0.06	*100*	*10*
Toluene	< 0.4	0.44	<0 .4	11.9	0.86	< 0.4	< 0.17	< 0.11	< 0.17	< 0.1	< 0.1	< 0.1	< 0.1	*800*	*160*
1,2,4- & 1,3,5-TMB	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.2	< 0.17	< 0.18	< 0.17	< 0.043	< 0.043	< 0.043	< 0.043	*480*	*96*
Total Xylenes	< 1	< 0.05	< 1	< 1	< 1	< 0.4	< 0.18	< 0.068	< 0.38	< 0.2	< 0.2	< 0.12	< 0.12	*2,000*	*400*

--- = not analyzed or no standard

DCA = 1,2-Dichloroethane

MTBE = methyl-tert-butylether

TMB = trimethylbenzene

Bold numbers indicate concentrations above the ES outlined in NR 140.10.

Italic numbers indicate concentrations above the PAL outlined in NR 140.10.

* = Result is < the Reporting Limit but > or equal to the Method Detection Limit and the concentration is an approximate value.

PW-4 represents a sample collected from the new potable well at W887 Chili Road (former Krueger Residence) (TY722).

TABLE 4 (1 of 3)
ANALYTICAL RESULTS - SOIL
DAIRICONCEPTS SITE, CHILI, WISCONSIN
AET PROJECT NO. 03-05510

	Soil RCLs (ppm) Calculated: 7-24-19				Samples											
					MW-4	**BS-1A**	**BS-1B**	**BS-2A**	**BS-2B**	**BS-3A**	**BS-3B**	**BS-4A**	**BS-4B**	**BS-4C**	**BS-5A**	**BS-5B**
Date	*Non-Industrial Direct Contact*	*Industrial Direct Contact*	*Soil to GW*	*Surficial Background Threshold Value*	1/19/05	8/8/06		8/9/06								
Depth (feet)					8.5-9.5	2-4	12-14	2-4	12-14	2-4	12-14	2-4	12-14	16-18	2-4	12-14
Soil Boring					MW-4	B-1/MW-1A		B-2/MW-2A		B-3/MW-3A		B-4			B-5	
PID (Instrument units)					---	< 1	< 1	< 1	< 1	110	25	< 1	275	135	< 1	120
Depth to Water Table (ft bgs)					7.23-15.15											
Soil Type					silty clay											
PAHs (ppm)	*Variable*	*Variable*	*Variable*	---	< 0.001	---	---	---	---	---	---	---	---	---	---	---
Lead (ppm)	*400*	*800*	*27*	*52*	---	< 3	< 3	< 3	< 3	3.45	< 3	< 3	< 3	< 3	< 3	< 3
VOCs (ppm)																
Benzene	*1.6*	*7.07*	*0.0051*	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	*0.372*	0.049	< 0.025	4.53	0.218	< 0.025	0.146
Ethylbenzene	*8.02*	*35.4*	*1.57*	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.503	0.025	< 0.025	21.2	0.098	< 0.025	0.069
MTBE	*63.8*	*282*	*0.027*	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025
Naphthalene	*5.52*	*24.1*	*0.6582*	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.603	< 0.025	< 0.025	7.33	< 0.025	< 0.025	< 0.025
n-Butylbenzene	*108*	*108*	---	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	1.11	< 0.025	< 0.025	8.98	< 0.025	< 0.025	< 0.025
sec-Butylbenzene	*145*	*145*	---	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	1.35	< 0.025	< 0.025	4.92	< 0.025	< 0.025	< 0.025
n-Propylbenzene	*264*	*264*	---	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.896	< 0.025	< 0.025	10.4	< 0.025	< 0.025	< 0.025
Toluene	*818*	*818*	*1.1072*	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	*1.72*	0.049	< 0.025	39.6	0.547	< 0.025	0.083
1,2,4-TMB	*219*	*219*	---	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	3.78	< 0.025	< 0.025	53.1	0.082	< 0.025	0.045
1,3,5-TMB	*182*	*182*	---	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	2.21	< 0.025	< 0.025	16.1	< 0.025	< 0.025	0.025
Total TMB	---	---	*1.3787*	---	---	---	---	---	---	*5.99*	---	---	69.2	0.082	---	0.07
Total Xylenes	*260*	*260*	*3.96*	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	*6.06*	0.05	< 0.025	93.9	0.354	< 0.025	0.115
No. of Individual Exceedances (DC)					NA	0	NA	0	NA	0	NA	0	NA	NA	0	NA
Cumulative Hazard Index (DC)					NA	0.0004	NA	0.0004	NA	0.0588	NA	0.0004	NA	NA	0.0004	NA
Cumulative Cancer Risk (DC)					NA	1.30E-07	NA	1.30E-07	NA	4.30E-06	NA	1.30E-07	NA	NA	1.30E-07	NA

--- = not analyzed or no standard MTBE = methyl-tert-butyl ether PAH = polynuclear aromatic hydrocarbons ppm = parts per million TMB = trimethylbenzene VOC = volatile organic compounds

Bold areas indicate soil contaminant concentrations exceed Non-Industrial Direct Contact RCLs.

Underline areas indicate soil contaminant concentrations exceed Industrial Direct Contact RCLs.

Italic areas indicate soil contaminant concentrations exceed Groundwater RCL.

TABLE 4 (2 of 3)
ANALYTICAL RESULTS - SOIL
DAIRICONCEPTS SITE, CHILI, WISCONSIN
AET PROJECT NO. 03-05510

	Soil RCLs (ppm) Calculated: 7-24-19				Samples											
					BS-6A	**BS-6B**	**BS-7**	**BS-8**	**BS-9**	**BS-10**	**CF-1**	**CF-2**	**CF-3**	**S-1**	**S-2**	**S-3**
Date	*Non-Industrial Direct Contact*	*Industrial Direct Contact*	*Soil to GW*	*Surficial Background Threshold Value*	8/9/06		11/12/07				6/7/16					
Depth (feet)					2-4	12-14	10-12				10	13	15	15	14	18
Soil Boring					B-6		B-7	B-8	B-9	B-10	Confirmation samples taken to landfill			SE Wall	NE Wall	NE Floor
PID (Instrument units)					< 1	45	< 1	15	< 1	35	110	255	314	< 1	< 1	5
Depth to Water Table (ft bgs)					7.23-15.15											
Soil Type					silty clay							sand/rock		sandy clay		clay
Lead (ppm)	*400*	*800*	*27*	*52*	< 3	< 3	---	---	---	---	---	---	---	---	---	---
VOCs/PVOCs (ppm)																
Benzene	*1.6*	*7.07*	*0.0051*	---	< 0.025	0.119	< 0.027	0.031	< 0.028	0.15	< 0.049	0.2	1.8	< 0.046	< 0.046	0.92
1,2-DCA	*0.652*	*2.87*	*0.005*	---	< 0.025	< 0.025	---	---	---	---	< 0.049	< 0.046	< 0.043	< 0.046	< 0.046	< 0.051
Ethylbenzene	*8.02*	*35.4*	*1.57*	---	< 0.025	0.047	< 0.027	0.04	< 0.028	0.043	< 0.049	1.3	18	< 0.046	< 0.046	0.49
MTBE	*63.8*	*282*	*0.027*	---	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.073	< 0.067	< 0.064	< 0.067	< 0.068	< 0.075
Naphthalene	*5.52*	*24.1*	*0.6582*	---	< 0.025	< 0.025	< 0.055	< 0.054	< 0.055	< 0.057	< 0.12	0.5	10	< 0.11	< 0.12	< 0.13
Toluene	*818*	*818*	*1.1072*	---	< 0.025	0.081	< 0.027	0.04	< 0.028	0.26	< 0.054	1.4	17	< 0.05	< 0.05	1.5
1,2,4-TMB	*219*	*219*	---	---	< 0.025	0.032	< 0.027	0.071	< 0.028	0.041	< 0.073	3.7	71	< 0.067	< 0.068	0.34
1,3,5-TMB	*182*	*182*	---	---	< 0.025	< 0.025	< 0.027	< 0.027	< 0.028	< 0.029	< 0.055	1.2	23	< 0.051	< 0.051	0.097
Total TMB	---	---	*1.3787*	---	---	0.032	---	0.071	---	0.041	---	4.9	94	---	---	0.437
Total Xylenes	*260*	*260*	*3.96*	---	< 0.025	0.097	< 0.082	< 0.081	< 0.083	0.21	< 0.09	5.2	71	< 0.083	< 0.084	1.6
No. of Individual Exceedances (DC)					0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cumulative Hazard Index (DC)					0.0004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cumulative Cancer Risk (DC)					1.30E-07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

--- = not analyzed or no standard DCA = dichloroethane MTBE = methyl-tert-butyl ether PAH = polynuclear aromatic hydrocarbons ppm = parts per million TMB = trimethylbenzene

VOC/PVOC = volatile organic compounds/ petroleum volatile organic compounds

Bold areas indicate soil contaminant concentrations exceed Non-Industrial Direct Contact RCLs.

<u>Underline</u> areas indicate soil contaminant concentrations exceed Industrial Direct Contact RCLs.

Italic areas indicate soil contaminant concentrations exceed Groundwater RCL.

TABLE 4 (3 of 3)

ANALYTICAL RESULTS - SOIL

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	Soil RCLs (ppm) Calculated: 7-24-19				Samples												
					S-4	**S-5**	**S-6**	**S-7**	**S-8**	**S-9**	**S-10**	**S-11**	**S-12**	**S-13**	**S-14**	**S-15**	**S-16**
Date	*Non-Industrial Direct Contact*	*Industrial Direct Contact*	*Soil to GW*	*Surficial Background Threshold Value*	6/7/16												
Depth (feet)					18	15	14	18			15	14	15		18		
Soil Boring					SE Floor	SE Wall	N Wall E	Floor	Floor	Floor	N Wall	S Wall	NW Wall	W Wall	Floor		
PID (Instrument units)					< 1	< 1	< 1	15	12	5	< 1	< 1	< 1	< 1	25	268	110
Depth to Water Table (ft bgs)					7.23-15.15												
Soil Type					sand	sandy clay		sand/rock			sandy clay				sand/rock		
VOCs/PVOCs (ppm)																	
Benzene	*1.6*	*7.07*	*0.0051*	---	< 0.039	< 0.049	< 0.049	0.37	0.11	0.08	< 0.043	< 0.04	< 0.05	< 0.049	0.3	1.6	0.16
1,2-DCA	*0.652*	*2.87*	*0.005*	---	< 0.039	< 0.049	< 0.049	< 0.044	< 0.045	< 0.041	< 0.043	< 0.04	< 0.05	< 0.049	< 0.042	< 0.04	< 0.048
Ethylbenzene	*8.02*	*35.4*	*1.57*	---	0.2	< 0.049	< 0.049	1.1	< 0.045	< 0.041	< 0.043	< 0.04	< 0.05	< 0.049	0.11	15	5.9
MTBE	*63.8*	*282*	*0.027*	---	< 0.057	< 0.071	< 0.073	< 0.064	< 0.066	< 0.061	< 0.063	< 0.058	< 0.073	< 0.072	< 0.062	< 0.058	< 0.07
Naphthalene	*5.52*	*24.1*	*0.6582*	---	< 0.097	< 0.12	< 0.12	0.62	< 0.11	< 0.1	< 0.11	< 0.099	< 0.12	< 0.12	< 0.1	4.2	3.4
Toluene	*818*	*818*	*1.1072*	---	< 0.042	< 0.053	< 0.054	1.5	< 0.049	< 0.045	< 0.047	< 0.043	< 0.054	< 0.054	0.58	34	3.4
1,2,4-TMB	*219*	*219*	---	---	0.61	< 0.071	< 0.073	3.1	< 0.066	< 0.061	< 0.063	< 0.058	< 0.073	0.081	0.11	28	16
1,3,5-TMB	*182*	*182*	---	---	0.19	< 0.054	< 0.055	0.9	< 0.05	< 0.046	< 0.048	< 0.044	< 0.056	< 0.055	< 0.047	8.6	5.8
Total TMB	---	---	*1.3787*	---	0.8	---	---	4	---	---	---	---	---	0.081	0.11	36.6	21.8
Total Xylenes	*260*	*260*	*3.96*	---	0.6	< 0.089	< 0.089	4.1	< 0.081	< 0.076	< 0.078	< 0.072	< 0.091	< 0.09	0.44	37	19
No. of Individual Exceedances (DC)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cumulative Hazard Index (DC)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cumulative Cancer Risk (DC)					NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

--- = not analyzed or no standard DCA = dichloroethane MTBE = methyl-tert-butyl ether PAH = polynuclear aromatic hydrocarbons ppm = parts per million TMB = trimethylbenzene

VOC/PVOC = volatile organic compounds/ petroleum volatile organic compounds

Bold areas indicate soil contaminant concentrations exceed Non-Industrial Direct Contact RCLs.

Underline areas indicate soil contaminant concentrations exceed Industrial Direct Contact RCLs.

Italic areas indicate soil contaminant concentrations exceed Groundwater RCL.

TABLE 5

RESIDUAL SOIL CONTAMINATION

DAIRICONCEPTS SITE, CHILI, WISCONSIN

AET PROJECT NO. 03-05510

	Soil RCLs (ppm) Calculated: 8-5-19				Samples
					BS-3A
Date	*Non-Industrial Direct Contact*	*Industrial Direct Contact*	*Soil to GW*	*Surficial Background Threshold Value*	8/9/06
Depth (feet)					2-4
Soil Boring					B-3/MW-3A
PID (Instrument units)					110
Depth to Water Table (ft bgs)					7.23-15.15
Soil Type					silty clay
Lead (ppm)	*400*	*800*	*27*	*52*	3.45
VOCs (ppm)					
Benzene	*1.6*	*7.07*	*0.0051*	---	*0.372*
Ethylbenzene	*8.02*	*35.4*	*1.57*	---	0.503
MTBE	*63.8*	*282*	*0.027*	---	< 0.025
Naphthalene	*5.52*	*24.1*	*0.6582*	---	0.603
n-Butylbenzene	*108*	*108*	---	---	1.11
sec-Butylbenzene	*145*	*145*	---	---	1.35
n-Propylbenzene	*264*	*264*	---	---	0.896
Toluene	*818*	*818*	*1.1072*	---	*1.72*
1,2,4-TMB	*219*	*219*	---	---	3.78
1,3,5-TMB	*182*	*182*	---	---	2.21
Total TMB	---	---	*1.3787*	---	*5.99*
Total Xylenes	*260*	*260*	*3.96*	---	*6.06*
No. of Individual Exceedances (DC)					0
Cumulative Hazard Index (DC)					0.0321
Cumulative Cancer Risk (DC)					4.00E-07

--- = not analyzed or no standard MTBE = methyl-tert-butyl ether ppm = parts per million

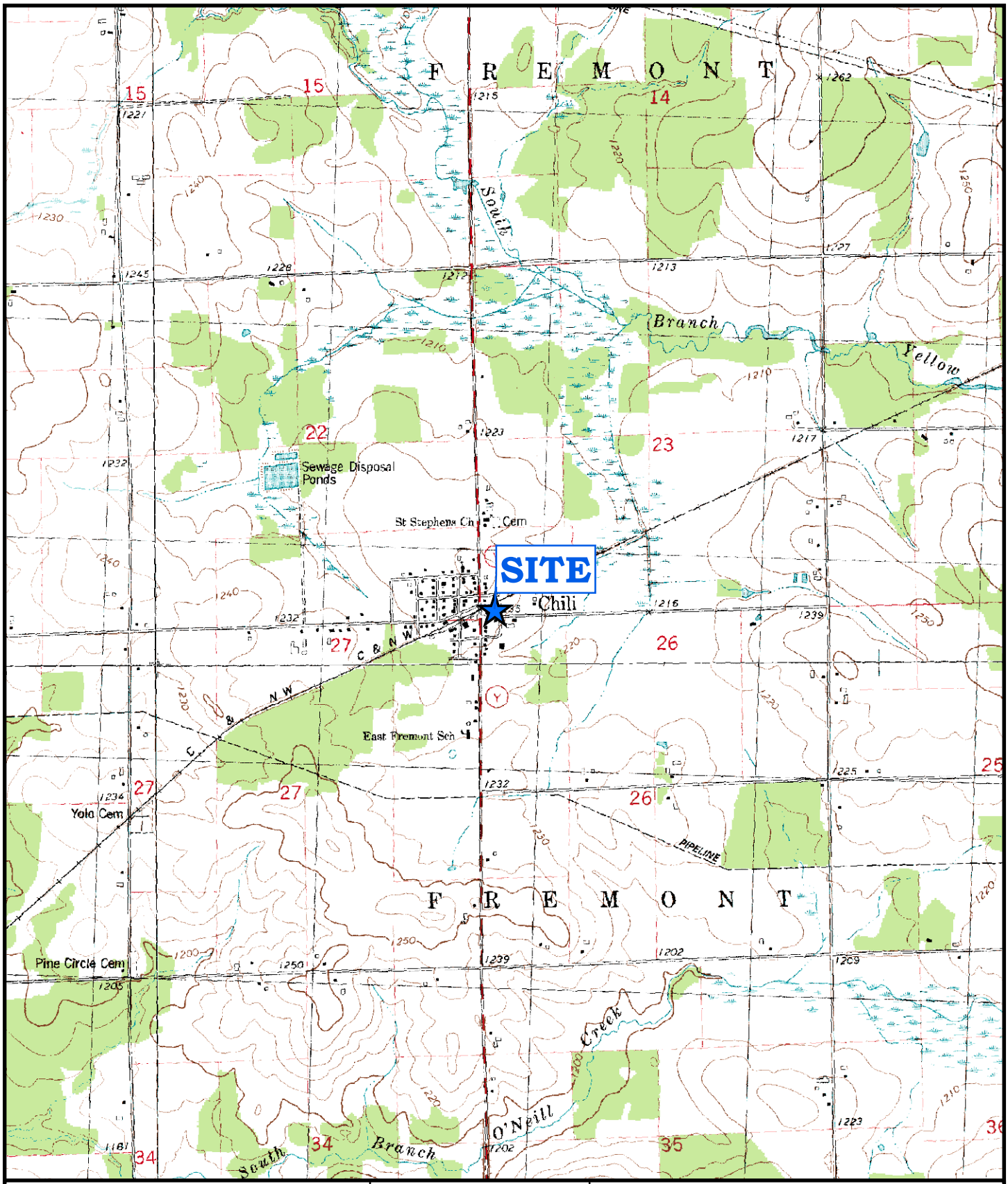
TMB = trimethylbenzene VOC = volatile organic compounds

Bold areas indicate soil contaminant concentrations exceed Non-Industrial Direct Contact RCLs.

Underline areas indicate soil contaminant concentrations exceed Industrial Direct Contact RCLs.

Italic areas indicate soil contaminant concentrations exceed Groundwater RCL.

Figures



AMERICAN ENGINEERING TESTING, INC

Map Reference: USGS 7.5" Quadrangles, Spencer South, Loyal East, Lindsey, and Granton, Wisconsin

N

0 1,000 2,000

Feet

Figure 1

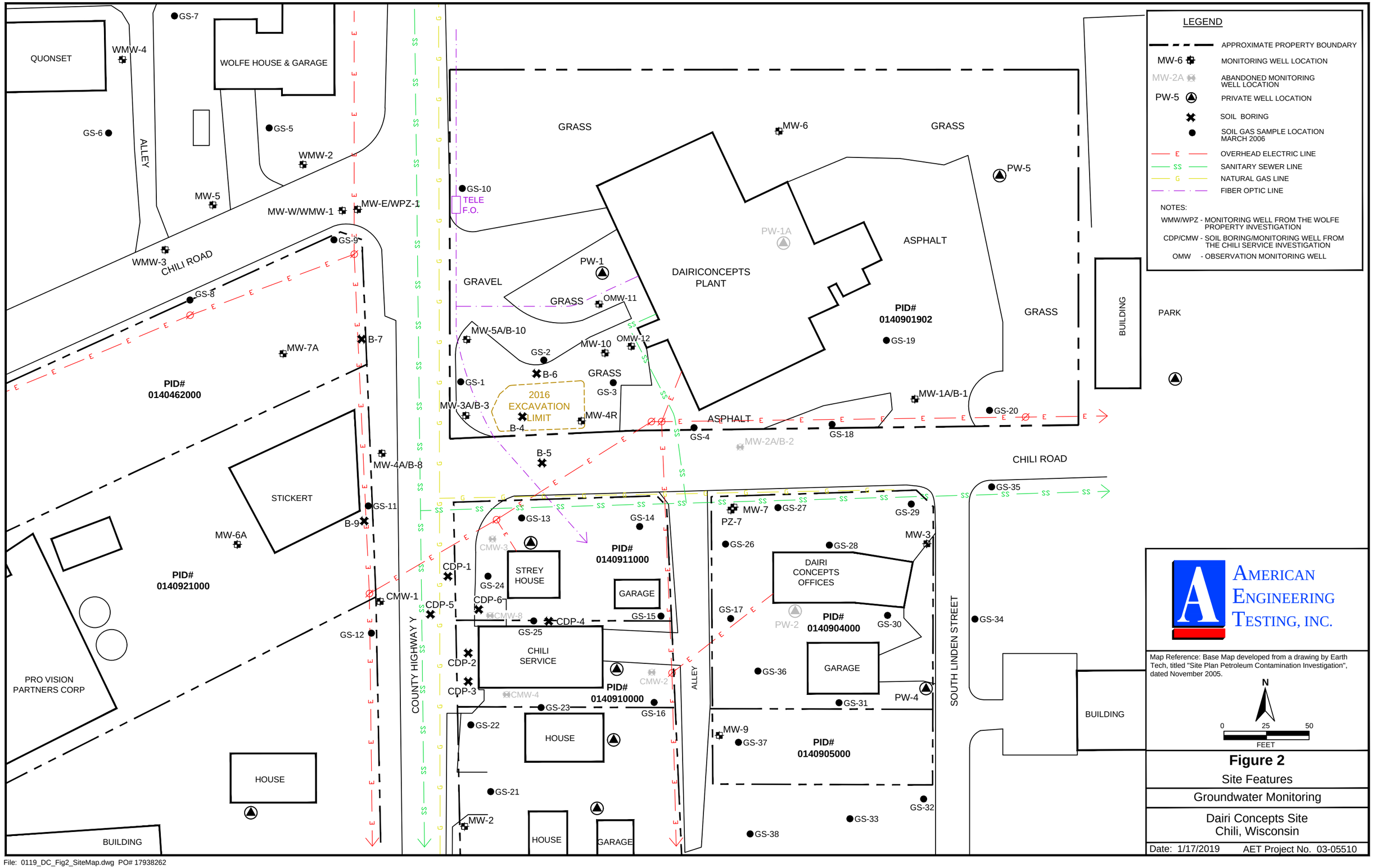
Site Location Map

Groundwater Monitoring Report

Dairi Concepts Site
Chili, Wisconsin

Date: 08/16/2016 AET Project No. 03-05510

File: DC_Fig1_SLM.mxd Date: 12/19/2012



AMERICAN ENGINEERING TESTING, INC.

Map Reference: Base Map developed from a drawing by Earth Tech, titled "Site Plan Petroleum Contamination Investigation", dated November 2005.

Figure 2

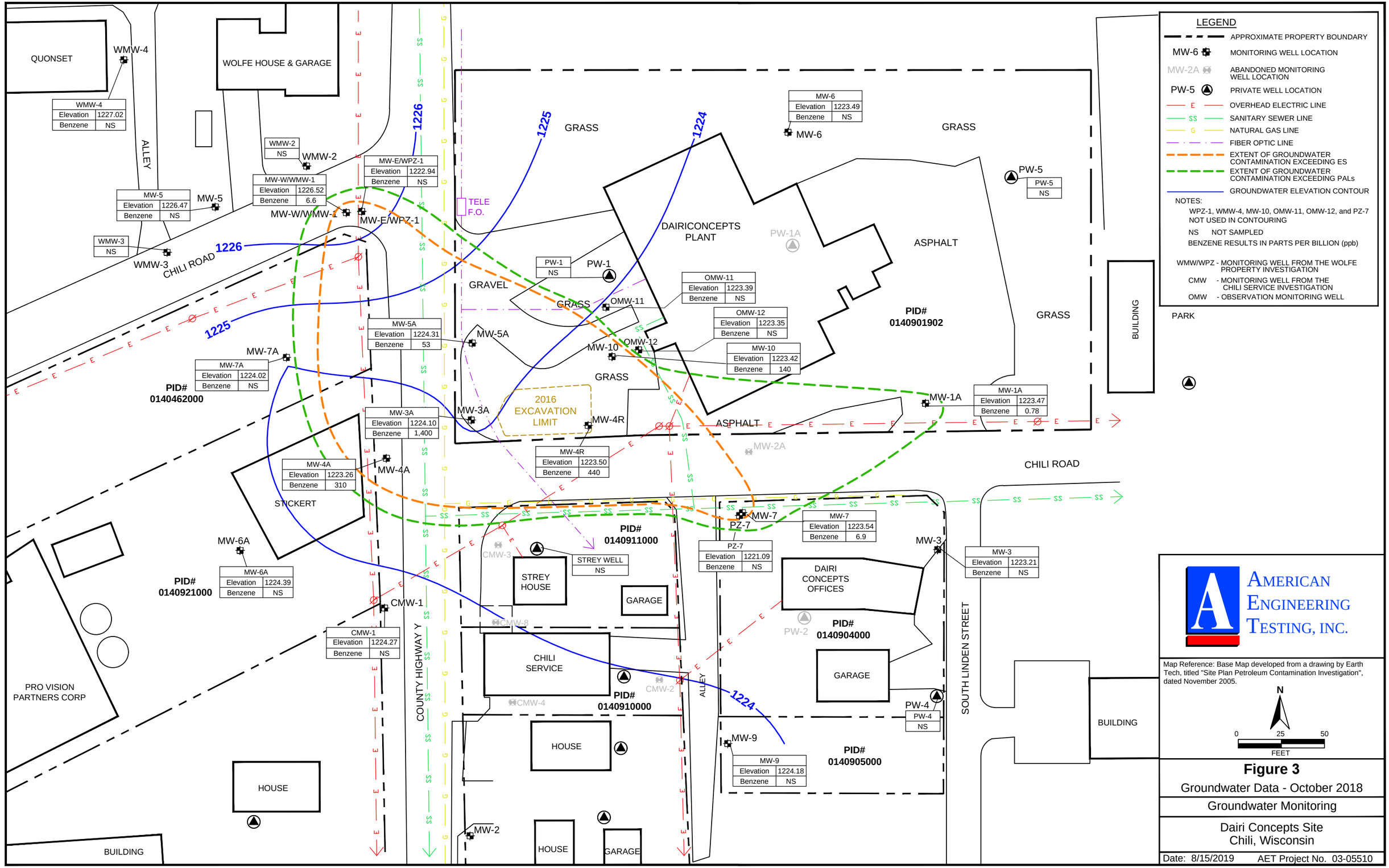
Site Features

Groundwater Monitoring

Dairi Concepts Site
Chili, Wisconsin

Date: 1/17/2019 AET Project No. 03-05510

File: 0119_DC_Fig2_SiteMap.dwg PO# 17938262



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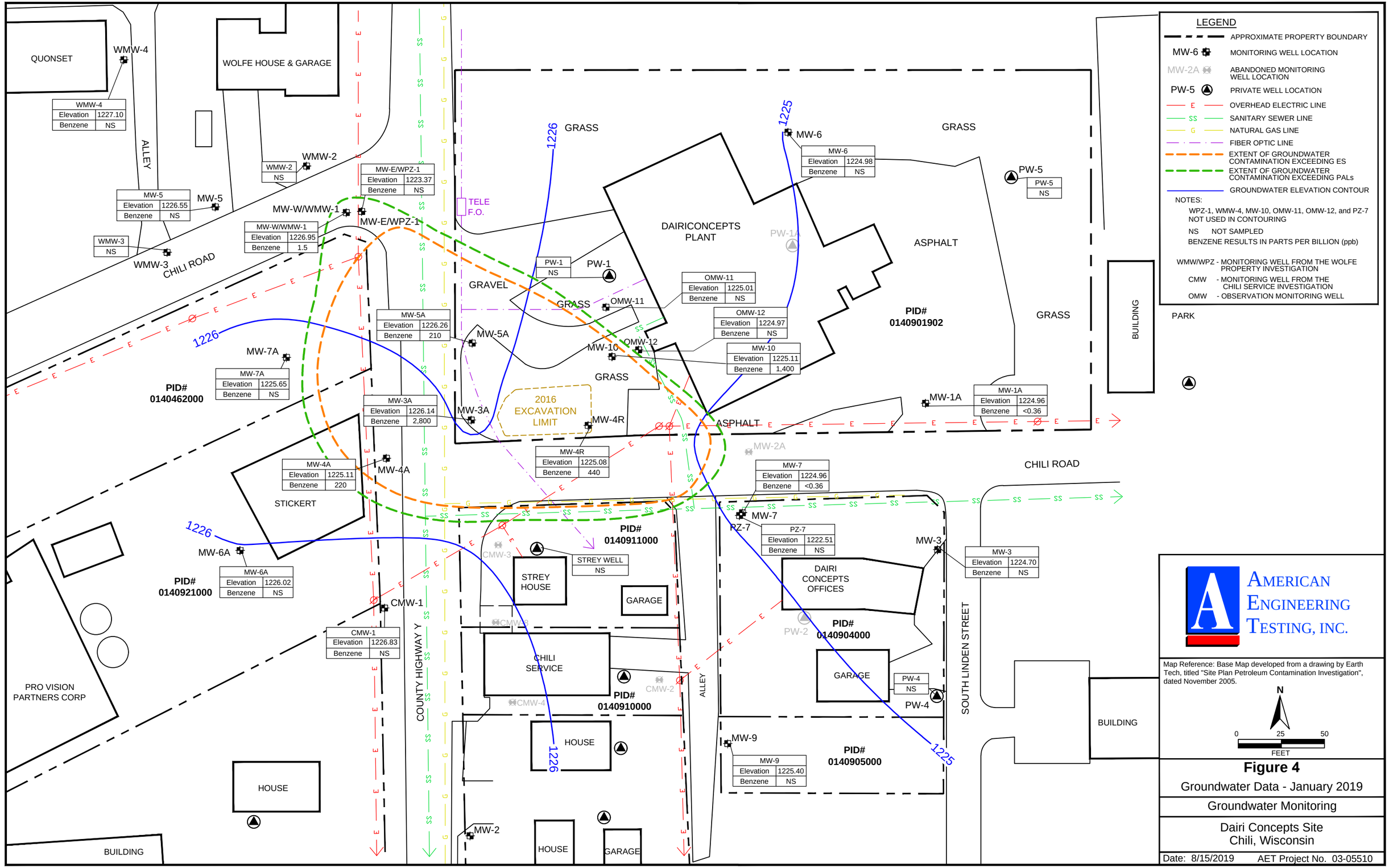

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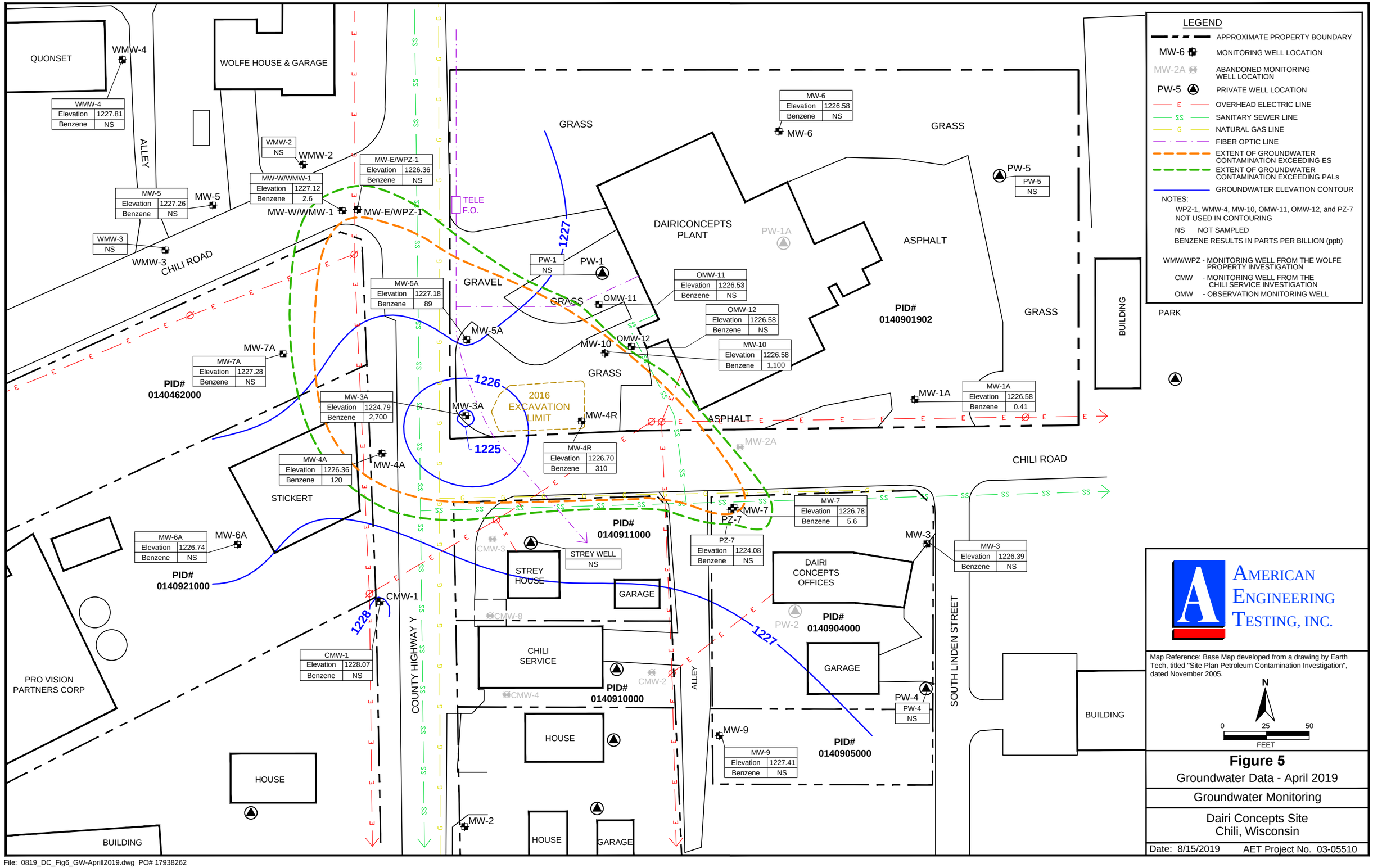


AMERICAN ENGINEERING TESTING, INC.

Map Reference: Base Map developed from a drawing by Earth Tech, titled "Site Plan Petroleum Contamination Investigation", dated November 2005.

N

0 25 50 FEET

Figure 5

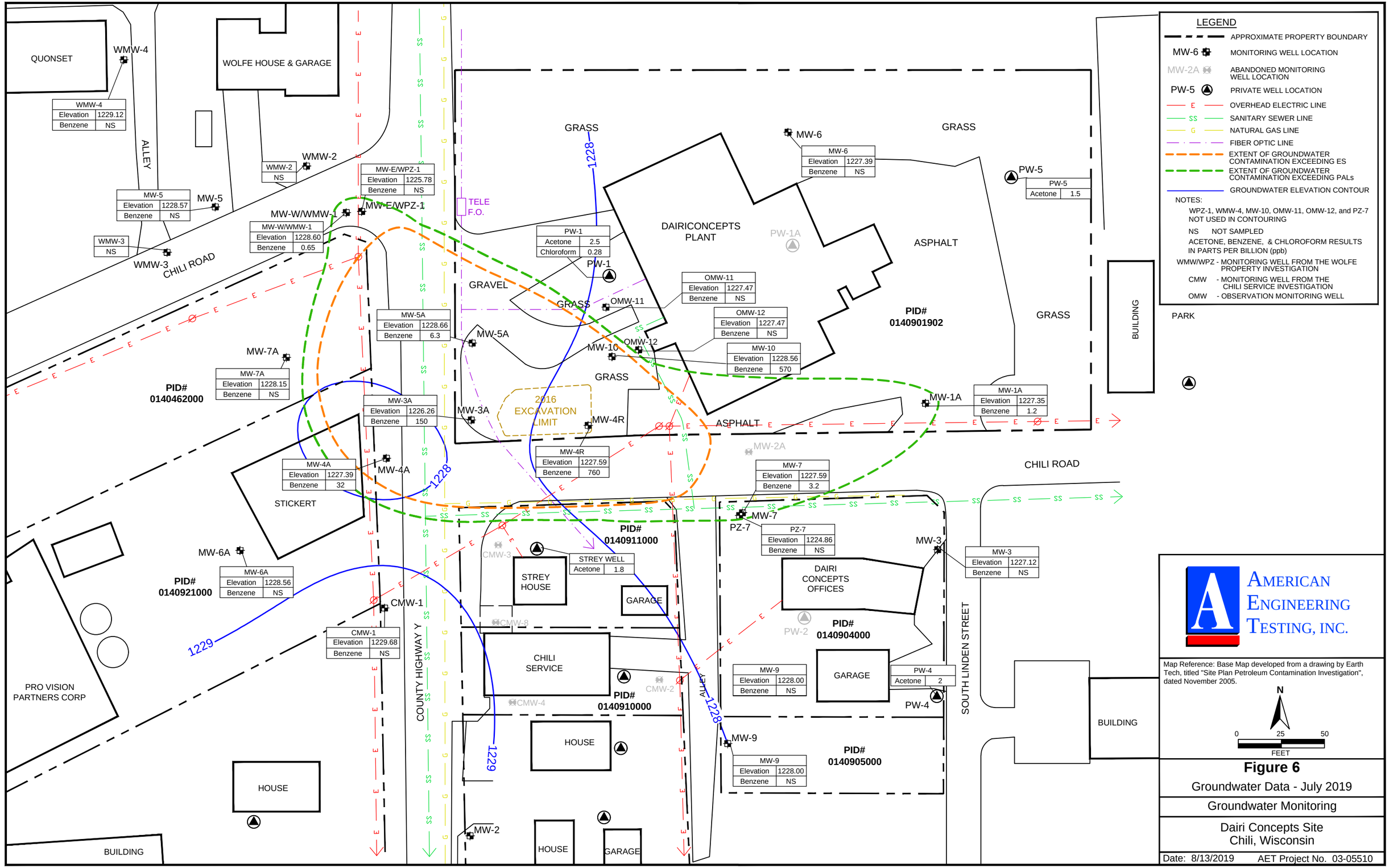
Groundwater Data - April 2019

Groundwater Monitoring

Dairi Concepts Site
Chili, Wisconsin

Date: 8/15/2019 AET Project No. 03-05510

File: 0819_DC_Fig6_GW-Aprill2019.dwg PO# 17938262



AMERICAN ENGINEERING TESTING, INC.

Map Reference: Base Map developed from a drawing by Earth Tech, titled "Site Plan Petroleum Contamination Investigation", dated November 2005.

N

0 25 50

FEET

Figure 6

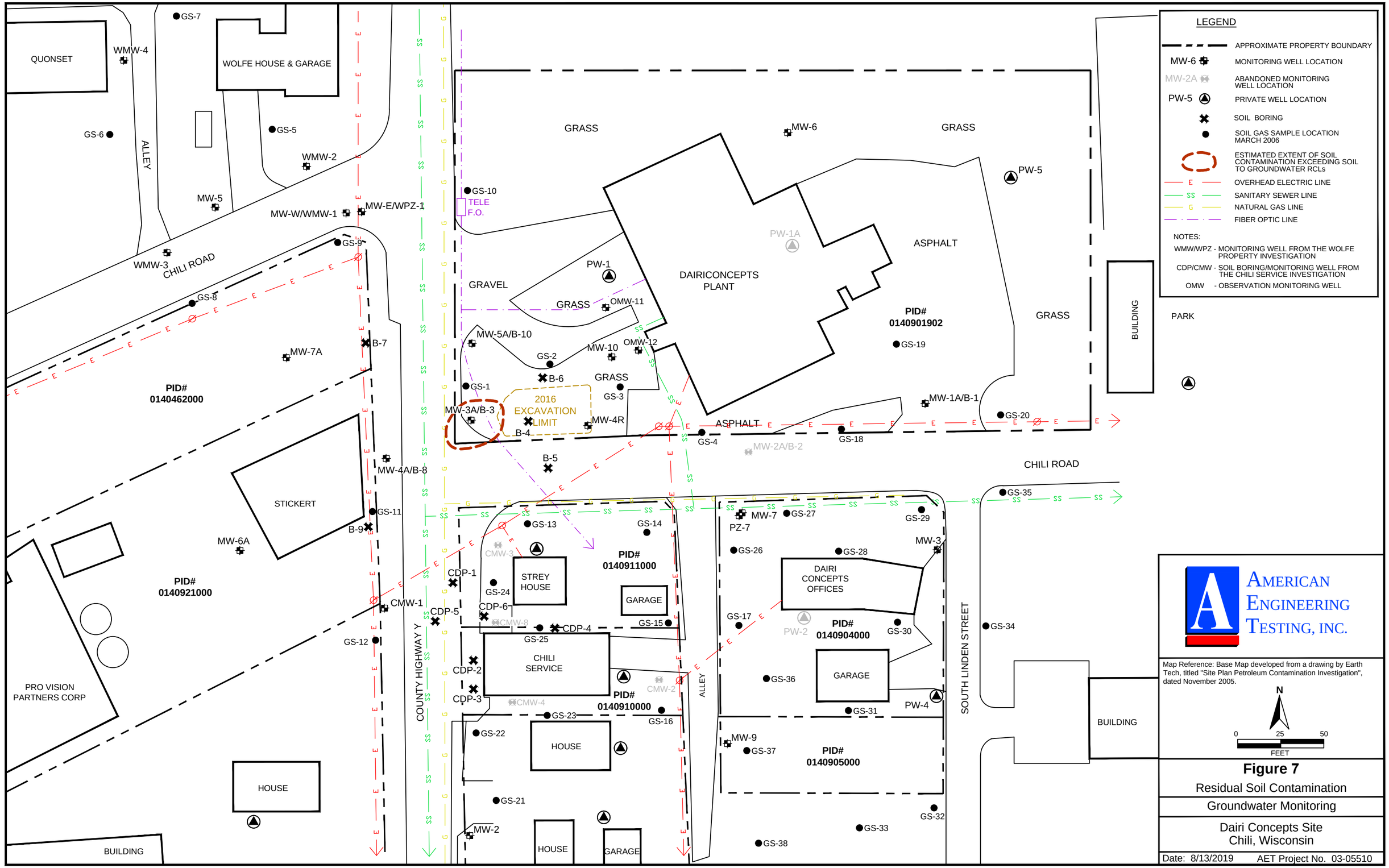
Groundwater Data - July 2019

Groundwater Monitoring

Dairi Concepts Site
Chili, Wisconsin

Date: 8/13/2019 AET Project No. 03-05510

File: 0819_DC_Fig7_GW-July2019.dwg PO# 17938262



File: 0819_DC_Fig3-ResidualSoil.dwg PO 17938-262

Appendix A

Acronyms and Abbreviations

ACRONYMS AND ABBREVIATIONS

AET Standard List

^{0}C	degrees Celsius
^{0}F	degrees Fahrenheit
%	percent
AAI	EPA All Appropriate Inquiry (§312.10 of 40 CFR 312)
ACM	asbestos containing material
ACBM	asbestos containing building material
AET	American Engineering Testing, Inc.
AHERA	Asbestos Hazard Emergency Response Act
AST	aboveground storage tank
ASTM	American Society for Testing and Materials (now known only by acronym)
AUL	activity and use limitation
BETX	benzene, ethylbenzene, toluene, xylene
bgs	below ground surface
BRRTS	Bureau of Remediation and Redevelopment Tracking System
CAP	Corrective Action Plan
CERCLA	Comprehensive Environmental Response, Compensation, Liability Act (Superfund)
CERCLIS	Comprehensive Environmental Response, Compensation, Liability Information System
CESQG	RCRA Conditionally Exempt Small Quantity Generator
CFR	Code of Federal Regulations
CLEAN	Contaminated Lands Environmental Action Network
CoC	contaminant of concern
c.o.c.	chain of custody
CORRACTS	RCRA Corrective Actions Information System
cPAH	carcinogenic polynuclear aromatic hydrocarbon
CVOC	chlorinated volatile organic compound
cy or CY	cubic yards
DRO	diesel range organics
EC	engineering control
EIS	Environmental Impact Statement
EP	Environmental Professional (§312.10 of 40 CFR 312)
EPA	Environmental Protection Agency (also USEPA)
ES	enforcement standard
ERNS	Emergency Response Notification System (federal)
ESA	Environmental Site Assessment
f/cc	fibers per cubic centimeter
ft	feet
GC	gas chromatography
GC/MS	gas chromatography/mass spectroscopy
GEN	RCRA Generator

ACRONYMS AND ABBREVIATIONS

AET Standard List

GIS	geographic information system
GPS	global positioning system
GRO	gasoline range organics
HASP	Health and Safety Plan
HIG	Historical Information Gatherers, Inc.
HREC	historical recognized environmental condition
IC	institutional control
LLP	landowner liability protection
LQG	RCRA Large Quantity Generator
LOQ	limit of quantitation
LSI	Limited Site Investigation
LUST	leaking underground storage tank
MCL	EPA Maximum Contaminant Level
MDL	method detection limit.
mg/kg	milligrams per kilogram (ppm)
mg/L	milligrams per liter (ppm)
MTBE	methyl tert-butyl ether
NA	not assigned or not applicable
ND	no detection
NEPA	National Environmental Protection Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFA	No Further Action
NFRAP	No Further Remedial Action Planned
NLR	RCRA No Longer Regulated Information System
NPDES	National Pollutant Discharge Elimination System
NPL	National Priority List (federal Superfund)
NR	not recorded
ODI	EPA Open Dump Inventory
OSHA	Occupational Safety and Health Administration
PECFA	Petroleum Environmental Clean-Up Fund Act
PAH	polynuclear aromatic hydrocarbon
PAL	preventive action limit
PEL	OSHA Permissible Exposure Limit
PCB	polychlorinated biphenyl
pcm	point count method
PE	Professional Engineer
PG	Professional Geologist
PID	photoionization detector
PLM	polarized light microscopy

ACRONYMS AND ABBREVIATIONS

AET Standard List

PLP	Permanent List of Priorities (state Superfund)
ppb	parts per billion
PPE	personal protective equipment
ppm	parts per million
PVOC	petroleum volatile organic compound
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RACM	regulated asbestos containing material
RAP	Response Action Plan
RCRA	Resource Conservation Recovery Act
RCL	residual contaminant level
REC	recognized environmental condition
RI	Remedial Investigation
RL	laboratory reporting limit
ROD	EPA Record of Decision
RP	responsible party
SDS	safety data sheet
SOP	standard operating procedure
SPILLS	WDNR Spills inventory
SQG	RCRA Small Quantity Generator
SREC	suspect recognized environmental condition
SSP	Site Safety Plan
SVE	soil vapor extraction
SVOC	semi-volatile organic compound
SWF/LF	WDNR Solid Waste Facilities/Landfill Sites
TCLP	Toxicity Characteristic Leaching Procedure
TMB	trimethylbenzene
TPH	total petroleum hydrocarbons
TRIS	EPA Toxic Release Inventory System
TSCA	Toxic Substances Control Act
TSD	RCRA Transportation Storage and Disposal inventory
µg/kg	micrograms per kilogram (ppb)
µg/l or µg/L	micrograms per liter (ppb)
$\mu g/m^3$	micrograms per cubic meter
USEPA	United States Environmental Protection Agency (also EPA)
USGS	United States Geological Survey
UST	underground storage tank
VIC	Voluntary Investigation and Cleanup Program

ACRONYMS AND ABBREVIATIONS

AET Standard List

VOC	volatile organic compound
WAC	Winsonsin Adminstrative Code
WDATCP	Wisconsin Department of Agriculture, Trade, and Consumer Protection
WDHS	Wisconsin Department of Health Services
WDNR	Wisconsin Department of Natural Resources
WDOT	Wisconsin Department of Transportation
WGNHS	Wisconsin Geological and Natural History Survey
WCA	Wetland Conservation Act
WPDES	Wisconsin Pollution Discharge Elimination System
WRRD	Wisconsin Remediation and Redevelopment Database
XRF	x-ray fluorescence

DEFINITIONS

Controlled recognized environmental condition (CREC): a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

De minimus condition: a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate government agencies. Conditions determined to be de minimus conditions are not recognized environmental conditions nor controlled recognized environmental conditions.

Historical recognized environmental condition (HREC): a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

Recognized environmental condition (REC): the presence or likely presence of hazardous substances or petroleum products in, on, or at a property: 1) due to release to the environment; 2) under conditions indicative of a release to the environment; or 3) under conditions that pose a material threat of a future release to the environment.

Appendix B

Environmental Sampling Methods

ENVIRONMENTAL SAMPLING METHODS – GENERAL: EXCAVATIONS/TEST PITS, HAND AUGERS, SURFICIAL SOILS, STOCKPILES

Site Safety Issues

Safety is of paramount importance on construction, demolition, or other high-traffic sites with potentially unstable ground. Frequent visual and verbal contact is maintained with operators of heavy equipment in the sampling vicinity. Care is taken not to enter depressions or scale mounds that would constitute confined spaces, where engulfment, immersion, or falls are possible, or where harmful vapors may collect. Most observations and soil collection are performed from a stable and level ground surface with the help of heavy equipment operated by an excavation contractor.

Contamination Reduction

Sampling devices (except heavy equipment in most cases) are cleaned between sampling points to minimize cross contamination. The cleaning procedure may consist of an alconox detergent-water wash using a brush, followed by a tap water rinse. Certain types of projects may entail more or less stringent decontamination procedures.

Soil Collection

Most soil samples from excavations or test pits are collected directly from heavy equipment (e.g., excavation bucket, loader, or bulldozer), giving preference to soils that have not touched the equipment. A hand auger is used to complete shallow soil borings in locations of limited vehicle access. Hand auger borings are advanced manually, typically in 6" to 12" depth intervals. Soils are collected directly from the hollow auger barrel. A spade shovel is used to collect surficial soils (i.e., up to 6" depth). In many cases, soil samples can be collected by hand without added equipment.

Impacted soils or buried debris may be present in the ground that are not observed due to the spacing and depths of sampling points. Best judgment determinations, based on known site conditions and past experience in similar situations, do not guarantee identification or removal of all impacts.

Soil Classification

As the samples are obtained in the field, they are visually and manually classified by the field staff. Representative portions of the samples may be returned to the laboratory for further examination and for verification of the field classification. Soil classifications, visual/odor observations, and information on any groundwater encountered are reported on the Soil Screening Data Sheet or other field notes.

Soil Sample Vapor Screening

Soil samples collected directly or from equipment are screened with a photoionization detector (PID) for the presence of organic vapors with ionization potentials less than the lamp voltage. The PID is calibrated for direct reading in parts-per-million-volume (PPMv) of a benzene equivalent. Soil samples are collected and screened according to the bag-headspace field screening procedure, which consists of placing freshly collected soil into a polyethylene Whirl-Pak or freezer "baggie" (i.e., bag), sealing the bag to contain an air pocket (i.e., headspace), and allowing 10 to 20 minutes for vapors to disperse from the soil to the headspace. The highest reading upon inserting the PID probe into the bag headspace – typically attained within two to five seconds of probe insertion – is recorded on the Soil Screening Data Sheet or other field notes. Excessive moisture, temperature extremes, ambient vapors, or other unusual field circumstances can affect screening results.

Other Field Screening

For certain sites, field screening may be conducted for additional parameters in accordance with AET's Field Screening Methods Supplemental information sheet.

Soil Sampling for Chemical Analysis

Soil samples obtained for chemical analysis are collected directly or from the sampling device into laboratory-prepared containers with appropriate preservatives, according to laboratory protocols. The samples are delivered to the analytical laboratory within prescribed holding times, accompanied by proper chain-of-custody forms.

Not all methods summarized on this information sheet are conducted at all sites. Special conditions may also occur which require modifications to these methods. Any descriptions of field methods within the report text take precedence.

ENVIRONMENTAL SAMPLING METHODS – HSA/PUSH PROBE SOIL BORINGS

Contamination Reduction

The hollow-stem auger (HSA) drill rig and down hole tooling are steam cleaned prior to mobilization. The split-spoon sampler is cleaned between samples to minimize cross contamination. The push-probe down hole tooling is steam cleaned prior to mobilization. New clear plastic liners are used for each drive, and the tooling is cleaned between borings to minimize cross contamination. The cleaning procedure consists of an alconox detergent-water wash using a brush, followed by a tapwater rinse. The alconox wash and rinse water are changed regularly – typically between borings. Certain types of projects may entail more stringent decontamination procedures.

Soil Boring Advancement and Limitations

Split-spoon soil sampling in the standard-penetration soil borings is performed using hollow-stem auger techniques in general accordance with ASTM:D1586, with a modified hammer weight calibrated by pile driving analyzer (PDA). Using this procedure, a 2" outer-diameter (OD) split-spoon soil sampler is driven into the soil by a hammer weight with 60%-65% energy of a 140-lb. weight falling 30". After an initial set of 6", the number of blows required to drive the sampler an additional 12" is known as the penetration resistance or N value, an index of the relative density of cohesionless soils and the consistency of cohesive soils. Samples are typically collected in distinct 18" or 24" depth intervals separated by 12" or 6" depth intervals, using drive rods to extend the boring deeper beneath the ground surface. The split-spoon sampler is opened to expose distinct 18" or 24" sections of soil for classification and sampling.

Soil sampling in the soil borings is performed using a Geoprobe® system. Soil borings are advanced using a vehicle-mounted, hydraulically-powered, soil probing machine, which uses static force (vehicle weight) and percussion to advance small-diameter sampling tools into the subsurface for collecting soil core, soil gas, or groundwater samples. Using this system, a 2" outer-diameter (OD) MacroCore® soil sampler containing a 1.75" OD clear plastic liner is driven into the soil in distinct 48" depth intervals, except where subsurface conditions limit the equipment to shorter drive lengths. In cases where soil recovery is poor, typically due to grain-size or moisture, a smaller “discrete” soil sampler (1.5" OD containing a 1.0" OD clear plastic liner) with a retractable piston tip may be used to collect soil in distinct 24" depth intervals. Probe rods are added to extend borings deeper beneath the surface. The plastic liner is removed from the sampler and cut lengthwise to expose discrete sections of soil for classification and sampling.

Unless actually observed, contacts between soil layers are estimated based on the spacing of samples and the action of the drilling tools. Cobbles, boulders, and other large objects generally cannot be recovered from soil borings, and may be present in the ground even if they are not noted on the boring logs. Impacted soils or buried debris may be present that are not observed due to the spacing and depths of sampling points. Best judgment determinations, based on known site conditions and past experience in similar situations, do not guarantee identification of all impacts.

Soil Classification

As the samples are obtained in the field, they are visually and manually classified by the field staff following the Unified Soil Classification (USC) system in general accordance with ASTM:D2488. Representative portions of the samples may be returned to the laboratory for further observation and for verification of the field identification. Logs of the borings are prepared indicating the depth and identification of the various strata, water level information, and other pertinent information regarding the method of maintaining and advancing the borings.

Boring logs include judgments of the geologic depositional origin. This judgment is primarily based on observations of the soil samples, which can be limited. Observations of the surrounding topography, vegetation, and development can sometimes aid this judgment. Visual/odor observations may aid in assessing impacts but are not relied on exclusively.

Soil Sample Vapor Screening

Soil samples collected directly from the soil samplers are screened with a photoionization detector (PID) for the presence of organic vapors with ionization potentials less than the lamp voltage. The PID is calibrated for direct reading in parts-per-million-volume (PPMv) of a benzene equivalent. Soil samples are collected and screened according to the bag-headspace field screening procedure, which consists of placing freshly collected soil into a polyethylene Whirl-Pak or freezer “baggie” (i.e., bag), sealing the bag to contain an air pocket (i.e., headspace), and allowing 10 to 20 minutes for vapors to disperse from the soil to the headspace. The highest reading upon inserting the PID probe into the bag

Not all methods summarized on this information sheet are conducted at all sites. Special conditions may also occur which require modifications to these methods. Any descriptions of field methods within the report text take precedence.

ENVIRONMENTAL SAMPLING METHODS – HSA/PUSH PROBE SOIL BORINGS

headspace – typically attained within two to five seconds of probe insertion – is recorded on the boring log. Excessive moisture, temperature extremes, ambient vapors, or other unusual field circumstances can affect screening results.

Other Field Screening
For certain sites, field screening may be conducted for additional parameters in accordance with AET's Field Screening Methods Supplemental information sheet.

Soil Sampling for Chemical Analysis
Soil samples obtained for chemical analysis are collected directly from the soil samplers and placed into laboratory-prepared containers with appropriate preservatives, according to laboratory protocols. The samples are delivered to the analytical laboratory within prescribed holding times, accompanied by proper chain-of-custody forms.

Water Level Measurements
The groundwater level measurements are shown at the bottom of the boring logs. The following information appears under Water Level Measurements on the logs:

- Date and time of measurement
- Sampled Depth: greatest depth of soil sampling at the time of measurement
- Casing Depth: depth to bottom of casing or hollow-stem auger at time of measurement
- Cave-in Depth: tape-measured depth of borehole
- Water Level: tape-measured depth of free water in the borehole

The true depth of the water table at the boring locations may be different from the water levels measured in the boreholes. This is possible because several factors can affect the water-level measurements in the borehole such as permeability of each soil layer in profile, presence of perched water, amount of time between water level readings, and weather conditions.

Groundwater Sampling for Chemical Analysis
Groundwater samples obtained for chemical analysis are collected directly from each borehole/temporary monitoring well by one of two techniques: (1) A new dedicated teflon bailer is lowered down the borehole/temporary monitoring well with new nylon rope or decontaminated downrigger cable; (2) Using a peristaltic pump or check-valve assembly, samples are pumped directly from the borehole/temporary monitoring well through new polyethylene tubing extended to depth through the casing. Samples are collected in laboratory-prepared containers with appropriate preservatives, according to laboratory protocols. For analyses in which field-filtering is required, samples are vacuum-filtered through a new dedicated plastic filter with 0.45-μm pores. The samples are delivered to the analytical laboratory within prescribed holding times, accompanied by proper chain-of-custody forms.

Because boreholes/temporary monitoring wells are not typically in equilibrium with groundwater, results provide qualitative groundwater data. Purging additional water prior to sampling may improve the data representativeness somewhat. Monitoring wells are necessary to obtain more accurate quantitative groundwater data.

Surveying and Abandonment
Following sampling, ground surface elevations at boring locations are typically measured to the nearest 0.1 foot. If a permanent benchmark of known elevation is unavailable, the measurement is referenced to a nearby temporary benchmark given the arbitrary reference elevation of 100.0 feet. Horizontal location control is typically based on tape measurements from fixed site features. Certain types of projects may entail more stringent measures such as global positioning systems (GPS) or contracting registered surveyors.

Boreholes/temporary monitoring wells are completely backfilled with bentonite and abandoned according to procedures outlined in Chapter NR 141.25 of the Wisconsin Administrative Code A WDNR Borehole Abandonment (3300-5W) form is completed for each soil boring not completed as a monitoring well.

Not all methods summarized on this information sheet are conducted at all sites. Special conditions may also occur which require modifications to these methods. Any descriptions of field methods within the report text take precedence.

ENVIRONMENTAL SAMPLING METHODS – MONITORING WELLS

Contamination Reduction

The sampling downrigger and electronic water-level indicator are cleaned prior to sampling and between sampling from different monitoring wells. The cleaning procedure consists of an alconox detergent-water wash and distilled water rinse from spray dispensers. New disposable bailers are used for each well.

Monitoring Well Installation and Development

Groundwater monitoring wells and piezometers are constructed and developed in accordance with Wisconsin Administrative Code – Chapter NR 141 requirements. Monitoring Well Construction (4400-113A) and Monitoring Well Development (4400-113B) forms are completed for each well. Typically, monitoring wells are installed in hollow-stem auger (HSA) soil boreholes that have been sampled for environmental parameters.

Monitoring wells are developed by removing a minimum of three to five borehole volumes, until water appears clear.

Groundwater Elevation Measurements

Following monitoring well installation, the top-of-riser elevations are surveyed to the nearest 0.01 feet. If a permanent benchmark of known elevation is unavailable, the survey is referenced to a nearby temporary benchmark given the arbitrary reference elevation of 100.00 feet.

Groundwater elevations are determined by using an electronic water-level indicator. Measurements are obtained by lowering the probe into each well until the groundwater surface is encountered. Measurements, referenced to the top-of-riser elevations, are reported to the nearest 0.01 feet.

Groundwater Sampling for Chemical Analysis

Groundwater samples obtained for chemical analysis are collected directly from each monitoring well using a new disposable bailer lowered down the well with new nylon rope or decontaminated downrigger cable. Samples are decanted directly from the bailer into laboratory-prepared containers with appropriate preservatives. Alternatively, samples may be drawn directly from the submersible pump discharge tubing. For analyses in which field-filtering is required, samples are vacuum-filtered through a new dedicated plastic filter with 0.45-μm pores. The samples are delivered to the analytical laboratory within prescribed holding times, accompanied by proper chain-of-custody forms.

Free Product Removal Procedures

We conducted free product removal procedure as follows:

- Remove well cover and scrape away excess dirt.
- Carefully remove test well plug, bailer, & sock from well casing. Remember that bailer and absorbent socks are tied to the plug.
- Set bailer aside and squeeze product from sock into bucket. After squeezing out sock set aside to dry.
- Measure depth to water/product with a product/groundwater interface probe. Record depth to product, groundwater, and thickness of product in feet.
- Secure bailer to rope or string and insert into well casing. Lower the bailer until contact with water table is made. Allow bailer to drop into the water for no more than one foot. Remove bailer and estimate product thickness. Empty contents of bailer into bucket and record product thickness.
- Continue to lower bailer into well and drop to the water table. Allow bailer to fill with no more than one foot of water/product. Remove bailer and empty contents into bucket. Continue fill bucket. Transfer filled buckets to drum.
- Repeat this process until thickness of free product is less than one inch. Record amount of water/product removed.
- If a groundwater sample will be collected use a new disposable bailer to obtain a water sample. Insert the bailers bottom empting device and use to fill the appropriate sample bottle.
- Reattach string/rope to well plug, replace bailer and sock into well and cap with well plug. Replace well cover. Replace socks as needed.
- Secure cover on 55-gasllon drum.

Not all methods summarized on this information sheet are conducted at all sites. Special conditions may also occur which require modifications to these methods. Any descriptions of field methods within the report text take precedence.

Appendix C

Soil Boring Logs and Monitoring Well Construction and Development Forms

AMERICAN ENGINEERING TESTING, INC.

SUBSURFACE BORING LOG

AET JOB NO: **03-05510** LOG OF BORING NO. **MW-11 (p. 1 of 1)**

PROJECT: **Dairi Concepts Site; W888 Chili Road; Chili, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: ____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS WC	DEN	LL	PL	PID (ppm)
0	Sandy LEAN CLAY with organics, dark brown, moist (OL)	TOPSOIL									
1	Sandy LEAN CLAY, reddish brown, moist, very loose to loose (CL)	MIXED ALLUVIUM	5	M	SS	14					<1
3			4	M	SS	14					<1
5			10	M	SS	19					<1
8			8	M	SS	20					<1
10	Weathered sandstone	WEATHERED SANDSTONE	21	M	SS	20					<1
13			21	M	SS	14					<1
14	Sandstone	SANDSTONE									
15			57/.9	M	SS	12					<1
18	Sample taken from auger cuttings										25
19				▼							
20	*End of boring at 20.0 feet - Boring converted to monitoring well*										

DEPTH: DRILLING METHOD	WATER LEVEL MEASUREMENTS						
	DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL
0-20.0' 4.25" HSA	**10/1/18**	**1100**	**N/A**	**20.0**	**20.0**	**None**	**19.5**
BORING COMPLETED: **10/1/18**							
DR: **GM** LG: **MH** Rig: **67**							

NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG

AET_CORP 03-05510 - DAIRI CONCEPTS SITE.GPJ AET+CPT+WELL.GDT 10/4/18

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Dairi Concepts	Local Grid Location of Well ☐ ft. ☐ N. ☐ S. ☐ ft. ☐ E. ☐ W.	Well Name: MW-11
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: WA562 / DNR Well ID No.
Facility ID: 6 1005802	St. Plane ft. N, ft. E. S/C/N	Date Well Installed: 10/01/2018 (m m d d y y y y)
Type of Well / Well Code /	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 23, T. 25 N, R. 1 ☑ E ☐ W	Well Installed By: Name (first, last) and Firm: GM / AET
Distance from Waste/Source ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☑ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

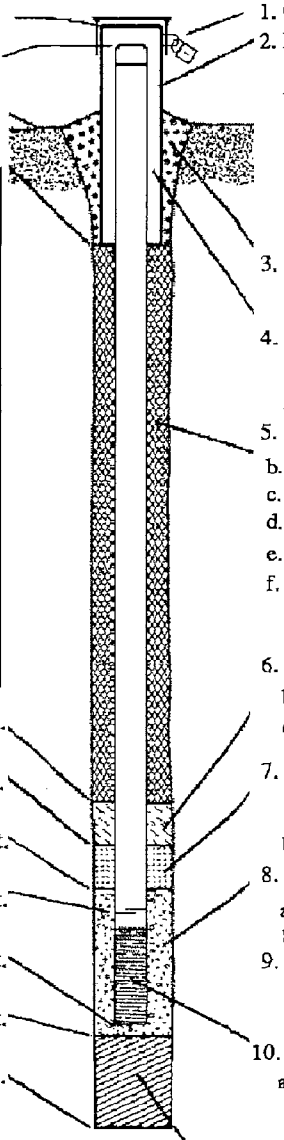
13. Sieve analysis performed? ☐ Yes ☐ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☐ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☐ No
Describe _____

17. Source of water (attach analysis, if required):
_____



E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or 7 ft.
G. Filter pack, top _____ ft. MSL or 8 ft.
H. Screen joint, top _____ ft. MSL or 10 ft.
I. Well bottom _____ ft. MSL or 20 ft.
J. Filter pack, bottom _____ ft. MSL or 20 ft.
K. Borehole, bottom _____ ft. MSL or 20 ft.
L. Borehole, diameter 4 1/4 in.
M. O.D. well casing 2.35 in.
N. I.D. well casing 2.02 in.

1. Cap and lock? ☑ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: Stnd pipe 3 in.
b. Length: 5 ft.
c. Material: Steel ☒ 04 / Other ☐ ___
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ ___
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ ___
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ ___
7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint 45-55
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint 30
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☑ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ___
10. Screen material: _____
a. Screen type: Factory cut ☐ 11 / Continuous slot ☐ 01 / Other ☐ ___
b. Manufacturer PVC
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None ☑ 14 / Other ☐ ___

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: AET

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Dairi Concepts	Clark	MW-11
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	10	WA562	___

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 45 min.

4. Depth of well (from top of well casisng) 20.0 ft.

5. Inside diameter of well 2.02 in.

6. Volume of water in filter pack and well casing ____.__ gal.

7. Volume of water removed from well 20.0 gal.

8. Volume of water added (if any) 0.__ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing) a.	16.73 ft.	17.09 ft.
Date b. (mm dd yyyy)	10/03/2018	10/03/2018
Time c.	10:00 ☒ a.m. ☐ p.m.	10:45 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	1.0 inches	0.1 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☒ 20 Turbid ☐ 25
(Describe)		

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: M. Last Name: Neal
Firm: AET

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Stacy Last Name: Doing
Facility/Firm: DFA
Street: W888 Chili Road
City/State/Zip: Chili, WI 54420

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Michael K. Neal
Firm: AET

NOTE: See instructions for more information including a list of county codes and well type codes.

AMERICAN ENGINEERING TESTING, INC.

SUBSURFACE BORING LOG

AET JOB NO: **03-05510** LOG OF BORING NO. **MW-12 (p. 1 of 1)**

PROJECT: **Dairi Concepts Site; W888 Chili Road; Chili, Wisconsin**

DEPTH IN FEET	SURFACE ELEVATION: ____ MATERIAL DESCRIPTION	GEOLOGY	N	MC	SAMPLE TYPE	REC IN.	FIELD & LABORATORY TESTS WC	DEN	LL	PL	PID (ppm)
0	Sandy LEAN CLAY with organics, dark brown, moist (OL)	TOPSOIL									
1	Sandy LEAN CLAY, reddish brown, moist (CL)	MIXED ALLUVIUM									<1
2											
3											<1
4											
5											
6											<1
7											
8											<1
9											
10	Weathered sandstone	WEATHERED SANDSTONE									
11											<1
12											
13											<1
14	Sandstone	SANDSTONE									
15											
16											<1
17											
18											25
19				▼							
20	*End of boring at 20.0 feet - Boring converted to monitoring well*										

DEPTH: DRILLING METHOD	WATER LEVEL MEASUREMENTS						
	DATE	TIME	SAMPLED DEPTH	CASING DEPTH	CAVE-IN DEPTH	DRILLING FLUID LEVEL	WATER LEVEL
0-20.0' 4.25" HSA	**10/1/18**	**1300**	**N/A**	**20.0**	**20.0**	**None**	**19.5**
BORING COMPLETED: **10/1/18**							
DR: **GM** LG: **MH** Rig: **67**							

NOTE: REFER TO THE ATTACHED SHEETS FOR AN EXPLANATION OF TERMINOLOGY ON THIS LOG

AET_CORP 03-05510 - DAIRI CONCEPTS SITE.GPJ AET+CPT+WELL.GDT 10/4/18

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Dairi Concepts	Local Grid Location of Well ☐ N. ☐ S. _____ ft. ☐ E. ☐ W. _____ ft.	Well Name: MW-12
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: WA363 / DNR Well ID No.
Facility ID: 61005802	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 10/01/2018 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: SW 1/4 of SW 1/4 of Sec. 23 T. 25 N, R. 1 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: CM / AET
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☐ No

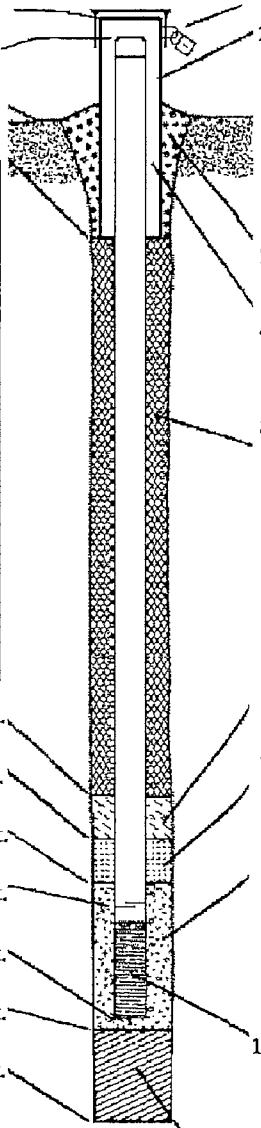
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☐ 41 / Other ☐ ____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☐ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or 7 ft.
G. Filter pack, top _____ ft. MSL or 8 ft.
H. Screen joint, top _____ ft. MSL or 10 ft.
I. Well bottom _____ ft. MSL or 20 ft.
J. Filter pack, bottom _____ ft. MSL or 20 ft.
K. Borehole, bottom _____ ft. MSL or 20 ft.
L. Borehole, diameter 4 1/4 in.
M. O.D. well casing 2.35 in.
N. I.D. well casing 2.02 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: Standpipe 3 in.
b. Length: 5 ft.
c. Material: Steel ☒ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ ____
5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. Red Flint 45-55
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. Red Flint 30
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____
10. Screen material: _____
a. Screen type: Factory cut ☐ 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer PVC
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: AET

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
Dairi Concepts	Clark	MW-12
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**DNR Well ID Number**
	10	WA563	___

1. Can this well be purged dry? ☐ Yes ☒ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 45 min.

4. Depth of well (from top of well casisng) 20.0 ft.

5. Inside diameter of well 2.02 in.

6. Volume of water in filter pack and well casing ____.__ gal.

7. Volume of water removed from well 20.0 gal.

8. Volume of water added (if any) 0.__ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 16.78 ft.	17.05 ft.
Date	b. 10/03/2018 (m m d d y y y y)	10/03/2018 (m m d d y y y y)
Time	c. 11:15 ☒ a.m. ☐ p.m.	12:00 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	1.0 inches	0.1 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____.__ mg/l	____.__ mg/l
15. COD	____.__ mg/l	____.__ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: M. Last Name: Neal
Firm: AET

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Stacy Last Name: Doing
Facility/Firm: DFA
Street: W888 Chili Road
City/State/Zip: Chili, WI 54420

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Michael K. Neal
Firm: AET

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ **Verification Only of Fill and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Clark	PP805	

Latitude / Longitude (see instructions) _____ N _____ W | Format Code: ☐ DD ☐ DDM | Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼ or Gov't Lot #	¼	Section	Township	Range
NW	SW	26	25 N	1 ☒ E ☐ W

Well Street Address

Well City, Village or Town	Well ZIP Code
Chili - Fremont	54420

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Site closed	

2. Facility / Owner Information

Facility Name: Chili Contaminant Investigation

Facility ID (FID or PWS): 02-10-517968

License/Permit/Monitoring #: MW-1

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner	State	ZIP Code
Chili	WI	54420

3. Filled & Sealed Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01-18-2005

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type:
☒ Unconsolidated Formation ☒ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
23	2
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)
	12.34

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☒ Yes	☐ No	☐ N/A
Liner(s) perforated?	☐ Yes	☒ No	☐ N/A
Screen removed?	☒ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☒ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☒ No	☐ N/A
Did sealing material rise to surface?	☐ Yes	☒ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☒ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	23	1 Bag.	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
AET		10-1-18

Street or Route	Telephone Number
1837 CTH 00	(715) 8615045

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Chippewa Falls	WI	54729	AET	10-3-18

DNR Use Only

Date Received	Noted By

Comments

Appendix D

Laboratory Reports and Chains of Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

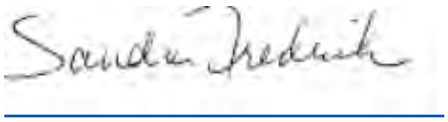
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-152758-1
Client Project/Site: Dairi Concepts - 03-05510

For:
American Engineering Testing Inc.
1837 Cty Hwy OO
Chippewa Falls, Wisconsin 54729

Attn: Mr. Michael Neal



Authorized for release by:
10/16/2018 1:53:52 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

REVIEWED
By mneal at 2:19 pm, Oct 16, 2018

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Table of Contents

Case Narrative

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Job ID: 500-152758-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-152758-1

Comments
No additional comments.

Receipt
The samples were received on 10/6/2018 11:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

GC/MS VOA
Method(s) 524.2: The low level laboratory control sample (LLCS) for analytical batch 480-439231 recovered outside control limits for the following analytes: Methylene Chloride. These analytes were biased high in the LLCS and were not detected in the associated samples; therefore, the data have been reported. The following sample is impacted: PW-1 (500-152758-10)

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

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

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

Detection Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Client Sample ID: MW-1A — Lab Sample ID: 500-152758-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.78		0.50	0.36	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-3A — Lab Sample ID: 500-152758-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3900		5.0	3.0	ug/L	10		WDNR	Total/NA
1,3,5-Trimethylbenzene	6400		13	7.5	ug/L	25		WDNR	Total/NA
Benzene	1400		5.0	3.6	ug/L	10		WDNR	Total/NA
Ethylbenzene	1000		5.0	3.7	ug/L	10		WDNR	Total/NA
Methyl tert-butyl ether	45		5.0	2.4	ug/L	10		WDNR	Total/NA
Naphthalene	1100		50	24	ug/L	10		WDNR	Total/NA
Toluene	7700		13	8.3	ug/L	25		WDNR	Total/NA
Xylenes, Total	9600		15	5.8	ug/L	10		WDNR	Total/NA

Client Sample ID: MW-4R — Lab Sample ID: 500-152758-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1300		5.0	3.0	ug/L	10		WDNR	Total/NA
1,3,5-Trimethylbenzene	1200		5.0	3.0	ug/L	10		WDNR	Total/NA
Benzene	440		5.0	3.6	ug/L	10		WDNR	Total/NA
Ethylbenzene	1100		5.0	3.7	ug/L	10		WDNR	Total/NA
Methyl tert-butyl ether	87		5.0	2.4	ug/L	10		WDNR	Total/NA
Naphthalene	380		50	24	ug/L	10		WDNR	Total/NA
Toluene	960		5.0	3.3	ug/L	10		WDNR	Total/NA
Xylenes, Total	3700		15	5.8	ug/L	10		WDNR	Total/NA

Client Sample ID: MW-4A — Lab Sample ID: 500-152758-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	36		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	73		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	310		0.50	0.36	ug/L	1		WDNR	Total/NA
Ethylbenzene	80		0.50	0.37	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	29		0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	37		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	11		0.50	0.33	ug/L	1		WDNR	Total/NA
Xylenes, Total	97		1.5	0.58	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-5A — Lab Sample ID: 500-152758-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	860		5.0	3.0	ug/L	10		WDNR	Total/NA
1,3,5-Trimethylbenzene	840		5.0	3.0	ug/L	10		WDNR	Total/NA
Benzene	53		5.0	3.6	ug/L	10		WDNR	Total/NA
Ethylbenzene	350		5.0	3.7	ug/L	10		WDNR	Total/NA
Methyl tert-butyl ether	84		5.0	2.4	ug/L	10		WDNR	Total/NA
Naphthalene	230		50	24	ug/L	10		WDNR	Total/NA
Toluene	84		5.0	3.3	ug/L	10		WDNR	Total/NA
Xylenes, Total	1300		15	5.8	ug/L	10		WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Client Sample ID: MW-7 — Lab Sample ID: 500-152758-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.9		0.50	0.36	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-W — Lab Sample ID: 500-152758-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.96		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	6.6		0.50	0.36	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	0.33	J	0.50	0.24	ug/L	1		WDNR	Total/NA
Xylenes, Total	0.93	J	1.5	0.58	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 500-152758-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1400		5.0	3.0	ug/L	10		WDNR	Total/NA
1,3,5-Trimethylbenzene	1500		5.0	3.0	ug/L	10		WDNR	Total/NA
Benzene	140		5.0	3.6	ug/L	10		WDNR	Total/NA
Ethylbenzene	960		5.0	3.7	ug/L	10		WDNR	Total/NA
Methyl tert-butyl ether	130		5.0	2.4	ug/L	10		WDNR	Total/NA
Naphthalene	510		50	24	ug/L	10		WDNR	Total/NA
Toluene	1100		5.0	3.3	ug/L	10		WDNR	Total/NA
Xylenes, Total	2900		15	5.8	ug/L	10		WDNR	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-152758-9

No Detections.

Client Sample ID: PW-1 — Lab Sample ID: 500-152758-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.73		0.50	0.090	ug/L	1		524.2	Total/NA
1,3,5-Trimethylbenzene	0.40	J	0.50	0.13	ug/L	1		524.2	Total/NA
Acetone	1.1	J	5.0	1.0	ug/L	1		524.2	Total/NA
Chloroform	2.5		0.50	0.14	ug/L	1		524.2	Total/NA
Trihalomethanes, Total	2.5		2.0	1.0	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-152758-1	MW-1A	Water	10/03/18 09:30	10/06/18 11:30
500-152758-2	MW-3A	Water	10/03/18 11:30	10/06/18 11:30
500-152758-3	MW-4R	Water	10/03/18 11:15	10/06/18 11:30
500-152758-4	MW-4A	Water	10/03/18 11:00	10/06/18 11:30
500-152758-5	MW-5A	Water	10/03/18 10:30	10/06/18 11:30
500-152758-6	MW-7	Water	10/03/18 09:00	10/06/18 11:30
500-152758-7	MW-W	Water	10/03/18 10:00	10/06/18 11:30
500-152758-8	MW-10	Water	10/03/18 12:00	10/06/18 11:30
500-152758-9	Trip Blank	Water	10/03/18 00:00	10/06/18 11:30
500-152758-10	PW-1	Water	10/03/18 12:30	10/06/18 11:30

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Client Sample ID: MW-1A
Date Collected: 10/03/18 09:30
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-1
Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/10/18 10:43	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/10/18 10:43	1
Benzene	**0.78**		0.50	0.36	ug/L			10/10/18 10:43	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			10/10/18 10:43	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			10/10/18 10:43	1
Naphthalene	<2.4		5.0	2.4	ug/L			10/10/18 10:43	1
Toluene	<0.33		0.50	0.33	ug/L			10/10/18 10:43	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			10/10/18 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*80 - 120*		*10/10/18 10:43*	*1*

Client Sample ID: MW-3A
Date Collected: 10/03/18 11:30
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-2
Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**3900**		5.0	3.0	ug/L			10/10/18 21:18	10
1,3,5-Trimethylbenzene	**6400**		13	7.5	ug/L			10/10/18 22:20	25
Benzene	**1400**		5.0	3.6	ug/L			10/10/18 21:18	10
Ethylbenzene	**1000**		5.0	3.7	ug/L			10/10/18 21:18	10
Methyl tert-butyl ether	**45**		5.0	2.4	ug/L			10/10/18 21:18	10
Naphthalene	**1100**		50	24	ug/L			10/10/18 21:18	10
Toluene	**7700**		13	8.3	ug/L			10/10/18 22:20	25
Xylenes, Total	**9600**		15	5.8	ug/L			10/10/18 21:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*80 - 120*		*10/10/18 21:18*	*10*
a,a,a-Trifluorotoluene	*82*		*80 - 120*		*10/10/18 22:20*	*25*

Client Sample ID: MW-4R
Date Collected: 10/03/18 11:15
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-3
Matrix: Water

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**1300**		5.0	3.0	ug/L			10/10/18 15:06	10
1,3,5-Trimethylbenzene	**1200**		5.0	3.0	ug/L			10/10/18 15:06	10
Benzene	**440**		5.0	3.6	ug/L			10/10/18 15:06	10
Ethylbenzene	**1100**		5.0	3.7	ug/L			10/10/18 15:06	10
Methyl tert-butyl ether	**87**		5.0	2.4	ug/L			10/10/18 15:06	10
Naphthalene	**380**		50	24	ug/L			10/10/18 15:06	10
Toluene	**960**		5.0	3.3	ug/L			10/10/18 15:06	10
Xylenes, Total	**3700**		15	5.8	ug/L			10/10/18 15:06	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*80 - 120*		*10/10/18 15:06*	*10*

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Client Sample ID: MW-4A

Lab Sample ID: 500-152758-4
Matrix: Water
Date Collected: 10/03/18 11:00
Date Received: 10/06/18 11:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	36		0.50	0.30	ug/L			10/10/18 14:04	1
1,3,5-Trimethylbenzene	73		0.50	0.30	ug/L			10/10/18 14:04	1
Benzene	310		0.50	0.36	ug/L			10/10/18 14:04	1
Ethylbenzene	80		0.50	0.37	ug/L			10/10/18 14:04	1
Methyl tert-butyl ether	29		0.50	0.24	ug/L			10/10/18 14:04	1
Naphthalene	37		5.0	2.4	ug/L			10/10/18 14:04	1
Toluene	11		0.50	0.33	ug/L			10/10/18 14:04	1
Xylenes, Total	97		1.5	0.58	ug/L			10/10/18 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*113*		*80 - 120*		*10/10/18 14:04*	*1*

Client Sample ID: MW-5A

Lab Sample ID: 500-152758-5
Matrix: Water
Date Collected: 10/03/18 10:30
Date Received: 10/06/18 11:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	860		5.0	3.0	ug/L			10/10/18 18:43	10
1,3,5-Trimethylbenzene	840		5.0	3.0	ug/L			10/10/18 18:43	10
Benzene	53		5.0	3.6	ug/L			10/10/18 18:43	10
Ethylbenzene	350		5.0	3.7	ug/L			10/10/18 18:43	10
Methyl tert-butyl ether	84		5.0	2.4	ug/L			10/10/18 18:43	10
Naphthalene	230		50	24	ug/L			10/10/18 18:43	10
Toluene	84		5.0	3.3	ug/L			10/10/18 18:43	10
Xylenes, Total	1300		15	5.8	ug/L			10/10/18 18:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*116*		*80 - 120*		*10/10/18 18:43*	*10*

Client Sample ID: MW-7

Lab Sample ID: 500-152758-6
Matrix: Water
Date Collected: 10/03/18 09:00
Date Received: 10/06/18 11:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/10/18 13:02	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/10/18 13:02	1
Benzene	6.9		0.50	0.36	ug/L			10/10/18 13:02	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			10/10/18 13:02	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			10/10/18 13:02	1
Naphthalene	<2.4		5.0	2.4	ug/L			10/10/18 13:02	1
Toluene	<0.33		0.50	0.33	ug/L			10/10/18 13:02	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			10/10/18 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*92*		*80 - 120*		*10/10/18 13:02*	*1*

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Client Sample ID: MW-W

Lab Sample ID: 500-152758-7
Matrix: Water
Date Collected: 10/03/18 10:00
Date Received: 10/06/18 11:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	0.96		0.50	0.30	ug/L			10/10/18 13:33	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/10/18 13:33	1
Benzene	6.6		0.50	0.36	ug/L			10/10/18 13:33	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			10/10/18 13:33	1
Methyl tert-butyl ether	0.33	J	0.50	0.24	ug/L			10/10/18 13:33	1
Naphthalene	<2.4		5.0	2.4	ug/L			10/10/18 13:33	1
Toluene	<0.33		0.50	0.33	ug/L			10/10/18 13:33	1
Xylenes, Total	0.93	J	1.5	0.58	ug/L			10/10/18 13:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*80 - 120*		*10/10/18 13:33*	*1*

Client Sample ID: MW-10

Lab Sample ID: 500-152758-8
Matrix: Water
Date Collected: 10/03/18 12:00
Date Received: 10/06/18 11:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1400		5.0	3.0	ug/L			10/10/18 23:53	10
1,3,5-Trimethylbenzene	1500		5.0	3.0	ug/L			10/10/18 23:53	10
Benzene	140		5.0	3.6	ug/L			10/10/18 23:53	10
Ethylbenzene	960		5.0	3.7	ug/L			10/10/18 23:53	10
Methyl tert-butyl ether	130		5.0	2.4	ug/L			10/10/18 23:53	10
Naphthalene	510		50	24	ug/L			10/10/18 23:53	10
Toluene	1100		5.0	3.3	ug/L			10/10/18 23:53	10
Xylenes, Total	2900		15	5.8	ug/L			10/10/18 23:53	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*80 - 120*		*10/10/18 23:53*	*10*

Client Sample ID: Trip Blank

Lab Sample ID: 500-152758-9
Matrix: Water
Date Collected: 10/03/18 00:00
Date Received: 10/06/18 11:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/10/18 10:04	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/10/18 10:04	1
Benzene	<0.36		0.50	0.36	ug/L			10/10/18 10:04	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			10/10/18 10:04	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			10/10/18 10:04	1
Naphthalene	<2.4		5.0	2.4	ug/L			10/10/18 10:04	1
Toluene	<0.33		0.50	0.33	ug/L			10/10/18 10:04	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			10/10/18 10:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*80 - 120*		*10/10/18 10:04*	*1*

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Client Sample ID: PW-1
Date Collected: 10/03/18 12:30
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-10
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.14		0.50	0.14	ug/L			10/13/18 05:10	1
1,1,1-Trichloroethane	<0.21		0.50	0.21	ug/L			10/13/18 05:10	1
1,1,2,2-Tetrachloroethane	<0.070		0.50	0.070	ug/L			10/13/18 05:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.17		0.50	0.17	ug/L			10/13/18 05:10	1
1,1,2-Trichloroethane	<0.17		0.50	0.17	ug/L			10/13/18 05:10	1
1,1-Dichloroethane	<0.18		0.50	0.18	ug/L			10/13/18 05:10	1
1,1-Dichloroethene	<0.16		0.50	0.16	ug/L			10/13/18 05:10	1
1,1-Dichloropropene	<0.063		0.50	0.063	ug/L			10/13/18 05:10	1
1,2,3-Trichlorobenzene	<0.16		0.50	0.16	ug/L			10/13/18 05:10	1
1,2,3-Trichloropropane	<0.12		0.50	0.12	ug/L			10/13/18 05:10	1
1,2,4-Trichlorobenzene	<0.13		0.50	0.13	ug/L			10/13/18 05:10	1
1,2,4-Trimethylbenzene	**0.73**		0.50	0.090	ug/L			10/13/18 05:10	1
1,2-Dichlorobenzene	<0.16		0.50	0.16	ug/L			10/13/18 05:10	1
1,2-Dichloroethane	<0.14		0.50	0.14	ug/L			10/13/18 05:10	1
1,2-Dichloropropane	<0.11		0.50	0.11	ug/L			10/13/18 05:10	1
1,3,5-Trimethylbenzene	**0.40**	**J**	0.50	0.13	ug/L			10/13/18 05:10	1
1,3-Dichlorobenzene	<0.13		0.50	0.13	ug/L			10/13/18 05:10	1
1,3-Dichloropropane	<0.15		0.50	0.15	ug/L			10/13/18 05:10	1
1,4-Dichlorobenzene	<0.13		0.50	0.13	ug/L			10/13/18 05:10	1
2,2-Dichloropropane	<0.35		0.50	0.35	ug/L			10/13/18 05:10	1
2-Butanone (MEK)	<1.0		5.0	1.0	ug/L			10/13/18 05:10	1
2-Chlorotoluene	<0.12		0.50	0.12	ug/L			10/13/18 05:10	1
2-Hexanone	<1.0		5.0	1.0	ug/L			10/13/18 05:10	1
4-Chlorotoluene	<0.15		0.50	0.15	ug/L			10/13/18 05:10	1
4-Isopropyltoluene	<0.063		0.50	0.063	ug/L			10/13/18 05:10	1
4-Methyl-2-pentanone (MIBK)	<1.0		5.0	1.0	ug/L			10/13/18 05:10	1
Acetone	**1.1**	**J**	5.0	1.0	ug/L			10/13/18 05:10	1
Acrylonitrile	<2.2		10	2.2	ug/L			10/13/18 05:10	1
Allyl chloride	<0.22		0.50	0.22	ug/L			10/13/18 05:10	1
Benzene	<0.13		0.50	0.13	ug/L			10/13/18 05:10	1
Bromobenzene	<0.13		0.50	0.13	ug/L			10/13/18 05:10	1
Bromochloromethane	<0.11		0.50	0.11	ug/L			10/13/18 05:10	1
Bromoform	<0.13		0.50	0.13	ug/L			10/13/18 05:10	1
Bromomethane	<0.23		0.50	0.23	ug/L			10/13/18 05:10	1
Carbon disulfide	<0.15		0.50	0.15	ug/L			10/13/18 05:10	1
Carbon tetrachloride	<0.21		0.50	0.21	ug/L			10/13/18 05:10	1
Chlorobenzene	<0.12		0.50	0.12	ug/L			10/13/18 05:10	1
Chlorodibromomethane	<0.16		0.50	0.16	ug/L			10/13/18 05:10	1
Chloroethane	<0.20		0.50	0.20	ug/L			10/13/18 05:10	1
Chloroform	**2.5**		0.50	0.14	ug/L			10/13/18 05:10	1
Chloromethane	<0.17		0.50	0.17	ug/L			10/13/18 05:10	1
cis-1,2-Dichloroethene	<0.12		0.50	0.12	ug/L			10/13/18 05:10	1
cis-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			10/13/18 05:10	1
Dibromomethane	<0.17		0.50	0.17	ug/L			10/13/18 05:10	1
Dichlorobromomethane	<0.14		0.50	0.14	ug/L			10/13/18 05:10	1
Dichlorodifluoromethane	<0.15		0.50	0.15	ug/L			10/13/18 05:10	1
Dichlorofluoromethane	<0.13		0.50	0.13	ug/L			10/13/18 05:10	1
Ethyl ether	<0.12		0.50	0.12	ug/L			10/13/18 05:10	1
Ethylbenzene	<0.11		0.50	0.11	ug/L			10/13/18 05:10	1

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Client Sample ID: PW-1
Date Collected: 10/03/18 12:30
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-10
Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.11		0.50	0.11	ug/L			10/13/18 05:10	1
Iodomethane	<0.15		0.50	0.15	ug/L			10/13/18 05:10	1
Isopropylbenzene	<0.16		0.50	0.16	ug/L			10/13/18 05:10	1
Methyl tert-butyl ether	<0.12		0.50	0.12	ug/L			10/13/18 05:10	1
Methylene Chloride	<0.99	*	2.5	0.99	ug/L			10/13/18 05:10	1
m-Xylene & p-Xylene	<0.30		1.0	0.30	ug/L			10/13/18 05:10	1
Naphthalene	<0.15		0.50	0.15	ug/L			10/13/18 05:10	1
n-Butylbenzene	<0.081		0.50	0.081	ug/L			10/13/18 05:10	1
N-Propylbenzene	<0.13		0.50	0.13	ug/L			10/13/18 05:10	1
o-Xylene	<0.12		0.50	0.12	ug/L			10/13/18 05:10	1
sec-Butylbenzene	<0.068		0.50	0.068	ug/L			10/13/18 05:10	1
Styrene	<0.13		0.50	0.13	ug/L			10/13/18 05:10	1
t-Butanol	<2.5		10	2.5	ug/L			10/13/18 05:10	1
tert-Butylbenzene	<0.060		0.50	0.060	ug/L			10/13/18 05:10	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			10/13/18 05:10	1
Toluene	<0.10		0.50	0.10	ug/L			10/13/18 05:10	1
trans-1,2-Dichloroethene	<0.13		0.50	0.13	ug/L			10/13/18 05:10	1
trans-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			10/13/18 05:10	1
trans-1,4-Dichloro-2-butene	<1.3		2.5	1.3	ug/L			10/13/18 05:10	1
Trichloroethene	<0.18		0.50	0.18	ug/L			10/13/18 05:10	1
Trichlorofluoromethane	<0.19		0.50	0.19	ug/L			10/13/18 05:10	1
Trihalomethanes, Total	**2.5**		2.0	1.0	ug/L			10/13/18 05:10	1
Vinyl acetate	<0.45		2.5	0.45	ug/L			10/13/18 05:10	1
Vinyl chloride	<0.18		0.50	0.18	ug/L			10/13/18 05:10	1
Xylenes, Total	<0.12		1.0	0.12	ug/L			10/13/18 05:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*10/13/18 05:10*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/13/18 05:10*	*1*

Definitions/Glossary

Client: American Engineering Testing Inc. TestAmerica Job ID: 500-152758-1
Project/Site: Dairi Concepts - 03-05510

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

GC VOA

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

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 Association Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

GC/MS VOA

Analysis Batch: 439231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-152758-10	PW-1	Total/NA	Water	524.2	
MB 480-439231/6	Method Blank	Total/NA	Water	524.2	
LCS 480-439231/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-439231/8	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-439231/5	Lab Control Sample	Total/NA	Water	524.2	

GC VOA

Analysis Batch: 548867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-152758-1	MW-1A	Total/NA	Water	WDNR	
500-152758-2	MW-3A	Total/NA	Water	WDNR	
500-152758-2	MW-3A	Total/NA	Water	WDNR	
500-152758-3	MW-4R	Total/NA	Water	WDNR	
500-152758-4	MW-4A	Total/NA	Water	WDNR	
500-152758-5	MW-5A	Total/NA	Water	WDNR	
500-152758-6	MW-7	Total/NA	Water	WDNR	
500-152758-7	MW-W	Total/NA	Water	WDNR	
500-152758-8	MW-10	Total/NA	Water	WDNR	
500-152758-9	Trip Blank	Total/NA	Water	WDNR	
MB 490-548867/5	Method Blank	Total/NA	Water	WDNR	
LCS 490-548867/4	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-548867/37	Lab Control Sample Dup	Total/NA	Water	WDNR	
500-152758-1 MS	MW-1A	Total/NA	Water	WDNR	
500-152758-1 MSD	MW-1A	Total/NA	Water	WDNR	

Surrogate Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCZ	BFB
Lab Sample ID	Client Sample ID	(80-120)	(80-120)
500-152758-10	PW-1	105	94
LCS 480-439231/3	Lab Control Sample	101	99
LCSD 480-439231/8	Lab Control Sample Dup	101	98
LLCS 480-439231/5	Lab Control Sample	102	97
MB 480-439231/6	Method Blank	103	94

Surrogate Legend

DCZ = 1,2-Dichlorobenzene-d4

BFB = 4-Bromofluorobenzene (Surr)

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		TFT
Lab Sample ID	Client Sample ID	(80-120)
500-152758-1	MW-1A	93
500-152758-1 MS	MW-1A	97
500-152758-1 MSD	MW-1A	94
500-152758-2	MW-3A	97
500-152758-2	MW-3A	82
500-152758-3	MW-4R	95
500-152758-4	MW-4A	113
500-152758-5	MW-5A	116
500-152758-6	MW-7	92
500-152758-7	MW-W	95
500-152758-8	MW-10	97
500-152758-9	Trip Blank	94
LCS 490-548867/4	Lab Control Sample	93
LCSD 490-548867/37	Lab Control Sample Dup	94
MB 490-548867/5	Method Blank	96

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-439231/6
Matrix: Water
Analysis Batch: 439231

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.14		0.50	0.14	ug/L			10/12/18 20:40	1
1,1,1-Trichloroethane	<0.21		0.50	0.21	ug/L			10/12/18 20:40	1
1,1,2,2-Tetrachloroethane	<0.070		0.50	0.070	ug/L			10/12/18 20:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.17		0.50	0.17	ug/L			10/12/18 20:40	1
1,1,2-Trichloroethane	<0.17		0.50	0.17	ug/L			10/12/18 20:40	1
1,1-Dichloroethane	<0.18		0.50	0.18	ug/L			10/12/18 20:40	1
1,1-Dichloroethene	<0.16		0.50	0.16	ug/L			10/12/18 20:40	1
1,1-Dichloropropene	<0.063		0.50	0.063	ug/L			10/12/18 20:40	1
1,2,3-Trichlorobenzene	<0.16		0.50	0.16	ug/L			10/12/18 20:40	1
1,2,3-Trichloropropane	<0.12		0.50	0.12	ug/L			10/12/18 20:40	1
1,2,4-Trichlorobenzene	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
1,2,4-Trimethylbenzene	<0.090		0.50	0.090	ug/L			10/12/18 20:40	1
1,2-Dichlorobenzene	<0.16		0.50	0.16	ug/L			10/12/18 20:40	1
1,2-Dichloroethane	<0.14		0.50	0.14	ug/L			10/12/18 20:40	1
1,2-Dichloropropane	<0.11		0.50	0.11	ug/L			10/12/18 20:40	1
1,3,5-Trimethylbenzene	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
1,3-Dichlorobenzene	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
1,3-Dichloropropane	<0.15		0.50	0.15	ug/L			10/12/18 20:40	1
1,4-Dichlorobenzene	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
2,2-Dichloropropane	<0.35		0.50	0.35	ug/L			10/12/18 20:40	1
2-Butanone (MEK)	<1.0		5.0	1.0	ug/L			10/12/18 20:40	1
2-Chlorotoluene	<0.12		0.50	0.12	ug/L			10/12/18 20:40	1
2-Hexanone	<1.0		5.0	1.0	ug/L			10/12/18 20:40	1
4-Chlorotoluene	<0.15		0.50	0.15	ug/L			10/12/18 20:40	1
4-Isopropyltoluene	<0.063		0.50	0.063	ug/L			10/12/18 20:40	1
4-Methyl-2-pentanone (MIBK)	<1.0		5.0	1.0	ug/L			10/12/18 20:40	1
Acetone	<1.0		5.0	1.0	ug/L			10/12/18 20:40	1
Acrylonitrile	<2.2		10	2.2	ug/L			10/12/18 20:40	1
Allyl chloride	<0.22		0.50	0.22	ug/L			10/12/18 20:40	1
Benzene	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
Bromobenzene	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
Bromochloromethane	<0.11		0.50	0.11	ug/L			10/12/18 20:40	1
Bromoform	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
Bromomethane	<0.23		0.50	0.23	ug/L			10/12/18 20:40	1
Carbon disulfide	<0.15		0.50	0.15	ug/L			10/12/18 20:40	1
Carbon tetrachloride	<0.21		0.50	0.21	ug/L			10/12/18 20:40	1
Chlorobenzene	<0.12		0.50	0.12	ug/L			10/12/18 20:40	1
Chlorodibromomethane	<0.16		0.50	0.16	ug/L			10/12/18 20:40	1
Chloroethane	<0.20		0.50	0.20	ug/L			10/12/18 20:40	1
Chloroform	<0.14		0.50	0.14	ug/L			10/12/18 20:40	1
Chloromethane	<0.17		0.50	0.17	ug/L			10/12/18 20:40	1
cis-1,2-Dichloroethene	<0.12		0.50	0.12	ug/L			10/12/18 20:40	1
cis-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			10/12/18 20:40	1
Dibromomethane	<0.17		0.50	0.17	ug/L			10/12/18 20:40	1
Dichlorobromomethane	<0.14		0.50	0.14	ug/L			10/12/18 20:40	1
Dichlorodifluoromethane	<0.15		0.50	0.15	ug/L			10/12/18 20:40	1
Dichlorofluoromethane	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
Ethyl ether	<0.12		0.50	0.12	ug/L			10/12/18 20:40	1

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-439231/6
Matrix: Water
Analysis Batch: 439231

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.11		0.50	0.11	ug/L			10/12/18 20:40	1
Hexachlorobutadiene	<0.11		0.50	0.11	ug/L			10/12/18 20:40	1
Iodomethane	<0.15		0.50	0.15	ug/L			10/12/18 20:40	1
Isopropylbenzene	<0.16		0.50	0.16	ug/L			10/12/18 20:40	1
Methyl tert-butyl ether	<0.12		0.50	0.12	ug/L			10/12/18 20:40	1
Methylene Chloride	<0.99		2.5	0.99	ug/L			10/12/18 20:40	1
m-Xylene & p-Xylene	<0.30		1.0	0.30	ug/L			10/12/18 20:40	1
Naphthalene	<0.15		0.50	0.15	ug/L			10/12/18 20:40	1
n-Butylbenzene	<0.081		0.50	0.081	ug/L			10/12/18 20:40	1
N-Propylbenzene	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
o-Xylene	<0.12		0.50	0.12	ug/L			10/12/18 20:40	1
sec-Butylbenzene	<0.068		0.50	0.068	ug/L			10/12/18 20:40	1
Styrene	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
t-Butanol	<2.5		10	2.5	ug/L			10/12/18 20:40	1
tert-Butylbenzene	<0.060		0.50	0.060	ug/L			10/12/18 20:40	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			10/12/18 20:40	1
Toluene	<0.10		0.50	0.10	ug/L			10/12/18 20:40	1
trans-1,2-Dichloroethene	<0.13		0.50	0.13	ug/L			10/12/18 20:40	1
trans-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			10/12/18 20:40	1
trans-1,4-Dichloro-2-butene	<1.3		2.5	1.3	ug/L			10/12/18 20:40	1
Trichloroethene	<0.18		0.50	0.18	ug/L			10/12/18 20:40	1
Trichlorofluoromethane	<0.19		0.50	0.19	ug/L			10/12/18 20:40	1
Trihalomethanes, Total	<1.0		2.0	1.0	ug/L			10/12/18 20:40	1
Vinyl acetate	<0.45		2.5	0.45	ug/L			10/12/18 20:40	1
Vinyl chloride	<0.18		0.50	0.18	ug/L			10/12/18 20:40	1
Xylenes, Total	<0.12		1.0	0.12	ug/L			10/12/18 20:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*10/12/18 20:40*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/12/18 20:40*	*1*

Lab Sample ID: LCS 480-439231/3
Matrix: Water
Analysis Batch: 439231

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	4.33		ug/L		108	70 - 130
1,1,1-Trichloroethane	4.00	3.90		ug/L		98	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.93		ug/L		98	70 - 130
1,1,2-Trichloroethane	4.00	4.02		ug/L		101	70 - 130
1,1-Dichloroethane	4.00	3.51		ug/L		88	70 - 130
1,1-Dichloroethene	4.00	3.76		ug/L		94	70 - 130
1,1-Dichloropropene	4.00	3.66		ug/L		91	70 - 130
1,2,3-Trichlorobenzene	4.00	3.88		ug/L		97	70 - 130
1,2,3-Trichloropropane	4.00	3.86		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	4.00	3.77		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	4.00	3.76		ug/L		94	70 - 130
1,2-Dichlorobenzene	4.00	3.91		ug/L		98	70 - 130

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-439231/3
Matrix: Water
Analysis Batch: 439231

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	4.00	3.76		ug/L		94	70 - 130
1,2-Dichloropropane	4.00	4.03		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	4.00	3.85		ug/L		96	70 - 130
1,3-Dichlorobenzene	4.00	3.88		ug/L		97	70 - 130
1,3-Dichloropropane	4.00	3.80		ug/L		95	70 - 130
1,4-Dichlorobenzene	4.00	3.87		ug/L		97	70 - 130
2,2-Dichloropropane	4.00	3.80		ug/L		95	70 - 130
2-Butanone (MEK)	20.0	20.0		ug/L		100	70 - 130
2-Chlorotoluene	4.00	3.85		ug/L		96	70 - 130
2-Hexanone	20.0	20.2		ug/L		101	70 - 130
4-Chlorotoluene	4.00	3.73		ug/L		93	70 - 130
4-Isopropyltoluene	4.00	3.76		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	19.3		ug/L		97	70 - 130
Acetone	20.0	23.9		ug/L		119	70 - 130
Benzene	4.00	3.73		ug/L		93	70 - 130
Bromobenzene	4.00	3.75		ug/L		94	70 - 130
Bromochloromethane	4.00	3.80		ug/L		95	70 - 130
Bromoform	4.00	3.26		ug/L		82	70 - 130
Bromomethane	4.00	3.69		ug/L		92	70 - 130
Carbon disulfide	4.00	3.46		ug/L		86	70 - 130
Carbon tetrachloride	4.00	4.26		ug/L		107	70 - 130
Chlorobenzene	4.00	3.87		ug/L		97	70 - 130
Chlorodibromomethane	4.00	4.31		ug/L		108	70 - 130
Chloroethane	4.00	3.67		ug/L		92	70 - 130
Chloroform	4.00	3.74		ug/L		93	70 - 130
Chloromethane	4.00	3.49		ug/L		87	70 - 130
cis-1,2-Dichloroethene	4.00	3.75		ug/L		94	70 - 130
cis-1,3-Dichloropropene	4.00	3.97		ug/L		99	70 - 130
Dibromomethane	4.00	3.77		ug/L		94	70 - 130
Dichlorobromomethane	4.00	4.15		ug/L		104	70 - 130
Dichlorodifluoromethane	4.00	3.01		ug/L		75	70 - 130
Ethylbenzene	4.00	3.77		ug/L		94	70 - 130
Hexachlorobutadiene	4.00	3.86		ug/L		97	70 - 130
Isopropylbenzene	4.00	3.74		ug/L		94	70 - 130
Methyl tert-butyl ether	4.00	3.67		ug/L		92	70 - 130
Methylene Chloride	4.00	4.34		ug/L		108	70 - 130
Naphthalene	4.00	3.61		ug/L		90	70 - 130
n-Butylbenzene	4.00	3.71		ug/L		93	70 - 130
N-Propylbenzene	4.00	3.80		ug/L		95	70 - 130
sec-Butylbenzene	4.00	3.72		ug/L		93	70 - 130
Styrene	4.00	3.63		ug/L		91	70 - 130
tert-Butylbenzene	4.00	3.75		ug/L		94	70 - 130
Tetrachloroethene	4.00	3.81		ug/L		95	70 - 130
Toluene	4.00	3.82		ug/L		96	70 - 130
trans-1,2-Dichloroethene	4.00	3.84		ug/L		96	70 - 130
trans-1,3-Dichloropropene	4.00	3.82		ug/L		96	70 - 130
Trichloroethene	4.00	3.83		ug/L		96	70 - 130
Trichlorofluoromethane	4.00	3.74		ug/L		94	70 - 130

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-439231/3
Matrix: Water
Analysis Batch: 439231

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	4.00	3.47		ug/L		87	70 - 130
Xylenes, Total	8.00	7.46		ug/L		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: LCSD 480-439231/8
Matrix: Water
Analysis Batch: 439231

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	4.00	4.11		ug/L		103	70 - 130	5	20
1,1,1-Trichloroethane	4.00	3.68		ug/L		92	70 - 130	6	20
1,1,2,2-Tetrachloroethane	4.00	3.88		ug/L		97	70 - 130	1	20
1,1,2-Trichloroethane	4.00	3.92		ug/L		98	70 - 130	3	20
1,1-Dichloroethane	4.00	3.61		ug/L		90	70 - 130	3	20
1,1-Dichloroethene	4.00	3.43		ug/L		86	70 - 130	9	20
1,1-Dichloropropene	4.00	3.43		ug/L		86	70 - 130	6	20
1,2,3-Trichlorobenzene	4.00	3.65		ug/L		91	70 - 130	6	20
1,2,3-Trichloropropane	4.00	3.96		ug/L		99	70 - 130	3	20
1,2,4-Trichlorobenzene	4.00	3.55		ug/L		89	70 - 130	6	20
1,2,4-Trimethylbenzene	4.00	3.49		ug/L		87	70 - 130	7	20
1,2-Dichlorobenzene	4.00	3.70		ug/L		92	70 - 130	6	20
1,2-Dichloroethane	4.00	3.75		ug/L		94	70 - 130	0	20
1,2-Dichloropropane	4.00	3.81		ug/L		95	70 - 130	6	20
1,3,5-Trimethylbenzene	4.00	3.52		ug/L		88	70 - 130	9	20
1,3-Dichlorobenzene	4.00	3.66		ug/L		91	70 - 130	6	20
1,3-Dichloropropane	4.00	3.73		ug/L		93	70 - 130	2	20
1,4-Dichlorobenzene	4.00	3.66		ug/L		92	70 - 130	6	20
2,2-Dichloropropane	4.00	3.68		ug/L		92	70 - 130	3	20
2-Butanone (MEK)	20.0	20.5		ug/L		103	70 - 130	3	20
2-Chlorotoluene	4.00	3.53		ug/L		88	70 - 130	8	20
2-Hexanone	20.0	20.6		ug/L		103	70 - 130	2	20
4-Chlorotoluene	4.00	3.58		ug/L		90	70 - 130	4	20
4-Isopropyltoluene	4.00	3.52		ug/L		88	70 - 130	6	20
4-Methyl-2-pentanone (MIBK)	20.0	19.4		ug/L		97	70 - 130	0	20
Acetone	20.0	23.7		ug/L		118	70 - 130	1	20
Benzene	4.00	3.57		ug/L		89	70 - 130	4	20
Bromobenzene	4.00	3.57		ug/L		89	70 - 130	5	20
Bromochloromethane	4.00	3.81		ug/L		95	70 - 130	0	20
Bromoform	4.00	3.40		ug/L		85	70 - 130	4	20
Bromomethane	4.00	3.69		ug/L		92	70 - 130	0	20
Carbon disulfide	4.00	3.26		ug/L		82	70 - 130	6	20
Carbon tetrachloride	4.00	4.09		ug/L		102	70 - 130	4	20
Chlorobenzene	4.00	3.69		ug/L		92	70 - 130	5	20
Chlorodibromomethane	4.00	4.24		ug/L		106	70 - 130	2	20
Chloroethane	4.00	3.63		ug/L		91	70 - 130	1	20

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-439231/8
Matrix: Water
Analysis Batch: 439231

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform			4.00	3.59		ug/L		90	70 - 130	4	20
Chloromethane			4.00	3.49		ug/L		87	70 - 130	0	20
cis-1,2-Dichloroethene			4.00	3.58		ug/L		90	70 - 130	5	20
cis-1,3-Dichloropropene			4.00	3.86		ug/L		97	70 - 130	3	20
Dibromomethane			4.00	3.60		ug/L		90	70 - 130	5	20
Dichlorobromomethane			4.00	3.86		ug/L		97	70 - 130	7	20
Dichlorodifluoromethane			4.00	3.06		ug/L		77	70 - 130	2	20
Ethylbenzene			4.00	3.44		ug/L		86	70 - 130	9	20
Hexachlorobutadiene			4.00	3.63		ug/L		91	70 - 130	6	20
Isopropylbenzene			4.00	3.51		ug/L		88	70 - 130	6	20
Methyl tert-butyl ether			4.00	3.60		ug/L		90	70 - 130	2	20
Methylene Chloride			4.00	4.34		ug/L		108	70 - 130	0	20
Naphthalene			4.00	3.53		ug/L		88	70 - 130	2	20
n-Butylbenzene			4.00	3.40		ug/L		85	70 - 130	9	20
N-Propylbenzene			4.00	3.52		ug/L		88	70 - 130	8	20
sec-Butylbenzene			4.00	3.41		ug/L		85	70 - 130	9	20
Styrene			4.00	3.49		ug/L		87	70 - 130	4	20
tert-Butylbenzene			4.00	3.43		ug/L		86	70 - 130	9	20
Tetrachloroethene			4.00	3.62		ug/L		90	70 - 130	5	20
Toluene			4.00	3.59		ug/L		90	70 - 130	6	20
trans-1,2-Dichloroethene			4.00	3.61		ug/L		90	70 - 130	6	20
trans-1,3-Dichloropropene			4.00	3.74		ug/L		93	70 - 130	2	20
Trichloroethene			4.00	3.53		ug/L		88	70 - 130	8	20
Trichlorofluoromethane			4.00	3.68		ug/L		92	70 - 130	2	20
Vinyl chloride			4.00	3.38		ug/L		84	70 - 130	3	20
Xylenes, Total			8.00	7.01		ug/L		88	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: LLCS 480-439231/5
Matrix: Water
Analysis Batch: 439231

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane			0.500	0.478	J	ug/L		96	50 - 150
1,1,1-Trichloroethane			0.500	0.428	J	ug/L		86	50 - 150
1,1,2,2-Tetrachloroethane			0.500	0.447	J	ug/L		89	50 - 150
1,1,2-Trichloroethane			0.500	0.416	J	ug/L		83	50 - 150
1,1-Dichloroethane			0.500	0.450	J	ug/L		90	50 - 150
1,1-Dichloroethene			0.500	0.405	J	ug/L		81	50 - 150
1,1-Dichloropropene			0.500	0.414	J	ug/L		83	50 - 150
1,2,3-Trichlorobenzene			0.500	0.419	J	ug/L		84	50 - 150
1,2,3-Trichloropropane			0.500	0.459	J	ug/L		92	50 - 150
1,2,4-Trichlorobenzene			0.500	0.416	J	ug/L		83	50 - 150
1,2,4-Trimethylbenzene			0.500	0.383	J	ug/L		77	50 - 150
1,2-Dichlorobenzene			0.500	0.427	J	ug/L		85	50 - 150

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-439231/5
Matrix: Water
Analysis Batch: 439231

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.500	0.443	J	ug/L		89	50 - 150
1,2-Dichloropropane	0.500	0.450	J	ug/L		90	50 - 150
1,3,5-Trimethylbenzene	0.500	0.381	J	ug/L		76	50 - 150
1,3-Dichlorobenzene	0.500	0.455	J	ug/L		91	50 - 150
1,3-Dichloropropane	0.500	0.422	J	ug/L		84	50 - 150
1,4-Dichlorobenzene	0.500	0.435	J	ug/L		87	50 - 150
2,2-Dichloropropane	0.500	0.721		ug/L		144	50 - 150
2-Butanone (MEK)	2.50	2.32	J	ug/L		93	50 - 150
2-Chlorotoluene	0.500	0.414	J	ug/L		83	50 - 150
2-Hexanone	2.50	2.16	J	ug/L		86	50 - 150
4-Chlorotoluene	0.500	0.414	J	ug/L		83	50 - 150
4-Isopropyltoluene	0.500	0.372	J	ug/L		74	50 - 150
4-Methyl-2-pentanone (MIBK)	2.50	2.10	J	ug/L		84	50 - 150
Acetone	2.50	2.92	J	ug/L		117	50 - 150
Benzene	0.500	0.425	J	ug/L		85	50 - 150
Bromobenzene	0.500	0.441	J	ug/L		88	50 - 150
Bromochloromethane	0.500	0.425	J	ug/L		85	50 - 150
Bromoform	0.500	0.341	J	ug/L		68	50 - 150
Bromomethane	0.500	0.446	J	ug/L		89	50 - 150
Carbon disulfide	0.500	0.368	J	ug/L		74	50 - 150
Carbon tetrachloride	0.500	0.454	J	ug/L		91	50 - 150
Chlorobenzene	0.500	0.429	J	ug/L		86	50 - 150
Chlorodibromomethane	0.500	0.423	J	ug/L		85	50 - 150
Chloroethane	0.500	0.477	J	ug/L		95	50 - 150
Chloroform	0.500	0.457	J	ug/L		91	50 - 150
Chloromethane	0.500	0.472	J	ug/L		94	50 - 150
cis-1,2-Dichloroethene	0.500	0.448	J	ug/L		90	50 - 150
cis-1,3-Dichloropropene	0.500	0.398	J	ug/L		80	50 - 150
Dibromomethane	0.500	0.397	J	ug/L		79	50 - 150
Dichlorobromomethane	0.500	0.432	J	ug/L		86	50 - 150
Dichlorodifluoromethane	0.500	0.338	J	ug/L		68	50 - 150
Ethylbenzene	0.500	0.393	J	ug/L		79	50 - 150
Hexachlorobutadiene	0.500	0.426	J	ug/L		85	50 - 150
Isopropylbenzene	0.500	0.385	J	ug/L		77	50 - 150
Methyl tert-butyl ether	0.500	0.426	J	ug/L		85	50 - 150
Methylene Chloride	0.500	1.00	J *	ug/L		200	50 - 150
Naphthalene	0.500	0.383	J	ug/L		77	50 - 150
n-Butylbenzene	0.500	0.372	J	ug/L		74	50 - 150
N-Propylbenzene	0.500	0.392	J	ug/L		78	50 - 150
sec-Butylbenzene	0.500	0.383	J	ug/L		77	50 - 150
Styrene	0.500	0.379	J	ug/L		76	50 - 150
tert-Butylbenzene	0.500	0.381	J	ug/L		76	50 - 150
Tetrachloroethene	0.500	0.418	J	ug/L		84	50 - 150
Toluene	0.500	0.429	J	ug/L		86	50 - 150
trans-1,2-Dichloroethene	0.500	0.454	J	ug/L		91	50 - 150
trans-1,3-Dichloropropene	0.500	0.375	J	ug/L		75	50 - 150
Trichloroethene	0.500	0.438	J	ug/L		88	50 - 150
Trichlorofluoromethane	0.500	0.415	J	ug/L		83	50 - 150

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-439231/5
Matrix: Water
Analysis Batch: 439231

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	0.500	0.432	J	ug/L		86	50 - 150
Xylenes, Total	1.00	0.795	J	ug/L		80	50 - 150

Surrogate	*LLCS %Recovery*	*LLCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-548867/5
Matrix: Water
Analysis Batch: 548867

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/10/18 09:33	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			10/10/18 09:33	1
Benzene	<0.36		0.50	0.36	ug/L			10/10/18 09:33	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			10/10/18 09:33	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			10/10/18 09:33	1
Naphthalene	<2.4		5.0	2.4	ug/L			10/10/18 09:33	1
Toluene	<0.33		0.50	0.33	ug/L			10/10/18 09:33	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			10/10/18 09:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*80 - 120*		*10/10/18 09:33*	*1*

Lab Sample ID: LCS 490-548867/4
Matrix: Water
Analysis Batch: 548867

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	19.8		ug/L		99	60 - 131
1,3,5-Trimethylbenzene	20.0	19.5		ug/L		98	70 - 130
Benzene	20.0	18.4		ug/L		92	69 - 129
Ethylbenzene	20.0	19.6		ug/L		98	70 - 130
Methyl tert-butyl ether	20.0	19.2		ug/L		96	57 - 138
Naphthalene	20.0	18.2		ug/L		91	69 - 133
Toluene	20.0	19.1		ug/L		96	66 - 127
Xylenes, Total	60.0	58.3		ug/L		97	

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*93*		*80 - 120*

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-548867/37
Matrix: Water
Analysis Batch: 548867

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	20.0	19.6		ug/L		98	60 - 131	1	43
1,3,5-Trimethylbenzene	20.0	19.3		ug/L		97	70 - 130	1	20
Benzene	20.0	18.2		ug/L		91	69 - 129	1	33
Ethylbenzene	20.0	19.1		ug/L		96	70 - 130	2	35
Methyl tert-butyl ether	20.0	19.2		ug/L		96	57 - 138	0	40
Naphthalene	20.0	18.0		ug/L		90	69 - 133	1	48
Toluene	20.0	18.9		ug/L		95	66 - 127	1	34
Xylenes, Total	60.0	57.9		ug/L		97		1	

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*94*		*80 - 120*

Lab Sample ID: 500-152758-1 MS
Matrix: Water
Analysis Batch: 548867

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	<0.30		20.0	18.9		ug/L		95	40 - 165
1,3,5-Trimethylbenzene	<0.30		20.0	18.6		ug/L		93	60 - 140
Benzene	0.78		20.0	18.1		ug/L		86	29 - 176
Ethylbenzene	<0.37		20.0	18.7		ug/L		94	30 - 170
Methyl tert-butyl ether	<0.24		20.0	17.5		ug/L		88	23 - 165
Naphthalene	<2.4		20.0	16.0		ug/L		80	10 - 175
Toluene	<0.33		20.0	18.1		ug/L		91	30 - 167
Xylenes, Total	<0.58		60.0	55.5		ug/L		93	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*97*		*80 - 120*

Lab Sample ID: 500-152758-1 MSD
Matrix: Water
Analysis Batch: 548867

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	<0.30		20.0	21.7		ug/L		109	40 - 165	14	43
1,3,5-Trimethylbenzene	<0.30		20.0	21.4		ug/L		107	60 - 140	14	20
Benzene	0.78		20.0	20.8		ug/L		100	29 - 176	14	33
Ethylbenzene	<0.37		20.0	21.7		ug/L		109	30 - 170	15	35
Methyl tert-butyl ether	<0.24		20.0	20.7		ug/L		103	23 - 165	16	40
Naphthalene	<2.4		20.0	19.6		ug/L		98	10 - 175	20	48
Toluene	<0.33		20.0	21.0		ug/L		105	30 - 167	15	34
Xylenes, Total	<0.58		60.0	63.7		ug/L		106		14	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*94*		*80 - 120*

Lab Chronicle

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Client Sample ID: MW-1A
Date Collected: 10/03/18 09:30
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	548867	10/10/18 10:43	S1S	TAL NSH

Client Sample ID: MW-3A
Date Collected: 10/03/18 11:30
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		10	548867	10/10/18 21:18	S1S	TAL NSH
Total/NA	Analysis	WDNR		25	548867	10/10/18 22:20	S1S	TAL NSH

Client Sample ID: MW-4R
Date Collected: 10/03/18 11:15
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		10	548867	10/10/18 15:06	S1S	TAL NSH

Client Sample ID: MW-4A
Date Collected: 10/03/18 11:00
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	548867	10/10/18 14:04	S1S	TAL NSH

Client Sample ID: MW-5A
Date Collected: 10/03/18 10:30
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		10	548867	10/10/18 18:43	S1S	TAL NSH

Client Sample ID: MW-7
Date Collected: 10/03/18 09:00
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152758-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	548867	10/10/18 13:02	S1S	TAL NSH

Lab Chronicle

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152758-1

Client Sample ID: MW-W
Lab Sample ID: 500-152758-7
Date Collected: 10/03/18 10:00
Matrix: Water
Date Received: 10/06/18 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	548867	10/10/18 13:33	S1S	TAL NSH

Client Sample ID: MW-10
Lab Sample ID: 500-152758-8
Date Collected: 10/03/18 12:00
Matrix: Water
Date Received: 10/06/18 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		10	548867	10/10/18 23:53	S1S	TAL NSH

Client Sample ID: Trip Blank
Lab Sample ID: 500-152758-9
Date Collected: 10/03/18 00:00
Matrix: Water
Date Received: 10/06/18 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	548867	10/10/18 10:04	S1S	TAL NSH

Client Sample ID: PW-1
Lab Sample ID: 500-152758-10
Date Collected: 10/03/18 12:30
Matrix: Water
Date Received: 10/06/18 11:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	439231	10/13/18 05:10	LCH	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: American Engineering Testing Inc. TestAmerica Job ID: 500-152758-1
Project/Site: Dairi Concepts - 03-05510

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

Laboratory: TestAmerica Buffalo

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
Arkansas DEQ	State Program	6	88-0686	07-06-19
California	State Program	9	2931	04-01-19
Connecticut	State Program	1	PH-0568	09-30-20
Florida	NELAP	4	E87672	06-30-19
Georgia	State Program	4	10026 (NY)	03-31-19
Georgia	State Program	4	956	03-31-19
Illinois	NELAP	5	200003	09-30-18 *
Iowa	State Program	7	374	03-01-19
Kansas	NELAP	7	E-10187	01-31-19
Kentucky (DW)	State Program	4	90029	12-31-18
Kentucky (UST)	State Program	4	30	03-31-19
Kentucky (WW)	State Program	4	90029	12-31-18
Louisiana	NELAP	6	02031	06-30-19
Maine	State Program	1	NY00044	12-04-18 *
Maryland	State Program	3	294	03-31-19
Massachusetts	State Program	1	M-NY044	06-30-19
Michigan	State Program	5	9937	03-31-19
Minnesota	NELAP	5	036-999-337	12-31-18
New Hampshire	NELAP	1	2337	11-17-18 *
New Jersey	NELAP	2	NY455	06-30-19
New York	NELAP	2	10026	03-31-19
North Dakota	State Program	8	R-176	03-31-19
Oklahoma	State Program	6	9421	08-31-19
Oregon	NELAP	10	NY200003	06-09-19
Pennsylvania	NELAP	3	68-00281	07-31-19
Rhode Island	State Program	1	LAO00328	12-30-18
Tennessee	State Program	4	TN02970	03-31-19
Texas	NELAP	6	T104704412-15-6	07-31-19
USDA	Federal		P330-11-00386	02-06-21
Virginia	NELAP	3	460185	09-14-19
Washington	State Program	10	C784	02-10-19
Wisconsin	State Program	5	998310390	08-31-19

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-19

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-152758

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 1.3

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference# 18174003

Client: AET
Client Project #: 03-05510
Project Name: Dairi Concepts
Project Location/State: Chili, WI
Lab Project #:
Sampler: Michelle Neal
Lab PM: Sandie F

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Preservative								Parameter	Parameter	Comments
							1	1								PVOC + Naphthalene	VOCs 524.2	
1		MW-1A	10-3-18	9:30	3	W	X											
2		MW-3A		11:30	3	W	X											
3		MW-4R		11:15	3	W	X											
4		MW-4A		11:00	3	W	X											
5		MW-5A		10:30	3	W	X											
6		MW-7		9:00	3	W	X											
7		MW-W		10:00	3	W	X											
8		MW-10		12:00	3	W	X											
9		Trip Blnk		—	1	W	X											
16		PW-1		12:30	3	W		X										

500-152758 COC

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days X 15 Days _____ Other
Requested Due Date: _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[illegible]	AET	10-3-18	15:00	Fed X			
				[illegible] Sand	TAME	10/04/18	1130

Lab Courier:
Shipped: FX SATURDAY
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID:GSXA (336) 740-3803
VICKIE LINVILLE
FEDEX EXPRESS
6035 OLD OAK RIDGE ROAD

GREENSBORO, NC 27410
UNITED STATES US

SHIP DATE: 05OCT18
ACTWGT: 20.00 LB
CAD: 107052636/INET4040
DIMS: 24x13x14 IN

BILL RECIPIENT

TO JEFF JAMES
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5200 REF
INV:
PO: DEPT:

552J1/88FB/DCA5

FedEx Express

J1321180815/ur

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 7734 0634 0028

60484
IL-US ORD

X0 JOTA

500-152758 Waybill

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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10/5/2018

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	Carrier Tracking No(s):	COC No: 500-111530.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-152758-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 10/18/2018			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Dairi Concepts - 03-05510	Project #: 50007204			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	524.2_Preserved/ Standard Analyte list	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PW-1 (500-152758-10)	10/3/18	12:30 Central		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/8/18 1600	TA	[signature]	10/09/18 0930	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.6 #1 ICE

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-152758 Chain of Custody

Cooler Received/Opened On 10/9/2018 @ 10:35

Time Samples Removed From Cooler 12:29 Time Samples Placed In Storage 12:36 (2 Hour Window)

1. Tracking # 5121 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960353 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 2.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front / Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ACE

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial) AA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) AA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) AA

I certify that I attached a label with the unique LIMS number to each container (intial) AA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-152758

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	COC No: 500-111533.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin	Page: Page 1 of 1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 10/16/2018		Job #: 500-152758-1
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: Dairi Concepts - 03-05510	Project #: 50007204		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/5030B PVOC+NAP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1A (500-152758-1)	10/3/18	09:30 Central		Water			X	3	
MW-3A (500-152758-2)	10/3/18	11:30 Central		Water			X	3	
MW-4R (500-152758-3)	10/3/18	11:15 Central		Water			X	3	
MW-4A (500-152758-4)	10/3/18	11:00 Central		Water			X	3	
MW-5A (500-152758-5)	10/3/18	10:30 Central		Water			X	3	
MW-7 (500-152758-6)	10/3/18	09:00 Central		Water			X	3	
MW-W (500-152758-7)	10/3/18	10:00 Central		Water			X	3	
MW-10 (500-152758-8)	10/3/18	12:00 Central		Water			X	3	
Trip Blank (500-152758-9)	10/3/18	Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 10/8/18 1600	Company TA	Received by:	Date/Time: 10/09/18 10:35	Company TA-VAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.7		

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: American Engineering Testing Inc. Job Number: 500-152758-1

Login Number: 152758 **List Source: TestAmerica Chicago**
List Number: 1
Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	1.3
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: American Engineering Testing Inc. Job Number: 500-152758-1

Login Number: 152758 **List Source: TestAmerica Buffalo**
List Number: 3 **List Creation: 10/10/18 02:21 PM**
Creator: Hulbert, Michael J

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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	3.6 #1
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

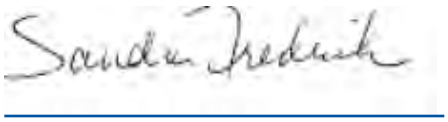
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-152759-1
Client Project/Site: Dairi Concepts - 03-05510

For:
American Engineering Testing Inc.
1837 Cty Hwy OO
Chippewa Falls, Wisconsin 54729

Attn: Mr. Michael Neal



Authorized for release by:
10/18/2018 5:43:52 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

REVIEWED
By mneal at 8:34 am, Oct 19, 2018

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152759-1

Table of Contents

Case Narrative

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152759-1

Job ID: 500-152759-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-152759-1

Comments
No additional comments.

Receipt
The samples were received on 10/6/2018 11:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3º C.

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

Detection Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152759-1

Client Sample ID: MW-11A — Lab Sample ID: 500-152759-1

No Detections.

Client Sample ID: MW-11B — Lab Sample ID: 500-152759-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152759-1

Method	Method Description	Protocol	Laboratory
9060A	Organic Carbon, Total (TOC)	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152759-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-152759-1	MW-11A	Solid	10/01/18 10:00	10/06/18 11:30
500-152759-2	MW-11B	Solid	10/01/18 10:30	10/06/18 11:30

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152759-1

Client Sample ID: MW-11A

Lab Sample ID: 500-152759-1
Matrix: Solid
Date Collected: 10/01/18 10:00
Date Received: 10/06/18 11:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<600		1000	600	mg/Kg			10/17/18 10:59	1

Client Sample ID: MW-11B

Lab Sample ID: 500-152759-2
Matrix: Solid
Date Collected: 10/01/18 10:30
Date Received: 10/06/18 11:30

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<600		1000	600	mg/Kg			10/17/18 10:59	1

Definitions/Glossary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152759-1

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 Association Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152759-1

General Chemistry

Analysis Batch: 550752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-152759-1	MW-11A	Total/NA	Solid	9060A	
500-152759-2	MW-11B	Total/NA	Solid	9060A	
MB 490-550752/3	Method Blank	Total/NA	Solid	9060A	
LCS 490-550752/2	Lab Control Sample	Total/NA	Solid	9060A	
500-152759-2 DU	MW-11B	Total/NA	Solid	9060A	

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152759-1

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 490-550752/3
Matrix: Solid
Analysis Batch: 550752

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	<600		1000	600	mg/Kg			10/17/18 10:59	1

Lab Sample ID: LCS 490-550752/2
Matrix: Solid
Analysis Batch: 550752

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - Duplicates			44000	47400		mg/Kg		108	80 - 120		

Lab Sample ID: 500-152759-2 DU
Matrix: Solid
Analysis Batch: 550752

Client Sample ID: MW-11B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon - Duplicates	<600			<600		mg/Kg				NC	20

Lab Chronicle

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-152759-1

Client Sample ID: MW-11A
Date Collected: 10/01/18 10:00
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152759-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	550752	10/17/18 10:59	VRP	TAL NSH

Client Sample ID: MW-11B
Date Collected: 10/01/18 10:30
Date Received: 10/06/18 11:30

Lab Sample ID: 500-152759-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1	550752	10/17/18 10:59	VRP	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: American Engineering Testing Inc. TestAmerica Job ID: 500-152759-1
Project/Site: Dairi Concepts - 03-05510

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-19

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference# 18174003

Chain of Custody Record

Lab Job #: 500-152759
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 1.3

Client	Client Project #	Preservative	8
AET	03-05510		
Project Name: Dairi Concepts		Parameter	Total Organic Carbon 4.5 NPOC
Project location/State: Chili, WI	Lab Project #		
Sampler: Michael K. Neal	Lab PM: Sandie F		

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix		Comments
1		MW-11A	10-1-18	10:00	1	S	X	
2		MW-11B	10-1-18	10:30	1	S	X	

500-152759 COC

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days X 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Michael	AET			Fedx			
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
				[signature]	TALHE	10/06/18	1130
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped EX SATURDAY
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID:GSXA (336) 740-3803
VICKIE LINVILLE
FEDEX EXPRESS
6035 OLD OAK RIDGE ROAD

GREENSBORO, NC 27410
UNITED STATES US

SHIP DATE: 05OCT18
ACTWGT: 20.00 LB
CAD: 107052636/INET4040
DIMS: 24x13x14 IN

BILL RECIPIENT

TO JEFF JAMES
TEST AMERICA
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5200 REF
INV
PO. DEPT.

552J1/88FB/DCA5

FedEx Express

J182118881501uv

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 7734 0634 0028

60484
ORD
IL-US

X0 JOTA

500-152759 Waybill

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-152759 Chain of Custody

Cooler Received/Opened On 10/9/2018 @ 10:35

Time Samples Removed From Cooler 12:20 Time Samples Placed In Storage 12:36 (2 Hour Window)

1. Tracking # 5121 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960353 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 2.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front 1 Back

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ACB

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) JD

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) JD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) JD

I certify that I attached a label with the unique LIMS number to each container (intial) JD

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-152759

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J		COC No: J0-111534.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-152759-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 10/18/2018			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: Dairi Concepts - 03-05510	Project #: 50007204			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9060A/ Total Organic Carbon (Average Duplicate	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-11A (500-152759-1)	10/1/18	10:00 Central		Solid			X	1	
MW-11B (500-152759-2)	10/1/18	10:30 Central		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 10/8/18 1600	Company TA	Received by:	Date/Time: 10/09/18 10:35	Company TA-NAS
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.7

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: American Engineering Testing Inc. Job Number: 500-152759-1

Login Number: 152759 **List Source: TestAmerica Chicago**
List Number: 1
Creator: Sanchez, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	1.3
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 <6mm (1/4").	N/A	
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

Treatability Report for

American Engineering Testing

ASL Report #: R4347
Project ID: 921913.OTC

Attn: Michael K Kneal

REVISED
1:24 pm, Jan 09, 2019

Authorized and Released By:

Kathy McKinley

Laboratory Manager
Kathy McKinley
541.243.0974
Sept 28, 2018

TestAmerica ASL
1100 NE Circle Boulevard, Suite 310
Corvallis, OR 97330
1-541-243-0980
www.testamericainc.com

TestAmerica ASL Treatability Report #: R4347

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CASE NARRATIVE
SPECIAL ANALYTICS

Lab Name: TestAmerica ASL ASL SDG: R4347

Project Name: American Engineering Testing Project #: 921913.OTC

Method(s):
ASTM D971-12 Interfacial tension of Oil Against water by the Ring Method

ASTM D1217 Density and Relative Density of Liquids by Bingham Pycnometer

ASTM D445 Kinematic Viscosity of Transparent and Opaque liquids

Exception(s):
Viscosity times were below the 200 second minimum.

Overview:

Interfacial Tension was measured on 10/11/2018. DI water/air was measured first, followed by NAPL/air, and NAPL/DI water. All measurements were made at room temperature in a fume hood.

Density and Viscosity were measure on 10/12/2018. Viscosity was measured using a size 100 Cannon-Fenske routine viscometer. Both measurements were made at room temperature.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Density by ASTM D1217 and Viscosity by ASTM D445

American Engineering Testing

Sample ID: R4347

Analyst: EG

Date/Time:10/12/2018 14:00

Sample Name	Matrix	Temperature	Density	Viscosity
		°C	g/mL	cP
AET_NAPL	NAPL	66	0.75	0.64

Quality Control	
Density of millipore water measured at 70 ^{o} F	
Measured Density (g/mL):	0.9946
Published Density (g/mL):	0.9983
RPD:	-0.3723

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Interfacial Tension by ASTM D971

American Engineering Testing

Sample ID: R4347

Analyst: EG

Date/Time:10/12/2018 14:00

Phase Pair					
Phase One		Phase Two		Temperature	Interfacial Tension
Sample ID	Matrix	Sample ID	Matrix	°F	Dynes/centimeter
DI Water	Water	Air	Air	70	68.2
AET_NAPL	NAPL	Air	Air	70	20.8
DI Water	Water	AET_NAPL	NAPL	68	25.1

Quality Control					
DI Water	Water	Air	Air	70	67.7
				Published Value:	72.8
				RPD:	4.04

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: R4347

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler:

(optional) Report To		(optional) Bill To	
Contact:		Contact:	
Company:		Company:	
Address:		Address:	
Address:		Address:	
Phone:		Phone:	
Fax:		Fax:	
E-Mail:		PO#/Reference#	18174188

Client: AET	Client Project #: 03-05510	Preservative	8	8	8	8	8								
Project Name: DairiConcepts		Parameter	Oil-Water Surface Tension	Air-Oil Surface Tension	Air-Water Surface Tension	Oil Density	Oil Viscosity								
Project Location/State: Chili, WI	Lab Project #														
Sampler: Michael K. Neal	Lab PM														
Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix									
		S-1	10-1-18	9:30	1	OL	X	X	X	X	X				-01

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Comments

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days X 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	AET	10-3-18	15:00	Fed X			
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
				[signature]	TA ABL	10/4/18	1145
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments: TH173 ODS: 21.6C Cor: 20.9°C

TestAmerica ASL

Sample Receipt Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

SDG ID: R4347 Date Received: 10/4/2018

Client/Project: AET Received by: PC

Were custody seals intact and on the outside of the cooler?	☑ Yes	☐ No	☐ N/A	
Shipping Record:	☐ Hand Delivered	☑ On File	☐ COC	
Radiological Screening for DoD	☐ Yes	☐ No	☑ N/A	
Packing Material:	☐ Hand Delivered	☐ Ice	☐ Blue Ice	☐ Box
Temp OK? (<6C) Therm ID: TH173 Exp. 10/21/18	20.9 °C	☐ Yes	☐ No	☑ N/A
Was a Chain of Custody (CoC) Provided?	☑ Yes	☐ No	☐ N/A	
Was the CoC correctly filled out (If No, document below)	☑ Yes	☐ No	☐ N/A	
Did sample labels agree with COC? (If No, document below)	☑ Yes	☐ No	☐ N/A	
Did the CoC list a correct bottle count and the preservative types (No=Correct on CoC)	☑ Yes	☐ No	☐ N/A	
Were the sample containers in good condition (not broken or leaking)?	☑ Yes	☐ No	☐ N/A	
Was enough sample volume provided for analysis? (If No, document below)	☑ Yes	☐ No	☐ N/A	
Containers supplied by ASL?	☑ Yes	☐ No	☐ N/A	
Any sample with < 1/2 holding time remaining? If so contact LPM and document below.	☐ Yes	☑ No	☐ N/A	
Samples have multi-phase? If yes, document on SRER	☐ Yes	☑ No	☐ N/A	
All water VOCs free of air bubbles? No, document on SRER	☐ Yes	☐ No	☑ N/A	
pH of all samples met criteria on receipt? If "No", preserve and document below.	☐ Yes	☐ No	☑ N/A	
Dissolved/Soluble metals filtered in the field?	☐ Yes	☐ No	☑ N/A	
Dissolved/Soluble metals have sediment in bottom of container? If so document below.	☐ Yes	☐ No	☑ N/A	

Preservation Adjustment

Sample ID	Reagent	Reagent Lot Number	Volume Added	Initials/Date-Time	24 hour pH check Initials/Time

Did pH of all metals samples preserved upon receipt meet criteria 24 hours after preservation? ☐ Yes ☐ No

Sample Exception Report (The following exceptions were noted)

Client was notified on: Client contact:

Resolution to Exception:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

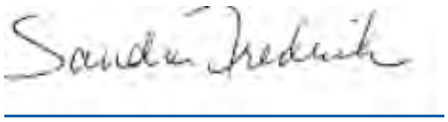
ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-157246-1
Client Project/Site: Dairi Concepts - 03-05510

For:
American Engineering Testing Inc.
1837 Cty Hwy OO
Chippewa Falls, Wisconsin 54729

Attn: Mr. Michael Neal



Authorized for release by:
1/14/2019 10:32:07 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

REVIEWED
By mneal at 11:44 am, Jan 14, 2019

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

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Case Narrative

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Job ID: 500-157246-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-157246-1

Comments
No additional comments.

Receipt
The samples were received on 1/9/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8º C.

GC VOA
Method(s) WI-GRO: Surrogate recovery for the following samples were outside control limits: MW-3A (500-157246-2), MW-4R (500-157246-3), MW-4A (500-157246-4), MW-5A (500-157246-5) and MW-10 (500-157246-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Detection Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Client Sample ID: MW-1A — Lab Sample ID: 500-157246-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.25	J	0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-3A — Lab Sample ID: 500-157246-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1800		25	15	ug/L	50		WDNR	Total/NA
1,3,5-Trimethylbenzene	550		25	15	ug/L	50		WDNR	Total/NA
Benzene	2800		25	18	ug/L	50		WDNR	Total/NA
Ethylbenzene	1400		25	19	ug/L	50		WDNR	Total/NA
Methyl tert-butyl ether	270		25	12	ug/L	50		WDNR	Total/NA
Naphthalene	580		250	120	ug/L	50		WDNR	Total/NA
Toluene	11000		25	17	ug/L	50		WDNR	Total/NA
Xylenes, Total	8300		75	29	ug/L	50		WDNR	Total/NA

Client Sample ID: MW-4R — Lab Sample ID: 500-157246-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	1200		5.0	3.0	ug/L	10		WDNR	Total/NA
1,3,5-Trimethylbenzene	330		5.0	3.0	ug/L	10		WDNR	Total/NA
Benzene	440		5.0	3.6	ug/L	10		WDNR	Total/NA
Ethylbenzene	970		5.0	3.7	ug/L	10		WDNR	Total/NA
Methyl tert-butyl ether	160		5.0	2.4	ug/L	10		WDNR	Total/NA
Naphthalene	440		50	24	ug/L	10		WDNR	Total/NA
Toluene	760		5.0	3.3	ug/L	10		WDNR	Total/NA
Xylenes, Total	3200		15	5.8	ug/L	10		WDNR	Total/NA

Client Sample ID: MW-4A — Lab Sample ID: 500-157246-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	850		5.0	3.0	ug/L	10		WDNR	Total/NA
1,3,5-Trimethylbenzene	300		5.0	3.0	ug/L	10		WDNR	Total/NA
Benzene	220		5.0	3.6	ug/L	10		WDNR	Total/NA
Ethylbenzene	440		5.0	3.7	ug/L	10		WDNR	Total/NA
Methyl tert-butyl ether	220		5.0	2.4	ug/L	10		WDNR	Total/NA
Naphthalene	300		50	24	ug/L	10		WDNR	Total/NA
Toluene	80		5.0	3.3	ug/L	10		WDNR	Total/NA
Xylenes, Total	1100		15	5.8	ug/L	10		WDNR	Total/NA

Client Sample ID: MW-5A — Lab Sample ID: 500-157246-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	780		5.0	3.0	ug/L	10		WDNR	Total/NA
1,3,5-Trimethylbenzene	280		5.0	3.0	ug/L	10		WDNR	Total/NA
Benzene	210		5.0	3.6	ug/L	10		WDNR	Total/NA
Ethylbenzene	390		5.0	3.7	ug/L	10		WDNR	Total/NA
Methyl tert-butyl ether	190		5.0	2.4	ug/L	10		WDNR	Total/NA
Naphthalene	260		50	24	ug/L	10		WDNR	Total/NA
Toluene	65		5.0	3.3	ug/L	10		WDNR	Total/NA
Xylenes, Total	1000		15	5.8	ug/L	10		WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Client Sample ID: MW-7 — Lab Sample ID: 500-157246-6

No Detections.

Client Sample ID: MW-W — Lab Sample ID: 500-157246-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5		0.50	0.36	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 500-157246-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	5100		13	7.5	ug/L	25		WDNR	Total/NA
1,3,5-Trimethylbenzene	1800		13	7.5	ug/L	25		WDNR	Total/NA
Benzene	1400		13	9.0	ug/L	25		WDNR	Total/NA
Ethylbenzene	2100		13	9.3	ug/L	25		WDNR	Total/NA
Methyl tert-butyl ether	1700		13	6.0	ug/L	25		WDNR	Total/NA
Naphthalene	2300		130	60	ug/L	25		WDNR	Total/NA
Toluene	2200		13	8.3	ug/L	25		WDNR	Total/NA
Xylenes, Total	6400		38	15	ug/L	25		WDNR	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-157246-9

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-157246-1	MW-1A	Water	01/07/19 11:30	01/09/19 09:30
500-157246-2	MW-3A	Water	01/07/19 14:15	01/09/19 09:30
500-157246-3	MW-4R	Water	01/07/19 14:00	01/09/19 09:30
500-157246-4	MW-4A	Water	01/07/19 13:30	01/09/19 09:30
500-157246-5	MW-5A	Water	01/07/19 13:00	01/09/19 09:30
500-157246-6	MW-7	Water	01/07/19 12:00	01/09/19 09:30
500-157246-7	MW-W	Water	01/07/19 12:30	01/09/19 09:30
500-157246-8	MW-10	Water	01/07/19 14:30	01/09/19 09:30
500-157246-9	TRIP BLANK	Water	01/07/19 00:00	01/09/19 09:30

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Client Sample ID: MW-1A

Lab Sample ID: 500-157246-1
Date Collected: 01/07/19 11:30
Matrix: Water
Date Received: 01/09/19 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			01/12/19 03:56	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			01/12/19 03:56	1
Benzene	<0.36		0.50	0.36	ug/L			01/12/19 03:56	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			01/12/19 03:56	1
Methyl tert-butyl ether	**0.25**	**J**	0.50	0.24	ug/L			01/12/19 03:56	1
Naphthalene	<2.4		5.0	2.4	ug/L			01/12/19 03:56	1
Toluene	<0.33		0.50	0.33	ug/L			01/12/19 03:56	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			01/12/19 03:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*80 - 120*		*01/12/19 03:56*	*1*

Client Sample ID: MW-3A

Lab Sample ID: 500-157246-2
Date Collected: 01/07/19 14:15
Matrix: Water
Date Received: 01/09/19 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**1800**		25	15	ug/L			01/12/19 11:03	50
1,3,5-Trimethylbenzene	**550**		25	15	ug/L			01/12/19 11:03	50
Benzene	**2800**		25	18	ug/L			01/12/19 11:03	50
Ethylbenzene	**1400**		25	19	ug/L			01/12/19 11:03	50
Methyl tert-butyl ether	**270**		25	12	ug/L			01/12/19 11:03	50
Naphthalene	**580**		250	120	ug/L			01/12/19 11:03	50
Toluene	**11000**		25	17	ug/L			01/12/19 11:03	50
Xylenes, Total	**8300**		75	29	ug/L			01/12/19 11:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*135*	*X*	*80 - 120*		*01/12/19 11:03*	*50*

Client Sample ID: MW-4R

Lab Sample ID: 500-157246-3
Date Collected: 01/07/19 14:00
Matrix: Water
Date Received: 01/09/19 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**1200**		5.0	3.0	ug/L			01/12/19 06:59	10
1,3,5-Trimethylbenzene	**330**		5.0	3.0	ug/L			01/12/19 06:59	10
Benzene	**440**		5.0	3.6	ug/L			01/12/19 06:59	10
Ethylbenzene	**970**		5.0	3.7	ug/L			01/12/19 06:59	10
Methyl tert-butyl ether	**160**		5.0	2.4	ug/L			01/12/19 06:59	10
Naphthalene	**440**		50	24	ug/L			01/12/19 06:59	10
Toluene	**760**		5.0	3.3	ug/L			01/12/19 06:59	10
Xylenes, Total	**3200**		15	5.8	ug/L			01/12/19 06:59	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*201*	*X*	*80 - 120*		*01/12/19 06:59*	*10*

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Client Sample ID: MW-4A

Lab Sample ID: 500-157246-4
Date Collected: 01/07/19 13:30
Matrix: Water
Date Received: 01/09/19 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	850		5.0	3.0	ug/L			01/12/19 08:31	10
1,3,5-Trimethylbenzene	300		5.0	3.0	ug/L			01/12/19 08:31	10
Benzene	220		5.0	3.6	ug/L			01/12/19 08:31	10
Ethylbenzene	440		5.0	3.7	ug/L			01/12/19 08:31	10
Methyl tert-butyl ether	220		5.0	2.4	ug/L			01/12/19 08:31	10
Naphthalene	300		50	24	ug/L			01/12/19 08:31	10
Toluene	80		5.0	3.3	ug/L			01/12/19 08:31	10
Xylenes, Total	1100		15	5.8	ug/L			01/12/19 08:31	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*146*	*X*	*80 - 120*		*01/12/19 08:31*	*10*

Client Sample ID: MW-5A

Lab Sample ID: 500-157246-5
Date Collected: 01/07/19 13:00
Matrix: Water
Date Received: 01/09/19 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	780		5.0	3.0	ug/L			01/12/19 09:01	10
1,3,5-Trimethylbenzene	280		5.0	3.0	ug/L			01/12/19 09:01	10
Benzene	210		5.0	3.6	ug/L			01/12/19 09:01	10
Ethylbenzene	390		5.0	3.7	ug/L			01/12/19 09:01	10
Methyl tert-butyl ether	190		5.0	2.4	ug/L			01/12/19 09:01	10
Naphthalene	260		50	24	ug/L			01/12/19 09:01	10
Toluene	65		5.0	3.3	ug/L			01/12/19 09:01	10
Xylenes, Total	1000		15	5.8	ug/L			01/12/19 09:01	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*130*	*X*	*80 - 120*		*01/12/19 09:01*	*10*

Client Sample ID: MW-7

Lab Sample ID: 500-157246-6
Date Collected: 01/07/19 12:00
Matrix: Water
Date Received: 01/09/19 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			01/12/19 05:58	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			01/12/19 05:58	1
Benzene	<0.36		0.50	0.36	ug/L			01/12/19 05:58	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			01/12/19 05:58	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			01/12/19 05:58	1
Naphthalene	<2.4		5.0	2.4	ug/L			01/12/19 05:58	1
Toluene	<0.33		0.50	0.33	ug/L			01/12/19 05:58	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			01/12/19 05:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*80 - 120*		*01/12/19 05:58*	*1*

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Client Sample ID: MW-W

Lab Sample ID: 500-157246-7
Date Collected: 01/07/19 12:30
Matrix: Water
Date Received: 01/09/19 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			01/12/19 06:28	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			01/12/19 06:28	1
Benzene	**1.5**		0.50	0.36	ug/L			01/12/19 06:28	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			01/12/19 06:28	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			01/12/19 06:28	1
Naphthalene	<2.4		5.0	2.4	ug/L			01/12/19 06:28	1
Toluene	<0.33		0.50	0.33	ug/L			01/12/19 06:28	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			01/12/19 06:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*80 - 120*		*01/12/19 06:28*	*1*

Client Sample ID: MW-10

Lab Sample ID: 500-157246-8
Date Collected: 01/07/19 14:30
Matrix: Water
Date Received: 01/09/19 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**5100**		13	7.5	ug/L			01/12/19 09:32	25
1,3,5-Trimethylbenzene	**1800**		13	7.5	ug/L			01/12/19 09:32	25
Benzene	**1400**		13	9.0	ug/L			01/12/19 09:32	25
Ethylbenzene	**2100**		13	9.3	ug/L			01/12/19 09:32	25
Methyl tert-butyl ether	**1700**		13	6.0	ug/L			01/12/19 09:32	25
Naphthalene	**2300**		130	60	ug/L			01/12/19 09:32	25
Toluene	**2200**		13	8.3	ug/L			01/12/19 09:32	25
Xylenes, Total	**6400**		38	15	ug/L			01/12/19 09:32	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*458*	*X*	*80 - 120*		*01/12/19 09:32*	*25*

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-157246-9
Date Collected: 01/07/19 00:00
Matrix: Water
Date Received: 01/09/19 09:30

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			01/12/19 01:23	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			01/12/19 01:23	1
Benzene	<0.36		0.50	0.36	ug/L			01/12/19 01:23	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			01/12/19 01:23	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			01/12/19 01:23	1
Naphthalene	<2.4		5.0	2.4	ug/L			01/12/19 01:23	1
Toluene	<0.33		0.50	0.33	ug/L			01/12/19 01:23	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			01/12/19 01:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*80 - 120*		*01/12/19 01:23*	*1*

Definitions/Glossary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

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 Association Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

GC VOA

Analysis Batch: 568987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-157246-1	MW-1A	Total/NA	Water	WDNR	
500-157246-2	MW-3A	Total/NA	Water	WDNR	
500-157246-3	MW-4R	Total/NA	Water	WDNR	
500-157246-4	MW-4A	Total/NA	Water	WDNR	
500-157246-5	MW-5A	Total/NA	Water	WDNR	
500-157246-6	MW-7	Total/NA	Water	WDNR	
500-157246-7	MW-W	Total/NA	Water	WDNR	
500-157246-8	MW-10	Total/NA	Water	WDNR	
500-157246-9	TRIP BLANK	Total/NA	Water	WDNR	
MB 490-568987/33	Method Blank	Total/NA	Water	WDNR	
LCS 490-568987/32	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-568987/56	Lab Control Sample Dup	Total/NA	Water	WDNR	
500-157246-1 MS	MW-1A	Total/NA	Water	WDNR	
500-157246-1 MSD	MW-1A	Total/NA	Water	WDNR	

Surrogate Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	TFT (80-120)								
500-157246-1	MW-1A	101								
500-157246-1 MS	MW-1A	100								
500-157246-1 MSD	MW-1A	98								
500-157246-2	MW-3A	135 X								
500-157246-3	MW-4R	201 X								
500-157246-4	MW-4A	146 X								
500-157246-5	MW-5A	130 X								
500-157246-6	MW-7	99								
500-157246-7	MW-W	99								
500-157246-8	MW-10	458 X								
500-157246-9	TRIP BLANK	99								
LCS 490-568987/32	Lab Control Sample	100								
LCSD 490-568987/56	Lab Control Sample Dup	99								
MB 490-568987/33	Method Blank	101								

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-568987/33
Matrix: Water
Analysis Batch: 568987

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			01/12/19 00:53	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			01/12/19 00:53	1
Benzene	<0.36		0.50	0.36	ug/L			01/12/19 00:53	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			01/12/19 00:53	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			01/12/19 00:53	1
Naphthalene	<2.4		5.0	2.4	ug/L			01/12/19 00:53	1
Toluene	<0.33		0.50	0.33	ug/L			01/12/19 00:53	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			01/12/19 00:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*80 - 120*		*01/12/19 00:53*	*1*

Lab Sample ID: LCS 490-568987/32
Matrix: Water
Analysis Batch: 568987

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,4-Trimethylbenzene			20.0	19.6		ug/L		98	60 - 131		
1,3,5-Trimethylbenzene			20.0	19.7		ug/L		98	70 - 130		
Benzene			20.0	19.8		ug/L		99	69 - 129		
Ethylbenzene			20.0	19.5		ug/L		97	70 - 130		
Methyl tert-butyl ether			20.0	23.1		ug/L		115	57 - 138		
Naphthalene			20.0	19.5		ug/L		97	69 - 133		
Toluene			20.0	19.6		ug/L		98	66 - 127		
Xylenes, Total			60.0	59.3		ug/L		99			

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*80 - 120*

Lab Sample ID: LCSD 490-568987/56
Matrix: Water
Analysis Batch: 568987

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene			20.0	19.7		ug/L		99	60 - 131	1	43
1,3,5-Trimethylbenzene			20.0	19.8		ug/L		99	70 - 130	1	20
Benzene			20.0	19.6		ug/L		98	69 - 129	1	33
Ethylbenzene			20.0	19.3		ug/L		97	70 - 130	1	35
Methyl tert-butyl ether			20.0	23.1		ug/L		116	57 - 138	0	40
Naphthalene			20.0	19.7		ug/L		98	69 - 133	1	48
Toluene			20.0	19.9		ug/L		100	66 - 127	2	34
Xylenes, Total			60.0	59.4		ug/L		99		0	

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*99*		*80 - 120*

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: 500-157246-1 MS
Matrix: Water
Analysis Batch: 568987

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	<0.30		20.0	19.6		ug/L		98	40 - 165
1,3,5-Trimethylbenzene	<0.30		20.0	19.9		ug/L		100	60 - 140
Benzene	<0.36		20.0	20.6		ug/L		103	29 - 176
Ethylbenzene	<0.37		20.0	20.1		ug/L		100	30 - 170
Methyl tert-butyl ether	0.25	J	20.0	23.9		ug/L		118	23 - 165
Naphthalene	<2.4		20.0	19.3		ug/L		97	10 - 175
Toluene	<0.33		20.0	20.4		ug/L		102	30 - 167
Xylenes, Total	<0.58		60.0	61.4		ug/L		102	

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*80 - 120*

Lab Sample ID: 500-157246-1 MSD
Matrix: Water
Analysis Batch: 568987

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	<0.30		20.0	21.5		ug/L		108	40 - 165	9	43
1,3,5-Trimethylbenzene	<0.30		20.0	21.9		ug/L		110	60 - 140	9	20
Benzene	<0.36		20.0	22.4		ug/L		112	29 - 176	9	33
Ethylbenzene	<0.37		20.0	21.8		ug/L		109	30 - 170	8	35
Methyl tert-butyl ether	0.25	J	20.0	26.0		ug/L		129	23 - 165	8	40
Naphthalene	<2.4		20.0	21.3		ug/L		107	10 - 175	10	48
Toluene	<0.33		20.0	22.2		ug/L		111	30 - 167	8	34
Xylenes, Total	<0.58		60.0	66.9		ug/L		112		9	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*80 - 120*

Lab Chronicle

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Client Sample ID: MW-1A
Date Collected: 01/07/19 11:30
Date Received: 01/09/19 09:30

Lab Sample ID: 500-157246-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	568987	01/12/19 03:56	S1S	TAL NSH

Client Sample ID: MW-3A
Date Collected: 01/07/19 14:15
Date Received: 01/09/19 09:30

Lab Sample ID: 500-157246-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		50	568987	01/12/19 11:03	S1S	TAL NSH

Client Sample ID: MW-4R
Date Collected: 01/07/19 14:00
Date Received: 01/09/19 09:30

Lab Sample ID: 500-157246-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		10	568987	01/12/19 06:59	S1S	TAL NSH

Client Sample ID: MW-4A
Date Collected: 01/07/19 13:30
Date Received: 01/09/19 09:30

Lab Sample ID: 500-157246-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		10	568987	01/12/19 08:31	S1S	TAL NSH

Client Sample ID: MW-5A
Date Collected: 01/07/19 13:00
Date Received: 01/09/19 09:30

Lab Sample ID: 500-157246-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		10	568987	01/12/19 09:01	S1S	TAL NSH

Client Sample ID: MW-7
Date Collected: 01/07/19 12:00
Date Received: 01/09/19 09:30

Lab Sample ID: 500-157246-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	568987	01/12/19 05:58	S1S	TAL NSH

Lab Chronicle

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

TestAmerica Job ID: 500-157246-1

Client Sample ID: MW-W
Lab Sample ID: 500-157246-7
Date Collected: 01/07/19 12:30
Matrix: Water
Date Received: 01/09/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	568987	01/12/19 06:28	S1S	TAL NSH

Client Sample ID: MW-10
Lab Sample ID: 500-157246-8
Date Collected: 01/07/19 14:30
Matrix: Water
Date Received: 01/09/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		25	568987	01/12/19 09:32	S1S	TAL NSH

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-157246-9
Date Collected: 01/07/19 00:00
Matrix: Water
Date Received: 01/09/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	568987	01/12/19 01:23	S1S	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: American Engineering Testing Inc. TestAmerica Job ID: 500-157246-1
Project/Site: Dairi Concepts - 03-05510

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-19

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-157246

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 1.8

(optional)

Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address: 500-157246 COC
Phone:
Fax:
PO#/Reference# 18174003

Client: AET
Client Project #: 03-05510
Project Name: Dairi Concepts
Project Location/State: Chili, WI
Lab Project #:
Sampler: Michael K. Neal
Lab PM: Sandie F.

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: PVOC + Naphthalene	Comments
1		MW-1A	1-7-19	11:30	3	W	1	X	
2		MW-3A		14:15	3	W		X	
3		MW-4R		14:00	3	W		X	
4		MW-4A		13:30	3	W		X	
5		MW-5A		13:00	3	W		X	
6		MW-7		12:00	3	W		X	
7		MW-W		12:30	3	W		X	
8		MW-10		14:30	3	W		X	
9		Trip Blank		—	1	W		X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days X 15 Days ___ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for ___ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[illegible]	AET	1-8-19	15:00	FedEx			
				[illegible]	TA	1-9-19	0925

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments: PCLFA

Lab Comments: 30 qt

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

30 gt

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-157246 Chain of Custody

Cooler Received/Opened On 1/10/2019 @ 10:35

Time Samples Removed From Cooler 1200 Time Samples Placed In Storage 1224 (2 Hour Window)

1. Tracking # 8800 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 97310166 pH Strip Lot ✓ Chlorine Strip Lot ✓

2. Temperature of rep. sample or temp blank when opened: 0.7 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) TR

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA TR 1/9/19

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) TR

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) TR

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) TR

I certify that I attached a label with the unique LIMS number to each container (intial) TR

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc LF-1 End of Form Revised 8/23/17

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

Loc: 500
157246

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	Tracking No(s):	COC No: 500-116143.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-157246-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 1/17/2019			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: Dairi Concepts - 03-05510	Project #: 50007204			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/5030B PVOC+NAP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1A (500-157246-1)	1/7/19	11:30 Central		Water			X	3	
MW-3A (500-157246-2)	1/7/19	14:15 Central		Water			X	2	
MW-4R (500-157246-3)	1/7/19	14:00 Central		Water			X	3	
MW-4A (500-157246-4)	1/7/19	13:30 Central		Water			X	3	
MW-5A (500-157246-5)	1/7/19	13:00 Central		Water			X	3	
MW-7 (500-157246-6)	1/7/19	12:00 Central		Water			X	3	
MW-W (500-157246-7)	1/7/19	12:30 Central		Water			X	3	
MW-10 (500-157246-8)	1/7/19	14:30 Central		Water			X	3	
TRIP BLANK (500-157246-9)	1/7/19	Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	1/9/19 1700	TA			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
			[signature]	1/10/19 1035	TA-MAS

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.7

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: American Engineering Testing Inc. Job Number: 500-157246-1

Login Number: 157246 **List Source: TestAmerica Chicago**
List Number: 1
Creator: James, Jeff A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	1.8
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 <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

REVIEWED
By mneal at 11:36 am, May 13, 2019

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-162469-1
Client Project/Site: Dairi Concepts - 03-05510

For:
American Engineering Testing Inc.
1837 Cty Hwy OO
Chippewa Falls, Wisconsin 54729

Attn: Mr. Michael Neal

Authorized for release by:
5/13/2019 11:22:36 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Laboratory Job ID: 500-162469-1

Table of Contents

Case Narrative

Client: American Engineering Testing Inc. Job ID: 500-162469-1
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-162469-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-162469-1

Comments
No additional comments.

Receipt
The samples were received on 4/30/2019 11:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.7º C.

GC VOA
Method(s) WI-GRO: Surrogate recovery for the following samples were outside control limits: MW-3A (500-162469-2), MW-4R (500-162469-3), MW-4A (500-162469-4), MW-5A (500-162469-5) and MW-10 (500-162469-8). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) WI-GRO: The following sample was diluted due to the nature of the sample matrix: MW-5A (500-162469-5). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-162469-1

Client Sample ID: MW-1A — Lab Sample ID: 500-162469-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.41	J	0.50	0.36	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-3A — Lab Sample ID: 500-162469-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2600		13	7.5	ug/L	25		WDNR	Total/NA
1,3,5-Trimethylbenzene	830		13	7.5	ug/L	25		WDNR	Total/NA
Benzene	2700		13	9.0	ug/L	25		WDNR	Total/NA
Ethylbenzene	1500		13	9.3	ug/L	25		WDNR	Total/NA
Methyl tert-butyl ether	580		13	6.0	ug/L	25		WDNR	Total/NA
Naphthalene	1800		130	60	ug/L	25		WDNR	Total/NA
Toluene	9400		25	17	ug/L	50		WDNR	Total/NA
Xylenes, Total	8000		38	15	ug/L	25		WDNR	Total/NA

Client Sample ID: MW-4R — Lab Sample ID: 500-162469-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2200		13	7.5	ug/L	25		WDNR	Total/NA
1,3,5-Trimethylbenzene	680		13	7.5	ug/L	25		WDNR	Total/NA
Benzene	310		13	9.0	ug/L	25		WDNR	Total/NA
Ethylbenzene	810		13	9.3	ug/L	25		WDNR	Total/NA
Methyl tert-butyl ether	26		13	6.0	ug/L	25		WDNR	Total/NA
Naphthalene	1300		130	60	ug/L	25		WDNR	Total/NA
Toluene	48		13	8.3	ug/L	25		WDNR	Total/NA
Xylenes, Total	2500		38	15	ug/L	25		WDNR	Total/NA

Client Sample ID: MW-4A — Lab Sample ID: 500-162469-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	20		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	13		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	120		0.50	0.36	ug/L	1		WDNR	Total/NA
Ethylbenzene	49		0.50	0.37	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	17		0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	39		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	20		0.50	0.33	ug/L	1		WDNR	Total/NA
Xylenes, Total	67		1.5	0.58	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-5A — Lab Sample ID: 500-162469-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	500		5.0	3.0	ug/L	10		WDNR	Total/NA
1,3,5-Trimethylbenzene	220		5.0	3.0	ug/L	10		WDNR	Total/NA
Benzene	89		5.0	3.6	ug/L	10		WDNR	Total/NA
Ethylbenzene	72		5.0	3.7	ug/L	10		WDNR	Total/NA
Methyl tert-butyl ether	62		5.0	2.4	ug/L	10		WDNR	Total/NA
Naphthalene	140		50	24	ug/L	10		WDNR	Total/NA
Toluene	6.2		5.0	3.3	ug/L	10		WDNR	Total/NA
Xylenes, Total	390		15	5.8	ug/L	10		WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-162469-1

Client Sample ID: MW-7 — Lab Sample ID: 500-162469-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	5.6		0.50	0.36	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-W — Lab Sample ID: 500-162469-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.6		0.50	0.36	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	1.7		0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 500-162469-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4600		13	7.5	ug/L	25		WDNR	Total/NA
1,3,5-Trimethylbenzene	1700		13	7.5	ug/L	25		WDNR	Total/NA
Benzene	1100		13	9.0	ug/L	25		WDNR	Total/NA
Ethylbenzene	1800		13	9.3	ug/L	25		WDNR	Total/NA
Methyl tert-butyl ether	320		13	6.0	ug/L	25		WDNR	Total/NA
Naphthalene	2100		130	60	ug/L	25		WDNR	Total/NA
Toluene	1500		13	8.3	ug/L	25		WDNR	Total/NA
Xylenes, Total	6100		38	15	ug/L	25		WDNR	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-162469-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: American Engineering Testing Inc. Job ID: 500-162469-1
Project/Site: Dairi Concepts - 03-05510

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-162469-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-162469-1	MW-1A	Water	04/26/19 11:15	04/30/19 11:40
500-162469-2	MW-3A	Water	04/26/19 13:00	04/30/19 11:40
500-162469-3	MW-4R	Water	04/26/19 12:45	04/30/19 11:40
500-162469-4	MW-4A	Water	04/26/19 12:15	04/30/19 11:40
500-162469-5	MW-5A	Water	04/26/19 12:30	04/30/19 11:40
500-162469-6	MW-7	Water	04/26/19 11:45	04/30/19 11:40
500-162469-7	MW-W	Water	04/26/19 12:00	04/30/19 11:40
500-162469-8	MW-10	Water	04/26/19 13:30	04/30/19 11:40
500-162469-9	TRIP BLANK	Water	04/26/19 00:00	04/30/19 11:40

Client Sample Results

Client: American Engineering Testing Inc. Job ID: 500-162469-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: MW-1A — Lab Sample ID: 500-162469-1

Date Collected: 04/26/19 11:15 **Matrix: Water**
Date Received: 04/30/19 11:40

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/02/19 09:04	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/02/19 09:04	1
Benzene	**0.41**	**J**	0.50	0.36	ug/L			05/02/19 09:04	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/02/19 09:04	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/02/19 09:04	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/02/19 09:04	1
Toluene	<0.33		0.50	0.33	ug/L			05/02/19 09:04	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/02/19 09:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*80 - 120*		*05/02/19 09:04*	*1*

Client Sample ID: MW-3A — Lab Sample ID: 500-162469-2

Date Collected: 04/26/19 13:00 **Matrix: Water**
Date Received: 04/30/19 11:40

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**2600**		13	7.5	ug/L			05/02/19 15:57	25
1,3,5-Trimethylbenzene	**830**		13	7.5	ug/L			05/02/19 15:57	25
Benzene	**2700**		13	9.0	ug/L			05/02/19 15:57	25
Ethylbenzene	**1500**		13	9.3	ug/L			05/02/19 15:57	25
Methyl tert-butyl ether	**580**		13	6.0	ug/L			05/02/19 15:57	25
Naphthalene	**1800**		130	60	ug/L			05/02/19 15:57	25
Toluene	**9400**		25	17	ug/L			05/02/19 17:31	50
Xylenes, Total	**8000**		38	15	ug/L			05/02/19 15:57	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*185*	*X*	*80 - 120*		*05/02/19 15:57*	*25*
a,a,a-Trifluorotoluene	*123*	*X*	*80 - 120*		*05/02/19 17:31*	*50*

Client Sample ID: MW-4R — Lab Sample ID: 500-162469-3

Date Collected: 04/26/19 12:45 **Matrix: Water**
Date Received: 04/30/19 11:40

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**2200**		13	7.5	ug/L			05/02/19 18:34	25
1,3,5-Trimethylbenzene	**680**		13	7.5	ug/L			05/02/19 18:34	25
Benzene	**310**		13	9.0	ug/L			05/02/19 18:34	25
Ethylbenzene	**810**		13	9.3	ug/L			05/02/19 18:34	25
Methyl tert-butyl ether	**26**		13	6.0	ug/L			05/02/19 18:34	25
Naphthalene	**1300**		130	60	ug/L			05/02/19 18:34	25
Toluene	**48**		13	8.3	ug/L			05/02/19 18:34	25
Xylenes, Total	**2500**		38	15	ug/L			05/02/19 18:34	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*201*	*X*	*80 - 120*		*05/02/19 18:34*	*25*

Client Sample Results

Client: American Engineering Testing Inc. Job ID: 500-162469-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: MW-4A — Lab Sample ID: 500-162469-4

Date Collected: 04/26/19 12:15 **Matrix: Water**
Date Received: 04/30/19 11:40

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	20		0.50	0.30	ug/L			05/02/19 09:35	1
1,3,5-Trimethylbenzene	13		0.50	0.30	ug/L			05/02/19 09:35	1
Benzene	120		0.50	0.36	ug/L			05/02/19 09:35	1
Ethylbenzene	49		0.50	0.37	ug/L			05/02/19 09:35	1
Methyl tert-butyl ether	17		0.50	0.24	ug/L			05/02/19 09:35	1
Naphthalene	39		5.0	2.4	ug/L			05/02/19 09:35	1
Toluene	20		0.50	0.33	ug/L			05/02/19 09:35	1
Xylenes, Total	67		1.5	0.58	ug/L			05/02/19 09:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*130*	*X*	*80 - 120*		*05/02/19 09:35*	*1*

Client Sample ID: MW-5A — Lab Sample ID: 500-162469-5

Date Collected: 04/26/19 12:30 **Matrix: Water**
Date Received: 04/30/19 11:40

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	500		5.0	3.0	ug/L			05/02/19 13:19	10
1,3,5-Trimethylbenzene	220		5.0	3.0	ug/L			05/02/19 13:19	10
Benzene	89		5.0	3.6	ug/L			05/02/19 13:19	10
Ethylbenzene	72		5.0	3.7	ug/L			05/02/19 13:19	10
Methyl tert-butyl ether	62		5.0	2.4	ug/L			05/02/19 13:19	10
Naphthalene	140		50	24	ug/L			05/02/19 13:19	10
Toluene	6.2		5.0	3.3	ug/L			05/02/19 13:19	10
Xylenes, Total	390		15	5.8	ug/L			05/02/19 13:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*145*	*X*	*80 - 120*		*05/02/19 13:19*	*10*

Client Sample ID: MW-7 — Lab Sample ID: 500-162469-6

Date Collected: 04/26/19 11:45 **Matrix: Water**
Date Received: 04/30/19 11:40

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/02/19 12:16	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/02/19 12:16	1
Benzene	5.6		0.50	0.36	ug/L			05/02/19 12:16	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/02/19 12:16	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/02/19 12:16	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/02/19 12:16	1
Toluene	<0.33		0.50	0.33	ug/L			05/02/19 12:16	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/02/19 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*80 - 120*		*05/02/19 12:16*	*1*

Client Sample Results

Client: American Engineering Testing Inc. Job ID: 500-162469-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: MW-W — Lab Sample ID: 500-162469-7

Date Collected: 04/26/19 12:00 **Matrix: Water**
Date Received: 04/30/19 11:40

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/02/19 12:47	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/02/19 12:47	1
Benzene	**2.6**		0.50	0.36	ug/L			05/02/19 12:47	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/02/19 12:47	1
Methyl tert-butyl ether	**1.7**		0.50	0.24	ug/L			05/02/19 12:47	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/02/19 12:47	1
Toluene	<0.33		0.50	0.33	ug/L			05/02/19 12:47	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/02/19 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*80 - 120*		*05/02/19 12:47*	*1*

Client Sample ID: MW-10 — Lab Sample ID: 500-162469-8

Date Collected: 04/26/19 13:30 **Matrix: Water**
Date Received: 04/30/19 11:40

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**4600**		13	7.5	ug/L			05/02/19 21:11	25
1,3,5-Trimethylbenzene	**1700**		13	7.5	ug/L			05/02/19 21:11	25
Benzene	**1100**		13	9.0	ug/L			05/02/19 21:11	25
Ethylbenzene	**1800**		13	9.3	ug/L			05/02/19 21:11	25
Methyl tert-butyl ether	**320**		13	6.0	ug/L			05/02/19 21:11	25
Naphthalene	**2100**		130	60	ug/L			05/02/19 21:11	25
Toluene	**1500**		13	8.3	ug/L			05/02/19 21:11	25
Xylenes, Total	**6100**		38	15	ug/L			05/02/19 21:11	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*164*	*X*	*80 - 120*		*05/02/19 21:11*	*25*

Client Sample ID: TRIP BLANK — Lab Sample ID: 500-162469-9

Date Collected: 04/26/19 00:00 **Matrix: Water**
Date Received: 04/30/19 11:40

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/02/19 08:33	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/02/19 08:33	1
Benzene	<0.36		0.50	0.36	ug/L			05/02/19 08:33	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/02/19 08:33	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/02/19 08:33	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/02/19 08:33	1
Toluene	<0.33		0.50	0.33	ug/L			05/02/19 08:33	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/02/19 08:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*86*		*80 - 120*		*05/02/19 08:33*	*1*

Definitions/Glossary

Client: American Engineering Testing Inc. Job ID: 500-162469-1
Project/Site: Dairi Concepts - 03-05510

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

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 Association Summary

Client: American Engineering Testing Inc. Job ID: 500-162469-1
Project/Site: Dairi Concepts - 03-05510

GC VOA

Analysis Batch: 592081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-162469-1	MW-1A	Total/NA	Water	WDNR	
500-162469-2	MW-3A	Total/NA	Water	WDNR	
500-162469-2	MW-3A	Total/NA	Water	WDNR	
500-162469-3	MW-4R	Total/NA	Water	WDNR	
500-162469-4	MW-4A	Total/NA	Water	WDNR	
500-162469-5	MW-5A	Total/NA	Water	WDNR	
500-162469-6	MW-7	Total/NA	Water	WDNR	
500-162469-7	MW-W	Total/NA	Water	WDNR	
500-162469-8	MW-10	Total/NA	Water	WDNR	
500-162469-9	TRIP BLANK	Total/NA	Water	WDNR	
MB 490-592081/4	Method Blank	Total/NA	Water	WDNR	
LCS 490-592081/3	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-592081/32	Lab Control Sample Dup	Total/NA	Water	WDNR	
500-162469-1 MS	MW-1A	Total/NA	Water	WDNR	
500-162469-1 MSD	MW-1A	Total/NA	Water	WDNR	

Surrogate Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-162469-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	TFT (80-120)						
500-162469-1	MW-1A	96						
500-162469-1 MS	MW-1A	98						
500-162469-1 MSD	MW-1A	88						
500-162469-2	MW-3A	185 X						
500-162469-2	MW-3A	123 X						
500-162469-3	MW-4R	201 X						
500-162469-4	MW-4A	130 X						
500-162469-5	MW-5A	145 X						
500-162469-6	MW-7	95						
500-162469-7	MW-W	93						
500-162469-8	MW-10	164 X						
500-162469-9	TRIP BLANK	86						
LCS 490-592081/3	Lab Control Sample	94						
LCSD 490-592081/32	Lab Control Sample Dup	89						
MB 490-592081/4	Method Blank	94						

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-162469-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-592081/4
Matrix: Water
Analysis Batch: 592081

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/02/19 08:01	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			05/02/19 08:01	1
Benzene	<0.36		0.50	0.36	ug/L			05/02/19 08:01	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			05/02/19 08:01	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			05/02/19 08:01	1
Naphthalene	<2.4		5.0	2.4	ug/L			05/02/19 08:01	1
Toluene	<0.33		0.50	0.33	ug/L			05/02/19 08:01	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			05/02/19 08:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*94*		*80 - 120*		*05/02/19 08:01*	*1*

Lab Sample ID: LCS 490-592081/3
Matrix: Water
Analysis Batch: 592081

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	18.8		ug/L		94	60 - 131
1,3,5-Trimethylbenzene	20.0	18.7		ug/L		93	70 - 130
Benzene	20.0	17.0		ug/L		85	69 - 129
Ethylbenzene	20.0	18.0		ug/L		90	70 - 130
Methyl tert-butyl ether	20.0	17.5		ug/L		88	57 - 138
Naphthalene	20.0	18.6		ug/L		93	69 - 133
Toluene	20.0	17.7		ug/L		89	66 - 127
Xylenes, Total	60.0	55.1		ug/L		92	

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*94*		*80 - 120*

Lab Sample ID: LCSD 490-592081/32
Matrix: Water
Analysis Batch: 592081

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	20.0	18.9		ug/L		95	60 - 131	1	43
1,3,5-Trimethylbenzene	20.0	18.8		ug/L		94	70 - 130	1	20
Benzene	20.0	17.2		ug/L		86	69 - 129	1	33
Ethylbenzene	20.0	18.0		ug/L		90	70 - 130	0	35
Methyl tert-butyl ether	20.0	17.8		ug/L		89	57 - 138	2	40
Naphthalene	20.0	19.5		ug/L		97	69 - 133	4	48
Toluene	20.0	17.9		ug/L		90	66 - 127	1	34
Xylenes, Total	60.0	55.3		ug/L		92		0	

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*89*		*80 - 120*

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-162469-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: 500-162469-1 MS
Matrix: Water
Analysis Batch: 592081

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,4-Trimethylbenzene	<0.30		20.0	21.5		ug/L		107	40 - 165		
1,3,5-Trimethylbenzene	<0.30		20.0	21.8		ug/L		109	60 - 140		
Benzene	0.41	J	20.0	20.5		ug/L		100	29 - 176		
Ethylbenzene	<0.37		20.0	20.9		ug/L		105	30 - 170		
Methyl tert-butyl ether	<0.24		20.0	19.9		ug/L		99	23 - 165		
Naphthalene	<2.4		20.0	21.4		ug/L		107	10 - 175		
Toluene	<0.33		20.0	20.6		ug/L		103	30 - 167		
Xylenes, Total	<0.58		60.0	63.8		ug/L		106			

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*80 - 120*

Lab Sample ID: 500-162469-1 MSD
Matrix: Water
Analysis Batch: 592081

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	<0.30		20.0	20.9		ug/L		105	40 - 165	2	43
1,3,5-Trimethylbenzene	<0.30		20.0	21.1		ug/L		106	60 - 140	3	20
Benzene	0.41	J	20.0	20.1		ug/L		98	29 - 176	2	33
Ethylbenzene	<0.37		20.0	20.6		ug/L		103	30 - 170	2	35
Methyl tert-butyl ether	<0.24		20.0	20.3		ug/L		102	23 - 165	2	40
Naphthalene	<2.4		20.0	21.9		ug/L		109	10 - 175	2	48
Toluene	<0.33		20.0	20.1		ug/L		101	30 - 167	3	34
Xylenes, Total	<0.58		60.0	62.4		ug/L		104		2	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*88*		*80 - 120*

Lab Chronicle

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-162469-1

Client Sample ID: MW-1A
Lab Sample ID: 500-162469-1
Date Collected: 04/26/19 11:15
Matrix: Water
Date Received: 04/30/19 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	592081	05/02/19 09:04	S1S	TAL NSH

Client Sample ID: MW-3A
Lab Sample ID: 500-162469-2
Date Collected: 04/26/19 13:00
Matrix: Water
Date Received: 04/30/19 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		25	592081	05/02/19 15:57	S1S	TAL NSH
Total/NA	Analysis	WDNR		50	592081	05/02/19 17:31	S1S	TAL NSH

Client Sample ID: MW-4R
Lab Sample ID: 500-162469-3
Date Collected: 04/26/19 12:45
Matrix: Water
Date Received: 04/30/19 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		25	592081	05/02/19 18:34	S1S	TAL NSH

Client Sample ID: MW-4A
Lab Sample ID: 500-162469-4
Date Collected: 04/26/19 12:15
Matrix: Water
Date Received: 04/30/19 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	592081	05/02/19 09:35	S1S	TAL NSH

Client Sample ID: MW-5A
Lab Sample ID: 500-162469-5
Date Collected: 04/26/19 12:30
Matrix: Water
Date Received: 04/30/19 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		10	592081	05/02/19 13:19	S1S	TAL NSH

Client Sample ID: MW-7
Lab Sample ID: 500-162469-6
Date Collected: 04/26/19 11:45
Matrix: Water
Date Received: 04/30/19 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	592081	05/02/19 12:16	S1S	TAL NSH

Client Sample ID: MW-W
Lab Sample ID: 500-162469-7
Date Collected: 04/26/19 12:00
Matrix: Water
Date Received: 04/30/19 11:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	592081	05/02/19 12:47	S1S	TAL NSH

Lab Chronicle

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-162469-1

Client Sample ID: MW-10
Date Collected: 04/26/19 13:30
Date Received: 04/30/19 11:40

Lab Sample ID: 500-162469-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		25	592081	05/02/19 21:11	S1S	TAL NSH

Client Sample ID: TRIP BLANK
Date Collected: 04/26/19 00:00
Date Received: 04/30/19 11:40

Lab Sample ID: 500-162469-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	592081	05/02/19 08:33	S1S	TAL NSH

Laboratory References:
TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: American Engineering Testing Inc. Job ID: 500-162469-1
Project/Site: Dairi Concepts - 03-05510

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19 *

Laboratory: Eurofins TestAmerica, Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-19

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-162469

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 5.7

Report To (optional)	Bill To (optional)
Contact:	Contact:
Company:	Company:
Address:	Address:
Address:	Address: 500-162469 COC
Phone:	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference# 18174003

Client: AET	Client Project #: 03-05510	Preservative: 1	
Project Name: Dairy Concepts		Parameter:	
Project Location/State: Chilli WI	Lab Project #:		
Sampler: Michael K Neal	Lab PM: Sandie F.		

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Comments
1		MW-1A	4-26-19	11:15	3	W	
2		MW-3A		13:00	3	W	
3		MW-4R		12:45	3	W	
4		MW-4A		12:15	3	W	
5		MW-5A		12:30	3	W	
6		MW-7		11:45	3	W	
7		MW-W		12:00	3	W	
8		MW-10		13:30	3	W	
9		Trip Blnk		—	1	W	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days X 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1		AET	4-29-19	15:30	Fed Ex			
2						TAT	4-30-19	0905
3								

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments: PECFA

Lab Comments:

ORIGIN ID:EAUA (715) 861-5045
MICHAEL NEAL

1837 COUNTY HIGHWAY OO

CHIPPEWA FALLS, WI 54729
UNITED STATES US

SHIP DATE: 29APR19
ACTWGT: 20.22 LB
CAD: 104737534/INET4100

BILL THIRD PARTY

TO **SAMPLE RECEIPT**
TEST AMERICA
2417 BOND STREET

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

500-162469 Waybill

565J1/D66C/23AD

FedEx Express

TUE - 30 APR 3:00P
STANDARD OVERNIGHT

TRK# 0201 **7750 8813 6102**

GE JOTA

60484
IL-US **ORD**

48 qt

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

1/1

FedEx Ship Manager - Print Your Label(s)

4/29/2019

https://www.fedex.com/shipping/shipAction.handle?method=doContinue

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

500-162469 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 5/1/2019 @ 1020

Time Samples Removed From Cooler 1634 Time Samples Placed In Storage 1650 (2 Hour Window)

1. Tracking # 8106 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 17960358 pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 1.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...(NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 (Front)

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) JJ

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...(NO)...NA

● ⬅ Larger than this.

14. Was there a Trip Blank in this cooler? (YES)...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) ACE

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) ACE

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) ACE

I certify that I attached a label with the unique LIMS number to each container (intial) ACE

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-162469

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	COC No: 500-120356.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin / Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin	Job #: 500-162469-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 5/8/2019		
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: Dairi Concepts - 03-05510	Project #: 50007204		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/5030B PVOC+NAP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1A (500-162469-1)	4/26/19	11:15 Central		Water			X	3	
MW-3A (500-162469-2)	4/26/19	13:00 Central		Water			X	3	
MW-4R (500-162469-3)	4/26/19	12:45 Central		Water			X	3	
MW-4A (500-162469-4)	4/26/19	12:15 Central		Water			X	3	
MW-5A (500-162469-5)	4/26/19	12:30 Central		Water			X	3	
MW-7 (500-162469-6)	4/26/19	11:45 Central		Water			X	3	
MW-W (500-162469-7)	4/26/19	12:00 Central		Water			X	3	
MW-10 (500-162469-8)	4/26/19	13:30 Central		Water			X	3	
TRIP BLANK (500-162469-9)	4/26/19	Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 4/30/19 1445	Company TA-CHI	Received by: [signature] Date/Time: 5/1/19 10:20 Company TA-MKE
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company
Relinquished by:	Date/Time:	Company	Received by: Date/Time: Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.7

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: American Engineering Testing Inc. Job Number: 500-162469-1

Login Number: 162469 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: James, Jeff A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	5.7
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica

REVIEWED
By mneal at 8:43 am, Jul 16, 2019

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-166427-1
Client Project/Site: Dairi Concepts - 03-05510

For:
American Engineering Testing Inc.
1837 Cty Hwy OO
Chippewa Falls, Wisconsin 54729

Attn: Mr. Michael Neal

Sandie Fredrick

Authorized for release by:
7/16/2019 8:23:35 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Laboratory Job ID: 500-166427-1

Table of Contents

Case Narrative

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Job ID: 500-166427-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-166427-1

Comments
No additional comments.

Receipt
The samples were received on 7/10/2019 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 10.1º C.

Receipt Exceptions
The following samples were received at the laboratory outside the required temperature criteria: MW-1A (500-166427-1), MW-3A (500-166427-2), MW-4R (500-166427-3), MW-4A (500-166427-4), MW-5A (500-166427-5), MW-7 (500-166427-6), MW-10 (500-166427-7), MW-W (500-166427-8), Trip Blank (500-166427-9), PW-1 (500-166427-10), PW-4 (500-166427-11), PW-5 (500-166427-12) and Strey Well (500-166427-13).

GC/MS VOA
Method(s) 524.2: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-481777 recovered outside control limits for the following analyte: Acetone. This analyte was biased high in the LCS and were not detected above the reporting limit in the associated samples; therefore, the data have been reported.

Method(s) 524.2: The low level laboratory control sample (LLCS) for analytical batch 480-481777 recovered outside control limits for the following analytes: Acetone and Methylene Chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 524.2: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 480-481777 recovered outside control limits for the following analyte: Acetone.

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

GC VOA
Method(s) WI-GRO: The method blank for analytical batch 490-606298 contained Methyl tert-butyl ether above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) WI-GRO: Surrogate recovery for the following samples were outside control limits: MW-3A (500-166427-2), MW-4R (500-166427-3), MW-4A (500-166427-4) and MW-10 (500-166427-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Detection Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Client Sample ID: MW-1A — Lab Sample ID: 500-166427-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.2		0.50	0.36	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	0.35	J B	0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-3A — Lab Sample ID: 500-166427-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	250		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	85		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	150		0.50	0.36	ug/L	1		WDNR	Total/NA
Ethylbenzene	120		0.50	0.37	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	15	B	0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	90		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	14000		50	33	ug/L	100		WDNR	Total/NA
Xylenes, Total	680		1.5	0.58	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-4R — Lab Sample ID: 500-166427-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3000		13	7.5	ug/L	25		WDNR	Total/NA
1,3,5-Trimethylbenzene	990		13	7.5	ug/L	25		WDNR	Total/NA
Benzene	760		13	9.0	ug/L	25		WDNR	Total/NA
Ethylbenzene	1000		13	9.3	ug/L	25		WDNR	Total/NA
Methyl tert-butyl ether	540	B	13	6.0	ug/L	25		WDNR	Total/NA
Naphthalene	1300		130	60	ug/L	25		WDNR	Total/NA
Toluene	230		13	8.3	ug/L	25		WDNR	Total/NA
Xylenes, Total	3200		38	15	ug/L	25		WDNR	Total/NA

Client Sample ID: MW-4A — Lab Sample ID: 500-166427-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	30		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	24		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	32		0.50	0.36	ug/L	1		WDNR	Total/NA
Ethylbenzene	50		0.50	0.37	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	14	B	0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	58		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	15		0.50	0.33	ug/L	1		WDNR	Total/NA
Xylenes, Total	67		1.5	0.58	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-5A — Lab Sample ID: 500-166427-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	42		0.50	0.30	ug/L	1		WDNR	Total/NA
1,3,5-Trimethylbenzene	13		0.50	0.30	ug/L	1		WDNR	Total/NA
Benzene	6.3		0.50	0.36	ug/L	1		WDNR	Total/NA
Ethylbenzene	6.8		0.50	0.37	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	4.7	B	0.50	0.24	ug/L	1		WDNR	Total/NA
Naphthalene	40		5.0	2.4	ug/L	1		WDNR	Total/NA
Toluene	0.78		0.50	0.33	ug/L	1		WDNR	Total/NA
Xylenes, Total	22		1.5	0.58	ug/L	1		WDNR	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Detection Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Client Sample ID: MW-7 — Lab Sample ID: 500-166427-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.2		0.50	0.36	ug/L	1		WDNR	Total/NA
Methyl tert-butyl ether	0.27	J B	0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 500-166427-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	3100		13	7.5	ug/L	25		WDNR	Total/NA
1,3,5-Trimethylbenzene	1000		13	7.5	ug/L	25		WDNR	Total/NA
Benzene	570		13	9.0	ug/L	25		WDNR	Total/NA
Ethylbenzene	1200		13	9.3	ug/L	25		WDNR	Total/NA
Methyl tert-butyl ether	460	B	13	6.0	ug/L	25		WDNR	Total/NA
Naphthalene	1400		130	60	ug/L	25		WDNR	Total/NA
Toluene	890		13	8.3	ug/L	25		WDNR	Total/NA
Xylenes, Total	3700		38	15	ug/L	25		WDNR	Total/NA

Client Sample ID: MW-W — Lab Sample ID: 500-166427-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.65		0.50	0.36	ug/L	1		WDNR	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-166427-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.27	J B	0.50	0.24	ug/L	1		WDNR	Total/NA

Client Sample ID: PW-1 — Lab Sample ID: 500-166427-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.5	J *	5.0	1.0	ug/L	1		524.2	Total/NA
Chloroform	0.28	J	0.50	0.14	ug/L	1		524.2	Total/NA

Client Sample ID: PW-4 — Lab Sample ID: 500-166427-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.0	J *	5.0	1.0	ug/L	1		524.2	Total/NA

Client Sample ID: PW-5 — Lab Sample ID: 500-166427-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.5	J *	5.0	1.0	ug/L	1		524.2	Total/NA

Client Sample ID: Strey Well — Lab Sample ID: 500-166427-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1.8	J *	5.0	1.0	ug/L	1		524.2	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL BUF
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
5030B	Purge and Trap	SW846	TAL NSH

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-166427-1	MW-1A	Water	07/09/19 09:30	07/10/19 09:10	
500-166427-2	MW-3A	Water	07/09/19 12:30	07/10/19 09:10	
500-166427-3	MW-4R	Water	07/09/19 12:00	07/10/19 09:10	
500-166427-4	MW-4A	Water	07/09/19 11:30	07/10/19 09:10	
500-166427-5	MW-5A	Water	07/09/19 11:00	07/10/19 09:10	
500-166427-6	MW-7	Water	07/09/19 10:00	07/10/19 09:10	
500-166427-7	MW-10	Water	07/09/19 13:00	07/10/19 09:10	
500-166427-8	MW-W	Water	07/09/19 10:30	07/10/19 09:10	
500-166427-9	Trip Blank	Water	07/09/19 00:00	07/10/19 09:10	
500-166427-10	PW-1	Water	07/09/19 14:00	07/10/19 09:10	
500-166427-11	PW-4	Water	07/09/19 13:30	07/10/19 09:10	
500-166427-12	PW-5	Water	07/09/19 13:45	07/10/19 09:10	
500-166427-13	Strey Well	Water	07/09/19 14:15	07/10/19 09:10	

Client Sample Results

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: MW-1A
Lab Sample ID: 500-166427-1
Date Collected: 07/09/19 09:30
Matrix: Water
Date Received: 07/10/19 09:10

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			07/12/19 18:52	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			07/12/19 18:52	1
Benzene	**1.2**		0.50	0.36	ug/L			07/12/19 18:52	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			07/12/19 18:52	1
Methyl tert-butyl ether	**0.35**	**J B**	0.50	0.24	ug/L			07/12/19 18:52	1
Naphthalene	<2.4		5.0	2.4	ug/L			07/12/19 18:52	1
Toluene	<0.33		0.50	0.33	ug/L			07/12/19 18:52	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			07/12/19 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*80 - 120*		*07/12/19 18:52*	*1*

Client Sample ID: MW-3A
Lab Sample ID: 500-166427-2
Date Collected: 07/09/19 12:30
Matrix: Water
Date Received: 07/10/19 09:10

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**250**		0.50	0.30	ug/L			07/13/19 02:42	1
1,3,5-Trimethylbenzene	**85**		0.50	0.30	ug/L			07/13/19 02:42	1
Benzene	**150**		0.50	0.36	ug/L			07/13/19 02:42	1
Ethylbenzene	**120**		0.50	0.37	ug/L			07/13/19 02:42	1
Methyl tert-butyl ether	**15**	**B**	0.50	0.24	ug/L			07/13/19 02:42	1
Naphthalene	**90**		5.0	2.4	ug/L			07/13/19 02:42	1
Toluene	**14000**		50	33	ug/L			07/13/19 04:16	100
Xylenes, Total	**680**		1.5	0.58	ug/L			07/13/19 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*211*	*X*	*80 - 120*		*07/13/19 02:42*	*1*
a,a,a-Trifluorotoluene	*138*	*X*	*80 - 120*		*07/13/19 04:16*	*100*

Client Sample ID: MW-4R
Lab Sample ID: 500-166427-3
Date Collected: 07/09/19 12:00
Matrix: Water
Date Received: 07/10/19 09:10

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**3000**		13	7.5	ug/L			07/13/19 05:18	25
1,3,5-Trimethylbenzene	**990**		13	7.5	ug/L			07/13/19 05:18	25
Benzene	**760**		13	9.0	ug/L			07/13/19 05:18	25
Ethylbenzene	**1000**		13	9.3	ug/L			07/13/19 05:18	25
Methyl tert-butyl ether	**540**	**B**	13	6.0	ug/L			07/13/19 05:18	25
Naphthalene	**1300**		130	60	ug/L			07/13/19 05:18	25
Toluene	**230**		13	8.3	ug/L			07/13/19 05:18	25
Xylenes, Total	**3200**		38	15	ug/L			07/13/19 05:18	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*186*	*X*	*80 - 120*		*07/13/19 05:18*	*25*

Client Sample Results

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: MW-4A — Lab Sample ID: 500-166427-4

Date Collected: 07/09/19 11:30 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	30		0.50	0.30	ug/L			07/12/19 19:55	1
1,3,5-Trimethylbenzene	24		0.50	0.30	ug/L			07/12/19 19:55	1
Benzene	32		0.50	0.36	ug/L			07/12/19 19:55	1
Ethylbenzene	50		0.50	0.37	ug/L			07/12/19 19:55	1
Methyl tert-butyl ether	14	B	0.50	0.24	ug/L			07/12/19 19:55	1
Naphthalene	58		5.0	2.4	ug/L			07/12/19 19:55	1
Toluene	15		0.50	0.33	ug/L			07/12/19 19:55	1
Xylenes, Total	67		1.5	0.58	ug/L			07/12/19 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*154*	*X*	*80 - 120*		*07/12/19 19:55*	*1*

Client Sample ID: MW-5A — Lab Sample ID: 500-166427-5

Date Collected: 07/09/19 11:00 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	42		0.50	0.30	ug/L			07/12/19 21:29	1
1,3,5-Trimethylbenzene	13		0.50	0.30	ug/L			07/12/19 21:29	1
Benzene	6.3		0.50	0.36	ug/L			07/12/19 21:29	1
Ethylbenzene	6.8		0.50	0.37	ug/L			07/12/19 21:29	1
Methyl tert-butyl ether	4.7	B	0.50	0.24	ug/L			07/12/19 21:29	1
Naphthalene	40		5.0	2.4	ug/L			07/12/19 21:29	1
Toluene	0.78		0.50	0.33	ug/L			07/12/19 21:29	1
Xylenes, Total	22		1.5	0.58	ug/L			07/12/19 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*80 - 120*		*07/12/19 21:29*	*1*

Client Sample ID: MW-7 — Lab Sample ID: 500-166427-6

Date Collected: 07/09/19 10:00 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			07/12/19 19:24	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			07/12/19 19:24	1
Benzene	3.2		0.50	0.36	ug/L			07/12/19 19:24	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			07/12/19 19:24	1
Methyl tert-butyl ether	0.27	J B	0.50	0.24	ug/L			07/12/19 19:24	1
Naphthalene	<2.4		5.0	2.4	ug/L			07/12/19 19:24	1
Toluene	<0.33		0.50	0.33	ug/L			07/12/19 19:24	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			07/12/19 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*80 - 120*		*07/12/19 19:24*	*1*

Client Sample Results

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: MW-10 — Lab Sample ID: 500-166427-7

Date Collected: 07/09/19 13:00 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	3100		13	7.5	ug/L			07/13/19 00:06	25
1,3,5-Trimethylbenzene	1000		13	7.5	ug/L			07/13/19 00:06	25
Benzene	570		13	9.0	ug/L			07/13/19 00:06	25
Ethylbenzene	1200		13	9.3	ug/L			07/13/19 00:06	25
Methyl tert-butyl ether	460	B	13	6.0	ug/L			07/13/19 00:06	25
Naphthalene	1400		130	60	ug/L			07/13/19 00:06	25
Toluene	890		13	8.3	ug/L			07/13/19 00:06	25
Xylenes, Total	3700		38	15	ug/L			07/13/19 00:06	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*157*	*X*	*80 - 120*		*07/13/19 00:06*	*25*

Client Sample ID: MW-W — Lab Sample ID: 500-166427-8

Date Collected: 07/09/19 10:30 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			07/12/19 16:46	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			07/12/19 16:46	1
Benzene	0.65		0.50	0.36	ug/L			07/12/19 16:46	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			07/12/19 16:46	1
Methyl tert-butyl ether	<0.24		0.50	0.24	ug/L			07/12/19 16:46	1
Naphthalene	<2.4		5.0	2.4	ug/L			07/12/19 16:46	1
Toluene	<0.33		0.50	0.33	ug/L			07/12/19 16:46	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			07/12/19 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*80 - 120*		*07/12/19 16:46*	*1*

Client Sample ID: Trip Blank — Lab Sample ID: 500-166427-9

Date Collected: 07/09/19 00:00 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			07/12/19 16:15	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			07/12/19 16:15	1
Benzene	<0.36		0.50	0.36	ug/L			07/12/19 16:15	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			07/12/19 16:15	1
Methyl tert-butyl ether	0.27	J B	0.50	0.24	ug/L			07/12/19 16:15	1
Naphthalene	<2.4		5.0	2.4	ug/L			07/12/19 16:15	1
Toluene	<0.33		0.50	0.33	ug/L			07/12/19 16:15	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			07/12/19 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*80 - 120*		*07/12/19 16:15*	*1*

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Client Sample ID: PW-1

Date Collected: 07/09/19 14:00
Date Received: 07/10/19 09:10

Lab Sample ID: 500-166427-10

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.14		0.50	0.14	ug/L			07/12/19 12:08	1
1,1,1-Trichloroethane	<0.21		0.50	0.21	ug/L			07/12/19 12:08	1
1,1,2,2-Tetrachloroethane	<0.070		0.50	0.070	ug/L			07/12/19 12:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.17		0.50	0.17	ug/L			07/12/19 12:08	1
1,1,2-Trichloroethane	<0.17		0.50	0.17	ug/L			07/12/19 12:08	1
1,1-Dichloroethane	<0.18		0.50	0.18	ug/L			07/12/19 12:08	1
1,1-Dichloroethene	<0.16		0.50	0.16	ug/L			07/12/19 12:08	1
1,1-Dichloropropene	<0.063		0.50	0.063	ug/L			07/12/19 12:08	1
1,2,3-Trichlorobenzene	<0.16		0.50	0.16	ug/L			07/12/19 12:08	1
1,2,3-Trichloropropane	<0.12		0.50	0.12	ug/L			07/12/19 12:08	1
1,2,4-Trichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
1,2,4-Trimethylbenzene	<0.090		0.50	0.090	ug/L			07/12/19 12:08	1
1,2-Dichlorobenzene	<0.16		0.50	0.16	ug/L			07/12/19 12:08	1
1,2-Dichloroethane	<0.14		0.50	0.14	ug/L			07/12/19 12:08	1
1,2-Dichloropropane	<0.11		0.50	0.11	ug/L			07/12/19 12:08	1
1,3,5-Trimethylbenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
1,3-Dichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
1,3-Dichloropropane	<0.15		0.50	0.15	ug/L			07/12/19 12:08	1
1,4-Dichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
2,2-Dichloropropane	<0.35		0.50	0.35	ug/L			07/12/19 12:08	1
2-Butanone (MEK)	<1.0		5.0	1.0	ug/L			07/12/19 12:08	1
2-Chlorotoluene	<0.12		0.50	0.12	ug/L			07/12/19 12:08	1
2-Hexanone	<1.0		5.0	1.0	ug/L			07/12/19 12:08	1
4-Chlorotoluene	<0.15		0.50	0.15	ug/L			07/12/19 12:08	1
4-Isopropyltoluene	<0.063		0.50	0.063	ug/L			07/12/19 12:08	1
4-Methyl-2-pentanone (MIBK)	<1.0		5.0	1.0	ug/L			07/12/19 12:08	1
Acetone	**2.5**	**J ***	5.0	1.0	ug/L			07/12/19 12:08	1
Acrylonitrile	<2.2		10	2.2	ug/L			07/12/19 12:08	1
Allyl chloride	<0.22		0.50	0.22	ug/L			07/12/19 12:08	1
Benzene	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
Bromobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
Bromochloromethane	<0.11		0.50	0.11	ug/L			07/12/19 12:08	1
Bromoform	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
Bromomethane	<0.23		0.50	0.23	ug/L			07/12/19 12:08	1
Carbon disulfide	<0.15		0.50	0.15	ug/L			07/12/19 12:08	1
Carbon tetrachloride	<0.21		0.50	0.21	ug/L			07/12/19 12:08	1
Chlorobenzene	<0.12		0.50	0.12	ug/L			07/12/19 12:08	1
Chlorodibromomethane	<0.16		0.50	0.16	ug/L			07/12/19 12:08	1
Chloroethane	<0.20		0.50	0.20	ug/L			07/12/19 12:08	1
Chloroform	**0.28**	**J**	0.50	0.14	ug/L			07/12/19 12:08	1
Chloromethane	<0.17		0.50	0.17	ug/L			07/12/19 12:08	1
cis-1,2-Dichloroethene	<0.12		0.50	0.12	ug/L			07/12/19 12:08	1
cis-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			07/12/19 12:08	1
Dibromomethane	<0.17		0.50	0.17	ug/L			07/12/19 12:08	1
Dichlorobromomethane	<0.14		0.50	0.14	ug/L			07/12/19 12:08	1
Dichlorodifluoromethane	<0.15		0.50	0.15	ug/L			07/12/19 12:08	1
Dichlorofluoromethane	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
Ethyl ether	<0.12		0.50	0.12	ug/L			07/12/19 12:08	1
Ethylbenzene	<0.11		0.50	0.11	ug/L			07/12/19 12:08	1

Client Sample Results

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: PW-1 Lab Sample ID: 500-166427-10

Date Collected: 07/09/19 14:00 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.11		0.50	0.11	ug/L			07/12/19 12:08	1
Iodomethane	<0.15		0.50	0.15	ug/L			07/12/19 12:08	1
Isopropylbenzene	<0.16		0.50	0.16	ug/L			07/12/19 12:08	1
Methyl tert-butyl ether	<0.12		0.50	0.12	ug/L			07/12/19 12:08	1
Methylene Chloride	<0.99	*	2.5	0.99	ug/L			07/12/19 12:08	1
m-Xylene & p-Xylene	<0.30		1.0	0.30	ug/L			07/12/19 12:08	1
Naphthalene	<0.15		0.50	0.15	ug/L			07/12/19 12:08	1
n-Butylbenzene	<0.081		0.50	0.081	ug/L			07/12/19 12:08	1
N-Propylbenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
o-Xylene	<0.12		0.50	0.12	ug/L			07/12/19 12:08	1
sec-Butylbenzene	<0.068		0.50	0.068	ug/L			07/12/19 12:08	1
Styrene	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
t-Butanol	<2.5		10	2.5	ug/L			07/12/19 12:08	1
tert-Butylbenzene	<0.060		0.50	0.060	ug/L			07/12/19 12:08	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			07/12/19 12:08	1
Toluene	<0.10		0.50	0.10	ug/L			07/12/19 12:08	1
trans-1,2-Dichloroethene	<0.13		0.50	0.13	ug/L			07/12/19 12:08	1
trans-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			07/12/19 12:08	1
trans-1,4-Dichloro-2-butene	<1.3		2.5	1.3	ug/L			07/12/19 12:08	1
Trichloroethene	<0.18		0.50	0.18	ug/L			07/12/19 12:08	1
Trichlorofluoromethane	<0.19		0.50	0.19	ug/L			07/12/19 12:08	1
Trihalomethanes, Total	<1.0		2.0	1.0	ug/L			07/12/19 12:08	1
Vinyl acetate	<0.45		2.5	0.45	ug/L			07/12/19 12:08	1
Vinyl chloride	<0.18		0.50	0.18	ug/L			07/12/19 12:08	1
Xylenes, Total	<0.12		1.0	0.12	ug/L			07/12/19 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*07/12/19 12:08*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*07/12/19 12:08*	*1*

Client Sample ID: PW-4 Lab Sample ID: 500-166427-11

Date Collected: 07/09/19 13:30 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.14		0.50	0.14	ug/L			07/12/19 12:33	1
1,1,1-Trichloroethane	<0.21		0.50	0.21	ug/L			07/12/19 12:33	1
1,1,2,2-Tetrachloroethane	<0.070		0.50	0.070	ug/L			07/12/19 12:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.17		0.50	0.17	ug/L			07/12/19 12:33	1
1,1,2-Trichloroethane	<0.17		0.50	0.17	ug/L			07/12/19 12:33	1
1,1-Dichloroethane	<0.18		0.50	0.18	ug/L			07/12/19 12:33	1
1,1-Dichloroethene	<0.16		0.50	0.16	ug/L			07/12/19 12:33	1
1,1-Dichloropropene	<0.063		0.50	0.063	ug/L			07/12/19 12:33	1
1,2,3-Trichlorobenzene	<0.16		0.50	0.16	ug/L			07/12/19 12:33	1
1,2,3-Trichloropropane	<0.12		0.50	0.12	ug/L			07/12/19 12:33	1
1,2,4-Trichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
1,2,4-Trimethylbenzene	<0.090		0.50	0.090	ug/L			07/12/19 12:33	1
1,2-Dichlorobenzene	<0.16		0.50	0.16	ug/L			07/12/19 12:33	1
1,2-Dichloroethane	<0.14		0.50	0.14	ug/L			07/12/19 12:33	1

Client Sample Results

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: PW-4 Lab Sample ID: 500-166427-11

Date Collected: 07/09/19 13:30 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<0.11		0.50	0.11	ug/L			07/12/19 12:33	1
1,3,5-Trimethylbenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
1,3-Dichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
1,3-Dichloropropane	<0.15		0.50	0.15	ug/L			07/12/19 12:33	1
1,4-Dichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
2,2-Dichloropropane	<0.35		0.50	0.35	ug/L			07/12/19 12:33	1
2-Butanone (MEK)	<1.0		5.0	1.0	ug/L			07/12/19 12:33	1
2-Chlorotoluene	<0.12		0.50	0.12	ug/L			07/12/19 12:33	1
2-Hexanone	<1.0		5.0	1.0	ug/L			07/12/19 12:33	1
4-Chlorotoluene	<0.15		0.50	0.15	ug/L			07/12/19 12:33	1
4-Isopropyltoluene	<0.063		0.50	0.063	ug/L			07/12/19 12:33	1
4-Methyl-2-pentanone (MIBK)	<1.0		5.0	1.0	ug/L			07/12/19 12:33	1
Acetone	**2.0**	**J ***	5.0	1.0	ug/L			07/12/19 12:33	1
Acrylonitrile	<2.2		10	2.2	ug/L			07/12/19 12:33	1
Allyl chloride	<0.22		0.50	0.22	ug/L			07/12/19 12:33	1
Benzene	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
Bromobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
Bromochloromethane	<0.11		0.50	0.11	ug/L			07/12/19 12:33	1
Bromoform	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
Bromomethane	<0.23		0.50	0.23	ug/L			07/12/19 12:33	1
Carbon disulfide	<0.15		0.50	0.15	ug/L			07/12/19 12:33	1
Carbon tetrachloride	<0.21		0.50	0.21	ug/L			07/12/19 12:33	1
Chlorobenzene	<0.12		0.50	0.12	ug/L			07/12/19 12:33	1
Chlorodibromomethane	<0.16		0.50	0.16	ug/L			07/12/19 12:33	1
Chloroethane	<0.20		0.50	0.20	ug/L			07/12/19 12:33	1
Chloroform	<0.14		0.50	0.14	ug/L			07/12/19 12:33	1
Chloromethane	<0.17		0.50	0.17	ug/L			07/12/19 12:33	1
cis-1,2-Dichloroethene	<0.12		0.50	0.12	ug/L			07/12/19 12:33	1
cis-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			07/12/19 12:33	1
Dibromomethane	<0.17		0.50	0.17	ug/L			07/12/19 12:33	1
Dichlorobromomethane	<0.14		0.50	0.14	ug/L			07/12/19 12:33	1
Dichlorodifluoromethane	<0.15		0.50	0.15	ug/L			07/12/19 12:33	1
Dichlorofluoromethane	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
Ethyl ether	<0.12		0.50	0.12	ug/L			07/12/19 12:33	1
Ethylbenzene	<0.11		0.50	0.11	ug/L			07/12/19 12:33	1
Hexachlorobutadiene	<0.11		0.50	0.11	ug/L			07/12/19 12:33	1
Iodomethane	<0.15		0.50	0.15	ug/L			07/12/19 12:33	1
Isopropylbenzene	<0.16		0.50	0.16	ug/L			07/12/19 12:33	1
Methyl tert-butyl ether	<0.12		0.50	0.12	ug/L			07/12/19 12:33	1
Methylene Chloride	<0.99	*	2.5	0.99	ug/L			07/12/19 12:33	1
m-Xylene & p-Xylene	<0.30		1.0	0.30	ug/L			07/12/19 12:33	1
Naphthalene	<0.15		0.50	0.15	ug/L			07/12/19 12:33	1
n-Butylbenzene	<0.081		0.50	0.081	ug/L			07/12/19 12:33	1
N-Propylbenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
o-Xylene	<0.12		0.50	0.12	ug/L			07/12/19 12:33	1
sec-Butylbenzene	<0.068		0.50	0.068	ug/L			07/12/19 12:33	1
Styrene	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
t-Butanol	<2.5		10	2.5	ug/L			07/12/19 12:33	1
tert-Butylbenzene	<0.060		0.50	0.060	ug/L			07/12/19 12:33	1

Client Sample Results

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: PW-4 Lab Sample ID: 500-166427-11

Date Collected: 07/09/19 13:30 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.20		0.50	0.20	ug/L			07/12/19 12:33	1
Toluene	<0.10		0.50	0.10	ug/L			07/12/19 12:33	1
trans-1,2-Dichloroethene	<0.13		0.50	0.13	ug/L			07/12/19 12:33	1
trans-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			07/12/19 12:33	1
trans-1,4-Dichloro-2-butene	<1.3		2.5	1.3	ug/L			07/12/19 12:33	1
Trichloroethene	<0.18		0.50	0.18	ug/L			07/12/19 12:33	1
Trichlorofluoromethane	<0.19		0.50	0.19	ug/L			07/12/19 12:33	1
Trihalomethanes, Total	<1.0		2.0	1.0	ug/L			07/12/19 12:33	1
Vinyl acetate	<0.45		2.5	0.45	ug/L			07/12/19 12:33	1
Vinyl chloride	<0.18		0.50	0.18	ug/L			07/12/19 12:33	1
Xylenes, Total	<0.12		1.0	0.12	ug/L			07/12/19 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*07/12/19 12:33*	*1*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*		*07/12/19 12:33*	*1*

Client Sample ID: PW-5 Lab Sample ID: 500-166427-12

Date Collected: 07/09/19 13:45 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.14		0.50	0.14	ug/L			07/12/19 12:58	1
1,1,1-Trichloroethane	<0.21		0.50	0.21	ug/L			07/12/19 12:58	1
1,1,2,2-Tetrachloroethane	<0.070		0.50	0.070	ug/L			07/12/19 12:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.17		0.50	0.17	ug/L			07/12/19 12:58	1
1,1,2-Trichloroethane	<0.17		0.50	0.17	ug/L			07/12/19 12:58	1
1,1-Dichloroethane	<0.18		0.50	0.18	ug/L			07/12/19 12:58	1
1,1-Dichloroethene	<0.16		0.50	0.16	ug/L			07/12/19 12:58	1
1,1-Dichloropropene	<0.063		0.50	0.063	ug/L			07/12/19 12:58	1
1,2,3-Trichlorobenzene	<0.16		0.50	0.16	ug/L			07/12/19 12:58	1
1,2,3-Trichloropropane	<0.12		0.50	0.12	ug/L			07/12/19 12:58	1
1,2,4-Trichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
1,2,4-Trimethylbenzene	<0.090		0.50	0.090	ug/L			07/12/19 12:58	1
1,2-Dichlorobenzene	<0.16		0.50	0.16	ug/L			07/12/19 12:58	1
1,2-Dichloroethane	<0.14		0.50	0.14	ug/L			07/12/19 12:58	1
1,2-Dichloropropane	<0.11		0.50	0.11	ug/L			07/12/19 12:58	1
1,3,5-Trimethylbenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
1,3-Dichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
1,3-Dichloropropane	<0.15		0.50	0.15	ug/L			07/12/19 12:58	1
1,4-Dichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
2,2-Dichloropropane	<0.35		0.50	0.35	ug/L			07/12/19 12:58	1
2-Butanone (MEK)	<1.0		5.0	1.0	ug/L			07/12/19 12:58	1
2-Chlorotoluene	<0.12		0.50	0.12	ug/L			07/12/19 12:58	1
2-Hexanone	<1.0		5.0	1.0	ug/L			07/12/19 12:58	1
4-Chlorotoluene	<0.15		0.50	0.15	ug/L			07/12/19 12:58	1
4-Isopropyltoluene	<0.063		0.50	0.063	ug/L			07/12/19 12:58	1
4-Methyl-2-pentanone (MIBK)	<1.0		5.0	1.0	ug/L			07/12/19 12:58	1
Acetone	**1.5**	**J ***	5.0	1.0	ug/L			07/12/19 12:58	1
Acrylonitrile	<2.2		10	2.2	ug/L			07/12/19 12:58	1

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Client Sample ID: PW-5

Date Collected: 07/09/19 13:45
Date Received: 07/10/19 09:10

Lab Sample ID: 500-166427-12

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Allyl chloride	<0.22		0.50	0.22	ug/L			07/12/19 12:58	1
Benzene	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
Bromobenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
Bromochloromethane	<0.11		0.50	0.11	ug/L			07/12/19 12:58	1
Bromoform	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
Bromomethane	<0.23		0.50	0.23	ug/L			07/12/19 12:58	1
Carbon disulfide	<0.15		0.50	0.15	ug/L			07/12/19 12:58	1
Carbon tetrachloride	<0.21		0.50	0.21	ug/L			07/12/19 12:58	1
Chlorobenzene	<0.12		0.50	0.12	ug/L			07/12/19 12:58	1
Chlorodibromomethane	<0.16		0.50	0.16	ug/L			07/12/19 12:58	1
Chloroethane	<0.20		0.50	0.20	ug/L			07/12/19 12:58	1
Chloroform	<0.14		0.50	0.14	ug/L			07/12/19 12:58	1
Chloromethane	<0.17		0.50	0.17	ug/L			07/12/19 12:58	1
cis-1,2-Dichloroethene	<0.12		0.50	0.12	ug/L			07/12/19 12:58	1
cis-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			07/12/19 12:58	1
Dibromomethane	<0.17		0.50	0.17	ug/L			07/12/19 12:58	1
Dichlorobromomethane	<0.14		0.50	0.14	ug/L			07/12/19 12:58	1
Dichlorodifluoromethane	<0.15		0.50	0.15	ug/L			07/12/19 12:58	1
Dichlorofluoromethane	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
Ethyl ether	<0.12		0.50	0.12	ug/L			07/12/19 12:58	1
Ethylbenzene	<0.11		0.50	0.11	ug/L			07/12/19 12:58	1
Hexachlorobutadiene	<0.11		0.50	0.11	ug/L			07/12/19 12:58	1
Iodomethane	<0.15		0.50	0.15	ug/L			07/12/19 12:58	1
Isopropylbenzene	<0.16		0.50	0.16	ug/L			07/12/19 12:58	1
Methyl tert-butyl ether	<0.12		0.50	0.12	ug/L			07/12/19 12:58	1
Methylene Chloride	<0.99	*	2.5	0.99	ug/L			07/12/19 12:58	1
m-Xylene & p-Xylene	<0.30		1.0	0.30	ug/L			07/12/19 12:58	1
Naphthalene	<0.15		0.50	0.15	ug/L			07/12/19 12:58	1
n-Butylbenzene	<0.081		0.50	0.081	ug/L			07/12/19 12:58	1
N-Propylbenzene	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
o-Xylene	<0.12		0.50	0.12	ug/L			07/12/19 12:58	1
sec-Butylbenzene	<0.068		0.50	0.068	ug/L			07/12/19 12:58	1
Styrene	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
t-Butanol	<2.5		10	2.5	ug/L			07/12/19 12:58	1
tert-Butylbenzene	<0.060		0.50	0.060	ug/L			07/12/19 12:58	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			07/12/19 12:58	1
Toluene	<0.10		0.50	0.10	ug/L			07/12/19 12:58	1
trans-1,2-Dichloroethene	<0.13		0.50	0.13	ug/L			07/12/19 12:58	1
trans-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			07/12/19 12:58	1
trans-1,4-Dichloro-2-butene	<1.3		2.5	1.3	ug/L			07/12/19 12:58	1
Trichloroethene	<0.18		0.50	0.18	ug/L			07/12/19 12:58	1
Trichlorofluoromethane	<0.19		0.50	0.19	ug/L			07/12/19 12:58	1
Trihalomethanes, Total	<1.0		2.0	1.0	ug/L			07/12/19 12:58	1
Vinyl acetate	<0.45		2.5	0.45	ug/L			07/12/19 12:58	1
Vinyl chloride	<0.18		0.50	0.18	ug/L			07/12/19 12:58	1
Xylenes, Total	<0.12		1.0	0.12	ug/L			07/12/19 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*105*		*80 - 120*		*07/12/19 12:58*	*1*
4-Bromofluorobenzene (Surr)	*89*		*80 - 120*		*07/12/19 12:58*	*1*

Client Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Client Sample ID: Strey Well

Date Collected: 07/09/19 14:15
Date Received: 07/10/19 09:10

Lab Sample ID: 500-166427-13

Matrix: Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.14		0.50	0.14	ug/L			07/12/19 13:22	1
1,1,1-Trichloroethane	<0.21		0.50	0.21	ug/L			07/12/19 13:22	1
1,1,2,2-Tetrachloroethane	<0.070		0.50	0.070	ug/L			07/12/19 13:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.17		0.50	0.17	ug/L			07/12/19 13:22	1
1,1,2-Trichloroethane	<0.17		0.50	0.17	ug/L			07/12/19 13:22	1
1,1-Dichloroethane	<0.18		0.50	0.18	ug/L			07/12/19 13:22	1
1,1-Dichloroethene	<0.16		0.50	0.16	ug/L			07/12/19 13:22	1
1,1-Dichloropropene	<0.063		0.50	0.063	ug/L			07/12/19 13:22	1
1,2,3-Trichlorobenzene	<0.16		0.50	0.16	ug/L			07/12/19 13:22	1
1,2,3-Trichloropropane	<0.12		0.50	0.12	ug/L			07/12/19 13:22	1
1,2,4-Trichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
1,2,4-Trimethylbenzene	<0.090		0.50	0.090	ug/L			07/12/19 13:22	1
1,2-Dichlorobenzene	<0.16		0.50	0.16	ug/L			07/12/19 13:22	1
1,2-Dichloroethane	<0.14		0.50	0.14	ug/L			07/12/19 13:22	1
1,2-Dichloropropane	<0.11		0.50	0.11	ug/L			07/12/19 13:22	1
1,3,5-Trimethylbenzene	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
1,3-Dichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
1,3-Dichloropropane	<0.15		0.50	0.15	ug/L			07/12/19 13:22	1
1,4-Dichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
2,2-Dichloropropane	<0.35		0.50	0.35	ug/L			07/12/19 13:22	1
2-Butanone (MEK)	<1.0		5.0	1.0	ug/L			07/12/19 13:22	1
2-Chlorotoluene	<0.12		0.50	0.12	ug/L			07/12/19 13:22	1
2-Hexanone	<1.0		5.0	1.0	ug/L			07/12/19 13:22	1
4-Chlorotoluene	<0.15		0.50	0.15	ug/L			07/12/19 13:22	1
4-Isopropyltoluene	<0.063		0.50	0.063	ug/L			07/12/19 13:22	1
4-Methyl-2-pentanone (MIBK)	<1.0		5.0	1.0	ug/L			07/12/19 13:22	1
Acetone	**1.8**	**J ***	5.0	1.0	ug/L			07/12/19 13:22	1
Acrylonitrile	<2.2		10	2.2	ug/L			07/12/19 13:22	1
Allyl chloride	<0.22		0.50	0.22	ug/L			07/12/19 13:22	1
Benzene	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
Bromobenzene	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
Bromochloromethane	<0.11		0.50	0.11	ug/L			07/12/19 13:22	1
Bromoform	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
Bromomethane	<0.23		0.50	0.23	ug/L			07/12/19 13:22	1
Carbon disulfide	<0.15		0.50	0.15	ug/L			07/12/19 13:22	1
Carbon tetrachloride	<0.21		0.50	0.21	ug/L			07/12/19 13:22	1
Chlorobenzene	<0.12		0.50	0.12	ug/L			07/12/19 13:22	1
Chlorodibromomethane	<0.16		0.50	0.16	ug/L			07/12/19 13:22	1
Chloroethane	<0.20		0.50	0.20	ug/L			07/12/19 13:22	1
Chloroform	<0.14		0.50	0.14	ug/L			07/12/19 13:22	1
Chloromethane	<0.17		0.50	0.17	ug/L			07/12/19 13:22	1
cis-1,2-Dichloroethene	<0.12		0.50	0.12	ug/L			07/12/19 13:22	1
cis-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			07/12/19 13:22	1
Dibromomethane	<0.17		0.50	0.17	ug/L			07/12/19 13:22	1
Dichlorobromomethane	<0.14		0.50	0.14	ug/L			07/12/19 13:22	1
Dichlorodifluoromethane	<0.15		0.50	0.15	ug/L			07/12/19 13:22	1
Dichlorofluoromethane	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
Ethyl ether	<0.12		0.50	0.12	ug/L			07/12/19 13:22	1
Ethylbenzene	<0.11		0.50	0.11	ug/L			07/12/19 13:22	1

Client Sample Results

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: Strey Well — Lab Sample ID: 500-166427-13

Date Collected: 07/09/19 14:15 **Matrix: Water**
Date Received: 07/10/19 09:10

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.11		0.50	0.11	ug/L			07/12/19 13:22	1
Iodomethane	<0.15		0.50	0.15	ug/L			07/12/19 13:22	1
Isopropylbenzene	<0.16		0.50	0.16	ug/L			07/12/19 13:22	1
Methyl tert-butyl ether	<0.12		0.50	0.12	ug/L			07/12/19 13:22	1
Methylene Chloride	<0.99	*	2.5	0.99	ug/L			07/12/19 13:22	1
m-Xylene & p-Xylene	<0.30		1.0	0.30	ug/L			07/12/19 13:22	1
Naphthalene	<0.15		0.50	0.15	ug/L			07/12/19 13:22	1
n-Butylbenzene	<0.081		0.50	0.081	ug/L			07/12/19 13:22	1
N-Propylbenzene	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
o-Xylene	<0.12		0.50	0.12	ug/L			07/12/19 13:22	1
sec-Butylbenzene	<0.068		0.50	0.068	ug/L			07/12/19 13:22	1
Styrene	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
t-Butanol	<2.5		10	2.5	ug/L			07/12/19 13:22	1
tert-Butylbenzene	<0.060		0.50	0.060	ug/L			07/12/19 13:22	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			07/12/19 13:22	1
Toluene	<0.10		0.50	0.10	ug/L			07/12/19 13:22	1
trans-1,2-Dichloroethene	<0.13		0.50	0.13	ug/L			07/12/19 13:22	1
trans-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			07/12/19 13:22	1
trans-1,4-Dichloro-2-butene	<1.3		2.5	1.3	ug/L			07/12/19 13:22	1
Trichloroethene	<0.18		0.50	0.18	ug/L			07/12/19 13:22	1
Trichlorofluoromethane	<0.19		0.50	0.19	ug/L			07/12/19 13:22	1
Trihalomethanes, Total	<1.0		2.0	1.0	ug/L			07/12/19 13:22	1
Vinyl acetate	<0.45		2.5	0.45	ug/L			07/12/19 13:22	1
Vinyl chloride	<0.18		0.50	0.18	ug/L			07/12/19 13:22	1
Xylenes, Total	<0.12		1.0	0.12	ug/L			07/12/19 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*		*07/12/19 13:22*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*07/12/19 13:22*	*1*

Definitions/Glossary

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

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 Association Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

GC/MS VOA

Analysis Batch: 481777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166427-10	PW-1	Total/NA	Water	524.2	
500-166427-11	PW-4	Total/NA	Water	524.2	
500-166427-12	PW-5	Total/NA	Water	524.2	
500-166427-13	Strey Well	Total/NA	Water	524.2	
MB 480-481777/7	Method Blank	Total/NA	Water	524.2	
LCS 480-481777/4	Lab Control Sample	Total/NA	Water	524.2	
LCSD 480-481777/5	Lab Control Sample Dup	Total/NA	Water	524.2	
LLCS 480-481777/6	Lab Control Sample	Total/NA	Water	524.2	

GC VOA

Analysis Batch: 606298

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-166427-1	MW-1A	Total/NA	Water	WDNR	
500-166427-2	MW-3A	Total/NA	Water	WDNR	
500-166427-2	MW-3A	Total/NA	Water	WDNR	
500-166427-3	MW-4R	Total/NA	Water	WDNR	
500-166427-4	MW-4A	Total/NA	Water	WDNR	
500-166427-5	MW-5A	Total/NA	Water	WDNR	
500-166427-6	MW-7	Total/NA	Water	WDNR	
500-166427-7	MW-10	Total/NA	Water	WDNR	
500-166427-8	MW-W	Total/NA	Water	WDNR	
500-166427-9	Trip Blank	Total/NA	Water	WDNR	
MB 490-606298/4	Method Blank	Total/NA	Water	WDNR	
LCS 490-606298/3	Lab Control Sample	Total/NA	Water	WDNR	
LCSD 490-606298/34	Lab Control Sample Dup	Total/NA	Water	WDNR	
500-166427-8 MS	MW-W	Total/NA	Water	WDNR	
500-166427-8 MSD	MW-W	Total/NA	Water	WDNR	

Surrogate Summary

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCZ (80-120)	BFB (80-120)
500-166427-10	PW-1	102	91
500-166427-11	PW-4	103	90
500-166427-12	PW-5	105	89
500-166427-13	Strey Well	102	91
LCS 480-481777/4	Lab Control Sample	102	98
LCSD 480-481777/5	Lab Control Sample Dup	101	98
LLCS 480-481777/6	Lab Control Sample	100	95
MB 480-481777/7	Method Blank	103	91

Surrogate Legend

DCZ = 1,2-Dichlorobenzene-d4
BFB = 4-Bromofluorobenzene (Surr)

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TFT (80-120)
500-166427-1	MW-1A	97
500-166427-2	MW-3A	211 X
500-166427-2	MW-3A	138 X
500-166427-3	MW-4R	186 X
500-166427-4	MW-4A	154 X
500-166427-5	MW-5A	98
500-166427-6	MW-7	98
500-166427-7	MW-10	157 X
500-166427-8	MW-W	101
500-166427-8 MS	MW-W	104
500-166427-8 MSD	MW-W	104
500-166427-9	Trip Blank	96
LCS 490-606298/3	Lab Control Sample	99
LCSD 490-606298/34	Lab Control Sample Dup	97
MB 490-606298/4	Method Blank	97

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-481777/7
Matrix: Water
Analysis Batch: 481777

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.14		0.50	0.14	ug/L			07/12/19 11:01	1
1,1,1-Trichloroethane	<0.21		0.50	0.21	ug/L			07/12/19 11:01	1
1,1,2,2-Tetrachloroethane	<0.070		0.50	0.070	ug/L			07/12/19 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.17		0.50	0.17	ug/L			07/12/19 11:01	1
1,1,2-Trichloroethane	<0.17		0.50	0.17	ug/L			07/12/19 11:01	1
1,1-Dichloroethane	<0.18		0.50	0.18	ug/L			07/12/19 11:01	1
1,1-Dichloroethene	<0.16		0.50	0.16	ug/L			07/12/19 11:01	1
1,1-Dichloropropene	<0.063		0.50	0.063	ug/L			07/12/19 11:01	1
1,2,3-Trichlorobenzene	<0.16		0.50	0.16	ug/L			07/12/19 11:01	1
1,2,3-Trichloropropane	<0.12		0.50	0.12	ug/L			07/12/19 11:01	1
1,2,4-Trichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
1,2,4-Trimethylbenzene	<0.090		0.50	0.090	ug/L			07/12/19 11:01	1
1,2-Dichlorobenzene	<0.16		0.50	0.16	ug/L			07/12/19 11:01	1
1,2-Dichloroethane	<0.14		0.50	0.14	ug/L			07/12/19 11:01	1
1,2-Dichloropropane	<0.11		0.50	0.11	ug/L			07/12/19 11:01	1
1,3,5-Trimethylbenzene	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
1,3-Dichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
1,3-Dichloropropane	<0.15		0.50	0.15	ug/L			07/12/19 11:01	1
1,4-Dichlorobenzene	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
2,2-Dichloropropane	<0.35		0.50	0.35	ug/L			07/12/19 11:01	1
2-Butanone (MEK)	<1.0		5.0	1.0	ug/L			07/12/19 11:01	1
2-Chlorotoluene	<0.12		0.50	0.12	ug/L			07/12/19 11:01	1
2-Hexanone	<1.0		5.0	1.0	ug/L			07/12/19 11:01	1
4-Chlorotoluene	<0.15		0.50	0.15	ug/L			07/12/19 11:01	1
4-Isopropyltoluene	<0.063		0.50	0.063	ug/L			07/12/19 11:01	1
4-Methyl-2-pentanone (MIBK)	<1.0		5.0	1.0	ug/L			07/12/19 11:01	1
Acetone	<1.0		5.0	1.0	ug/L			07/12/19 11:01	1
Acrylonitrile	<2.2		10	2.2	ug/L			07/12/19 11:01	1
Allyl chloride	<0.22		0.50	0.22	ug/L			07/12/19 11:01	1
Benzene	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
Bromobenzene	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
Bromochloromethane	<0.11		0.50	0.11	ug/L			07/12/19 11:01	1
Bromoform	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
Bromomethane	<0.23		0.50	0.23	ug/L			07/12/19 11:01	1
Carbon disulfide	<0.15		0.50	0.15	ug/L			07/12/19 11:01	1
Carbon tetrachloride	<0.21		0.50	0.21	ug/L			07/12/19 11:01	1
Chlorobenzene	<0.12		0.50	0.12	ug/L			07/12/19 11:01	1
Chlorodibromomethane	<0.16		0.50	0.16	ug/L			07/12/19 11:01	1
Chloroethane	<0.20		0.50	0.20	ug/L			07/12/19 11:01	1
Chloroform	<0.14		0.50	0.14	ug/L			07/12/19 11:01	1
Chloromethane	<0.17		0.50	0.17	ug/L			07/12/19 11:01	1
cis-1,2-Dichloroethene	<0.12		0.50	0.12	ug/L			07/12/19 11:01	1
cis-1,3-Dichloropropene	<0.080		0.50	0.080	ug/L			07/12/19 11:01	1
Dibromomethane	<0.17		0.50	0.17	ug/L			07/12/19 11:01	1
Dichlorobromomethane	<0.14		0.50	0.14	ug/L			07/12/19 11:01	1
Dichlorodifluoromethane	<0.15		0.50	0.15	ug/L			07/12/19 11:01	1
Dichlorofluoromethane	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
Ethyl ether	<0.12		0.50	0.12	ug/L			07/12/19 11:01	1

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-481777/7
Matrix: Water
Analysis Batch: 481777

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.11		0.50	0.11	ug/L			07/12/19 11:01	1
Hexachlorobutadiene	<0.11		0.50	0.11	ug/L			07/12/19 11:01	1
Iodomethane	<0.15		0.50	0.15	ug/L			07/12/19 11:01	1
Isopropylbenzene	<0.16		0.50	0.16	ug/L			07/12/19 11:01	1
Methyl tert-butyl ether	<0.12		0.50	0.12	ug/L			07/12/19 11:01	1
Methylene Chloride	<0.99		2.5	0.99	ug/L			07/12/19 11:01	1
m-Xylene & p-Xylene	<0.30		1.0	0.30	ug/L			07/12/19 11:01	1
Naphthalene	<0.15		0.50	0.15	ug/L			07/12/19 11:01	1
n-Butylbenzene	<0.081		0.50	0.081	ug/L			07/12/19 11:01	1
N-Propylbenzene	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
o-Xylene	<0.12		0.50	0.12	ug/L			07/12/19 11:01	1
sec-Butylbenzene	<0.068		0.50	0.068	ug/L			07/12/19 11:01	1
Styrene	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
t-Butanol	<2.5		10	2.5	ug/L			07/12/19 11:01	1
tert-Butylbenzene	<0.060		0.50	0.060	ug/L			07/12/19 11:01	1
Tetrachloroethene	<0.20		0.50	0.20	ug/L			07/12/19 11:01	1
Toluene	<0.10		0.50	0.10	ug/L			07/12/19 11:01	1
trans-1,2-Dichloroethene	<0.13		0.50	0.13	ug/L			07/12/19 11:01	1
trans-1,3-Dichloropropene	<0.10		0.50	0.10	ug/L			07/12/19 11:01	1
trans-1,4-Dichloro-2-butene	<1.3		2.5	1.3	ug/L			07/12/19 11:01	1
Trichloroethene	<0.18		0.50	0.18	ug/L			07/12/19 11:01	1
Trichlorofluoromethane	<0.19		0.50	0.19	ug/L			07/12/19 11:01	1
Trihalomethanes, Total	<1.0		2.0	1.0	ug/L			07/12/19 11:01	1
Vinyl acetate	<0.45		2.5	0.45	ug/L			07/12/19 11:01	1
Vinyl chloride	<0.18		0.50	0.18	ug/L			07/12/19 11:01	1
Xylenes, Total	<0.12		1.0	0.12	ug/L			07/12/19 11:01	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichlorobenzene-d4	*103*		*80 - 120*		*07/12/19 11:01*	*1*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*		*07/12/19 11:01*	*1*

Lab Sample ID: LCS 480-481777/4
Matrix: Water
Analysis Batch: 481777

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	4.00	3.74		ug/L		94	70 - 130
1,1,1-Trichloroethane	4.00	3.98		ug/L		99	70 - 130
1,1,2,2-Tetrachloroethane	4.00	3.98		ug/L		100	70 - 130
1,1,2-Trichloroethane	4.00	4.09		ug/L		102	70 - 130
1,1-Dichloroethane	4.00	3.97		ug/L		99	70 - 130
1,1-Dichloroethene	4.00	4.01		ug/L		100	70 - 130
1,1-Dichloropropene	4.00	3.93		ug/L		98	70 - 130
1,2,3-Trichlorobenzene	4.00	4.07		ug/L		102	70 - 130
1,2,3-Trichloropropane	4.00	3.98		ug/L		99	70 - 130
1,2,4-Trichlorobenzene	4.00	4.02		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	4.00	3.81		ug/L		95	70 - 130
1,2-Dichlorobenzene	4.00	4.03		ug/L		101	70 - 130

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-481777/4
Matrix: Water
Analysis Batch: 481777

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	4.00	4.15		ug/L		104	70 - 130
1,2-Dichloropropane	4.00	3.98		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	4.00	3.72		ug/L		93	70 - 130
1,3-Dichlorobenzene	4.00	4.13		ug/L		103	70 - 130
1,3-Dichloropropane	4.00	4.09		ug/L		102	70 - 130
1,4-Dichlorobenzene	4.00	4.23		ug/L		106	70 - 130
2,2-Dichloropropane	4.00	4.30		ug/L		107	70 - 130
2-Butanone (MEK)	20.0	21.5		ug/L		107	70 - 130
2-Chlorotoluene	4.00	3.67		ug/L		92	70 - 130
2-Hexanone	20.0	19.4		ug/L		97	70 - 130
4-Chlorotoluene	4.00	3.72		ug/L		93	70 - 130
4-Isopropyltoluene	4.00	3.78		ug/L		94	70 - 130
4-Methyl-2-pentanone (MIBK)	20.0	18.7		ug/L		93	70 - 130
Acetone	20.0	26.6	*	ug/L		133	70 - 130
Benzene	4.00	3.99		ug/L		100	70 - 130
Bromobenzene	4.00	3.92		ug/L		98	70 - 130
Bromochloromethane	4.00	4.22		ug/L		105	70 - 130
Bromoform	4.00	3.76		ug/L		94	70 - 130
Bromomethane	4.00	4.19		ug/L		105	70 - 130
Carbon disulfide	4.00	3.80		ug/L		95	70 - 130
Carbon tetrachloride	4.00	4.12		ug/L		103	70 - 130
Chlorobenzene	4.00	4.13		ug/L		103	70 - 130
Chlorodibromomethane	4.00	3.89		ug/L		97	70 - 130
Chloroethane	4.00	3.86		ug/L		96	70 - 130
Chloroform	4.00	3.94		ug/L		99	70 - 130
Chloromethane	4.00	3.61		ug/L		90	70 - 130
cis-1,2-Dichloroethene	4.00	4.09		ug/L		102	70 - 130
cis-1,3-Dichloropropene	4.00	3.54		ug/L		88	70 - 130
Dibromomethane	4.00	4.26		ug/L		107	70 - 130
Dichlorobromomethane	4.00	3.78		ug/L		95	70 - 130
Dichlorodifluoromethane	4.00	3.43		ug/L		86	70 - 130
Ethylbenzene	4.00	3.79		ug/L		95	70 - 130
Hexachlorobutadiene	4.00	4.06		ug/L		102	70 - 130
Isopropylbenzene	4.00	3.89		ug/L		97	70 - 130
Methyl tert-butyl ether	4.00	3.85		ug/L		96	70 - 130
Methylene Chloride	4.00	4.76		ug/L		119	70 - 130
Naphthalene	4.00	3.59		ug/L		90	70 - 130
n-Butylbenzene	4.00	3.70		ug/L		93	70 - 130
N-Propylbenzene	4.00	3.68		ug/L		92	70 - 130
sec-Butylbenzene	4.00	3.76		ug/L		94	70 - 130
Styrene	4.00	3.99		ug/L		100	70 - 130
tert-Butylbenzene	4.00	3.62		ug/L		90	70 - 130
Tetrachloroethene	4.00	4.26		ug/L		106	70 - 130
Toluene	4.00	3.85		ug/L		96	70 - 130
trans-1,2-Dichloroethene	4.00	4.11		ug/L		103	70 - 130
trans-1,3-Dichloropropene	4.00	3.18		ug/L		79	70 - 130
Trichloroethene	4.00	4.08		ug/L		102	70 - 130
Trichlorofluoromethane	4.00	4.21		ug/L		105	70 - 130
Vinyl chloride	4.00	3.68		ug/L		92	70 - 130

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-481777/4
Matrix: Water
Analysis Batch: 481777

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Xylenes, Total			8.00	7.59		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*102*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: LCSD 480-481777/5
Matrix: Water
Analysis Batch: 481777

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			4.00	3.92		ug/L		98	70 - 130	4	20
1,1,1-Trichloroethane			4.00	4.20		ug/L		105	70 - 130	6	20
1,1,2,2-Tetrachloroethane			4.00	4.02		ug/L		100	70 - 130	1	20
1,1,2-Trichloroethane			4.00	4.24		ug/L		106	70 - 130	3	20
1,1-Dichloroethane			4.00	3.99		ug/L		100	70 - 130	0	20
1,1-Dichloroethene			4.00	4.06		ug/L		101	70 - 130	1	20
1,1-Dichloropropene			4.00	4.03		ug/L		101	70 - 130	3	20
1,2,3-Trichlorobenzene			4.00	4.05		ug/L		101	70 - 130	1	20
1,2,3-Trichloropropane			4.00	3.89		ug/L		97	70 - 130	2	20
1,2,4-Trichlorobenzene			4.00	3.91		ug/L		98	70 - 130	3	20
1,2,4-Trimethylbenzene			4.00	3.73		ug/L		93	70 - 130	2	20
1,2-Dichlorobenzene			4.00	4.03		ug/L		101	70 - 130	0	20
1,2-Dichloroethane			4.00	4.23		ug/L		106	70 - 130	2	20
1,2-Dichloropropane			4.00	4.00		ug/L		100	70 - 130	1	20
1,3,5-Trimethylbenzene			4.00	3.72		ug/L		93	70 - 130	0	20
1,3-Dichlorobenzene			4.00	4.22		ug/L		106	70 - 130	2	20
1,3-Dichloropropane			4.00	4.03		ug/L		101	70 - 130	2	20
1,4-Dichlorobenzene			4.00	4.11		ug/L		103	70 - 130	3	20
2,2-Dichloropropane			4.00	4.54		ug/L		114	70 - 130	6	20
2-Butanone (MEK)			20.0	19.3		ug/L		96	70 - 130	11	20
2-Chlorotoluene			4.00	3.68		ug/L		92	70 - 130	0	20
2-Hexanone			20.0	18.5		ug/L		93	70 - 130	5	20
4-Chlorotoluene			4.00	3.75		ug/L		94	70 - 130	1	20
4-Isopropyltoluene			4.00	3.75		ug/L		94	70 - 130	1	20
4-Methyl-2-pentanone (MIBK)			20.0	18.6		ug/L		93	70 - 130	0	20
Acetone			20.0	21.3	*	ug/L		106	70 - 130	22	20
Benzene			4.00	4.11		ug/L		103	70 - 130	3	20
Bromobenzene			4.00	3.95		ug/L		99	70 - 130	1	20
Bromochloromethane			4.00	4.22		ug/L		106	70 - 130	0	20
Bromoform			4.00	3.59		ug/L		90	70 - 130	5	20
Bromomethane			4.00	4.53		ug/L		113	70 - 130	8	20
Carbon disulfide			4.00	3.86		ug/L		97	70 - 130	2	20
Carbon tetrachloride			4.00	4.16		ug/L		104	70 - 130	1	20
Chlorobenzene			4.00	4.24		ug/L		106	70 - 130	3	20
Chlorodibromomethane			4.00	3.76		ug/L		94	70 - 130	3	20
Chloroethane			4.00	3.86		ug/L		97	70 - 130	0	20
Chloroform			4.00	4.07		ug/L		102	70 - 130	3	20

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-481777/5
Matrix: Water
Analysis Batch: 481777

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane			4.00	3.61		ug/L		90	70 - 130	0	20
cis-1,2-Dichloroethene			4.00	4.12		ug/L		103	70 - 130	1	20
cis-1,3-Dichloropropene			4.00	3.56		ug/L		89	70 - 130	1	20
Dibromomethane			4.00	4.35		ug/L		109	70 - 130	2	20
Dichlorobromomethane			4.00	3.82		ug/L		95	70 - 130	1	20
Dichlorodifluoromethane			4.00	3.53		ug/L		88	70 - 130	3	20
Ethylbenzene			4.00	3.94		ug/L		99	70 - 130	4	20
Hexachlorobutadiene			4.00	4.19		ug/L		105	70 - 130	3	20
Isopropylbenzene			4.00	3.96		ug/L		99	70 - 130	2	20
Methyl tert-butyl ether			4.00	3.82		ug/L		95	70 - 130	1	20
Methylene Chloride			4.00	4.46		ug/L		111	70 - 130	7	20
Naphthalene			4.00	3.53		ug/L		88	70 - 130	2	20
n-Butylbenzene			4.00	3.71		ug/L		93	70 - 130	0	20
N-Propylbenzene			4.00	3.77		ug/L		94	70 - 130	2	20
sec-Butylbenzene			4.00	3.82		ug/L		95	70 - 130	1	20
Styrene			4.00	4.09		ug/L		102	70 - 130	2	20
tert-Butylbenzene			4.00	3.72		ug/L		93	70 - 130	3	20
Tetrachloroethene			4.00	4.47		ug/L		112	70 - 130	5	20
Toluene			4.00	4.06		ug/L		102	70 - 130	5	20
trans-1,2-Dichloroethene			4.00	4.10		ug/L		103	70 - 130	0	20
trans-1,3-Dichloropropene			4.00	3.20		ug/L		80	70 - 130	1	20
Trichloroethene			4.00	4.34		ug/L		108	70 - 130	6	20
Trichlorofluoromethane			4.00	4.46		ug/L		111	70 - 130	6	20
Vinyl chloride			4.00	3.81		ug/L		95	70 - 130	4	20
Xylenes, Total			8.00	7.76		ug/L		97	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichlorobenzene-d4	*101*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: LLCS 480-481777/6
Matrix: Water
Analysis Batch: 481777

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane			0.500	0.496	J	ug/L		99	50 - 150
1,1,1-Trichloroethane			0.500	0.543		ug/L		109	50 - 150
1,1,2,2-Tetrachloroethane			0.500	0.521		ug/L		104	50 - 150
1,1,2-Trichloroethane			0.500	0.557		ug/L		111	50 - 150
1,1-Dichloroethane			0.500	0.550		ug/L		110	50 - 150
1,1-Dichloroethene			0.500	0.552		ug/L		110	50 - 150
1,1-Dichloropropene			0.500	0.549		ug/L		110	50 - 150
1,2,3-Trichlorobenzene			0.500	0.576		ug/L		115	50 - 150
1,2,3-Trichloropropane			0.500	0.544		ug/L		109	50 - 150
1,2,4-Trichlorobenzene			0.500	0.551		ug/L		110	50 - 150
1,2,4-Trimethylbenzene			0.500	0.487	J	ug/L		97	50 - 150
1,2-Dichlorobenzene			0.500	0.558		ug/L		112	50 - 150
1,2-Dichloroethane			0.500	0.563		ug/L		113	50 - 150

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LLCS 480-481777/6
Matrix: Water
Analysis Batch: 481777

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	0.500	0.541		ug/L		108	50 - 150
1,3,5-Trimethylbenzene	0.500	0.463	J	ug/L		93	50 - 150
1,3-Dichlorobenzene	0.500	0.566		ug/L		113	50 - 150
1,3-Dichloropropane	0.500	0.526		ug/L		105	50 - 150
1,4-Dichlorobenzene	0.500	0.569		ug/L		114	50 - 150
2,2-Dichloropropane	0.500	0.605		ug/L		121	50 - 150
2-Butanone (MEK)	2.50	2.79	J	ug/L		111	50 - 150
2-Chlorotoluene	0.500	0.499	J	ug/L		100	50 - 150
2-Hexanone	2.50	2.42	J	ug/L		97	50 - 150
4-Chlorotoluene	0.500	0.491	J	ug/L		98	50 - 150
4-Isopropyltoluene	0.500	0.479	J	ug/L		96	50 - 150
4-Methyl-2-pentanone (MIBK)	2.50	2.42	J	ug/L		97	50 - 150
Acetone	2.50	3.96	J *	ug/L		158	50 - 150
Benzene	0.500	0.592		ug/L		118	50 - 150
Bromobenzene	0.500	0.521		ug/L		104	50 - 150
Bromochloromethane	0.500	0.589		ug/L		118	50 - 150
Bromoform	0.500	0.442	J	ug/L		88	50 - 150
Bromomethane	0.500	0.477	J	ug/L		95	50 - 150
Carbon disulfide	0.500	0.546		ug/L		109	50 - 150
Carbon tetrachloride	0.500	0.509		ug/L		102	50 - 150
Chlorobenzene	0.500	0.558		ug/L		112	50 - 150
Chlorodibromomethane	0.500	0.457	J	ug/L		91	50 - 150
Chloroethane	0.500	0.500		ug/L		100	50 - 150
Chloroform	0.500	0.603		ug/L		121	50 - 150
Chloromethane	0.500	0.476	J	ug/L		95	50 - 150
cis-1,2-Dichloroethene	0.500	0.574		ug/L		115	50 - 150
cis-1,3-Dichloropropene	0.500	0.408	J	ug/L		82	50 - 150
Dibromomethane	0.500	0.574		ug/L		115	50 - 150
Dichlorobromomethane	0.500	0.486	J	ug/L		97	50 - 150
Dichlorodifluoromethane	0.500	0.419	J	ug/L		84	50 - 150
Ethylbenzene	0.500	0.512		ug/L		102	50 - 150
Hexachlorobutadiene	0.500	0.610		ug/L		122	50 - 150
Isopropylbenzene	0.500	0.497	J	ug/L		99	50 - 150
Methyl tert-butyl ether	0.500	0.502		ug/L		100	50 - 150
Methylene Chloride	0.500	1.16	J *	ug/L		233	50 - 150
Naphthalene	0.500	0.454	J	ug/L		91	50 - 150
n-Butylbenzene	0.500	0.478	J	ug/L		96	50 - 150
N-Propylbenzene	0.500	0.480	J	ug/L		96	50 - 150
sec-Butylbenzene	0.500	0.479	J	ug/L		96	50 - 150
Styrene	0.500	0.493	J	ug/L		99	50 - 150
tert-Butylbenzene	0.500	0.486	J	ug/L		97	50 - 150
Tetrachloroethene	0.500	0.579		ug/L		116	50 - 150
Toluene	0.500	0.534		ug/L		107	50 - 150
trans-1,2-Dichloroethene	0.500	0.554		ug/L		111	50 - 150
trans-1,3-Dichloropropene	0.500	0.368	J	ug/L		74	50 - 150
Trichloroethene	0.500	0.570		ug/L		114	50 - 150
Trichlorofluoromethane	0.500	0.518		ug/L		104	50 - 150
Vinyl chloride	0.500	0.495	J	ug/L		99	50 - 150
Xylenes, Total	1.00	0.966	J	ug/L		97	50 - 150

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	LLCS %Recovery	LLCS Qualifier	Limits
1,2-Dichlorobenzene-d4	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-606298/4
Matrix: Water
Analysis Batch: 606298

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.30		0.50	0.30	ug/L			07/12/19 15:44	1
1,3,5-Trimethylbenzene	<0.30		0.50	0.30	ug/L			07/12/19 15:44	1
Benzene	<0.36		0.50	0.36	ug/L			07/12/19 15:44	1
Ethylbenzene	<0.37		0.50	0.37	ug/L			07/12/19 15:44	1
Methyl tert-butyl ether	0.264	J	0.50	0.24	ug/L			07/12/19 15:44	1
Naphthalene	<2.4		5.0	2.4	ug/L			07/12/19 15:44	1
Toluene	<0.33		0.50	0.33	ug/L			07/12/19 15:44	1
Xylenes, Total	<0.58		1.5	0.58	ug/L			07/12/19 15:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*97*		*80 - 120*		*07/12/19 15:44*	*1*

Lab Sample ID: LCS 490-606298/3
Matrix: Water
Analysis Batch: 606298

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	18.6		ug/L		93	60 - 131
1,3,5-Trimethylbenzene	20.0	18.7		ug/L		93	70 - 130
Benzene	20.0	18.4		ug/L		92	69 - 129
Ethylbenzene	20.0	18.4		ug/L		92	70 - 130
Methyl tert-butyl ether	20.0	18.8		ug/L		94	57 - 138
Naphthalene	20.0	18.9		ug/L		95	69 - 133
Toluene	20.0	18.6		ug/L		93	66 - 127
Xylenes, Total	60.0	56.0		ug/L		93	

Surrogate	LCS %Recovery	LCS Qualifier	Limits
a,a,a-Trifluorotoluene	*99*		*80 - 120*

Lab Sample ID: LCSD 490-606298/34
Matrix: Water
Analysis Batch: 606298

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	20.0	18.4		ug/L		92	60 - 131	1	43
1,3,5-Trimethylbenzene	20.0	18.3		ug/L		92	70 - 130	2	20
Benzene	20.0	18.3		ug/L		91	69 - 129	1	33
Ethylbenzene	20.0	17.9		ug/L		90	70 - 130	2	35
Methyl tert-butyl ether	20.0	17.8		ug/L		89	57 - 138	5	40
Naphthalene	20.0	17.4		ug/L		87	69 - 133	9	48
Toluene	20.0	18.3		ug/L		91	66 - 127	2	34

QC Sample Results

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-606298/34
Matrix: Water
Analysis Batch: 606298

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Xylenes, Total			60.0	55.3		ug/L		92		1	

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*97*		*80 - 120*

Lab Sample ID: 500-166427-8 MS
Matrix: Water
Analysis Batch: 606298

Client Sample ID: MW-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	<0.30		20.0	20.0		ug/L		100	40 - 165		
1,3,5-Trimethylbenzene	<0.30		20.0	20.1		ug/L		101	60 - 140		
Benzene	0.65		20.0	20.8		ug/L		101	29 - 176		
Ethylbenzene	<0.37		20.0	20.2		ug/L		101	30 - 170		
Methyl tert-butyl ether	<0.24		20.0	20.0		ug/L		100	23 - 165		
Naphthalene	<2.4		20.0	19.6		ug/L		98	10 - 175		
Toluene	<0.33		20.0	20.2		ug/L		101	30 - 167		
Xylenes, Total	<0.58		60.0	60.7		ug/L		101			

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*80 - 120*

Lab Sample ID: 500-166427-8 MSD
Matrix: Water
Analysis Batch: 606298

Client Sample ID: MW-W
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	<0.30		20.0	23.0		ug/L		115	40 - 165	14	43
1,3,5-Trimethylbenzene	<0.30		20.0	23.2		ug/L		116	60 - 140	14	20
Benzene	0.65		20.0	23.8		ug/L		116	29 - 176	13	33
Ethylbenzene	<0.37		20.0	23.2		ug/L		116	30 - 170	14	35
Methyl tert-butyl ether	<0.24		20.0	22.9		ug/L		114	23 - 165	14	40
Naphthalene	<2.4		20.0	22.8		ug/L		114	10 - 175	15	48
Toluene	<0.33		20.0	23.3		ug/L		116	30 - 167	14	34
Xylenes, Total	<0.58		60.0	69.7		ug/L		116		14	

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*104*		*80 - 120*

Lab Chronicle

Client: American Engineering Testing Inc.
Project/Site: Dairi Concepts - 03-05510

Job ID: 500-166427-1

Client Sample ID: MW-1A
Lab Sample ID: 500-166427-1
Date Collected: 07/09/19 09:30
Matrix: Water
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	606298	07/12/19 18:52	S1S	TAL NSH

Client Sample ID: MW-3A
Lab Sample ID: 500-166427-2
Date Collected: 07/09/19 12:30
Matrix: Water
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	606298	07/13/19 02:42	S1S	TAL NSH
Total/NA	Analysis	WDNR		100	606298	07/13/19 04:16	S1S	TAL NSH

Client Sample ID: MW-4R
Lab Sample ID: 500-166427-3
Date Collected: 07/09/19 12:00
Matrix: Water
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		25	606298	07/13/19 05:18	S1S	TAL NSH

Client Sample ID: MW-4A
Lab Sample ID: 500-166427-4
Date Collected: 07/09/19 11:30
Matrix: Water
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	606298	07/12/19 19:55	S1S	TAL NSH

Client Sample ID: MW-5A
Lab Sample ID: 500-166427-5
Date Collected: 07/09/19 11:00
Matrix: Water
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	606298	07/12/19 21:29	S1S	TAL NSH

Client Sample ID: MW-7
Lab Sample ID: 500-166427-6
Date Collected: 07/09/19 10:00
Matrix: Water
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	606298	07/12/19 19:24	S1S	TAL NSH

Client Sample ID: MW-10
Lab Sample ID: 500-166427-7
Date Collected: 07/09/19 13:00
Matrix: Water
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		25	606298	07/13/19 00:06	S1S	TAL NSH

Lab Chronicle

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Client Sample ID: MW-W — Lab Sample ID: 500-166427-8
Date Collected: 07/09/19 10:30 **Matrix: Water**
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	606298	07/12/19 16:46	S1S	TAL NSH

Client Sample ID: Trip Blank — Lab Sample ID: 500-166427-9
Date Collected: 07/09/19 00:00 **Matrix: Water**
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	606298	07/12/19 16:15	S1S	TAL NSH

Client Sample ID: PW-1 — Lab Sample ID: 500-166427-10
Date Collected: 07/09/19 14:00 **Matrix: Water**
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	481777	07/12/19 12:08	RJF	TAL BUF

Client Sample ID: PW-4 — Lab Sample ID: 500-166427-11
Date Collected: 07/09/19 13:30 **Matrix: Water**
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	481777	07/12/19 12:33	RJF	TAL BUF

Client Sample ID: PW-5 — Lab Sample ID: 500-166427-12
Date Collected: 07/09/19 13:45 **Matrix: Water**
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	481777	07/12/19 12:58	RJF	TAL BUF

Client Sample ID: Strey Well — Lab Sample ID: 500-166427-13
Date Collected: 07/09/19 14:15 **Matrix: Water**
Date Received: 07/10/19 09:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	481777	07/12/19 13:22	RJF	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL NSH = Eurofins TestAmerica, Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-19 *

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998310390	08-31-19

Laboratory: Eurofins TestAmerica, Nashville

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
A2LA	ISO/IEC 17025		0453.07	12-31-19
A2LA	ISO/IEC 17025		0453.07	12-31-19
Alaska (UST)	State Program	10	UST-087	09-30-19
Arizona	State Program	9	AZ0473	05-05-20
Arkansas DEQ	State Program	6	88-0737	04-25-20
California	State Program	9	2938	06-30-19 *
Connecticut	State Program	1	PH-0220	12-31-19
Florida	NELAP	4	E87358	06-30-20
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	06-30-20
Illinois	NELAP	5	200010	12-09-19
Iowa	State Program	7	131	04-01-20
Kansas	NELAP	7	E-10229	10-31-19
Kentucky (UST)	State Program	4	19	06-30-20
Kentucky (WW)	State Program	4	90038	12-31-19
Louisiana	NELAP	6	30613	06-30-20
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-20
Massachusetts	State Program	1	M-TN032	06-30-20
Minnesota	NELAP	5	047-999-345	12-31-19
Mississippi	State Program	4	N/A	06-30-19 *
Nevada	State Program	9	TN00032	07-31-19 *
New Hampshire	NELAP	1	2963	10-09-19
New Jersey	NELAP	2	TN965	06-30-20
New York	NELAP	2	11342	03-31-20
North Carolina (WW/SW)	State Program	4	387	12-31-19
North Dakota	State Program	8	R-146	06-30-19 *
Oklahoma	State Program	6	9412	08-31-19 *
Oregon	NELAP	10	TN200001	04-26-20
Pennsylvania	NELAP	3	68-00585	07-31-19 *
Rhode Island	State Program	1	LAO00268	12-30-19
South Carolina	State Program	4	84009 (001)	02-28-19 *
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-19
USDA	Federal		P330-13-00306	04-10-20
Utah	NELAP	8	TN00032	07-31-19
Virginia	NELAP	3	460152	06-14-20
Washington	State Program	10	C789	07-19-19 *
West Virginia DEP	State Program	3	219	02-28-20

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

Eurofins TestAmerica, Chicago

Accreditation/Certification Summary

Client: American Engineering Testing Inc. Job ID: 500-166427-1
Project/Site: Dairi Concepts - 03-05510

Laboratory: Eurofins TestAmerica, Nashville (Continued)

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
Wisconsin	State Program	5	998020430	08-31-19 *
Wyoming (UST)	A2LA	8	453.07	12-31-19

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference# 18174003

Lab Job #: 500-166427
Chain of Custody Number:
Page 1 of 2
Temperature °C of Cooler: 10.1

Client: AET
Client Project #: 03-05510
Project Name: Darri Concepts
Project Location/State: Chili, WI
Lab Project #:
Sampler: Michael K. Neal
Lab PM: Sandra F

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: PVOC + Naphthalene	Comments
1		MW-1A	7-9-19	9:10	3	W	1	X	
2		MW-3A		12:30	3	W		X	
3		MW-4R		12:00	3	W		X	
4		MW-4A		11:30	3	W		X	
5		MW-5A		11:00	3	W		X	
6		MW-7		10:00	3	W		X	
7		MW-10		13:00	3	W		X	
8		MW-W		10:30	3	W		X	
9		Trip Blink	—	—	1	W		X	

500-166427 COC

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days X 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	AET	7-9-19	15:00	FedEx			

Lab Courier
Shipped FX Priority
Hand Delivered

Matrix Key
WW - Wastewater
W - Water
S - Soil
SL - Sludge
MS - Miscellaneous
OL - Oil
A - Air
SE - Sediment
SO - Soil
L - Leachate
WI - Wipe
DW - Drinking Water
O - Other

Client Comments: PCCFA

Lab Comments:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500166427

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler: 10.1

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference# 18124003

Client: AET
Client Project #: 03-05510
Project Name: DairiConcepts
Project Location/State: Chili, WI
Lab Project #:
Sampler: Michael K. Neal
Lab PM: Sandie F.

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: VOCs 524.2	Parameter: VOCs 524.3	Comments
10		PW-1	2-9-19	14:00	3	DW	1	X		
11		PW-4		13:30	3	DW		X		
12		PW-5		13:45	3	DW		X		
13		Stacy Well		14:15	3	DW		X		

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days X 15 Days _____ Other
Requested Due Date

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	AET	2-9-19	15:00	Fedex			
				[signature]	TAALE	07/10/19	0910

Lab Courier:
Shipped: FX Priority
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments: PCL FA

Lab Comments:

ORIGIN ID:MDWA (330) 966-6877
MICHAEL NEAL
AMERICAN ENGINEERING TESTING INC.
1837 COUNTY HIGHWAY OO

CHIPPEWA FALLS, WI 547295348
UNITED STATES US

TO

EUROFINS TESTAMERICA CHICAGO
2417 BOND STREET

UNIVERSITY PARK IL 604843101
(708) 534-5200
REF: S600-73361

RMA:

FedEx Express

FedEx
TRK# 0221 1054 5424 2019

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#316109 07/09 565J2/A6F9/33AD

500-166427 Wayt

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-123126.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-166427-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 7/22/2019			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Soils & Waters	Project #: 50007204			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	524.2_Preserved/ Standard Analyte list	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PW-1 (500-166427-10)	7/9/19	14:00 Central		Water			X	3	
PW-4 (500-166427-11)	7/9/19	13:30 Central		Water			X	3	
PW-5 (500-166427-12)	7/9/19	13:45 Central		Water			X	3	
Strey Well (500-166427-13)	7/9/19	14:15 Central		Water			X	3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	7/10/19 1600	TA	[signature]	7/11/19 0915	TAB.
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.1°

Ver: 01/16/2019

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-166427 Chain of Custody

Cooler Received/Opened On 7/11/2019@ 920

Time Samples Removed From Cooler _____ Time Samples Placed In Storage _____ (2 Hour Window)

1. Tracking # 8699 (last 4 digits, FedEx) Courier: FedEx
   IR Gun ID_31470368 _____ pH Strip Lot N/A Chlorine Strip Lot N/A
2. Temperature of rep. sample or temp blank when opened: 3.0 *Degrees Celsius*
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA
4. Were custody seals on outside of cooler? YES...NO...NA
   If yes, how many and where: 1 front
5. Were the seals intact, signed, and dated correctly? YES...NO...NA
6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) EA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA
   Were these signed and dated correctly? YES...NO...NA
8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None
9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None
10. Did all containers arrive in good condition (unbroken)? YES...NO...NA
11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA
12. Did all container labels and tags agree with custody papers? YES...NO...NA
13a. Were VOA vials received? YES...NO...NA
   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial) CA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA
   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA
16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) CA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA
18. Did you sign the custody papers in the appropriate place? YES...NO...NA
19. Were correct containers used for the analysis requested? YES...NO...NA
20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) CA

I certify that I attached a label with the unique LIMS number to each container (intial) CA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# _____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

Loc: 500
166427

eurofins | Environment Testing TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie	COC No: 500-123128.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin	Job #: 500-166427-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 7/18/2019		
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: Soils & Waters	Project #: 50007204		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/5030B PVOC+NAP	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1A (500-166427-1)	7/9/19	09:30 Central		Water			X	3	
MW-3A (500-166427-2)	7/9/19	12:30 Central		Water			X	3	
MW-4R (500-166427-3)	7/9/19	12:00 Central		Water			X	3	
MW-4A (500-166427-4)	7/9/19	11:30 Central		Water			X	3	
MW-5A (500-166427-5)	7/9/19	11:00 Central		Water			X	3	
MW-7 (500-166427-6)	7/9/19	10:00 Central		Water			X	3	
MW-10 (500-166427-7)	7/9/19	13:00 Central		Water			X	3	
MW-1W (500-166427-8)	7/9/19	10:30 Central		Water			X	3	
Trip Blank (500-166427-9)	7/9/19	Central		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		7/10/19 1600	TAL		07-11-2019 09:20	TAL SAC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: American Engineering Testing Inc. Job Number: 500-166427-1

Login Number: 166427 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Fioravanti, Ariel M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	10.1
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 <6mm (1/4").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

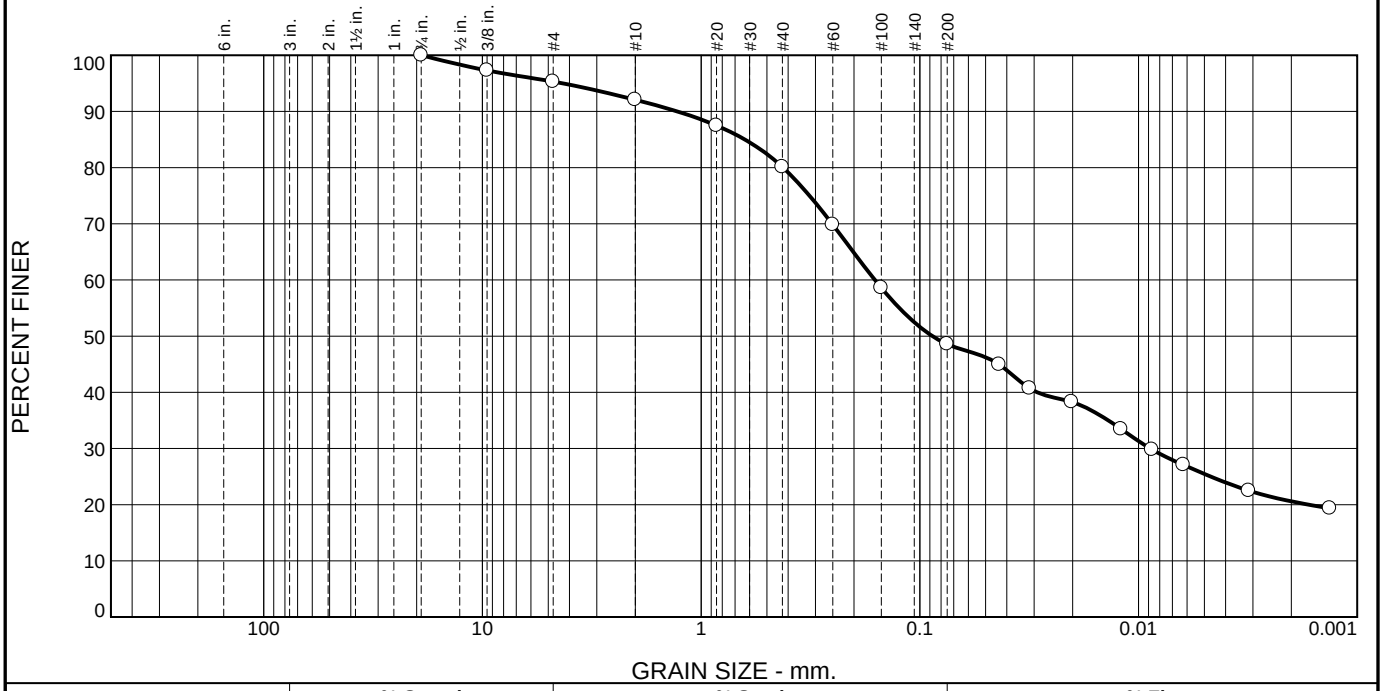
Login Sample Receipt Checklist

Client: American Engineering Testing Inc. Job Number: 500-166427-1

Login Number: 166427 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 2 **List Creation: 07/11/19 04:58 PM**
Creator: Hulbert, Michael J

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
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	3.1 #1
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	4.7	3.2	12.0	31.5	23.1	25.5

Test Results (ASTM D422 & ASTM C117)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.75	100.0		
.375	97.3		
#4	95.3		
#10	92.1		
#20	87.5		
#40	80.1		
#60	69.8		
#100	58.6		
#200	48.6		
0.0433 mm.	44.9		
0.0315 mm.	40.7		
0.0202 mm.	38.3		
0.0120 mm.	33.5		
0.0087 mm.	29.8		
0.0062 mm.	27.1		
0.0031 mm.	22.5		
0.0013 mm.	19.4		

* (no specification provided)

Material Description

Clayey Sand, a little gravel, reddish brown

Atterberg Limits (ASTM D 4318)

PL= LL= PI=

Classification

USCS (D 2487)= SC AASHTO (M 145)=

Coefficients

D_{90}= 1.2847 D_{85}= 0.6307 D_{60}= 0.1605
D_{50}= 0.0876 D_{30}= 0.0088 D_{15}=
D_{10}= C_u= C_c=

Remarks

Date Received: 10-1-18 **Date Tested:** 10-2-18

Tested By: Troy Tabor

Checked By: Joel Guanella

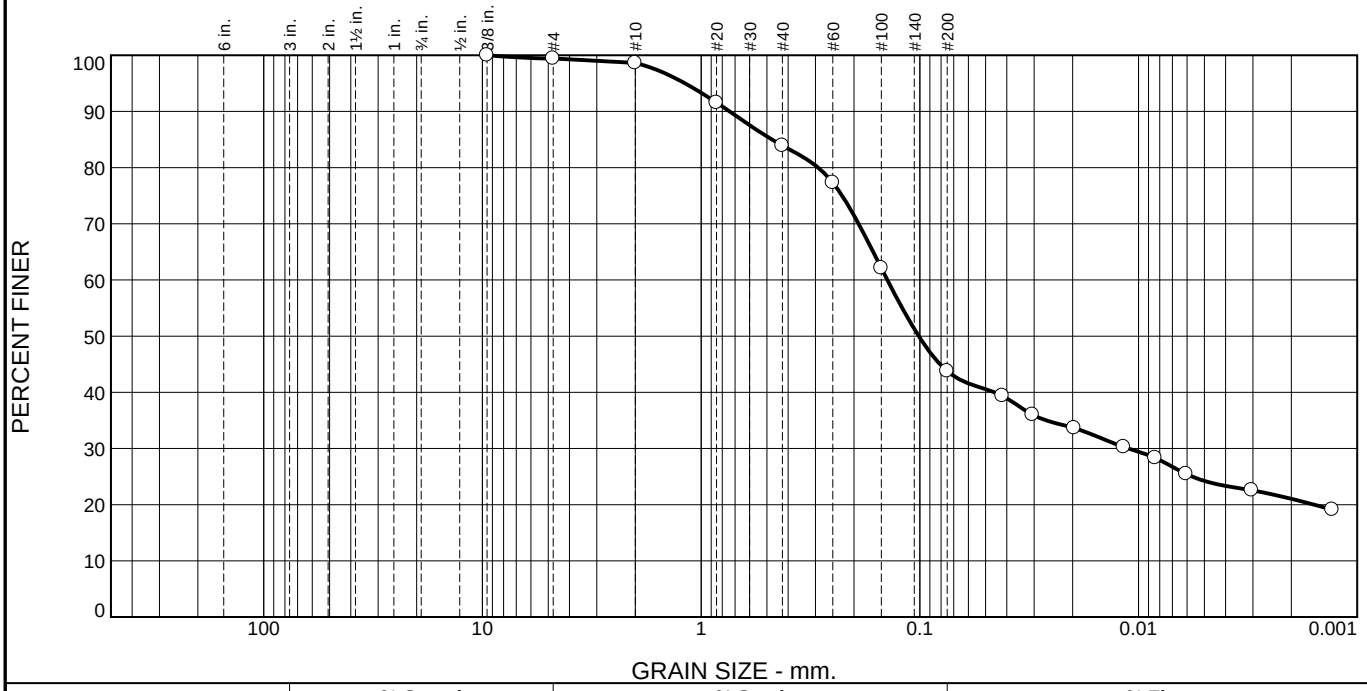
Title: CME Dept. Manager

Location: MW 11-A **Date Sampled:** 10-1-18

AMERICAN ENGINEERING TESTING, INC.
Chippewa Falls, Wisconsin

Client: DFA
Project: DariConcepts
Chili, Wisconsin
Project No: 03-05510 **Figure**

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.6	0.8	14.7	40.1	19.6	24.2

Test Results (ASTM D422 & ASTM C117)

Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
.375	100.0		
#4	99.4		
#10	98.6		
#20	91.6		
#40	83.9		
#60	77.3		
#100	62.1		
#200	43.8		
0.0419 mm.	39.4		
0.0305 mm.	36.0		
0.0197 mm.	33.6		
0.0117 mm.	30.3		
0.0084 mm.	28.3		
0.0061 mm.	25.5		
0.0030 mm.	22.6		
0.0013 mm.	19.1		

* (no specification provided)

Material Description

Clayey Sand, brown

Atterberg Limits (ASTM D 4318)

PL= **LL=** **PI=**

Classification

USCS (D 2487)= SC **AASHTO (M 145)=**

Coefficients

D_{90}= 0.7412 D_{85}= 0.4746 D_{60}= 0.1407
D_{50}= 0.1011 D_{30}= 0.0111 D_{15}=
D_{10}= C_u= C_c=

Remarks

Date Received: 10-1-18 **Date Tested:** 10-2-18

Tested By: Troy Tabor

Checked By: Joel Guanella

Title: CME Dept. Manager

Location: MW 11-B **Date Sampled:** 10-1-18

AMERICAN ENGINEERING TESTING, INC.
Chippewa Falls, Wisconsin

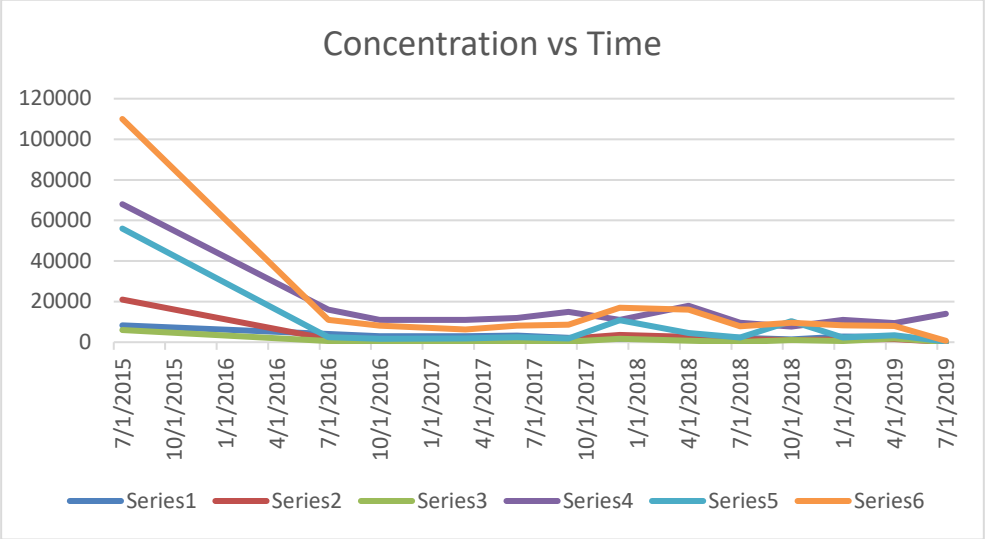
Client: DFA
Project: DariConcepts
Chili, Wisconsin
Project No: 03-05510 **Figure**

Appendix E

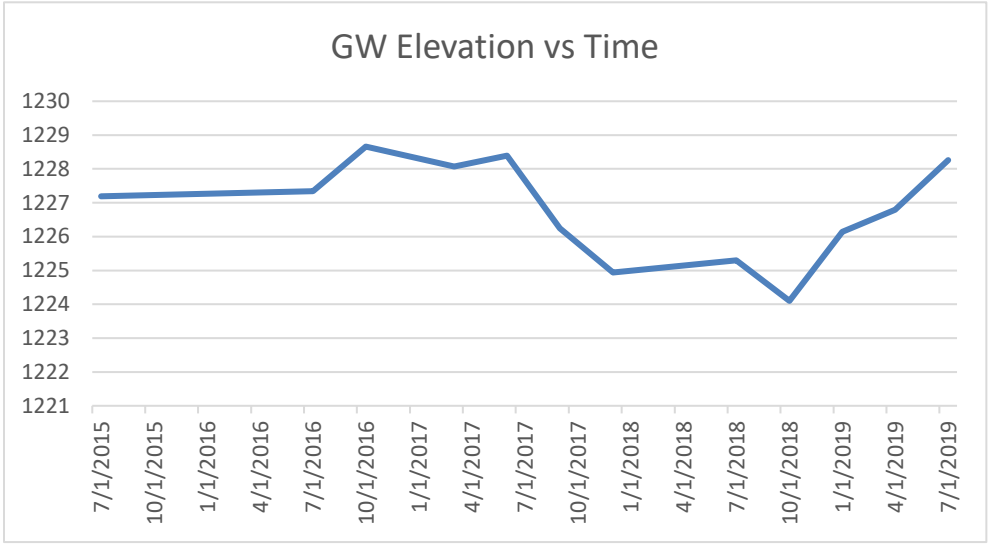
Concentration versus Time Graphs

DairiConcepts, Chili, WI - MW-3A - Post Remediation

Date	Series 1 Benzene	Series 2 Ethylbenzene	Series 3 Naphthalene	Series 4 Toluene	Series 5 Total TMBs	Series 6 Total Xylenes
7/7/2015	8300	21000	6000	68000	56000	110000
7/11/2016	4000	1600	530	16000	2470	11000
10/17/2016	3000	1500	400	11000	1670	8100
3/22/2017	2900	1200	260	11000	1790	6300
6/1/2017	3200	1600	450	12000	2430	8100
9/8/2017	2200	1700	340	15000	1840	8700
12/4/2017	1700	3600	1700	11000	10900	17000
4/30/2018	2900	2600	750	18000	4600	16000
7/9/2018	2100	1500	110	9500	2350	7900
10/3/2018	1400	1000	1100	7700	10300	9600
1/7/2019	2800	1400	580	11000	2350	8300
4/26/2019	2700	1500	1800	9400	3430	8000
7/9/2019	150	120	90	14000	335	680

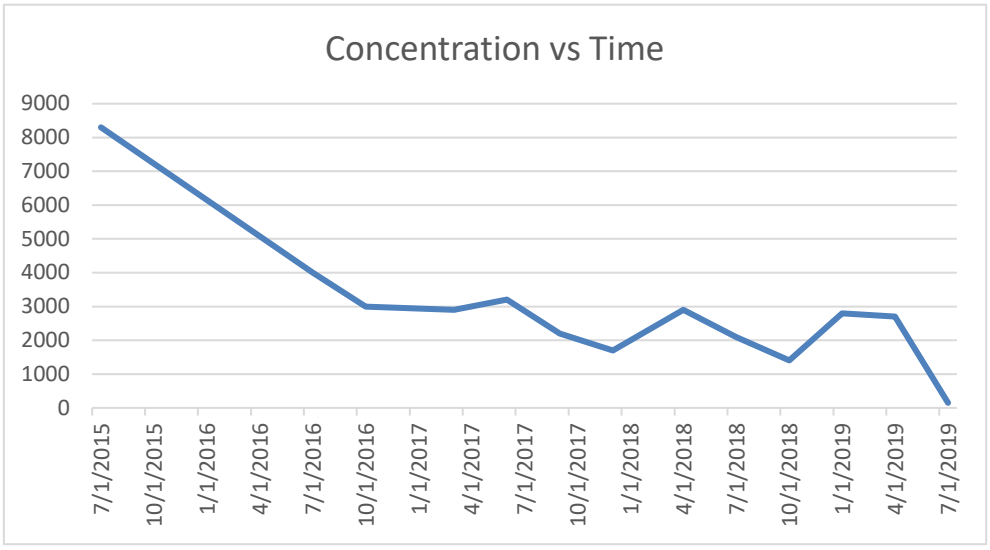


Date	Series 1 Groundwater Elevation
7/7/2015	1227.19
7/11/2016	1227.34
10/17/2016	1228.66
3/22/2017	1228.07
6/1/2017	1228.39
9/8/2017	1226.24
12/4/2017	1224.94
7/9/2018	1225.30
10/3/2018	1224.10
1/7/2019	1226.14
4/26/2019	1226.79
7/9/2019	1228.26

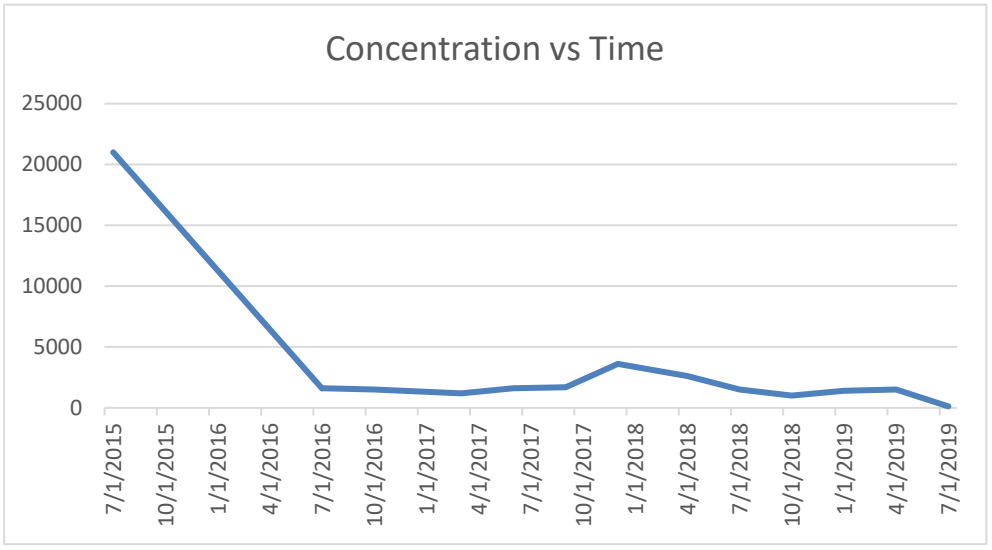


DairiConcepts, Chili, WI - MW-3A - Post Remediation

Date	Series 1 Benzene
7/7/2015	8300
7/11/2016	4000
10/17/2016	3000
3/22/2017	2900
6/1/2017	3200
9/8/2017	2200
12/4/2017	1700
4/30/2018	2900
7/9/2018	2100
10/3/2018	1400
1/7/2019	2800
4/26/2019	2700
7/9/2019	150

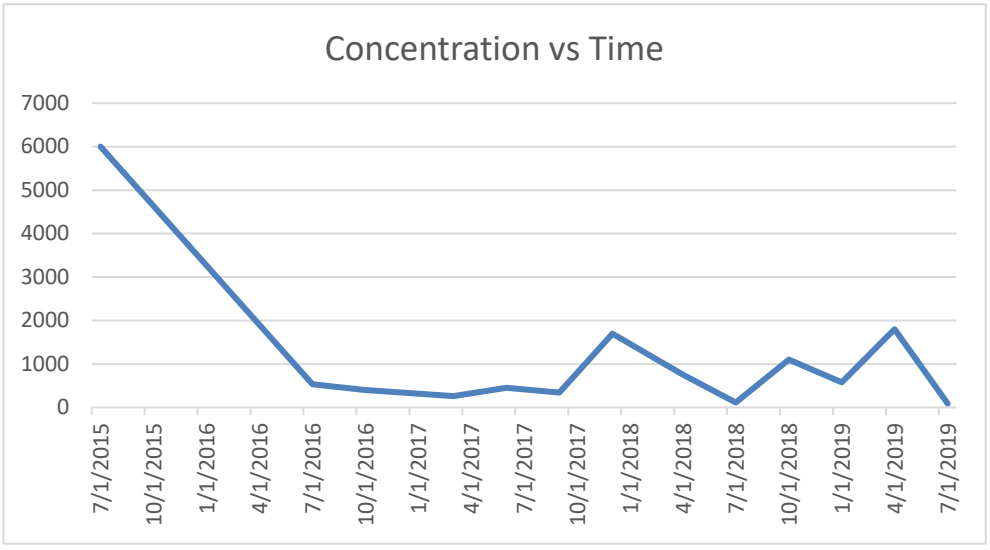


Date	Series 2 Ethylbenzene
7/7/2015	21000
7/11/2016	1600
10/17/2016	1500
3/22/2017	1200
6/1/2017	1600
9/8/2017	1700
12/4/2017	3600
4/30/2018	2600
7/9/2018	1500
10/3/2018	1000
1/7/2019	1400
4/26/2019	1500
7/9/2019	120

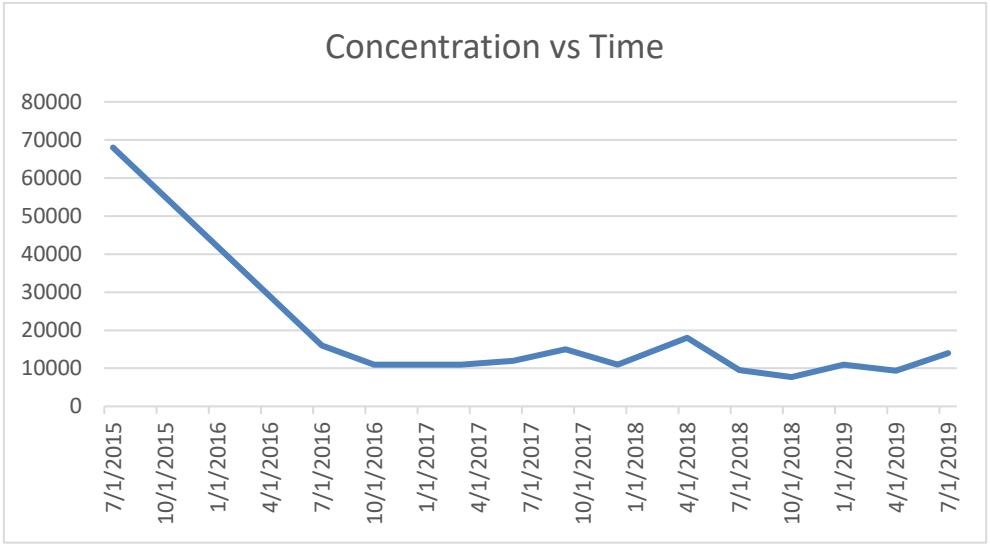


DairiConcepts, Chili, WI - MW-3A - Post Remediation

Date	Series 3 Naphthalene
7/7/2015	6000
7/11/2016	530
10/17/2016	400
3/22/2017	260
6/1/2017	450
9/8/2017	340
12/4/2017	1700
4/30/2018	750
7/9/2018	110
10/3/2018	1100
1/7/2019	580
4/26/2019	1800
7/9/2019	90

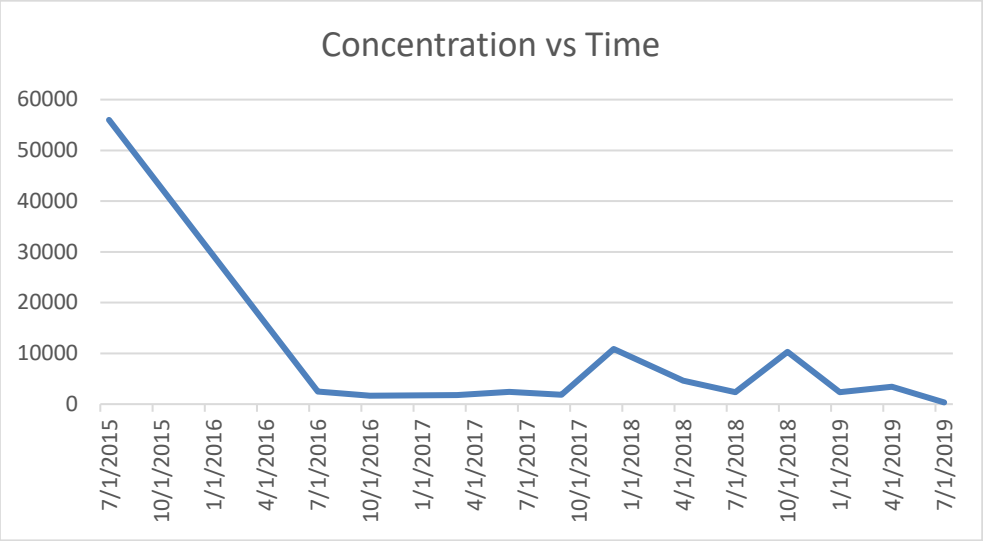


Date	Series 4 Toluene
7/7/2015	68000
7/11/2016	16000
10/17/2016	11000
3/22/2017	11000
6/1/2017	12000
9/8/2017	15000
12/4/2017	11000
4/30/2018	18000
7/9/2018	9500
10/3/2018	7700
1/7/2019	11000
4/26/2019	9400
7/9/2019	14000

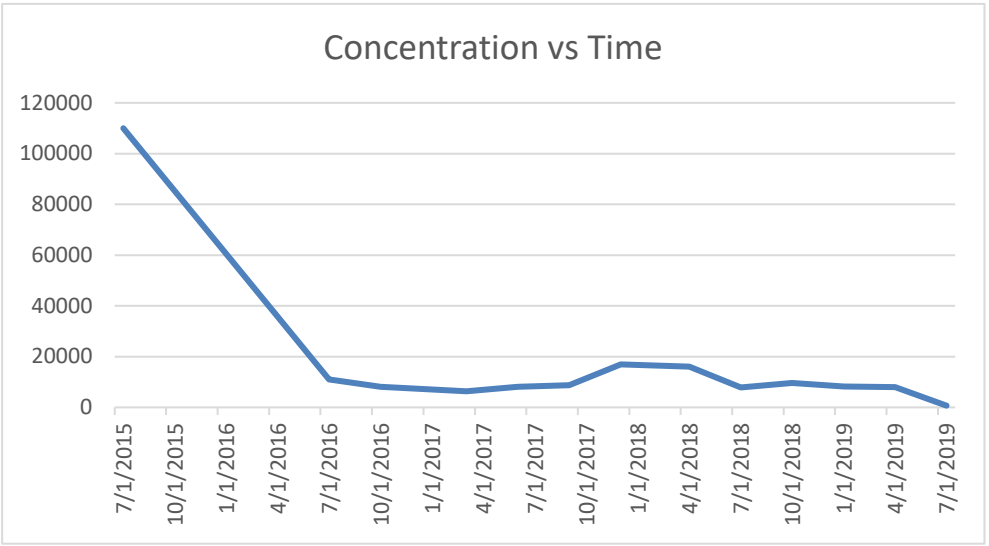


DairiConcepts, Chili, WI - MW-3A - Post Remediation

Date	Series 5 Total TMBs
7/7/2015	56000
7/11/2016	2470
10/17/2016	1670
3/22/2017	1790
6/1/2017	2430
9/8/2017	1840
12/4/2017	10900
4/30/2018	4600
7/9/2018	2350
10/3/2018	10300
1/7/2019	2350
4/26/2019	3430
7/9/2019	335

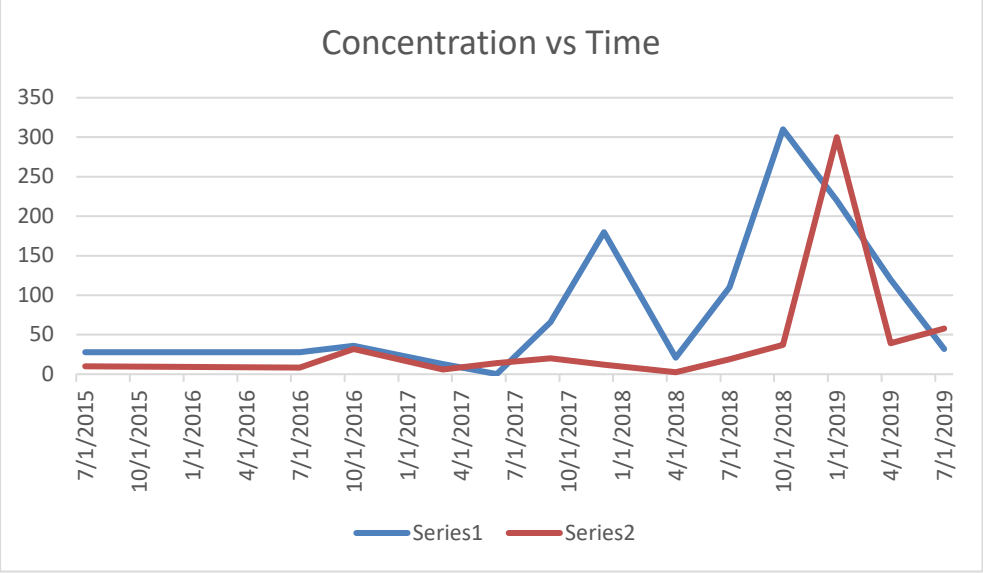


Date	Series 6 Total Xylenes
7/7/2015	110000
7/11/2016	11000
10/17/2016	8100
3/22/2017	6300
6/1/2017	8100
9/8/2017	8700
12/4/2017	17000
4/30/2018	16000
7/9/2018	7900
10/3/2018	9600
1/7/2019	8300
4/26/2019	8000
7/9/2019	680

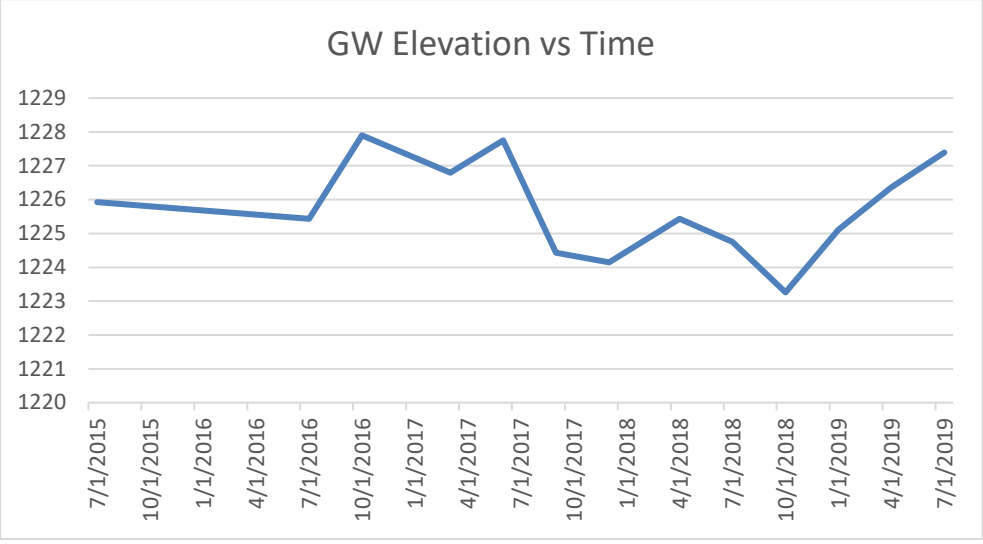


DairiConcepts, Chili, WI - MW-4A - Post Remediation

Date	Series 1 Benzene	Series 2 Naphthalene
7/7/2015	28	10
7/11/2016	28	8.2
10/17/2016	36	32
3/22/2017	13	5.9
6/1/2017	0.18	14
9/8/2017	66	20
12/4/2017	180	12
4/30/2018	21	2.5
7/9/2018	110	19
10/3/2018	310	37
1/7/2019	220	300
4/26/2019	120	39
7/9/2019	32	58

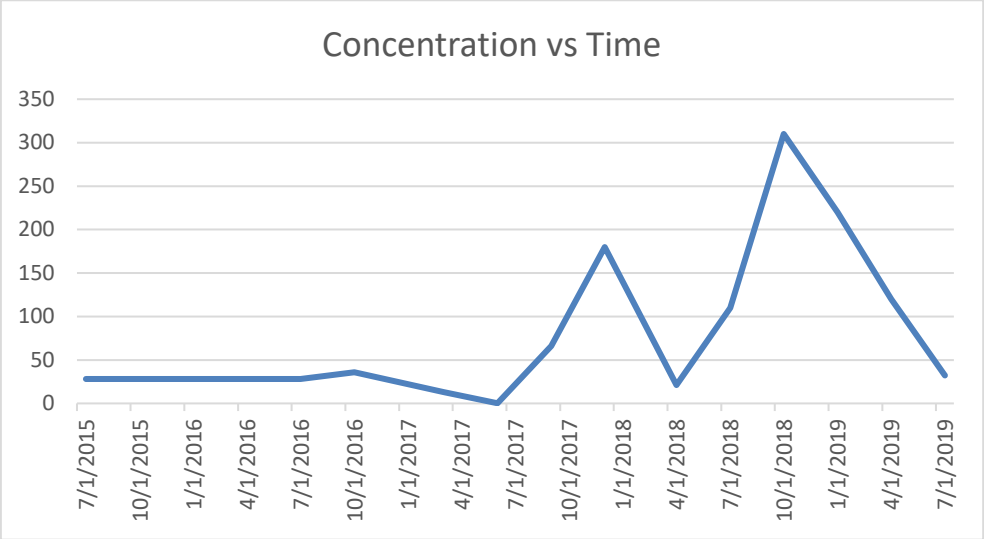


Date	Series 1 Groundwater Elevation
7/7/2015	1225.93
7/11/2016	1225.43
10/17/2016	1227.90
3/22/2017	1226.80
6/1/2017	1227.75
9/8/2017	1224.43
12/4/2017	1224.15
4/30/2018	1225.43
7/9/2018	1224.75
10/3/2018	1223.26
1/7/2019	1225.11
4/26/2019	1226.36
7/9/2019	1227.39

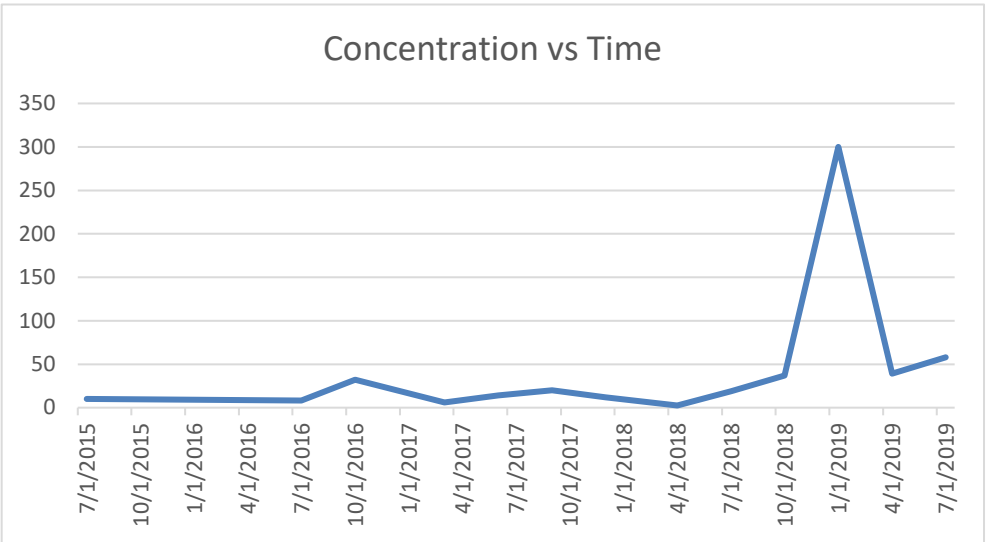


DairiConcepts, Chili, WI - MW-4A - Post Remediation

Date	Series 1 Benzene
7/7/2015	28
7/11/2016	28
10/17/2016	36
3/22/2017	13
6/1/2017	0.18
9/8/2017	66
12/4/2017	180
4/30/2018	21
7/9/2018	110
10/3/2018	310
1/7/2019	220
4/26/2019	120
7/9/2019	32

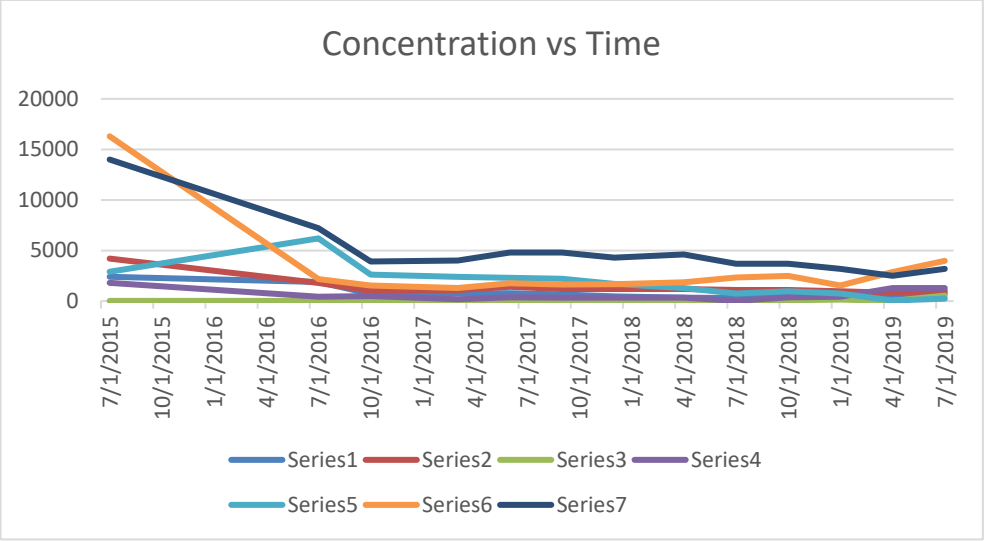


Date	Series 2 Naphthalene
7/7/2015	10
7/11/2016	8.2
10/17/2016	32
3/22/2017	5.9
6/1/2017	14
9/8/2017	20
12/4/2017	12
4/30/2018	2.5
7/9/2018	19
10/3/2018	37
1/7/2019	300
4/26/2019	39
7/9/2019	58

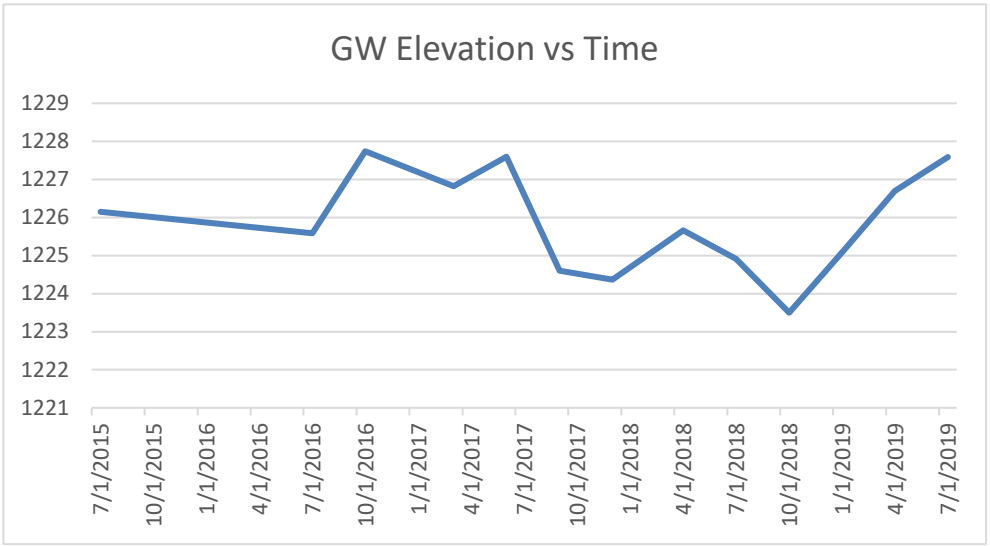


DairiConcepts, Chili, WI - MW-4/4R - Post Remediation

Date	Series 1 Benzene	Series 2 Ethylbenzene	Series 3 MTBE	Series 4 Naphthalene	Series 5 Toluene	Series 6 Total TMBs	Series 7 Total Xylenes
7/7/2015	2400	4200	24	1800	2900	16300	14000
7/11/2016	1900	1800	1.95	430	6200	2180	7200
10/17/2016	700	1000	4.25	500	2600	1550	3900
3/22/2017	740	1100	1	190	2400	1290	4000
6/1/2017	780	1400	0.395	360	2300	1770	4800
9/8/2017	660	1200	1	320	2200	1620	4800
12/4/2017	450	1200	1.95	320	1700	1680	4300
4/30/2018	350	1200	0.395	340	1300	1850	4600
7/9/2018	300	1100	0.395	14	740	2320	3700
10/3/2018	440	1100	87	380	960	2500	3700
1/7/2019	440	970	160	440	760	1530	3200
4/26/2019	310	810	26	1300	48	2880	2500
7/9/2019	760	1000	540	1300	230	3990	3200

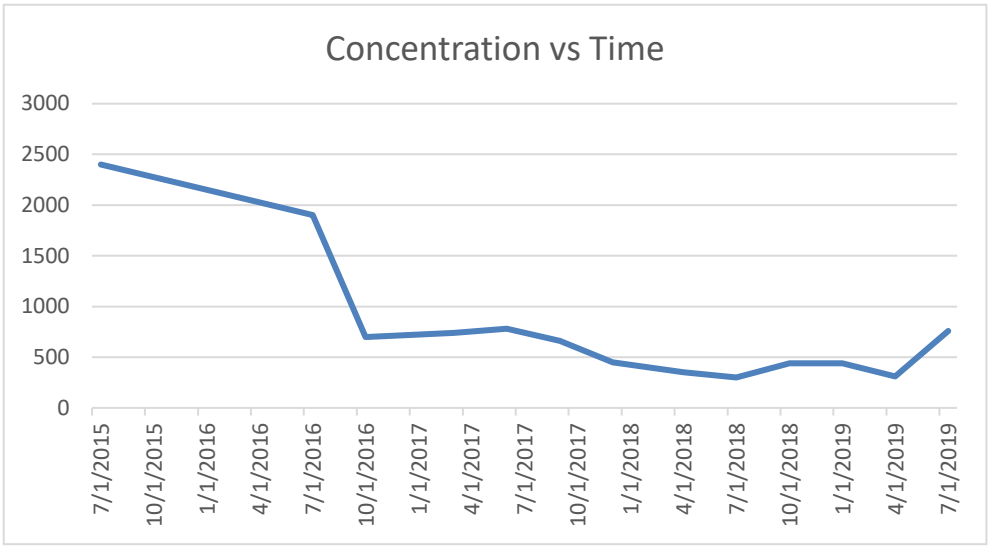


Date	Series 1 Groundwater Elevation
7/7/2015	1226.15
7/11/2016	1225.59
10/17/2016	1227.74
3/22/2017	1226.82
6/1/2017	1227.60
9/8/2017	1224.60
12/4/2017	1224.37
4/30/2018	1225.66
7/9/2018	1224.91
10/3/2018	1223.50
1/7/2019	1225.08
4/26/2019	1226.70
7/9/2019	1227.59

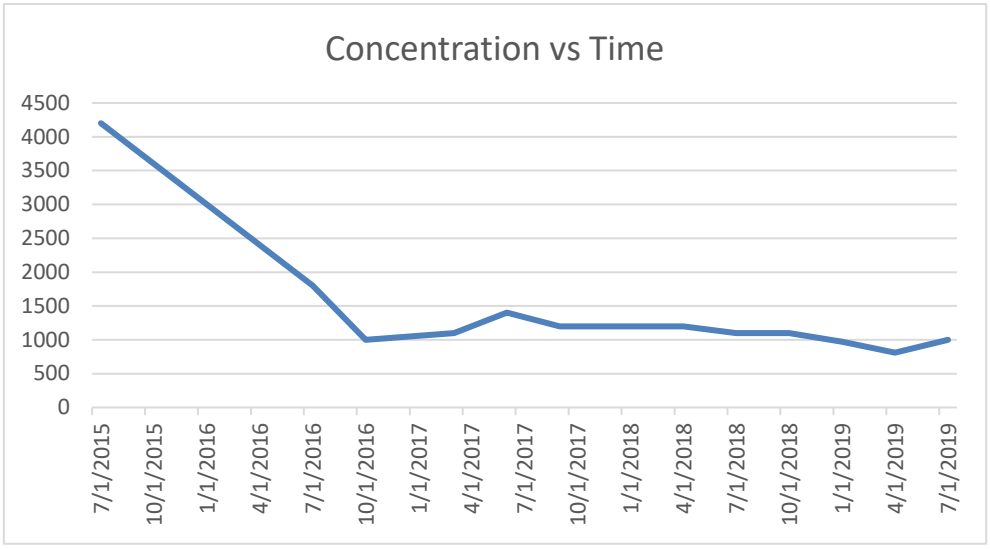


DairiConcepts, Chili, WI - MW-4/4R - Post Remediation

Date	Series 1 Benzene
7/7/2015	2400
7/11/2016	1900
10/17/2016	700
3/22/2017	740
6/1/2017	780
9/8/2017	660
12/4/2017	450
4/30/2018	350
7/9/2018	300
10/3/2018	440
1/7/2019	440
4/26/2019	310
7/9/2019	760

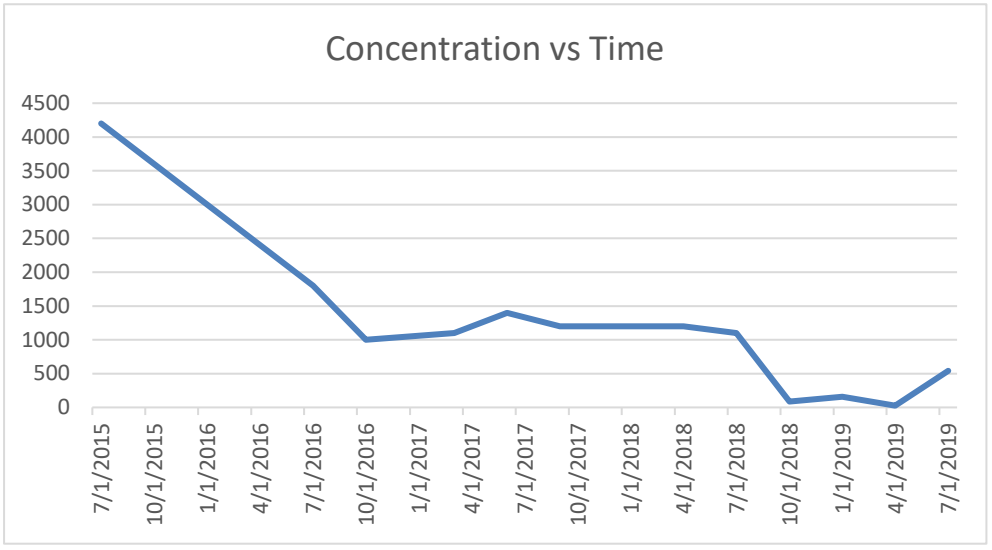


Date	Series 2 Ethylbenzene
7/7/2015	4200
7/11/2016	1800
10/17/2016	1000
3/22/2017	1100
6/1/2017	1400
9/8/2017	1200
12/4/2017	1200
4/30/2018	1200
7/9/2018	1100
10/3/2018	1100
1/7/2019	970
4/26/2019	810
7/9/2019	1000

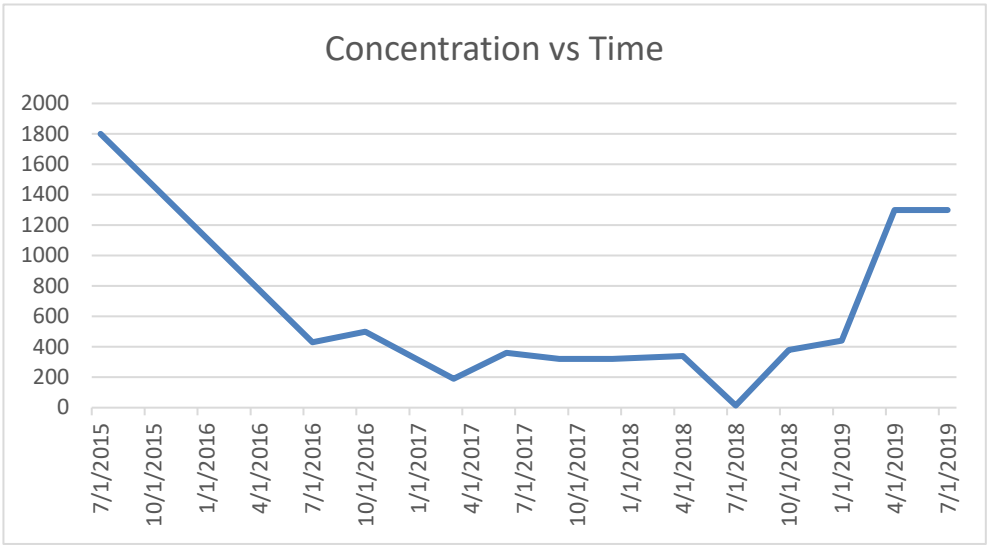


DairiConcepts, Chili, WI - MW-4/4R - Post Remediation

Date	Series 3 MTBE
7/7/2015	4200
7/11/2016	1800
10/17/2016	1000
3/22/2017	1100
6/1/2017	1400
9/8/2017	1200
12/4/2017	1200
4/30/2018	1200
7/9/2018	1100
10/3/2018	87
1/7/2019	160
4/26/2019	26
7/9/2019	540

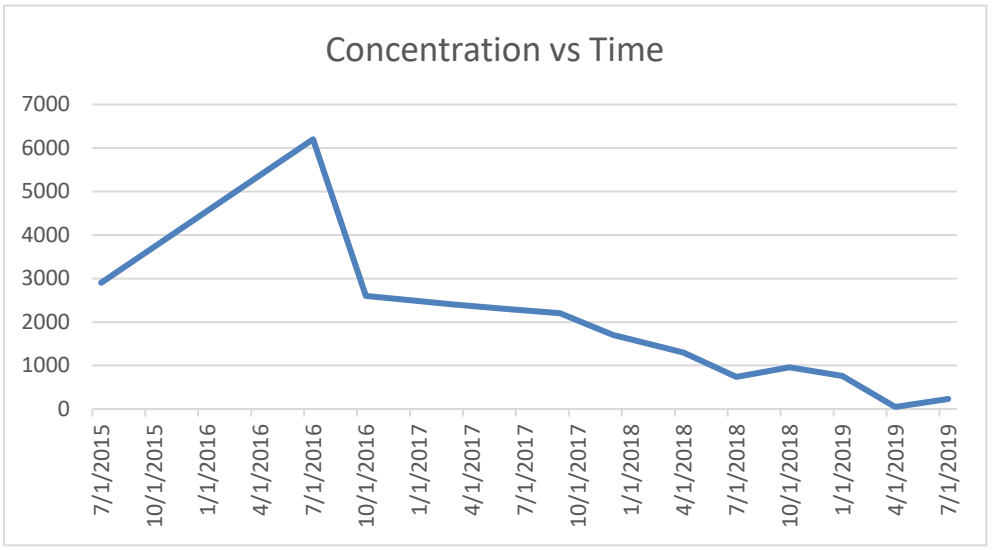


Date	Series 4 Naphthalene
7/7/2015	1800
7/11/2016	430
10/17/2016	500
3/22/2017	190
6/1/2017	360
9/8/2017	320
12/4/2017	320
4/30/2018	340
7/9/2018	14
10/3/2018	380
1/7/2019	440
4/26/2019	1300
7/9/2019	1300

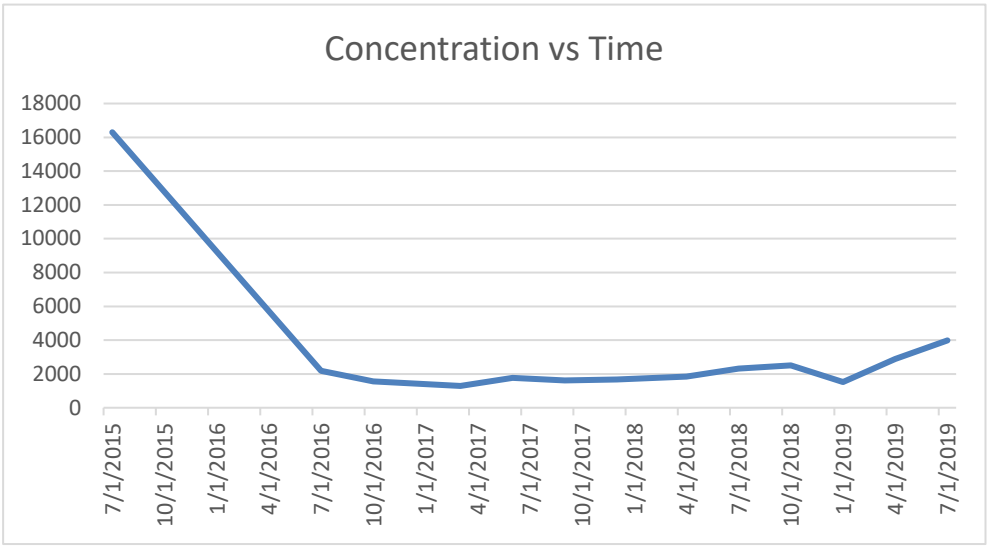


DairiConcepts, Chili, WI - MW-4/4R - Post Remediation

Date	Series 5 Toluene
7/7/2015	2900
7/11/2016	6200
10/17/2016	2600
3/22/2017	2400
6/1/2017	2300
9/8/2017	2200
12/4/2017	1700
4/30/2018	1300
7/9/2018	740
10/3/2018	960
1/7/2019	760
4/26/2019	48
7/9/2019	230

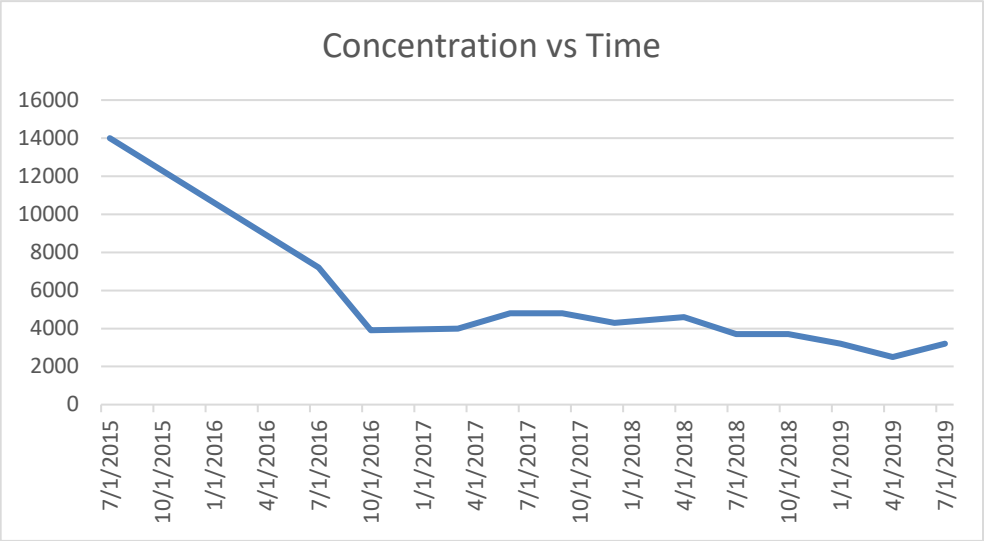


Date	Series 6 Total TMBs
7/7/2015	16300
7/11/2016	2180
10/17/2016	1550
3/22/2017	1290
6/1/2017	1770
9/8/2017	1620
12/4/2017	1680
4/30/2018	1850
7/9/2018	2320
10/3/2018	2500
1/7/2019	1530
4/26/2019	2880
7/9/2019	3990



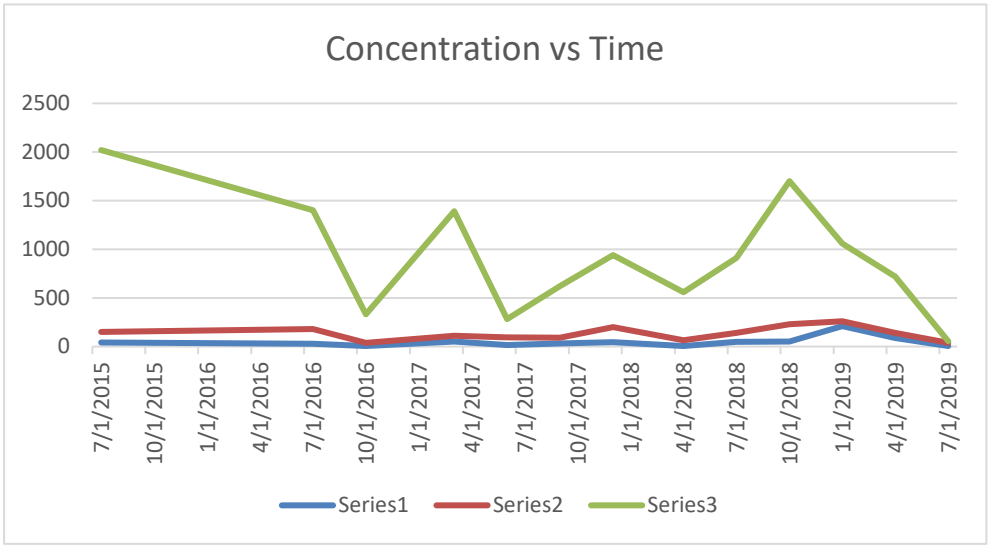
DairiConcepts, Chili, WI - MW-4/4R - Post Remediation

Date	Series 7 Total Xylenes
7/7/2015	14000
7/11/2016	7200
10/17/2016	3900
3/22/2017	4000
6/1/2017	4800
9/8/2017	4800
12/4/2017	4300
4/30/2018	4600
7/9/2018	3700
10/3/2018	3700
1/7/2019	3200
4/26/2019	2500
7/9/2019	3200

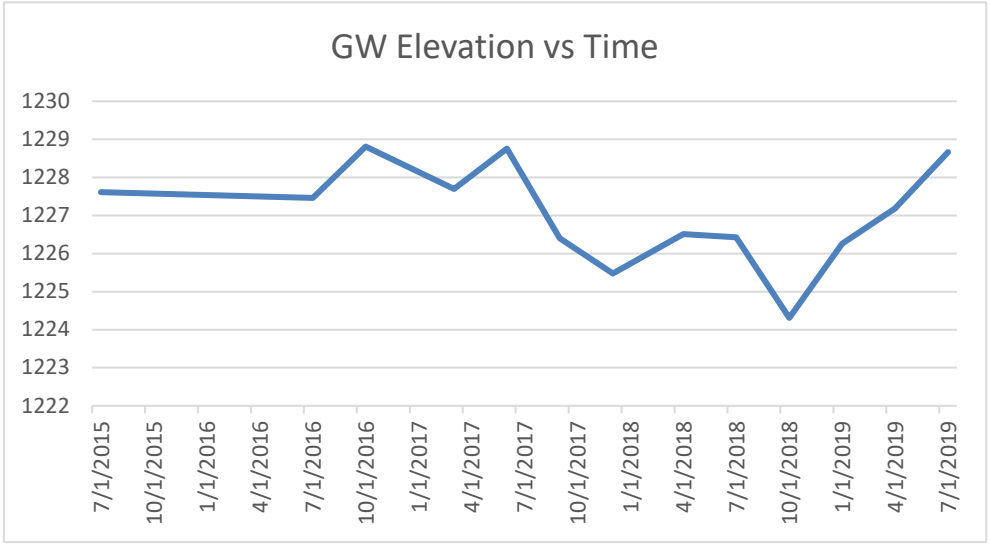


DairiConcepts, Chili, WI - MW-5A - Post Remediation

Date	Series 1 Benzene	Series 2 Naphthalene	Series 3 TMB
7/7/2015	42	150	2020
7/11/2016	30	180	1400
10/17/2016	6	38	332
3/22/2017	51	110	1390
6/1/2017	16	96	283
9/8/2017	32	92	620
12/4/2017	46	200	940
4/30/2018	5.6	65	560
7/9/2018	48	140	910
10/3/2018	53	230	1700
1/7/2019	210	260	1060
4/26/2019	89	140	720
7/9/2019	6.3	40	55

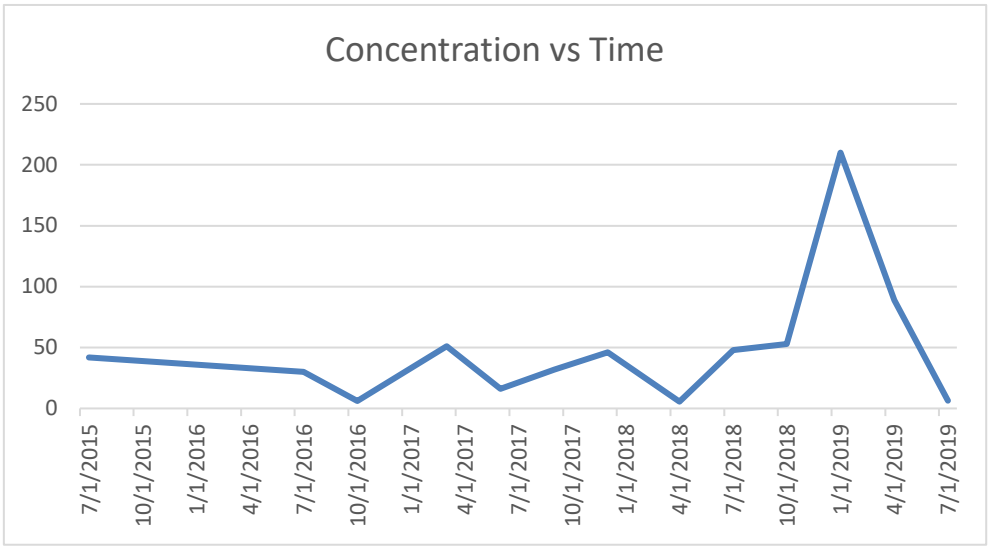


Date	Series 1 Groundwater Elevation
7/7/2015	1227.61
7/11/2016	1227.46
10/17/2016	1228.81
3/22/2017	1227.70
6/1/2017	1228.76
9/8/2017	1226.40
12/4/2017	1225.48
4/30/2018	1226.51
7/9/2018	1226.43
10/3/2018	1224.31
1/7/2019	1226.26
4/26/2019	1227.18
7/9/2019	1228.66

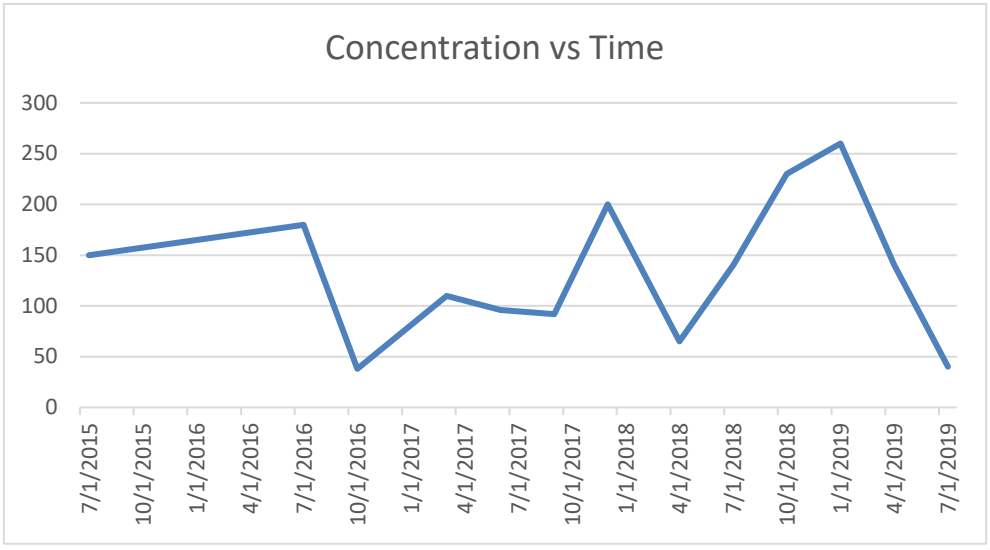


DairiConcepts, Chili, WI - MW-5A - Post Remediation

Date	Series 1 Benzene
7/7/2015	42
7/11/2016	30
10/17/2016	6
3/22/2017	51
6/1/2017	16
9/8/2017	32
12/4/2017	46
4/30/2018	5.6
7/9/2018	48
10/3/2018	53
1/7/2019	210
4/26/2019	89
7/9/2019	6.3

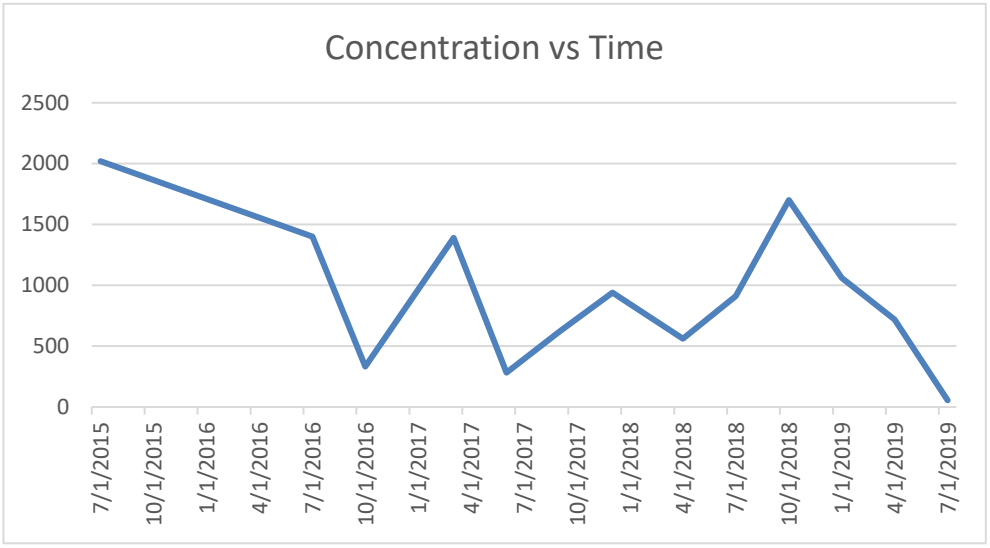


Date	Series 2 Naphthalene
7/7/2015	150
7/11/2016	180
10/17/2016	38
3/22/2017	110
6/1/2017	96
9/8/2017	92
12/4/2017	200
4/30/2018	65
7/9/2018	140
10/3/2018	230
1/7/2019	260
4/26/2019	140
7/9/2019	40



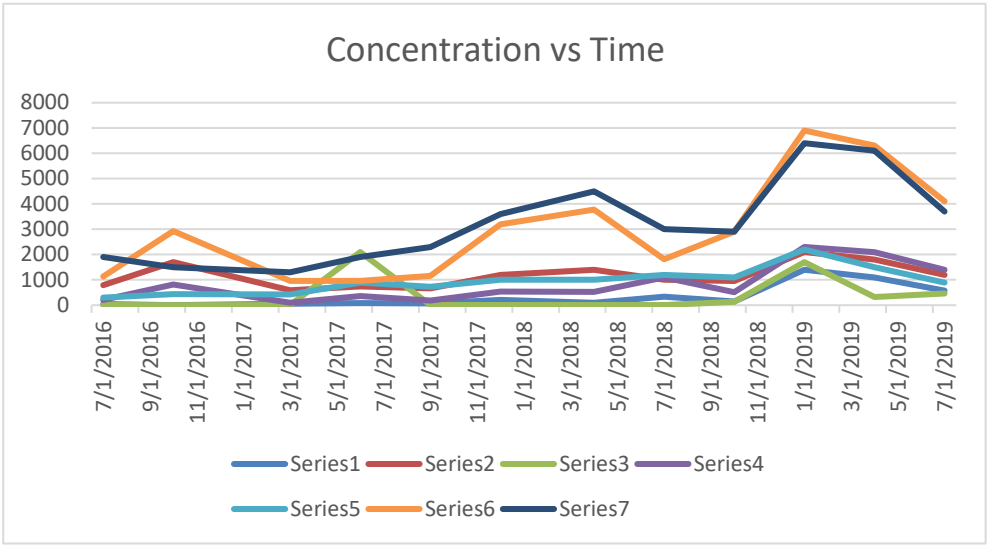
DairiConcepts, Chili, WI - MW-5A - Post Remediation

Date	Series 3 TMB
7/7/2015	2020
7/11/2016	1400
10/17/2016	332
3/22/2017	1390
6/1/2017	283
9/8/2017	620
12/4/2017	940
4/30/2018	560
7/9/2018	910
10/3/2018	1700
1/7/2019	1060
4/26/2019	720
7/9/2019	55

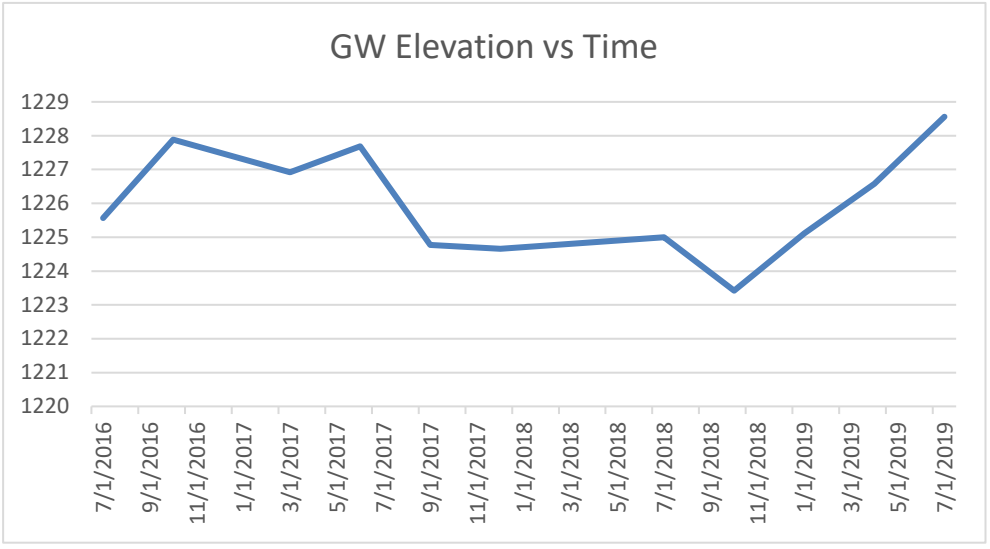


DairiConcepts, Chili, WI - MW-10 - Post Remediation

Date	Series 1 Benzene	Series 2 Ethylbenzene	Series 3 MTBE	Series 4 Naphthalene	Series 5 Toluene	Series 6 TMBs	Series 7 Xylenes
7/11/2016	49	790	1	210	300	1130	1900
10/17/2016	1	1700	0.85	820	440	2930	1500
3/22/2017	54	590	1	97	420	960	1300
6/1/2017	87	740	2100	360	890	960	1900
9/8/2017	64	670	1	180	730	1160	2300
12/4/2017	210	1200	1.95	540	1000	3190	3600
4/30/2018	100	1400	3.95	530	1000	3780	4500
7/9/2018	340	1000	3.95	1100	1200	1820	3000
10/3/2018	140	960	130	510	1100	2900	2900
1/7/2019	1400	2100	1700	2300	2200	6900	6400
4/26/2019	1100	1800	320	2100	1500	6300	6100
7/9/2019	570	1200	460	1400	890	4100	3700

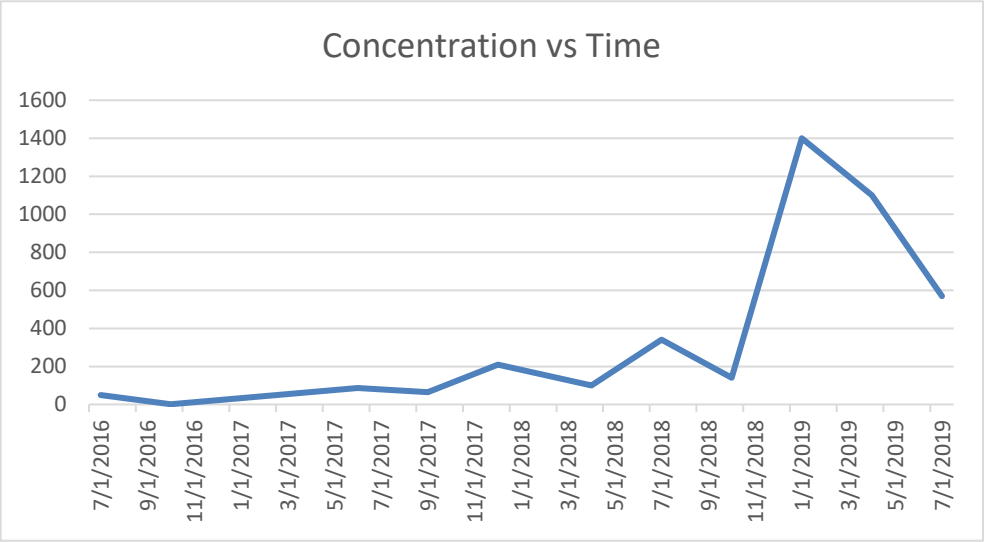


Date	Series 1 Groundwater Elevation
7/11/2016	1225.57
10/17/2016	1227.88
3/22/2017	1226.92
6/1/2017	1227.69
9/8/2017	1224.77
12/4/2017	1224.66
7/9/2018	1225.00
10/3/2018	1223.42
1/7/2019	1225.11
4/26/2019	1226.58
7/9/2019	1228.56

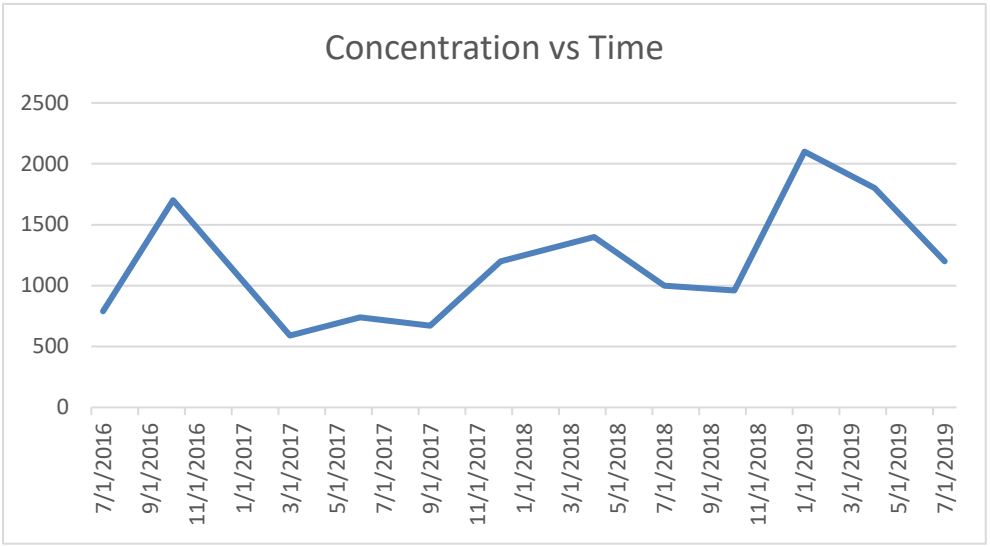


DairiConcepts, Chili, WI - MW-10 - Post Remediation

Date	Series 1 Benzene
7/11/2016	49
10/17/2016	1
3/22/2017	54
6/1/2017	87
9/8/2017	64
12/4/2017	210
4/30/2018	100
7/9/2018	340
10/3/2018	140
1/7/2019	1400
4/26/2019	1100
7/9/2019	570

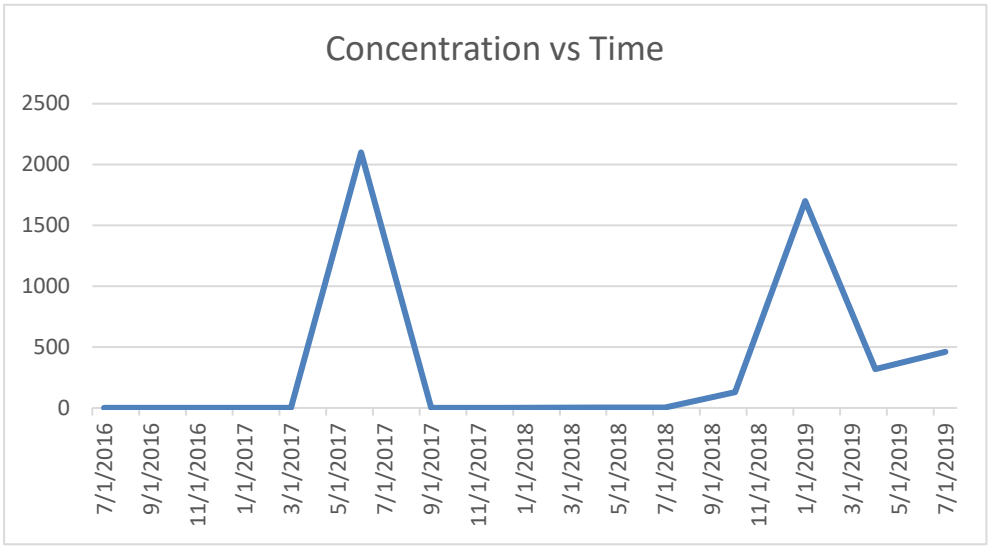


Date	Series 2 Ethylbenzene
7/11/2016	790
10/17/2016	1700
3/22/2017	590
6/1/2017	740
9/8/2017	670
12/4/2017	1200
4/30/2018	1400
7/9/2018	1000
10/3/2018	960
1/7/2019	2100
4/26/2019	1800
7/9/2019	1200

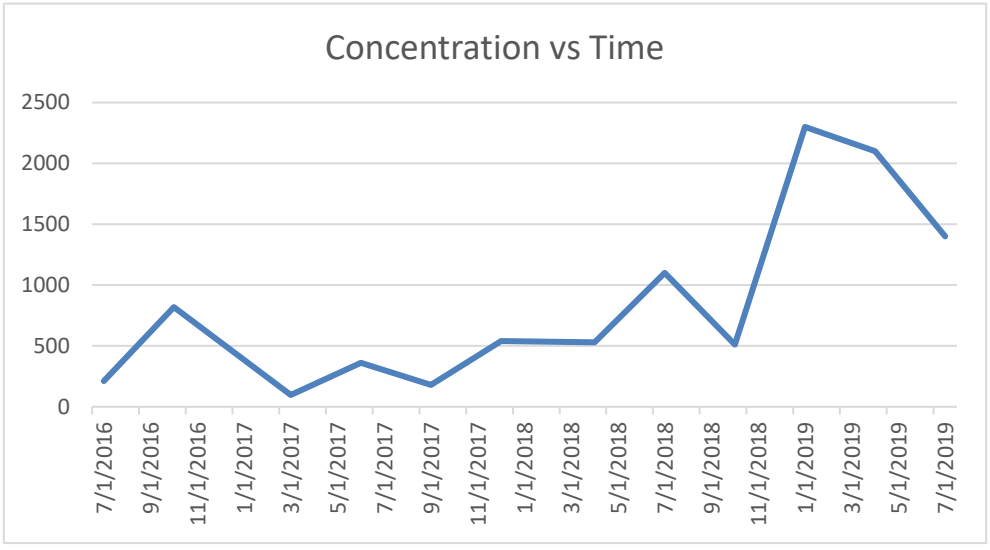


DairiConcepts, Chili, WI - MW-10 - Post Remediation

Date	Series 3 MTBE
7/11/2016	1
10/17/2016	0.85
3/22/2017	1
6/1/2017	2100
9/8/2017	1
12/4/2017	1.95
4/30/2018	3.95
7/9/2018	3.95
10/3/2018	130
1/7/2019	1700
4/26/2019	320
7/9/2019	460

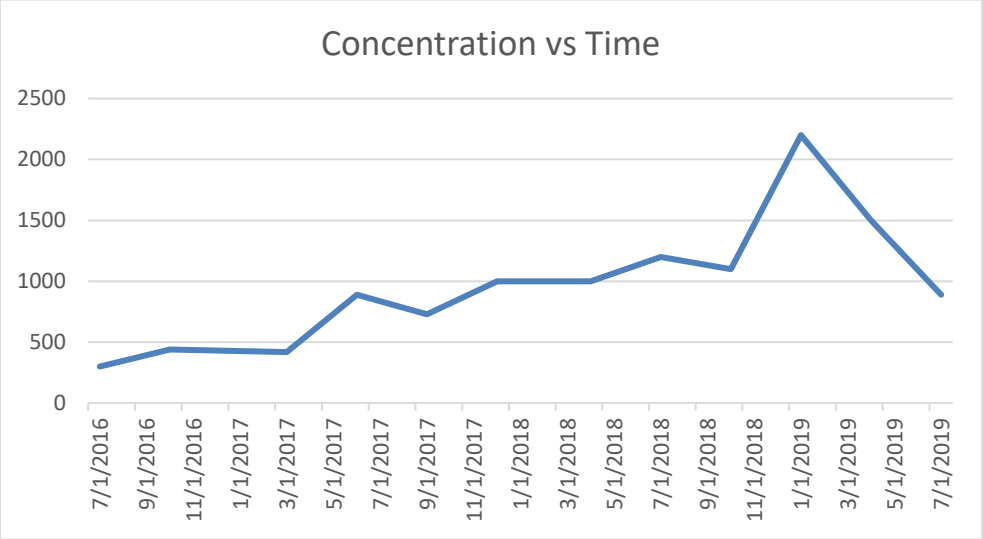


Date	Series 4 Naphthalene
7/11/2016	210
10/17/2016	820
3/22/2017	97
6/1/2017	360
9/8/2017	180
12/4/2017	540
4/30/2018	530
7/9/2018	1100
10/3/2018	510
1/7/2019	2300
4/26/2019	2100
7/9/2019	1400

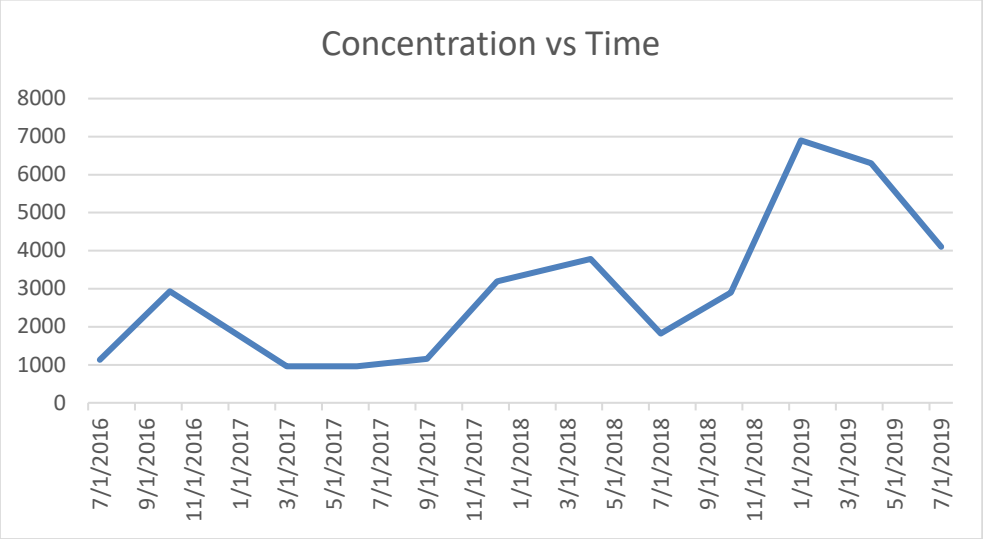


DairiConcepts, Chili, WI - MW-10 - Post Remediation

Date	Series 5 Toluene
7/11/2016	300
10/17/2016	440
3/22/2017	420
6/1/2017	890
9/8/2017	730
12/4/2017	1000
4/30/2018	1000
7/9/2018	1200
10/3/2018	1100
1/7/2019	2200
4/26/2019	1500
7/9/2019	890



Date	Series 6 TMBs
7/11/2016	1130
10/17/2016	2930
3/22/2017	960
6/1/2017	960
9/8/2017	1160
12/4/2017	3190
4/30/2018	3780
7/9/2018	1820
10/3/2018	2900
1/7/2019	6900
4/26/2019	6300
7/9/2019	4100



DairiConcepts, Chili, WI - MW-10 - Post Remediation

Date	Series 7 Xylenes
7/11/2016	1900
10/17/2016	1500
3/22/2017	1300
6/1/2017	1900
9/8/2017	2300
12/4/2017	3600
4/30/2018	4500
7/9/2018	3000
10/3/2018	2900
1/7/2019	6400
4/26/2019	6100
7/9/2019	3700