

JANUARY 24, 2020

**REPORT OF RESULTS – FALL 2019  
GROUNDWATER SAMPLING EVENT**

**ARKEMA COATING RESINS  
340 RAILROAD STREET  
SAUKVILLE, WISCONSIN  
WDNR FID #: 246004330  
BRRTS #: 02-46-000767**

**ENDPOINT PROJECT No. 341-001-007:005**

PREPARED FOR:

**RETIA USA LLC**  
665 STOCKTON DRIVE, SUITE 100  
EXTON, PA 19341

PREPARED BY:



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Prepared By:	 _____ Timothy C. Petrick Senior Technical Consultant	<u>January 24, 2020</u> Date
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## EXECUTIVE SUMMARY

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This report presents the results of the Fall 2019 quarterly groundwater monitoring conducted at the Arkema Coating Resins facility (the Facility) in Saukville, Wisconsin (**Figure 1**). The Facility was formerly owned and operated by CCP Composites US (CCP) which was owned by Total Petrochemicals (Total). Total maintains the responsibility for responding to the Administrative Consent Order at the Facility through Retia USA LLC which is an entity owned by Total to manage sites with legacy environmental issues. In accordance with the Modified Groundwater Monitoring Plan approved by the Wisconsin Department of Natural Resources (WDNR) on July 11, 2005, water samples were scheduled to be collected from the following monitoring points on, or in the vicinity of, the Facility during the October 2019 sampling event:

- Three (3) municipal water supply wells;
- The Village of Saukville publicly owned treatment works (POTW);
- Three (3) on-site Ranney Collectors;
- Seventeen (17) perimeter monitoring wells; and,
- Twelve (12) remediation progress points.

The following monitoring point could not be fully sampled during the Fall 2019 sampling event:

- Shallow dolomite remediation progress extraction well **W-28**.

The analytical testing was performed by Synergy Environmental Lab located in Appleton, Wisconsin (WI Certification # 445037560). The following methods were used to analyze the submitted samples.

Volatile Organic Compounds (VOC)	SW846 8260B
Semi-Volatile Organic Compounds (SVOC)	SW846 8270C
Metals	SW846 6020
Polychlorinated Biphenyls (PCBs)	SW846 8081

The groundwater monitoring plan requires the samples collected from Ranney Collectors **RC-1**, **RC-2** and **RC-3** be analyzed using U.S. Environmental Protection Agency (USEPA) Method SW846 8021. However, to provide the lowest detection limits possible, the Ranney Collector samples are analyzed using EPA Method SW846 8260B. The reported results are limited to benzene, ethylbenzene, toluene, total xylene, chlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene and 1,4-dichlorobenzene per the groundwater monitoring plan.

Analytes, reporting limits, and explanations of the data qualifiers are described in **Appendix B**. Laboratory results were validated by an Endpoint environmental professional. The quality assurance/quality control (QA/QC) review is summarized in **Appendix C**.

The results of the Fall 2019 monitoring event are summarized below. A detailed discussion of the results is presented in **Sections 2.0** and **Section 3.0** of this report.

## **RECEPTOR MONITORING POINTS**

### Municipal Water Supply Wells

- No VOCs were detected above the method detection limit (MDL) in the samples collected from the three (3) Municipal Water Supply Wells No. 1 (**MW-1**), No. 3 (**MW-3**) and No. 4 (**MW-4**).

### Publicly Owned Treatment Works

- No VOCs were detected above their respective The MDLs in the POTW-Effluent (**POTW-E**) sample.
- The POTW-Influent (**POTW-I**) sample contained detectable concentrations of acetone, ethylbenzene, toluene and total xylenes.
- The POTW-Sludge (**POTW-S**) sample contain a single detection of toluene, with no other detectable concentrations of VOCs. However, due to headspace caused by a reaction between the organic matter in the sludge and the hydrochloric acid preservative, the sample was required to be analyzed at a 500-dilution factor.

### Ranney Collectors

- The sample collected from Ranney Collector No. 1 (**RC-1**) contained detectable concentrations of total xylenes, ethylbenzene, benzene, toluene, cis-1,2-dichloroethene, vinyl chloride (VC) and naphthalene. The detected concentrations of benzene and VC exceeded their respective WAC Chapter 140 Enforcement Standards (ESs) and the concentrations of cis-1,2-dichloroethene, ethylbenzene and total xylenes exceeded their respective WAC Chapter 140 Enforcement Standards Preventative Action Limits (PALs).
- The sample collected from Ranney Collector No. 2 (**RC-2**) did not contain any detectable concentrations of VOCs.
- The sample collected from Ranney Collector No. 3 (**RC-3**) contained detectable concentrations of total xylenes, ethylbenzene and toluene. All of the detected constituents exceeded their respective ESs.

## **PERIMETER MONITORING POINTS**

All of the seventeen (17) perimeter monitoring points scheduled to be sampled during the Fall 2019 groundwater monitoring event were sampled.

No VOCs were detected above The MDLs in the groundwater samples collected from perimeter monitoring points **W-01A, W-03A, W-03B, W-04A, W-07, W-08R, W-16A, W-20, W-22, W-40, W-49, W-50, W-51** and **PW-08**.

The following perimeter monitoring points contained detectable concentrations of VOCs as described below.

#### W-23

The groundwater sample collected from perimeter shallow dolomite monitoring well **W-23** contained estimated concentrations of cis-1,2-dichloroethene, benzene and VC. The concentrations of benzene, cis-1,2-dichloroethene and VC were reported as estimates due to the concentrations being between the limit of detection (LOD) and the limit of quantitation (LOQ). The estimated concentration of vinyl chloride exceeded its ES.

#### W-27

The groundwater sample collected from perimeter glacial drift monitoring well **W-27** contained detectable concentrations of trichloroethene (TCE), cis-1,2-dichloroethene and an estimated concentration of 1,1,1-trichloroethane. The concentration of TCE detected exceeded its ES.

#### W-52

The groundwater sample collected from perimeter shallow dolomite monitoring well **W-52** contained detectable concentrations of trichlorofluoromethane, benzene, cis-1,2-dichloroethene, VC, along with estimated concentrations of trans-1,2-dichloroethene and TCE. The concentrations of benzene and VC exceeded their respective ESs and the concentration of cis-1,2-dichloroethene exceeded its PAL.

### **REMEDIATION PROGRESS POINTS**

With the exception of shallow dolomite extraction well **W-28**, all of the twelve (12) remediation progress points scheduled for sampling during the Fall 2019 groundwater sampling event were sampled. Due to a pump fault, a sample could not be collected from shallow dolomite extraction well **W-28**.

#### W-06A

The groundwater sample collected from glacial drift remediation progress monitoring well **W-06A** during the Fall 2019 groundwater sampling event contained detectable concentrations of the following VOCs: total xylenes, toluene, ethylbenzene and an estimated concentration of benzene. In addition, the groundwater sample contained detectable concentrations of arsenic and barium, as well as SVOC constituents: 2,4-dimethylphenol, m&p-cresol, phenol, o-cresol, acetophenone and estimated concentrations of naphthalene and 4-chloro-3-methylphenol. The concentrations of ethylbenzene, toluene, total xylenes, arsenic and the estimated concentration of benzene exceeded their respective ESs and the estimated concentration of naphthalene exceeded its PAL.

#### W-19A

The groundwater sample collected from glacial drift remediation progress point **W-19A** contained detectable concentrations of TCE, cis-1,2-dichloroethene and an estimated concentration of VC. The

concentrations of TCE and VC exceeded their respective ESs, while the concentration of cis-1,2-dichloroethene exceeded its PAL.

#### W-21A

The groundwater sample collected from shallow dolomite extraction well **W-21A** contained detectable concentrations of the following VOCs: ethylbenzene, total xylenes, benzene and an estimated concentration of toluene. In addition, the groundwater sample contained a detectable concentration of barium and an estimated concentration of arsenic as well as the following SVOCs constituents: 2,4-dimethylphenol and phenol and estimated concentrations of o-cresol and naphthalene. The concentrations of benzene, ethylbenzene, total xylenes and arsenic exceeded their respective ESs.

#### W-24A

The groundwater sample collected from shallow dolomite extraction well **W-24A** contained detectable concentrations of the following VOCs: 1,4-dioxane, cis-1,2-dichloroethene, TCE, VC and an estimated concentration of trans-1,2-dichloroethene, as well as barium and the SVOC constituent bis(2-ethylhexyl) phthalate. The concentrations of 1,4-dioxane, VC and bis(2-ethylhexyl) phthalate exceeded their respective ESs, while the concentrations of cis-1,2-dichloroethene and TCE exceeded their respective PALs.

#### W-29

The groundwater sample collected from shallow dolomite extraction well **W-29** contained detectable concentrations of the following VOCs: 1,4-dioxane, ethylbenzene, benzene, total xylenes, toluene and styrene and an estimated concentration of carbon disulfide. Barium was also detected. The concentrations of benzene and 1,4-dioxane exceeded their respective ESs.

#### W-30

The groundwater sample collected from deep dolomite pumping well **W-30** contained detectable concentrations of the following VOCs: trichlorofluoromethane and benzene, and an estimated concentration of cis-1,2-dichloroethene. Barium was also detected. The concentration of benzene exceeded its PAL.

#### W-38

The groundwater sample collected from shallow dolomite remediation progress point **W-38** contained a detectable concentration of benzene which exceeded its ES.

#### W-41

The groundwater sample collected from glacial drift remediation progress point **W-41** contained an estimated concentration of benzene; however, the concentration detected did not exceed its PAL.



#### W-42

The groundwater sample collected from glacial drift remediation progress monitoring well **W-42** contained detectable concentrations of m&p-xylene, ethylbenzene, benzene and an estimated concentration of toluene. The concentrations of benzene and m&p-xylene exceeded their respective ESs.

#### W-43

The groundwater sample collected from glacial drift remediation progress monitoring well **W-43** contained a detectable concentration of benzene and an estimated concentration of carbon disulfide. Barium was also detected. The concentration of benzene exceeded its PAL.

#### W-47

The groundwater sample collected from glacial drift remediation progress monitoring well **W-47** contained a detectable concentration of total xylenes and an estimated concentration of ethylbenzene. Barium and the following SVOC constituents were detected: an detectable concentration of 2,4- dimethylphenol and an estimated concentration of naphthalene. The concentration of total xylenes exceeded its ES.

#### **QUALITY ASSURANCE/QUALITY CONTROL**

Six (6) blind duplicate samples were submitted to the laboratory for analysis. Results of the blind duplicate samples were within an acceptable range of the associated parent sample results. More details regarding the QA/QC sampling and results is presented in **Appendix C**.

## 1.0 SAMPLING PROGRAM

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The groundwater monitoring network at Arkema Coating Resins' Saukville facility (the Facility) (**Figure 1**) consists of 46 monitoring points which include 21 glacial drift monitoring wells, ten (10) shallow dolomite monitoring wells, four (4) shallow dolomite extraction wells, four (4) deep dolomite wells, three (3) Ranney Collectors (essentially french drains) and three (3) Publicly Owned Treatment Works (POTW) sampling points (**Figure 2**).

### 1.1 MONITORING NETWORK DESCRIPTION

In addition to classifying the monitoring points according to the hydrogeologic units the wells monitor, the monitoring points have also been classified according to the monitoring objective. The monitoring network has been classified into three (3) monitoring objectives that include receptor monitoring points, perimeter monitoring points and remediation progress points. A discussion of each of these objectives is provided below.

#### 1.1.1 RECEPTOR MONITORING

Receptor points include three (3) municipal water supply wells (**MW-01**, **MW-03**, and **MW-04**); three (3) POTW sampling points including: influent, effluent, and sludge; and the three (3) Ranney Collectors (**RC-1**, **RC-2**, and **RC-3**). The Ranney Collectors are monitored because they discharge to the POTW. The receptor monitoring points are sampled during the April and October sampling events. All of the receptor monitoring points scheduled to be sampled during the Fall 2019 groundwater sampling event were sampled.

#### 1.1.2 PERIMETER MONITORING

Perimeter points are both on- and off-site monitoring wells that are located at or beyond the edge of the contaminant plume. These wells are intended to provide the information necessary to characterize the lateral extent of the impacts. The perimeter monitoring points consist of eight (8) glacial drift monitoring wells, eight (8) shallow dolomite piezometers and one (1) deep dolomite piezometer. The perimeter monitoring points are sampled during the April and October sampling events. All of the perimeter monitoring points scheduled to be sampled during the Fall 2019 groundwater sampling event were sampled.

#### 1.1.3 REMEDIATION PROGRESS MONITORING

Remediation progress points are monitoring wells that are located within the contaminant plume. These wells provide information concerning the effectiveness of the on-site remedial systems. The remediation progress points consist of six (6) glacial drift monitoring wells, four (4) shallow dolomite extraction wells, one (1) shallow dolomite piezometer, and one (1) deep dolomite pumping well. The remediation progress wells are sampled during the October sampling event. With the exception of shallow dolomite extraction well **W-28**, all of the remediation progress points scheduled to be sampled during the Fall 2019 groundwater sampling event were sampled. A pump malfunction in shallow dolomite extraction well **W-28** precluded a sample from being collected.

#### 1.1.4 GROUNDWATER ELEVATION MEASUREMENTS

As part of the monitoring program, water levels are measured in all of the wells semi-annually. In addition to the receptor monitoring points, perimeter monitoring points and remediation progress points, seven (7) glacial drift monitoring wells and one (1) shallow dolomite piezometer are utilized primarily for water level measurements.

#### 1.2 MONITORING NETWORK CHANGES

Since the onset of the monitoring program, three (3) monitoring points have been abandoned. Monitoring wells **W-25** (shallow dolomite) and **W-37** (glacial drift) were abandoned due to damage to the wells from nearby construction projects, and municipal water supply well **MW-2** (deep dolomite) was abandoned following transfer of ownership from the Village of Saukville to CCP Composites US in 2004. These wells have not been replaced since the remaining monitoring network is providing sufficient data for impacts assessment.

## 2.0 MONITORING RESULTS

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Chemical parameters were analyzed in samples from three (3) municipal water supply wells, three (3) sampling points at the village POTW, three (3) onsite Ranney Collectors, 17 perimeter monitoring points, and 11 of 12 remediation progress points during the Fall 2019 groundwater sampling event. Results of the Fall 2019 groundwater sampling event are summarized in the following tables attached in this report:

<b>Table 1</b>	Municipal Water Supply Wells - VOC Results
<b>Table 2</b>	POTW VOC Results
<b>Table 3</b>	Ranney Collector VOC Results
<b>Table 4</b>	Perimeter – Glacial Drift Monitoring Wells – VOC Results
<b>Table 5</b>	Perimeter – Shallow and Deep Dolomite Wells – VOC Results
<b>Table 6</b>	Remediation Progress – Glacial Drift and Shallow Dolomite Wells – VOC Results
<b>Table 7</b>	Remediation Progress – Glacial Drift, Shallow and Deep Dolomite Wells – Metals, SVOC and PCB Results
<b>Table 8</b>	Remediation Progress – Glacial Drift, Shallow and Deep Dolomite Wells - VOC Results

With the exception of the POTW samples, all results have been compared to Wisconsin Administrative Code (WAC) Chapter NR 140 Table 1 Public Health Groundwater Quality Standards defined as preventive action limits (PALs) and enforcement standards (ESs). A summary of PAL and ES exceedances from the Fall 2019 groundwater sampling event is presented in **Table 9**.

The water level measurements from the Fall 2019 sampling event are summarized in **Table 10**. Water table contours in the glacial drift unit, and the potentiometric surface in the shallow dolomite unit are depicted on **Figures 3 and 4**, respectively.

Physical parameters including oxidation-reduction potential (ORP), dissolved oxygen (DO), pH, conductivity and temperature were measured in the field at the time of sampling. The results of the physical parameter measurements along with observations of sample color and odor are recorded on the Groundwater Sampling Field Reports attached in **Appendix A** and are also included on the Results Summary Tables.

### 2.1 WATER LEVEL MEASUREMENTS

The depth to the groundwater was measured in each of the monitoring wells with an electronic water level indicator prior to purging. The depth to the groundwater was converted to an elevation using the surveyed top of casing elevation. Based on the groundwater elevations, two (2) maps were developed. A water table map (**Figure 3**) was developed using the groundwater elevations measured in glacial drift monitoring wells and a potentiometric surface map (**Figure 4**) was

developed using the groundwater elevations measured in the shallow and deep dolomite wells. A brief description of the groundwater flow patterns as depicted on **Figure 3** and **Figure 4** is provided in the following sections.

### 2.1.1 GLACIAL DRIFT WATER TABLE

The groundwater present in the glacial drift unit flows unconfined from the west towards the east across the Facility. Onsite pumping of the Ranney Collectors and glacial drift extraction wells along with the shallow and deep dolomite extraction wells has affected the natural flow of the shallow groundwater across the Facility. Based on the flow pattern observed and the depth to the shallow groundwater, it appears that the groundwater flowing in the glacial drift unit ultimately discharges to the Milwaukee River east of the Facility.

### 2.1.2 SHALLOW DOLOMITE POTENTIOMETRIC SURFACE

Groundwater flow in the shallow and deep dolomite units beneath the Facility is dominated by the pumping of onsite well **W-30**. A significant cone of depression has formed around **W-30**, which pumps at a continuous rate of approximately 150 gallons per minute (gpm).

## 2.2 ANALYTICAL RESULTS

The volatile organic compound (VOC) detections have been summarized by hydrogeologic unit on **Figure 5** and **Figure 6**. The results of the Fall 2019 groundwater-monitoring event are discussed in the following sections.

### 2.2.1 RECEPTOR MONITORING POINTS

#### Municipal Water Supply Wells

No VOCs were detected above the method detection limits (MDLs) in the samples collected from Municipal Water Supply Wells No. 1 (**MW-1-19-4**), No. 3 (**MW-3-19-4**) and No. 4 (**MW-4-19-4**).

#### Publicly Owned Treatment Works

- No VOCs were detected above their respective The MDLs in the POTW-Effluent (**POTW-E**) sample.
- The POTW-Influent (**POTW-I**) sample contained an estimated concentration of acetone (15.5 micrograms per liter [ $\mu\text{g/L}$ ]) along with concentrations of total xylenes (10.23  $\mu\text{g/L}$ ), ethylbenzene (0.94  $\mu\text{g/L}$ ) and toluene (0.72  $\mu\text{g/L}$ ). The concentration of acetone reported was qualified with a “J” flag indicating the result is estimated due to the concentration being between the limit of detection (LOD) and the limit of quantitation (LOQ).
- The POTW-Sludge (**POTW-S**) sample contain a detection of toluene (5,600  $\mu\text{g/L}$ ). However, due to headspace caused by a reaction between the organic matter in the sludge and the hydrochloric acid preservative, the sample was required to be analyzed at a 500-dilution factor.

## Ranney Collectors

- The sample collected from Ranney Collector No. 1 (**RC-1**) contained detectable concentrations of total xylenes (1,009 µg/L), ethylbenzene (610 µg/L), benzene (180 µg/L), toluene (95 µg/L), cis-1,2-dichloroethene (58 µg/L), vinyl chloride (VC) (18.1 µg/L) and naphthalene (9.2 µg/L). The concentrations of benzene and VC exceeded their respective ESs, while the concentrations of cis-1,2-dichloroethene, ethylbenzene and total xylenes exceeded their respective PALs.
- No VOCs were detected in the sample collected from Ranney Collector No. 2 (**RC-2**).
- The sample collected from Ranney Collector No. 3 (**RC-3**) contained detectable concentrations of total xylenes (9,870 µg/L), ethylbenzene (1,810 µg/L) and toluene (1,560 µg/L). The concentrations of ethylbenzene, toluene and total xylenes exceeded their respective ESs.

### 2.2.2 PERIMETER MONITORING POINTS

All seventeen (17) perimeter monitoring points scheduled to be sampled during the Fall 2019 groundwater monitoring event were sampled.

No VOCs were detected above LODs in the groundwater samples collected from perimeter monitoring points **W-01A, W-03A, W-03B, W-04A, W-07, W-08R, W-16A, W-20, W-22, W-40, W-49, W-50** and **PW-08**.

The following perimeter monitoring points contained detectable concentrations of VOCs as described below.

#### W-23

The groundwater sample collected from perimeter shallow dolomite monitoring well **W-23** contained estimated concentrations of cis-1,2-dichloroethene (0.78 µg/L), benzene (0.28 µg/L) and VC (0.24 µg/L). The reported concentration of VC was above its ES.

Perimeter shallow dolomite monitoring well **W-23** is located along the southern border of the Facility. Chlorinated compounds have never been used at the Facility. However, the upgradient JT Roofing property, formerly known as Northern Signal, is undergoing an investigation associated with a release of chlorinated solvents to the environment.

#### W-27

The groundwater sample collected from perimeter glacial drift monitoring well **W-27** contained detectable concentrations of trichloroethene (TCE) (67 µg/L), cis-1,2-dichloroethene (6.1 µg/L) and an estimated concentration of 1,1,1-trichloroethane (0.59 µg/L). The concentration of TCE exceeded its ES.

Perimeter glacial drift monitoring well **W-27** is located upgradient of the Facility on the Saukville Feed Supply property adjacent to the JT Roofing property. Chlorinated compounds have never

been used at the Facility. However, the upgradient JT Roofing property, formerly known as Northern Signal, is undergoing an investigation associated with a release of chlorinated solvents to the environment.

W-51

The groundwater sample collected from perimeter shallow dolomite monitoring point **W-51** contained detectable concentrations of acetone (38 µg/L). This concentration did not exceed its PAL.

Perimeter shallow dolomite monitoring well **W-51** is located along the southern fence line of the Facility away from active production areas downgradient of the JT Roofing property.

W-52

The groundwater sample collected from perimeter shallow dolomite monitoring point **W-52** contained detectable concentrations of trichlorofluoromethane (52 µg/L), benzene (15.7 µg/L), cis-1,2-dichloroethene (12.2 µg/L), VC (7.4 µg/L) and estimated concentrations of trans-1,2-dichloroethene (1.04 µg/L) and TCE (0.47 µg/L). The concentrations of benzene and VC detected in the sample exceeded their respective ESs, while the concentration of cis-1,2-dichloroethene exceeded its PAL.

Perimeter shallow dolomite monitoring well **W-52** is located along the southern fence line of the Facility away from active production areas downgradient of the JT Roofing property.

2.2.3 REMEDIATION PROGRESS POINTS

With the exception of shallow dolomite extraction well **W-28**, all of the remediation progress points scheduled for sampling during the Fall 2019 groundwater sampling event were sampled. Due to the pump malfunction, no samples were collected from shallow dolomite extraction well **W-28**.

W-06A

The groundwater sample collected from glacial drift remediation progress monitoring well **W-06A** contained detectable concentrations of:

Parameter	Concentration	PAL	ES
Total Xylenes	94,800 µg/L	400 µg/L	2,000 µg/L
Toluene	29,200 µg/L	160 µg/L	800 µg/L
Ethylbenzene	21,200 µg/L	140 µg/L	700 µg/L
Benzene	135 µg/L “J”	0.5 µg/L	5 µg/L
2,4-Dimethylphenol	132 µg/L	--	--
M&P-Cresol	73 µg/L	--	--
Phenol	66 µg/L	400 µg/L	2,000 µg/L
o-Cresol	56 µg/L	--	--
Barium	54.7 µg/L	400 µg/L	2,000 µg/L
Acetophenone	29.5 µg/L	--	--
Arsenic	33.3 µg/L	1 µg/L	10 µg/L
Naphthalene	10.7 µg/L “J”	10 µg/L	100 µg/L
4-Chloro-3-methylphenol	7.6 “J”	--	--

The concentrations of total xylenes, toluene, ethylbenzene, benzene and arsenic exceeded their respective ESs, while the concentration of naphthalene exceeded its PAL.

The groundwater sample collected from glacial drift remediation progress monitoring well **W-06A** contained the highest concentration of ethylbenzene, toluene and total xylenes of all samples collected during the Fall 2019 sampling event. Glacial drift remediation progress monitoring well **W-06A** is located along the western fence line of the Facility immediately downgradient of the JT Roofing site in the vicinity of the former Dry Well (AOC 2).

#### W-19A

The groundwater sample collected from glacial drift remediation progress well **W-19A** contained detectable concentrations of:

Parameter	Concentration	PAL	ES
TCE	11.7 µg/L	0.5 µg/L	5 µg/L
cis-1,2-Dichloroethene	8.3 µg/L	7 µg/L	70 µg/L
VC	0.20 µg/L “J”	0.02 µg/L	0.2 µg/L

The concentrations of TCE and VC exceed their respective ESs, while the concentration of cis-1,2-dichloroethene exceeded its PAL.

Glacial drift remediation progress point **W-19A** is located upgradient of the Facility on the JT Roofing property. Chlorinated compounds have never been used at the Facility. However, the upgradient JT Roofing property, formerly known as Northern Signal, is undergoing an investigation associated with a release of chlorinated solvents to the environment.

#### W-21A

The groundwater sample collected from shallow dolomite extraction well **W-21A** contained detectable concentrations of:

Parameter	Concentration	PAL	ES
Ethylbenzene	3,500 µg/L	140 µg/L	700 µg/L
Total xylenes	2,855 µg/L	400 µg/L	2,000 µg/L
Benzene	1,140 µg/L	0.5 µg/L	5 µg/L
Barium	299 µg/L	400 µg/L	2,000 µg/L
Phenol	109 µg/L	400 µg/L	2,000 µg/L
2,4-Dimethylphenol	108 µg/L	--	--
Toluene	41 µg/L “J”	160 µg/L	800 µg/L
Arsenic	17.9 µg/L “J”	1 µg/L	10 µg/L
Naphthalene	7.5 µg/L “J”	10 µg/L	100 µg/L
O-Cresol	6.9 µg/L “J”	--	--

The concentrations of benzene, ethylbenzene, total xylenes and arsenic exceed their respective ESs.

Shallow dolomite extraction well **W-21A** is located near the center of the Facility south of AOC 1.



### W-24A

The groundwater sample collected from shallow dolomite extraction well **W-24A** contained detectable concentrations of:

Parameter	Concentration	PAL	ES
Barium	94.5 µg/L	400 µg/L	2,000 µg/L
1,4-Dioxane	88 µg/L	0.3 µg/L	3 µg/L
cis-1,2-Dichloroethene	27.6 µg/L	7 µg/L	70 µg/L
bis(2-ethylhexyl) phthalate	11.1 µg/L	0.6 µg/l	6 µg/L
TCE	2.46 µg/L	0.5 µg/L	5 µg/L
VC	2.34 µg/L	0.02 µg/L	0.2 µg/L
trans-1,2-Dichloroethene	0.53 µg/L "J"	20 µg/L	100 µg/L

The concentrations of 1,4-dioxane, bis(2-ethylhexyl) and VC exceeded their respective ESs, while the concentrations of cis-1,2-dichloroethene and TCE exceeded their respective PALs.

Shallow dolomite extraction well **W-24A** is located in the southwest corner of the Facility adjacent to the JT Roofing property. Chlorinated compounds have never been used at the Facility. However, the upgradient JT Roofing property, formerly known as Northern Signal, is undergoing an investigation associated with a release of chlorinated solvents to the environment.

### W-29

The groundwater sample collected from shallow dolomite extraction well **W-29** contained detectable concentrations of:

Parameter	Concentration	PAL	ES
Barium	252 µg/L	400 µg/L	2,000 µg/L
1,4-Dioxane	57 µg/L	0.3 µg/L	3 µg/L
Ethylbenzene	47 µg/L	140 µg/L	700 µg/L
Total xylene's	43.8 µg/L	400 µg/L	2,000 µg/L
Benzene	24.4 µg/L	0.5 µg/L	5 µg/L
Toluene	2.82 µg/L	160 µg/L	800 µg/L
Styrene	2.54 µg/L	10 µg/L	100 µg/L
Carbon disulfide	0.77 µg/L "J"	200 µg/l	1,000 µg/L

The concentrations of 1,4-dioxane and benzene exceeded their respective ESs.

Shallow dolomite extraction well **W-29** is located in the center of the Facility downgradient of monitoring wells **W-19A** and **W-06A**.

### W-30

The groundwater sample collected from deep dolomite pumping well **W-30** contained detectable concentrations of:

Parameter	Concentration	PAL	ES
Barium	100 µg/L	400 µg/L	2,000 µg/L
Trichlorofluoromethane	1.82 µg/L	--	--
Benzene	1.39 µg/L	0.5 µg/L	5 µg/L
cis-1,2-dichloroethene	0.4 µg/L "J"	--	--

The concentration of benzene exceeded its PAL.

Well **W-30** is located in the northwestern portion of the Facility and extends to a depth of 556 ft bgs. Well **W-30** pumps at a constant rate of approximately 150 gallons per minute from the deep dolomite aquifer.

#### W-38

The groundwater sample collected from shallow dolomite remediation progress point **W-38** contained a detectable concentration of benzene (1,220 µg/L). The concentration of benzene exceeded its ES.

Well **W-38** is located near the center of the Facility immediately south of the existing tank farm (AOC 3).

#### W-41

The groundwater sample collected from the glacial drift remediation progress point **W-41** contained an estimated concentration of benzene (0.26 µg/L). The concentration of benzene did not exceed its PAL.

Glacial drift remediation progress monitoring point **W-41** is located in the southwest corner of the Facility.

#### W-42

The groundwater sample collected from glacial drift remediation monitoring well **W-42** contained detectable concentrations of:

Parameter	Concentration	PAL	ES
m&p-xylene	7,600 µg/L	400 µg/L	2,000 µg/L
Ethylbenzene	106 µg/L	140 µg/L	700 µg/L
Benzene	43 µg/L	0.5 µg/L	5 µg/L
Toluene	21 µg/L "J"	160 µg/L	800 µg/L

The concentrations of benzene and m&p-xylene exceeded their respective ESs.

Glacial drift remediation progress point **W-42** is located directly east of the glacial drift perimeter monitoring point **W-27**.

#### W-43

The groundwater sample collected from glacial drift remediation progress well **W-43** contained detectable concentrations of:

Parameter	Concentration	PAL	ES
Barium	9.77 µg/L	400 µg/L	2,000 µg/L
Benzene	0.81 µg/L	0.5 µg/L	5 µg/L
Carbon disulfide	0.39 µg/L "J"	200 µg/L	1,000 µg/L

The concentration of benzene exceeded its PAL.

Glacial drift remediation progress point **W-43** is located near the center of the Facility immediately south of the existing tank farm (AOC 3).

W-47

The groundwater sample collected from glacial drift remediation progress well **W-47** contained detectable concentrations of:

Parameter	Concentration	PAL	ES
Total Xylenes	2,954 µg/L	400 µg/L	2,000 µg/L
Ethylbenzene	81 µg/L “J”	140 µg/L	700 µg/L
Barium	55.7 µg/L	400 µg/L	2,000 µg/L
Naphthalene	9.2 µg/L “J”	10 µg/L	100 µg/L

The concentration of total xylenes exceeded its ES.

Glacial drift remediation progress monitoring well **W-47** is located within AOC 1.

Isoconcentration maps for the major VOC detections in the glacial drift aquifer were developed to assist in visualizing the location of the impacts. The following isoconcentration maps were developed for the glacial drift aquifer.

- Figure 7** Benzene in Groundwater – Glacial Drift Aquifer - Fall 2019
- Figure 8** Ethylbenzene in Groundwater – Glacial Drift Aquifer - Fall 2019
- Figure 9** Toluene in Groundwater – Glacial Drift Aquifer - Fall 2019
- Figure 10** Total Xylenes in Groundwater – Glacial Drift Aquifer - Fall 2019
- Figure 11** TCE and VC in Groundwater – Glacial Drift Aquifer - Fall 2019

In addition, contaminant isoconcentration maps were developed from the monitoring data for the shallow dolomite aquifer. The following isoconcentration maps were developed for the shallow dolomite aquifer.

- Figure 12** Benzene in Groundwater – Shallow and Deep Dolomite Aquifers- Fall 2019
- Figure 13** CVOCs in Groundwater – Shallow and Deep Dolomite Aquifers - Fall 2019
- Figure 14** Metals in Groundwater – Combined Glacial Drift and Dolomite Aquifers - Fall 2019
- Figure 15** SVOCs in Groundwater – Combined Glacial Drift and Dolomite Aquifers - Fall 2019

### 3.0 DISCUSSION OF RESULTS

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Overall, the results of the Fall 2019 groundwater sampling event remain relatively consistent with the results from previous sampling events. The concentrations of VOCs, semi-volatile organic compounds (SVOCs) and metals detected during the Fall 2019 groundwater sampling event are in the normal range of variation and of a similar order of magnitude as observed in previous sampling events. The individual parameters detected during the Fall 2019 groundwater sampling event are also consistent with the parameters detected during previous sampling events.

Notable changes in results include the following:

- **W-30** – The total VOC concentrations in deep dolomite extraction well **W-30** decreased an order of magnitude (36.71 µg/L to 3.61 µg/L) between 2018 to 2019. The most significant change was related to 1,4-dioxane which was detected at 25.4 µg/L in the sample collected in 2018 and then not detected above the MDL (<8.9 µg/L) in the sample collected in 2019.

Details regarding the results of the Fall 2019 groundwater sampling event discussed according to hydrogeologic unit and monitoring objective are presented in the following sections.

#### 3.1 GLACIAL DRIFT AQUIFER

As depicted on **Figure 5**, VOC detections in the glacial drift aquifer are generally present in the groundwater beneath the three (3) onsite AOCs, as well as the JT Roofing site, located upgradient of the Facility. Offsite and upgradient monitoring wells **W-19A** and **W-27** continue to contain elevated concentrations of chlorinated VOCs (CVOCs), including the highest concentration of TCE in monitoring well **W-27**, supporting the assertion of an offsite source of the CVOC impacts detected in the groundwater beneath the Facility.

The groundwater sample collected from remediation progress point **W-06A** contained the highest concentrations of total VOCs, including the highest concentrations of ethylbenzene, toluene and total xylenes. The **W-06A** monitoring point is indicative of the conditions in AOC No. 2, the location of the former dry well. Elevated concentrations of VOCs in monitoring point **W-42** are also indicative of contamination associated with AOC No. 2. Lesser total VOC concentrations were detected in remediation progress point **W-47**, indicative of AOC No. 1 (the former hazardous waste incinerator) and Ranney Collector No. 3 (**RC-3**), indicative of the conditions at AOC No. 1 and AOC No. 3.

The isoconcentration maps (**Figure 7**, **Figure 8**, **Figure 9** and **Figure 10**) indicate the extent of benzene, ethylbenzene, toluene and total xylene (BETX) impacts in the glacial drift aquifer extend to all three (3) AOCs. Individual BETX constituents are present at different concentrations and are detected at different locations.

- Benzene is detected at the lowest concentrations (less than an order of magnitude above its ES) as compared to ethylbenzene, toluene and total xylenes, but the plume of benzene contamination extends to all three (3) of the AOCs with the highest concentrations detected east and west of AOC No. 3 (see **Figure 7**).

- Ethylbenzene is detected at concentrations greater than the concentrations of benzene, but less than the concentrations of toluene and total xylenes. The plume of ethylbenzene contamination extends from AOC No. 2 to AOC No. 1 with the highest concentrations located within AOC No. 2 extending to the north-northeast (see **Figure 8**).
- Toluene was detected significantly above its ES at **W-06A** in AOC 2. A plume of toluene PAL exceedances extends from AOC 2 to the northwest to **RC-3** (see **Figure 9**).
- Xylene is the highest concentration VOC constituent detected in the glacial drift aquifer, with the highest concentration detected at **W-06A** in AOC 2. A plume of ES exceedances extends to the north-northeast to **W-47** in AOC 1 and from **RC-1** to the east (see **Figure 10**).
- TCE was detected in exceedance of its ES in the offsite upgradient monitoring wells **W-27** and **W-19A**. Due to elevated dilutions caused by non-CVOC concentrations, CVOCs were not detected in monitoring points downgradient of **W-19A** and **W-27**. However, historic sampling events have detected elevated concentrations of CVOCs in the downgradient wells and Ranney Collectors. An isoconcentration plot depicting total TCE concentrations in the glacial drift aquifer (see **Figure 11**).

### 3.2 SHALLOW AND DEEP DOLOMITE AQUIFERS

As depicted on **Figure 6**, the benzene, ethylene, toluene and xylene (BETX) detections in the shallow and deep dolomite aquifers are primarily located in the central portion of the site in the vicinity of the former tank farm (AOC No. 3) as indicated in the results from shallow dolomite remediation progress point **W-38**. With the exception of the concentration of benzene detected in remediation progress point **W-38**, the concentrations of BETX constituents detected in the shallow dolomite monitoring points are significantly less than the concentrations detected in the glacial drift monitoring points. The highest concentration of benzene (1,220 µg/L) was detected in shallow dolomite remediation process point well **W-38** to the south of AOC No. 3. A secondary area of CVOC and benzene detections is present along the south fence line as observed in shallow dolomite extraction well **W-24A** and shallow dolomite perimeter monitoring point **W-52**. More discussions regarding these results are presented below.

- The extent of benzene in the shallow dolomite aquifer is limited primarily to the center of the Facility extending from the north of AOC 3 to the south fence line (see **Figure 12**).
- CVOCs in the form of TCE, cis- and trans-1,2-dichloroethene and VC were detected in several shallow dolomite monitoring points, including, shallow dolomite extraction wells **W-24A**, as well as shallow dolomite perimeter monitoring points **W-23** and **W-52** (see **Figure 13**). The elevated concentrations of CVOCs in the shallow dolomite aquifer are detected in monitoring points well downgradient of the source area located upgradient of the Facility to the west. The concentrations of CVOC degradation products in the shallow dolomite are greater than the concentrations detected in the glacial drift aquifer. Based on the overall lack of parent CVOC products, such as TCE, detected in the samples collected from the shallow dolomite monitoring points, it is apparent that the CVOC degradation product concentrations detected in the onsite shallow dolomite monitoring points are due to the

migration and degradation of the CVOC parent products observed in the upgradient glacial drift monitoring points.

In addition to the VOC analyses discussed above, samples from three (3) glacial drift, three (3) shallow dolomite and one (1) deep dolomite remediation progress points were also analyzed for dissolved arsenic and barium content. Arsenic was not detected in six (6) of the samples submitted above MDL. The concentration of arsenic detected in the sample collected from glacial drift remediation progress monitoring point **W-06A** and the sample collected from shallow dolomite remediation progress monitoring point **W-21** exceeded its ES. While barium was detected in all of the samples submitted, none of the results exceeded the PAL (see **Figure 14**).

The same seven (7) monitoring points sampled for arsenic and barium were also sampled for SVOCs. The SVOC constituent bis(2-ethylhexyl) phthalate was detected in one (1) of the seven (7) of the samples submitted for SVOC analysis. The concentration of bis(2-ethylhexyl) phthalate detected in monitoring point **W-24A** exceeded the ES. Naphthalene was also detected in three (3) of the seven (7) monitoring points sampled. The estimated concentration detected in the sample collected from monitoring point **W-06A** exceeded the PAL, while the estimated concentrations detected in the samples collected from monitoring points **W-21A** and **W-47** were below the PAL see (**Figure 15**).

The sample collected from glacial drift remediation progress monitoring well **W-47** was also analyzed for polychlorinated biphenyls (PCBs). No PCB congeners were detected above the MDL.

### **3.3 RECEPTOR MONITORING POINTS**

The municipal water supply wells for the Village of Saukville continue to exhibit non-detect concentrations of VOCs indicating that the contaminants present in the glacial drift and shallow dolomite aquifers beneath the Facility are not impacting the deep dolomite aquifer utilized for drinking water by the Village of Saukville.

The Ranney Collectors continue to discharge shallow groundwater containing BETX constituents to the POTW. However, the POTW Influent sample does not exhibit significant BETX concentrations, and no VOCs were detected above the MDLs in the POTW-Effluent sample indicating the POTW is effectively removing any contaminants detected in the influent, discharging water free of VOCs to the Milwaukee River.

### **3.4 PERIMETER MONITORING POINTS**

Offsite downgradient perimeter monitoring points in the glacial drift and shallow dolomite aquifers continued to exhibit non-detect conditions indicating that the onsite groundwater extraction system is effectively limiting the movement of the contaminants present beneath the Facility from migrating offsite. Upgradient perimeter monitoring points in the glacial drift aquifer (**W-19A** and **W-27**) at the former Northern Signal (JT Roofing) property continue to exhibit elevated concentrations of CVOCs, indicating an offsite upgradient source of contamination. In addition, shallow dolomite perimeter monitoring points **W-23** and **W-52**, both located along the southern

fence line of the Facility, continue to exhibit elevated concentrations of CVOCs, indicating continuing migration of CVOCs from the upgradient offsite source area.

### **3.5 REMEDIATION PROGRESS POINTS**

Samples collected from glacial drift and shallow dolomite remediation progress monitoring points continue to contain concentrations of contaminants generally consistent within the range of concentrations historically detected at the Facility. It should be noted; significant concentrations of CVOC degradation products cis-1,2-dichloroethene, trans-1,2-dichloroethene and VC continue to be detected in the shallow dolomite aquifer beneath the Facility. The presence of CVOC degradation products in the samples collected from onsite shallow dolomite monitoring points indicate the CVOC impacts present within the glacial drift aquifer upgradient of the Facility have naturally migrated to the shallow dolomite aquifer and have been drawn through the shallow dolomite aquifer by the nearly continuous pumping of the extraction wells at the Facility. Apparently, the natural environment in the shallow dolomite aquifer between the upgradient CVOC source area and the onsite extraction wells is such that reductive dechlorination of the CVOC impacts present upgradient has occurred resulting in significant CVOC degradation product concentrations being detected in the samples collected from the onsite shallow dolomite sampling points.

### **3.6 SUMMARY**

The results of the Fall 2019 groundwater sampling event are generally consistent with the results from previous groundwater sampling events. The parameters detected during the Fall 2019 sampling event and their concentrations were generally comparable to previous sampling events.

PAL and ES exceedances were detected in glacial drift perimeter monitoring point **W-27**, located upgradient of the Facility, and shallow dolomite perimeter monitoring point **W-52**, located along the south fence line of the Facility. PAL and/or ES exceedances were detected in all of the remediation progress points sampled during the Fall 2019 groundwater sampling event. A summary of the PAL and ES exceedances is presented in **Table 9**.

The samples collected during the Fall 2019 groundwater sampling event continue to depict a significant TCE source area located offsite to the west southwest, and upgradient of the Facility. The origin of the migrating impacts is likely located on the JT Roofing property, formerly occupied by Northern Signal which operated a TCE degreaser at the location. As has historically been the case, the monitoring results show CVOC degradation products extending towards the east onto the Facility from the JT Roofing property. The data indicates CVOCs are degrading via reductive dechlorination. We understand Woodstream Corporation, the current owner of the JT Roofing property, is actively pursuing the investigation of the CVOC impacts at the JT Roofing property.



## **FIGURES**

FIGURE 1 - SITE LOCATION MAP

FIGURE 2 - EXISTING SITE LAYOUT

FIGURE 3 - WATER TABLE MAP – GLACIAL DRIFT AQUIFER - FALL 2019

FIGURE 4 - POTENTIOMETRIC SURFACE MAP – SHALLOW AND DEEP DOLOMITE AQUIFERS - FALL 2019

FIGURE 5 - VOC DETECTIONS – GLACIAL DRIFT AQUIFER - FALL 2019

FIGURE 6 - VOC DETECTIONS – SHALLOW AND DEEP DOLOMITE AQUIFERS- FALL 2019

FIGURE 7 - BENZENE IN GROUNDWATER – GLACIAL DRIFT AQUIFER- FALL 2019

FIGURE 8 - ETHYLBENZENE IN GROUNDWATER – GLACIAL DRIFT AQUIFER- FALL 2019

FIGURE 9 - TOLUENE IN GROUNDWATER – GLACIAL DRIFT AQUIFER- FALL 2019

FIGURE 10 - TOTAL XYLENES IN GROUNDWATER – GLACIAL DRIFT AQUIFER- FALL 2019

FIGURE 11 - TCE AND VC IN GROUNDWATER – GLACIAL DRIFT AQUIFER- FALL 2019

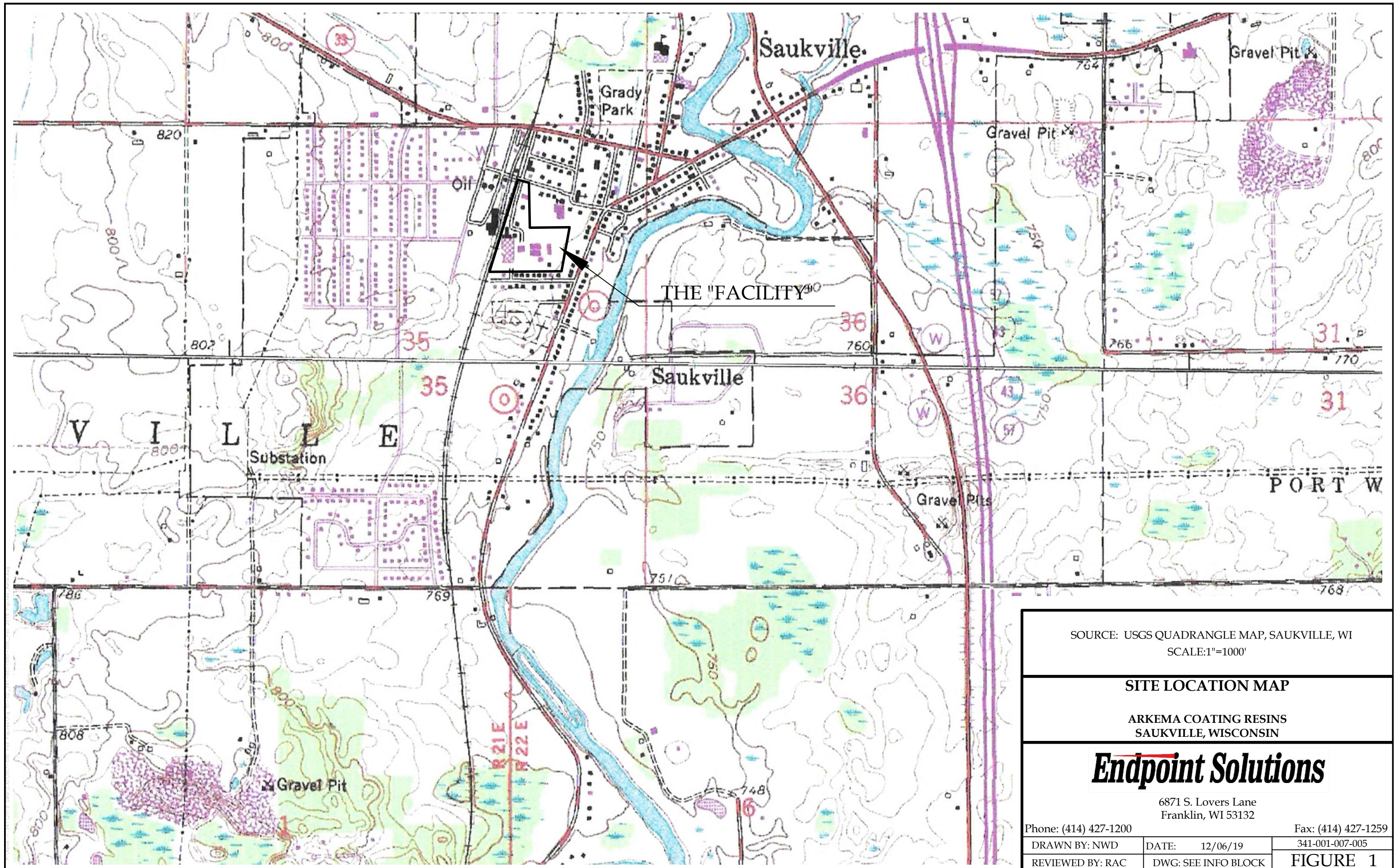
FIGURE 12 - BENZENE IN GROUNDWATER – SHALLOW AND DEEP DOLOMITE AQUIFERS- FALL 2019

FIGURE 13 - CVOCs IN GROUNDWATER – SHALLOW AND DEEP DOLOMITE AQUIFERS- FALL 2019

FIGURE 14 - METALS IN GROUNDWATER – COMBINED GLACIAL DRIFT AND DOLOMITE AQUIFERS- FALL 2019

FIGURE 15 - SVOCs IN GROUNDWATER – COMBINED GLACIAL DRIFT AND DOLOMITE AQUIFERS- FALL 2019





SOURCE: USGS QUADRANGLE MAP, SAUKVILLE, WI  
SCALE: 1"=1000'

**SITE LOCATION MAP**

ARKEMA COATING RESINS  
SAUKVILLE, WISCONSIN

**Endpoint Solutions**

6871 S. Lovers Lane  
Franklin, WI 53132

Phone: (414) 427-1200

Fax: (414) 427-1259

DRAWN BY: NWD

DATE: 12/06/19

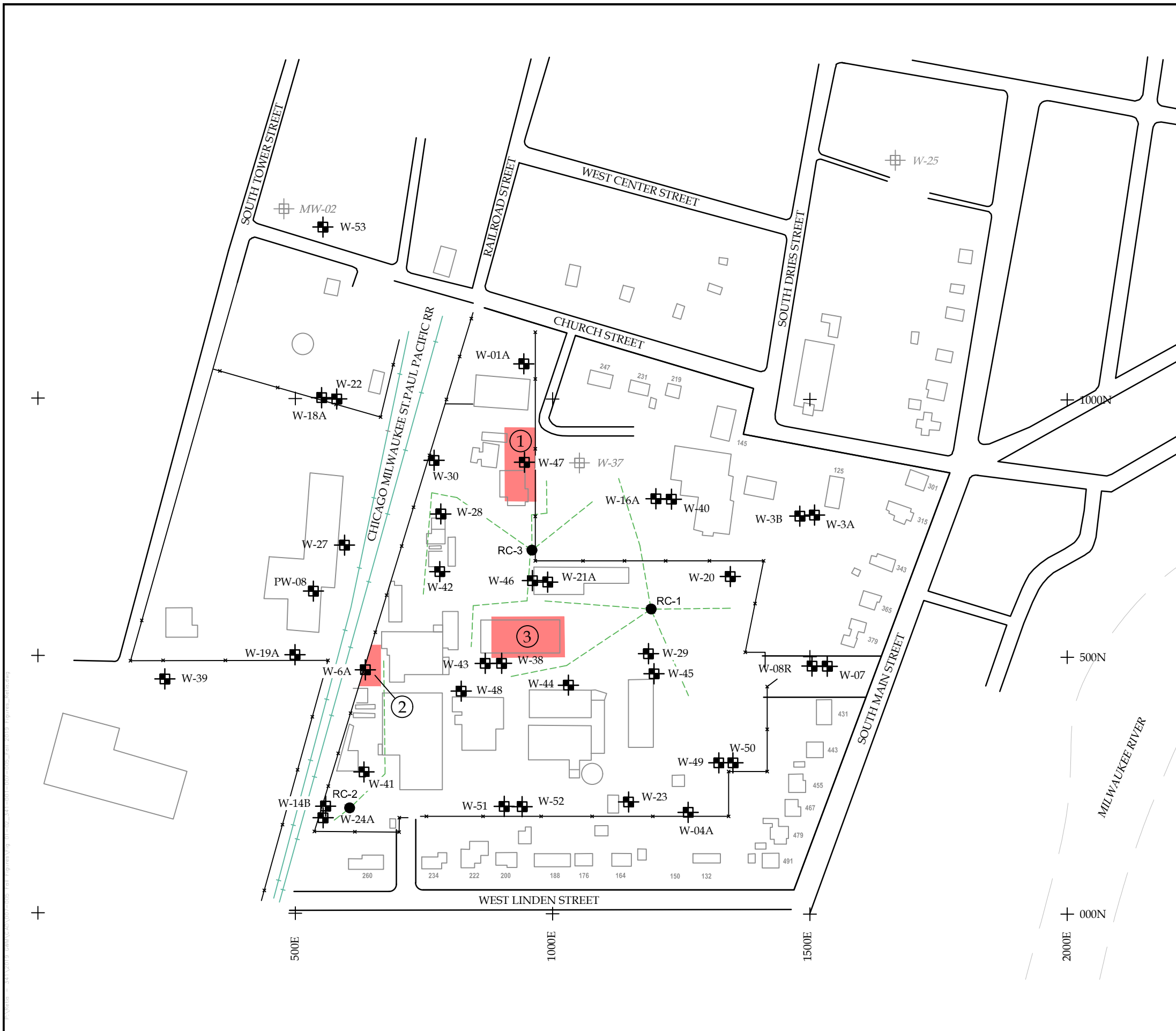
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REVIEWED BY: RAC


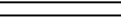








DWG: SEE INFO BLOCK

**FIGURE 1**





**LEGEND**

-  BUILDING
-  ROAD
-  FENCE
-  RAILROAD
-  W-18A  MONITORING WELL LOCATION AND NUMBER
-  W-25  ABANDONED WELL LOCATION AND NUMBER
-  RANNEY COLLECTOR
-  ① AREA OF CONCERN

**NOTES**

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



**EXISTING SITE LAYOUT**

**ARKEMA COATING RESINS  
SAUKVILLE, WISCONSIN**

**Endpoint Solutions**

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Franklin, WI 53132

Phone: (414) 427-1200

Fax: (414) 427-1259

DRAWN BY: NWD

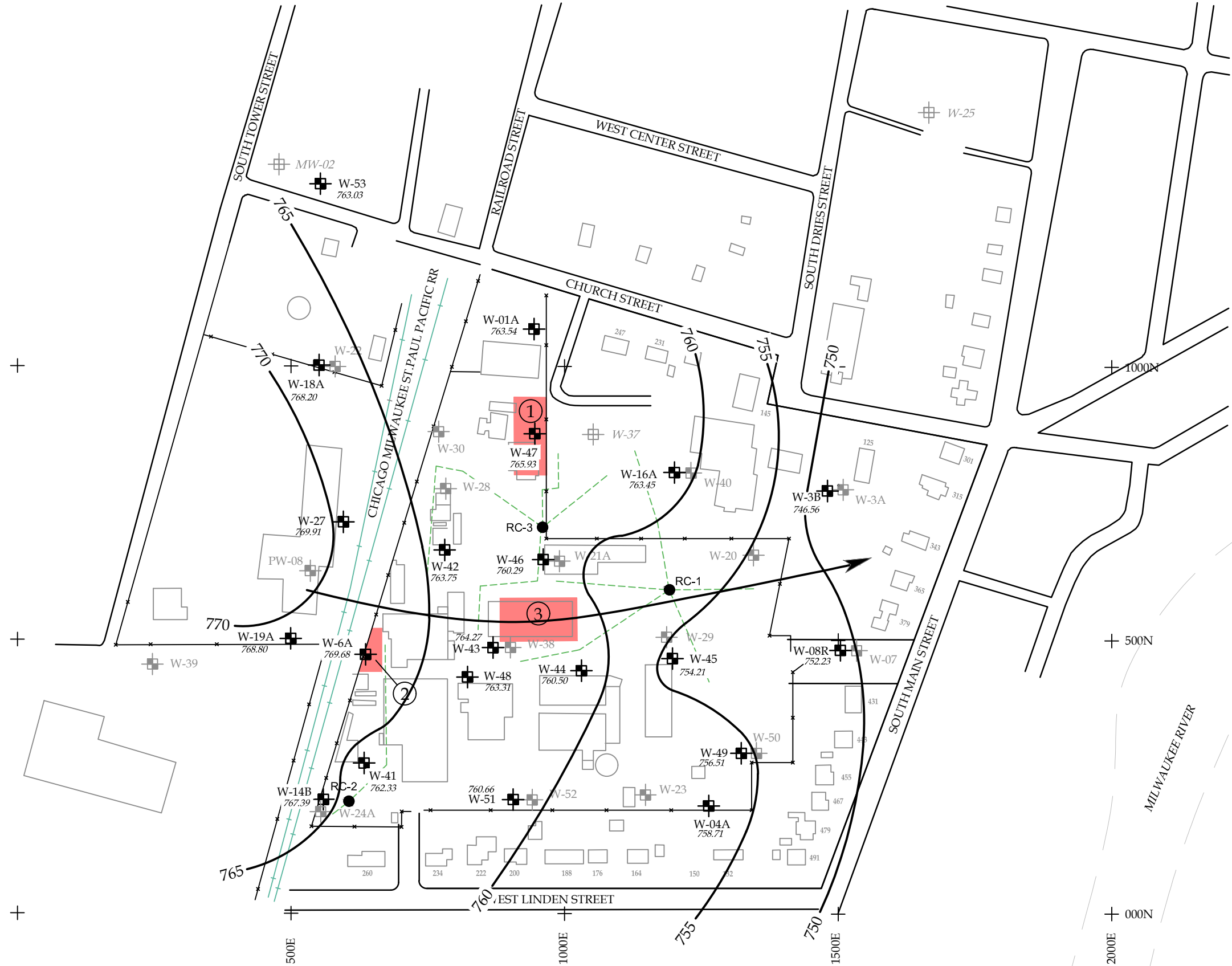
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341-001-007-005

REVIEWED BY: RAC

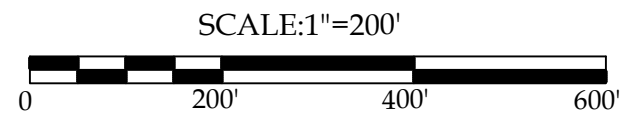
DWG: SEE INFO BLOCK

**FIGURE 2**



- LEGEND**
- W-18A MONITORING WELL LOCATION AND NUMBER
  - W-18A ABANDONED WELL LOCATION AND NUMBER
  - GROUNDWATER FLOW DIRECTION
  - NM NOT MEASURED
  - CONTOUR INTERVAL = 5 FEET
  - RANNEY COLLECTOR
  - AREA OF CONCERN

- NOTES**
1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
  2. W-37 WAS ABANDONED AUGUST 2, 1996.
  3. W-25 WAS ABANDONED JULY 29, 1997.
  4. MW-02 WAS ABANDONED NOVEMBER 2004.



**WATER TABLE MAP  
GLACIAL DRIFT AQUIFER - FALL 2019  
ARKEMA COATING RESINS  
SAUKVILLE, WISCONSIN**

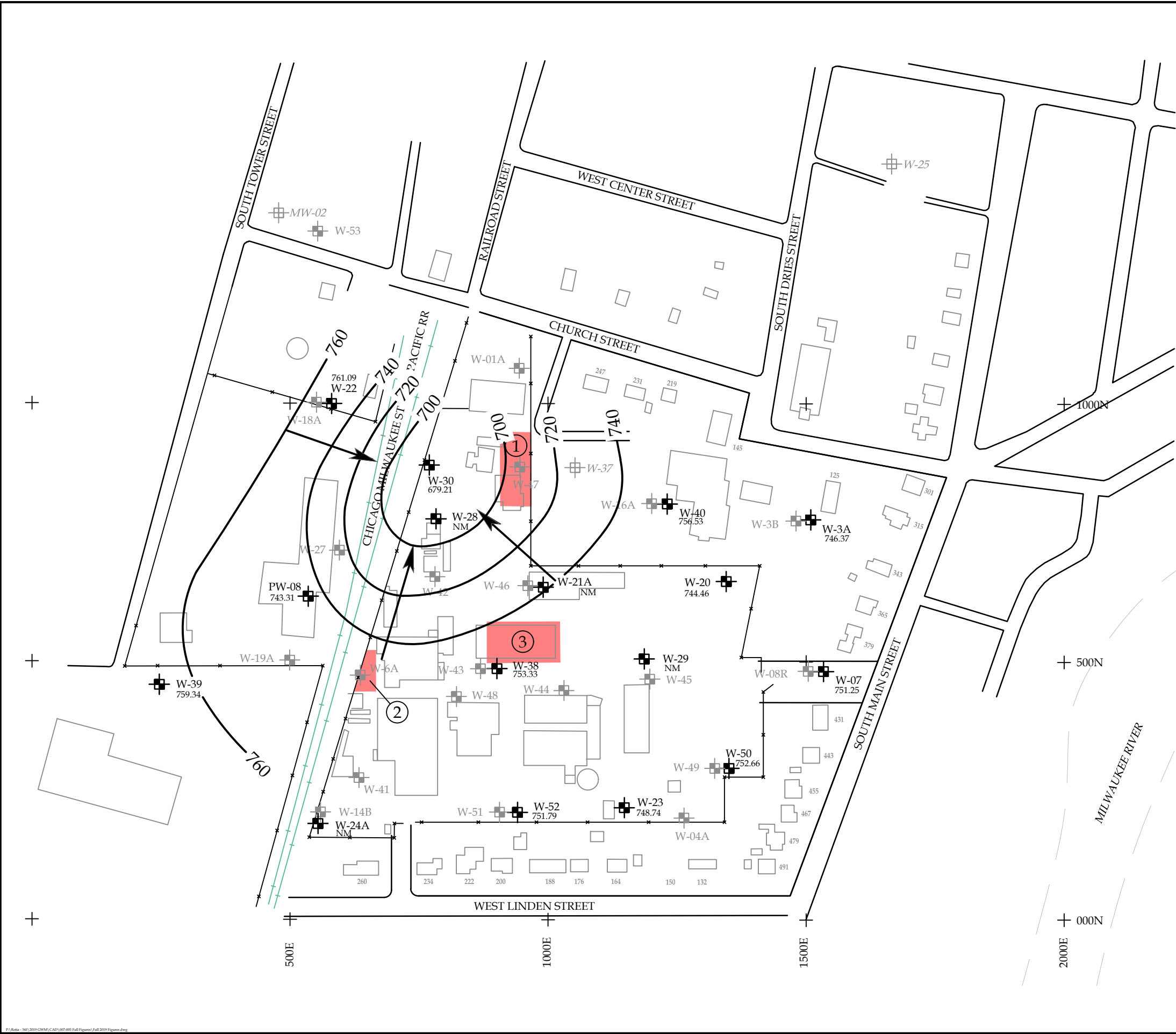
**Endpoint Solutions**

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DRAWN BY: NWD	DATE: 12/09/19	341-001-007-005
REVIEWED BY: RAC	DWG: FALL 2019 FIGURES	<b>FIGURE 3</b>

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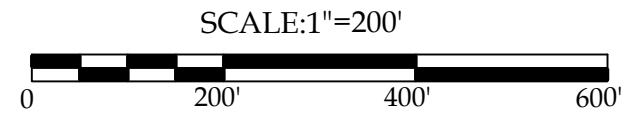


**LEGEND**

- W-18A MONITORING WELL LOCATION AND NUMBER
- W-18A ABANDONED WELL LOCATION AND NUMBER
- GROUNDWATER FLOW DIRECTION
- NM NOT MEASURED
- CONTOUR INTERVAL = 20 FEET
- AREA OF CONCERN

**NOTES**

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



POTENTIOMETRIC SURFACE MAP  
 SHALLOW AND DEEP DOLOMITE AQUIFERS - FALL 2019  
 ARKEMA COATING RESINS  
 SAUKVILLE, WISCONSIN

**Endpoint Solutions**

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REVIEWED BY: RAC	DWG: FALL 2019 FIGURES	<b>FIGURE 4</b>

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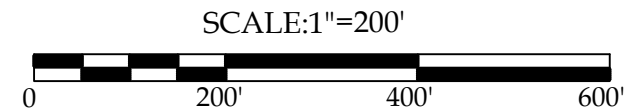
LEGEND

- W-18A MONITORING WELL LOCATION AND NUMBER
- W-18A ABANDONED WELL LOCATION AND NUMBER
- RANNEY COLLECTOR
- AREA OF CONCERN

ACE	Acetone	ND	Not Detected
B	Benzene	NS	Not Sampled
CD	Carbon Disulfide	J	Estimated Value
c-1,2-DCE	cis-1,2-Dichloroethene		PAL Exceedance
E	Ethylbenzene		ES Exceedance
N	Naphthalene		
T	Toluene		
1,1,1-TCA	1,1,1-Trichloroethane		
TCE	Trichloroethene		
VC	Vinyl Chloride		
X	Xylenes, Total		

NOTES

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
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4. MW-02 WAS ABANDONED NOVEMBER 2004.



VOC DETECTIONS (ug/L)  
 GLACIAL DRIFT AQUIFER - FALL 2019  
 ARKEMA COATING RESINS  
 SAUKVILLE, WISCONSIN

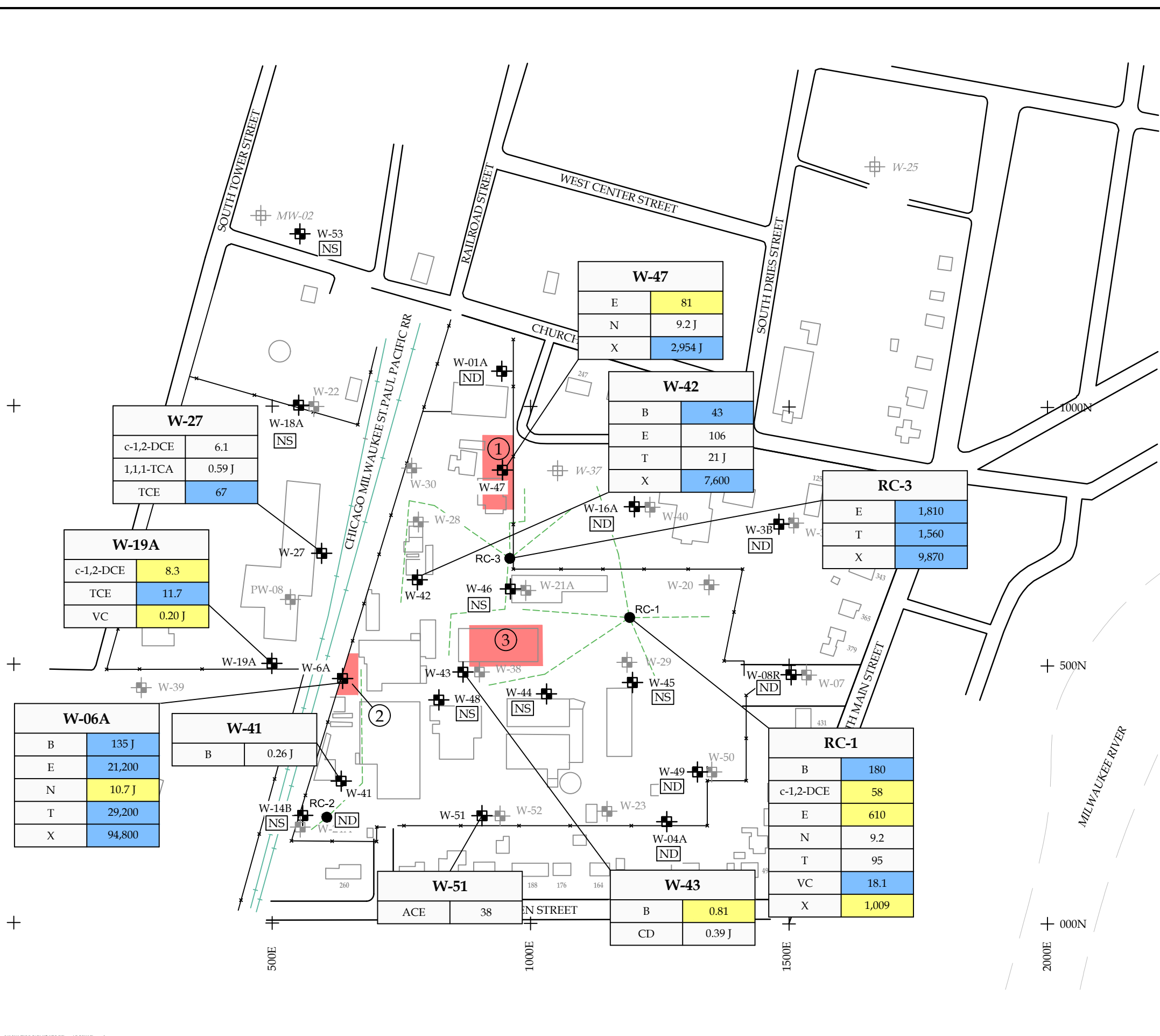
**Endpoint Solutions**

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 Franklin, WI 53132

Phone: (414) 427-1200 Fax: (414) 427-1259




DRAWN BY: NWD DATE: 12/09/19 341-001-007-005

REVIEWED BY: RAC DWG: FALL 2019 FIGURES **FIGURE 5**







LEGEND

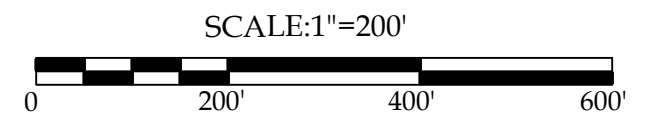
- W-18A  MONITORING WELL LOCATION AND NUMBER
- W-18A  ABANDONED WELL LOCATION AND NUMBER
-  AREA OF CONCERN

B	Benzene
CD	Carbon Disulfide
c-1,2-DCE	cis-1,2-Dichloroethene
t-1,2-DCE	trans-1,2-Dichloroethene
1,4-D	1,4-Dioxane
E	Ethylbenzene
N	Naphthalene
S	Styrene
T	Toluene
TCE	Trichloroethene
TCFM	Trichlorofluoromethane
VC	Vinyl Chloride
X	Total Xylenes

ND	Not Detected
NS	Not Sampled
J	Estimated Value
	PAL Exceedance
	ES Exceedance

NOTES

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



VOC DETECTIONS (ug/L) SHALLOW AND DEEP DOLOMITE AQUIFERS - FALL 2019  
 ARKEMA COATING RESINS  
 SAUKVILLE, WISCONSIN

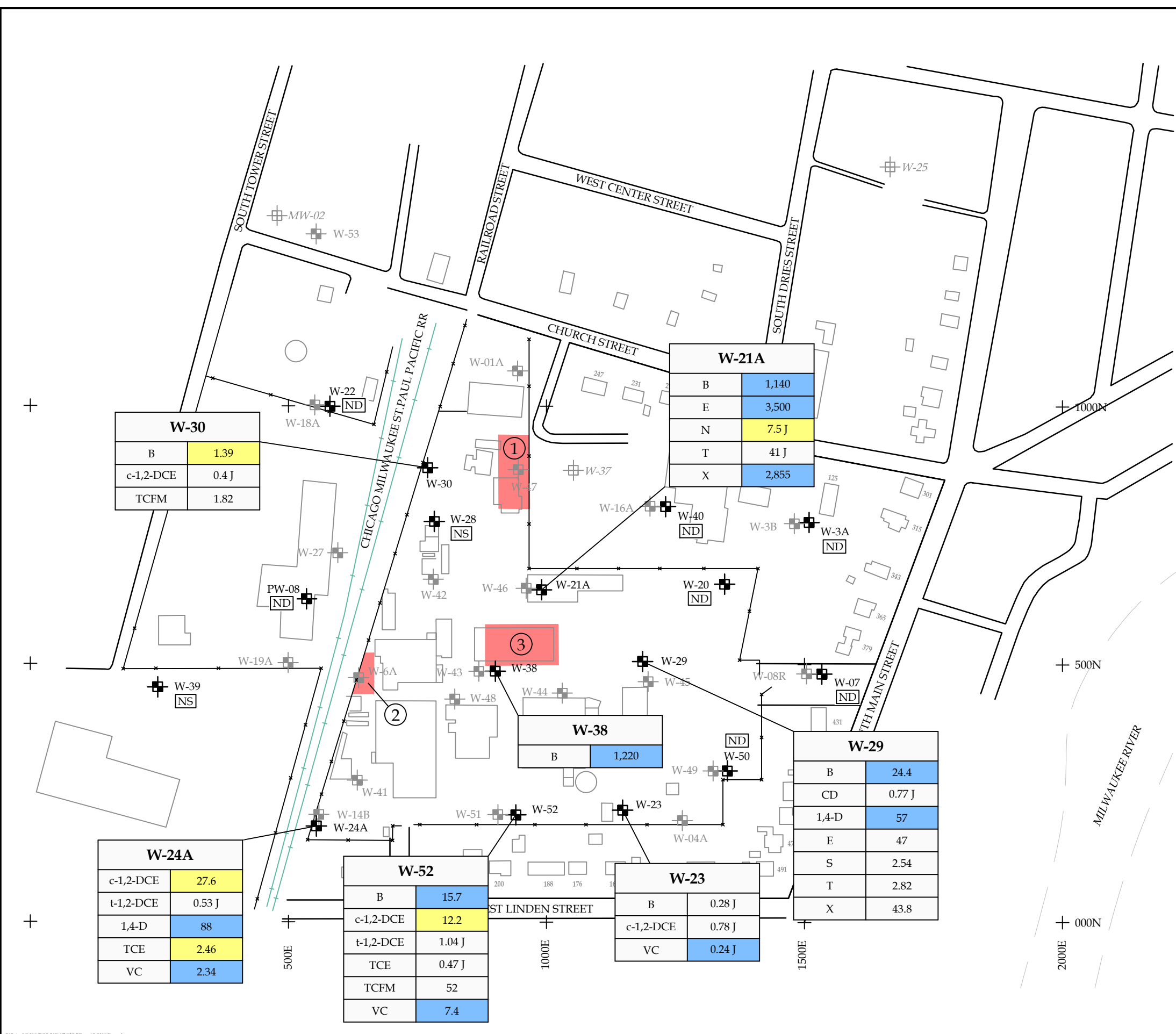
**Endpoint Solutions**

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DRAWN BY: NWD DATE: 12/09/19 341-001-007-005

REVIEWED BY: RAC DWG: FALL 2019 FIGURES **FIGURE 6**



W-30	
B	1.39
c-1,2-DCE	0.4 J
TCFM	1.82

W-21A	
B	1,140
E	3,500
N	7.5 J
T	41 J
X	2,855

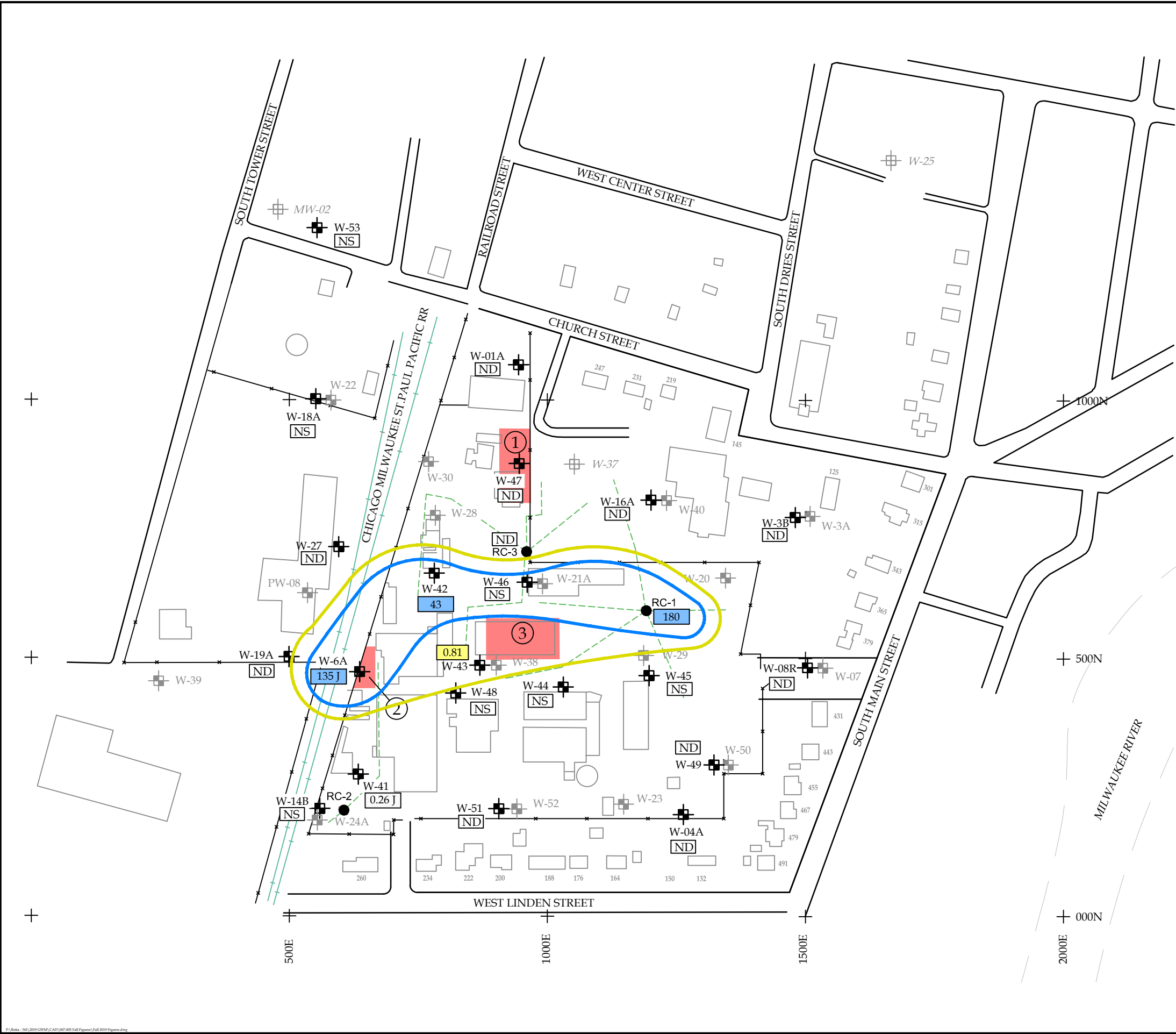
W-38	
B	1,220

W-29	
B	24.4
CD	0.77 J
1,4-D	57
E	47
S	2.54
T	2.82
X	43.8

W-24A	
c-1,2-DCE	27.6
t-1,2-DCE	0.53 J
1,4-D	88
TCE	2.46
VC	2.34

W-52	
B	15.7
c-1,2-DCE	12.2
t-1,2-DCE	1.04 J
TCE	0.47 J
TCFM	52
VC	7.4

W-23	
B	0.28 J
c-1,2-DCE	0.78 J
VC	0.24 J



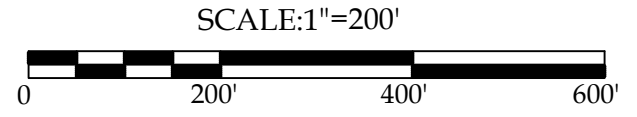
**LEGEND**

- W-18A MONITORING WELL LOCATION AND NUMBER
- W-18A ABANDONED WELL LOCATION AND NUMBER
- APPROXIMATE EXTENT OF ES EXCEEDANCES
- APPROXIMATE EXTENT OF PAL EXCEEDANCES
- RANNEY COLLECTOR
- AREA OF CONCERN

ND	Not Detected
NS	Not Sampled
J	Estimated Value
	PAL Exceedance
	ES Exceedance

**NOTES**

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



**BENZENE IN GROUNDWATER (ug/L)  
GLACIAL DRIFT AQUIFER - FALL 2019  
ARKEMA COATING RESINS  
SAUKVILLE, WISCONSIN**

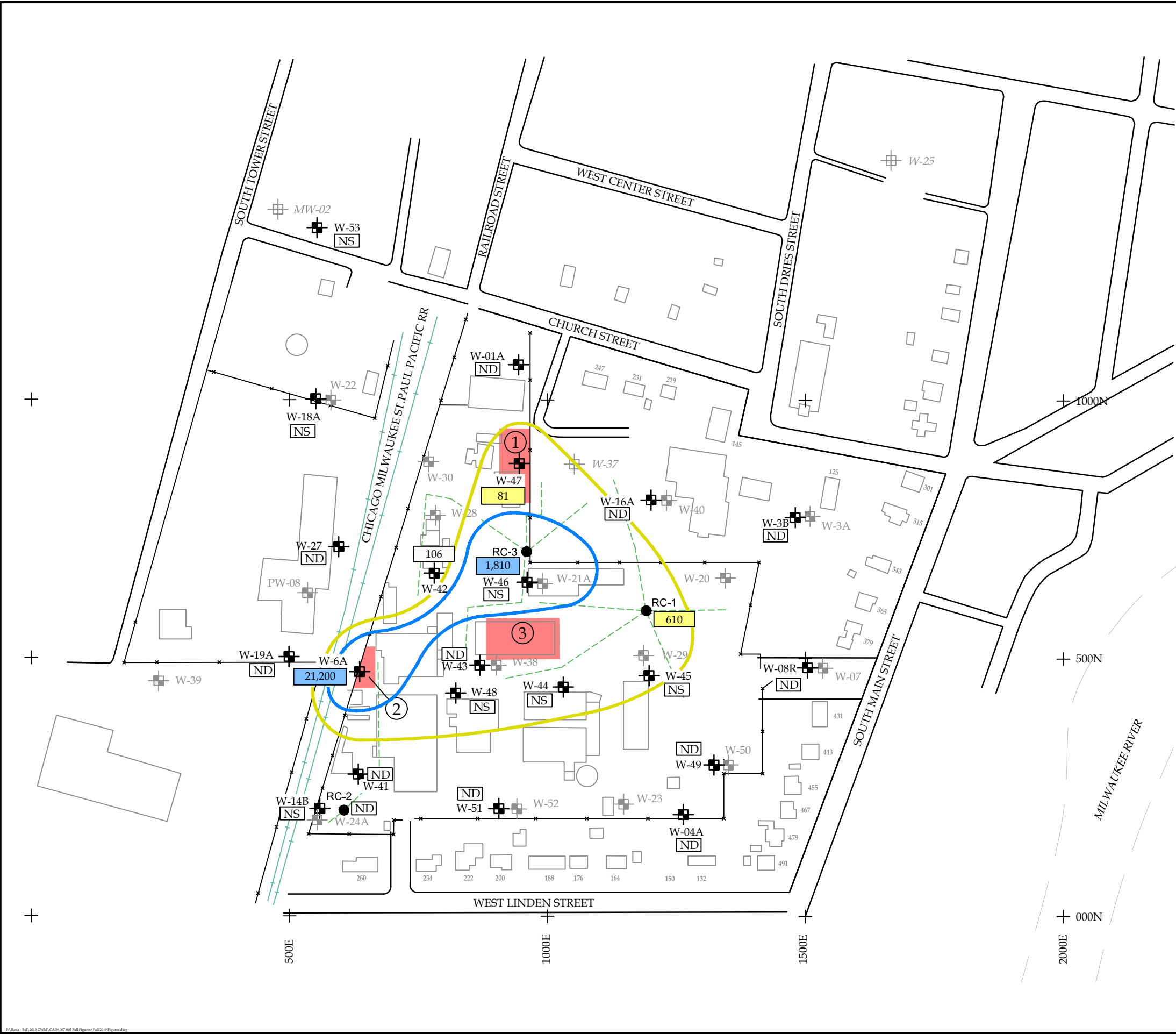
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REVIEWED BY: RAC	DWG: FALL 2019 FIGURES	<b>FIGURE 7</b>

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**LEGEND**

- W-18A MONITORING WELL LOCATION AND NUMBER
- W-18A ABANDONED WELL LOCATION AND NUMBER
- APPROXIMATE EXTENT OF ES EXCEEDANCES
- APPROXIMATE EXTENT OF PAL EXCEEDANCES
- RANNEY COLLECTOR
- AREA OF CONCERN

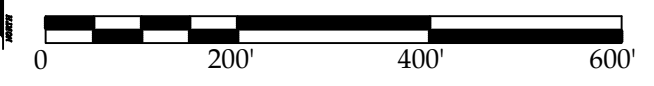
ND	Not Detected
NS	Not Sampled
	PAL Exceedance
	ES Exceedance

**NOTES**

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



SCALE: 1"=200'



**ETHYLBENZENE IN GROUNDWATER (ug/L)**  
**GLACIAL DRIFT AQUIFER - FALL 2019**  
**ARKEMA COATING RESINS**  
**SAUKVILLE, WISCONSIN**

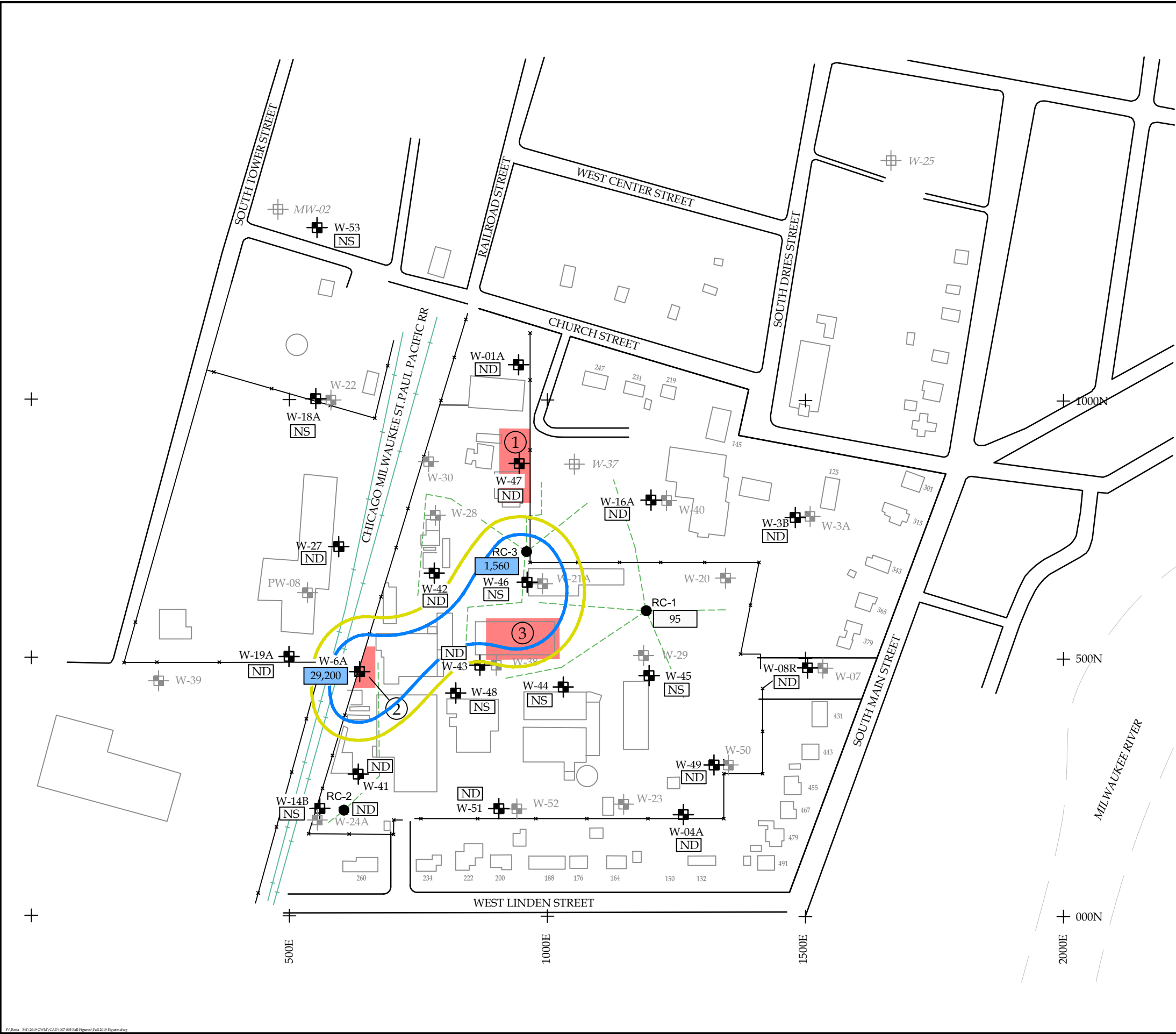
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REVIEWED BY: RAC	<b>FIGURE 8</b>	

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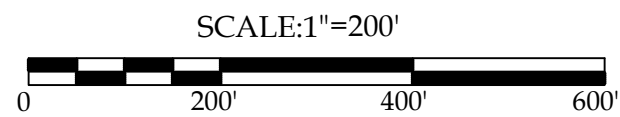
**LEGEND**

- W-18A MONITORING WELL LOCATION AND NUMBER
- W-18A ABANDONED WELL LOCATION AND NUMBER
- APPROXIMATE EXTENT OF ES EXCEEDANCES
- APPROXIMATE EXTENT OF PAL EXCEEDANCES
- RANNEY COLLECTOR
- AREA OF CONCERN

ND	Not Detected
NS	Not Sampled
	PAL Exceedance
	ES Exceedance

**NOTES**

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



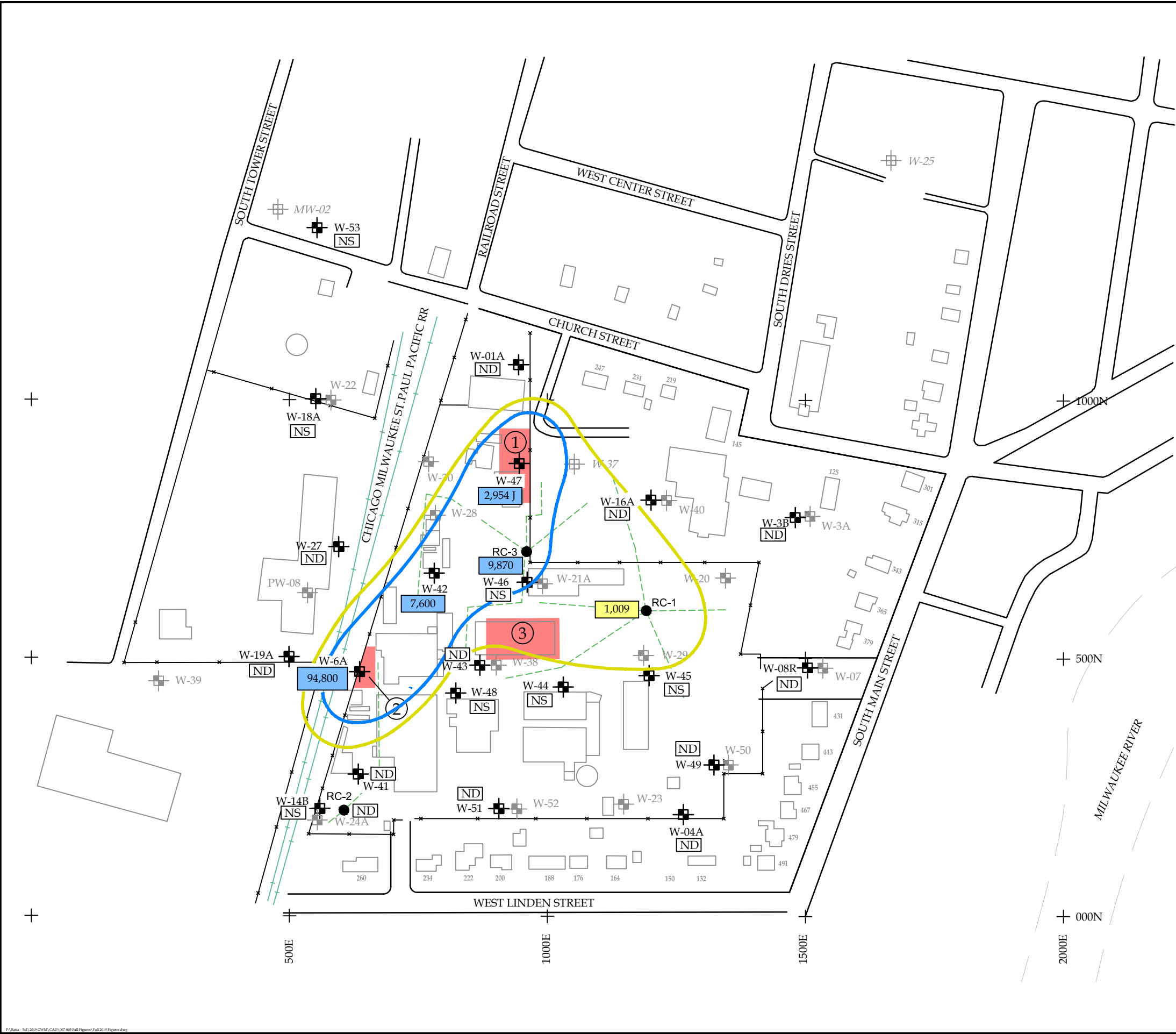
TOLUENE IN GROUNDWATER (ug/L)  
 GLACIAL DRIFT AQUIFER - FALL 2019  
 ARKEMA COATING RESINS  
 SAUKVILLE, WISCONSIN

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REVIEWED BY: RAC	<b>FIGURE 9</b>	

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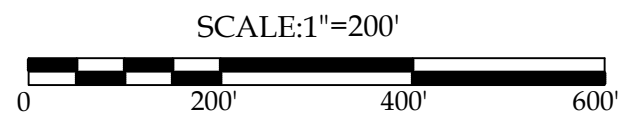
**LEGEND**

- W-18A MONITORING WELL LOCATION AND NUMBER
- W-18A ABANDONED WELL LOCATION AND NUMBER
- APPROXIMATE EXTENT OF ES EXCEEDANCES
- APPROXIMATE EXTENT OF PAL EXCEEDANCES
- RANNEY COLLECTOR
- AREA OF CONCERN

ND	Not Detected
NS	Not Sampled
J	Estimated Value
	PAL Exceedance
	ES Exceedance

**NOTES**

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



**TOTAL XYLENES IN GROUNDWATER (ug/L)  
GLACIAL DRIFT AQUIFER - FALL 2019  
ARKEMA COATING RESINS  
SAUKVILLE, WISCONSIN**

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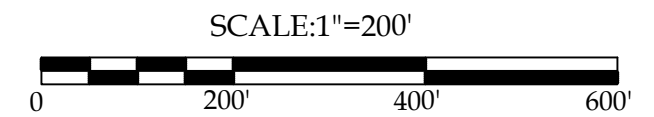
**LEGEND**

- W-18A MONITORING WELL LOCATION AND NUMBER
- W-18A ABANDONED WELL LOCATION AND NUMBER
- APPROXIMATE EXTENT OF GROUNDWATER CONTAINING TCE & VC
- RANNEY COLLECTOR
- AREA OF CONCERN

TCE	Trichloroethene	ND	Not Detected
VC	Vinyl Chloride	NS	Not Sampled
			PAL Exceedance
			ES Exceedance

**NOTES**

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



TCE AND VC IN GROUNDWATER (ug/L)  
 GLACIAL DRIFT AQUIFER - FALL 2019  
 ARKEMA COATING RESINS  
 SAUKVILLE, WISCONSIN

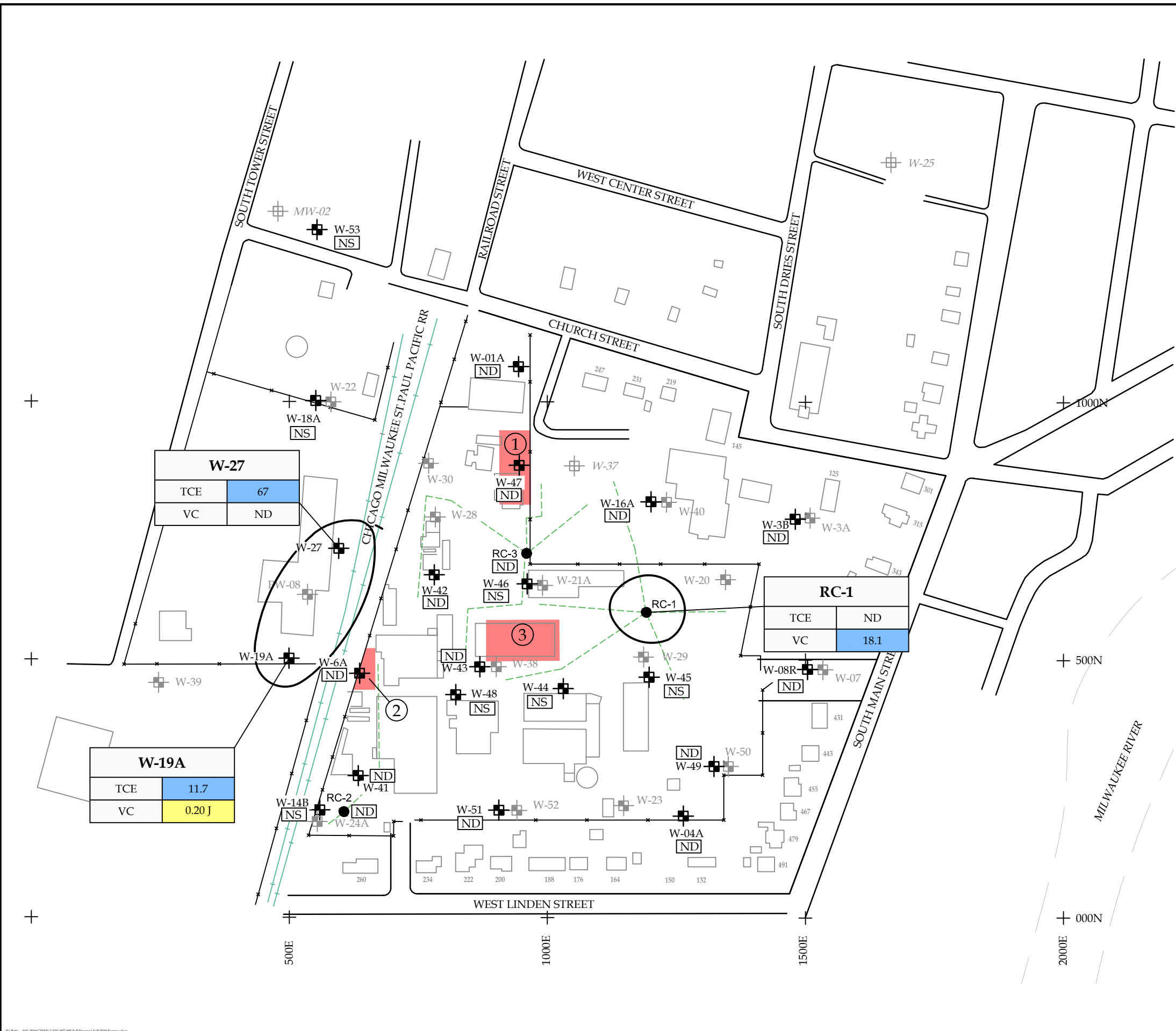
**Endpoint Solutions**

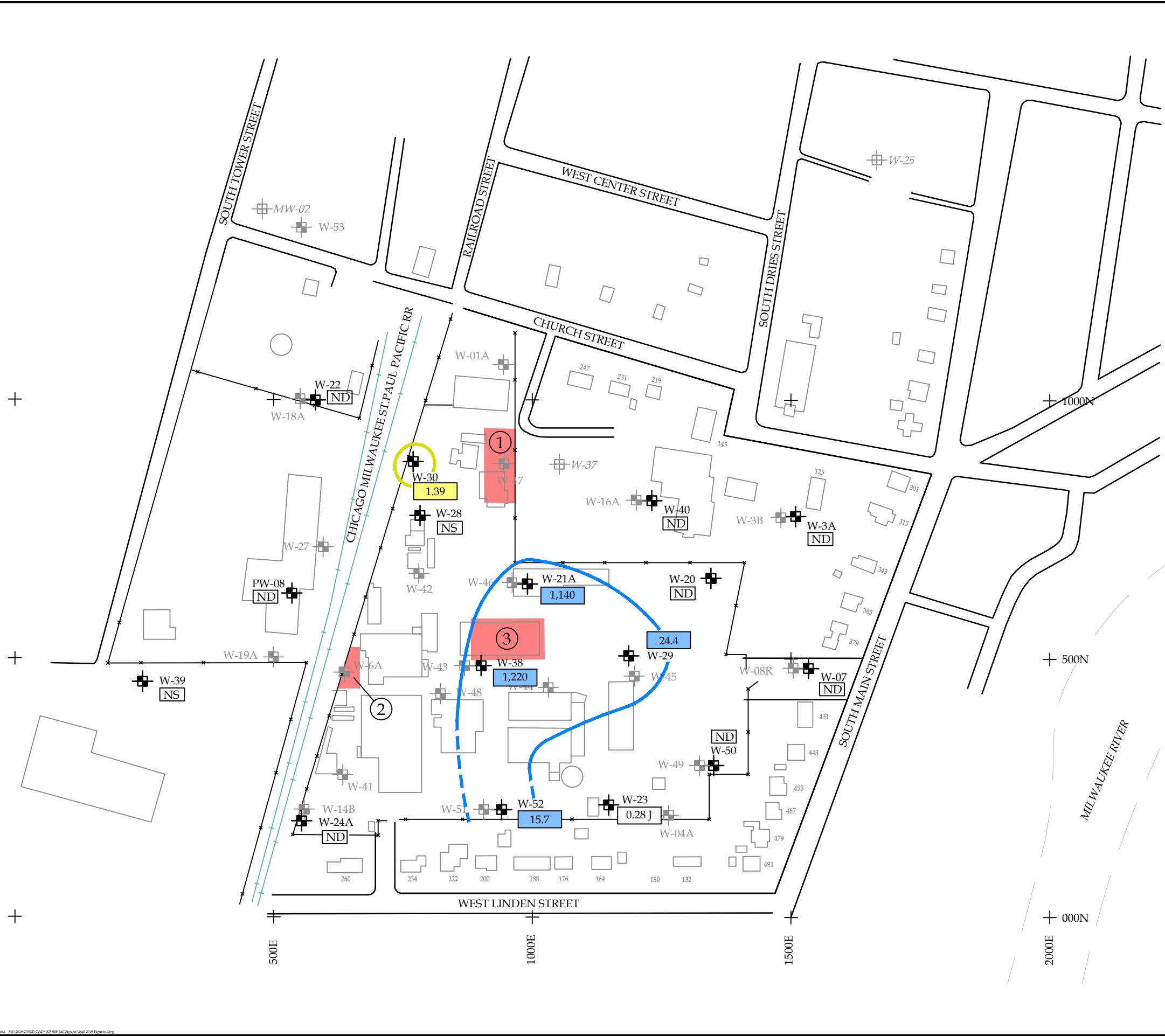
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REVIEWED BY: RAC DWG: FALL 2019 FIGURES **FIGURE 11**

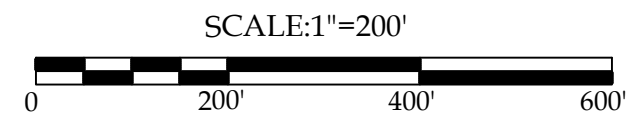




- LEGEND**
- W-18A MONITORING WELL LOCATION AND NUMBER
  - W-18A ABANDONED WELL LOCATION AND NUMBER
  - APPROXIMATE EXTENT OF ES EXCEEDANCES
  - APPROXIMATE EXTENT OF PAL EXCEEDANCES
  - AREA OF CONCERN

ND	Not Detected
NS	Not Sampled
J	Estimated Value
	PAL Exceedance
	ES Exceedance

- NOTES**
1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
  2. W-37 WAS ABANDONED AUGUST 2, 1996.
  3. W-25 WAS ABANDONED JULY 29, 1997.
  4. MW-02 WAS ABANDONED NOVEMBER 2004.



**BENZENE IN GROUNDWATER (ug/L) SHALLOW AND DEEP DOLOMITE AQUIFERS - FALL 2019**  
**ARKEMA COATING RESINS**  
**SAUKVILLE, WISCONSIN**

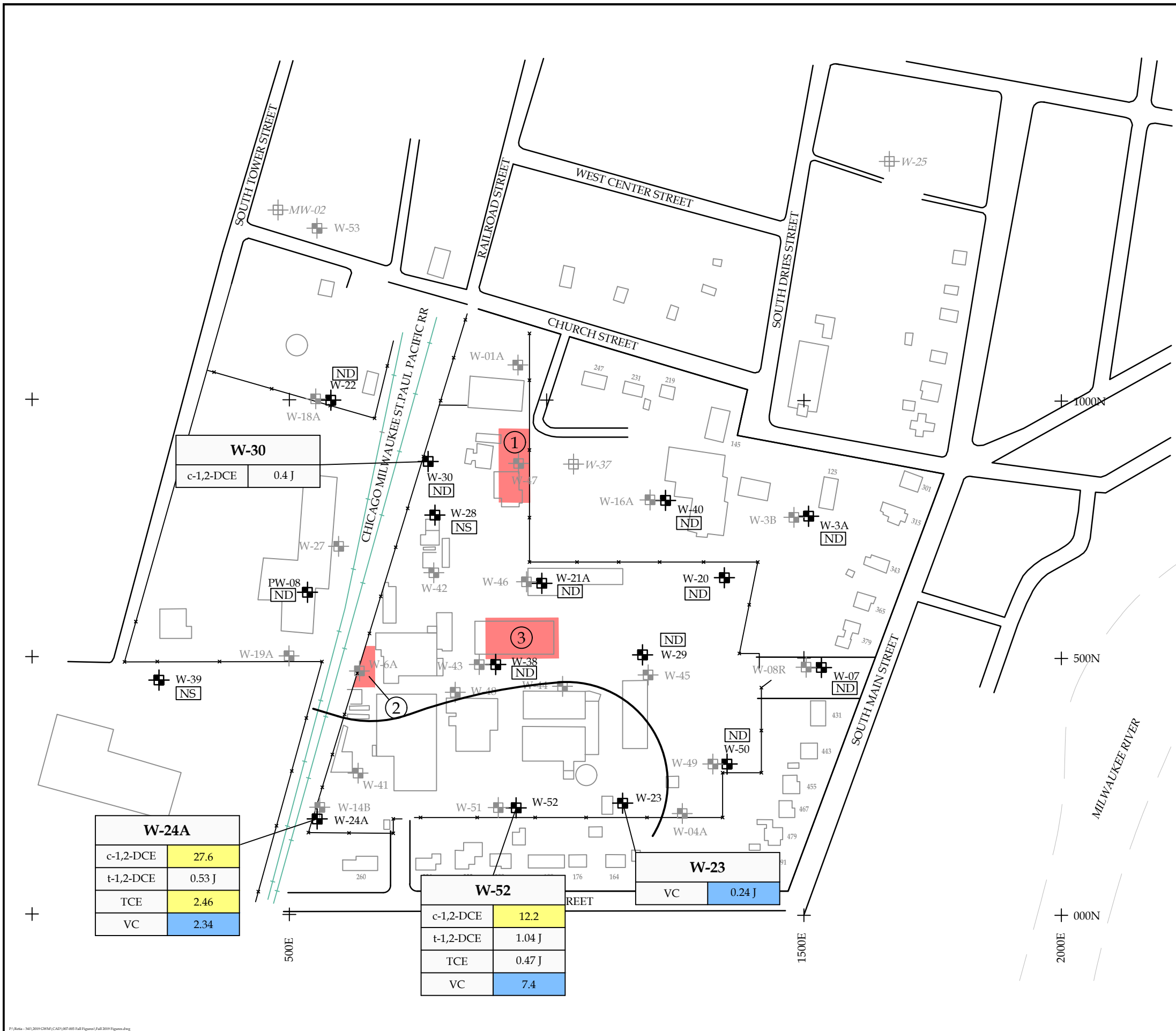
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DWG: FALL 2019 FIGURES	<b>FIGURE 12</b>	

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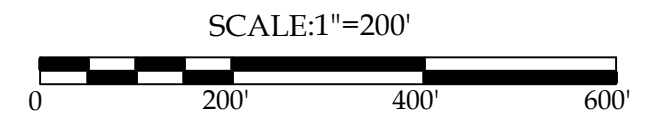
**LEGEND**

- W-18A MONITORING WELL LOCATION AND NUMBER
- W-18A ABANDONED WELL LOCATION AND NUMBER
- APPROXIMATE EXTENT OF CVOCs IN EXCESS OF PALs AND ES
- AREA OF CONCERN

c-1,2-DCE	cis-1,2-Dichloroethene	ND	Not Detected
t-1,2-DCE	trans-1,2-Dichloroethene	NS	Not Sampled
TCE	Trichloroethene	J	Estimated Value
VC	Vinyl Chloride		PAL Exceedance
			ES Exceedance

**NOTES**

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



**CVOCs IN GROUNDWATER (ug/L) SHALLOW AND DEEP DOLOMITE AQUIFERS - FALL 2019**  
**ARKEMA COATING RESINS**  
**SAUKVILLE, WISCONSIN**

**Endpoint Solutions**

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DRAWN BY: NWD	DWG: FALL 2019 FIGURES	341-001-007-005
REVIEWED BY: RAC		<b>FIGURE 13</b>

**W-24A**

c-1,2-DCE	27.6
t-1,2-DCE	0.53 J
TCE	2.46
VC	2.34

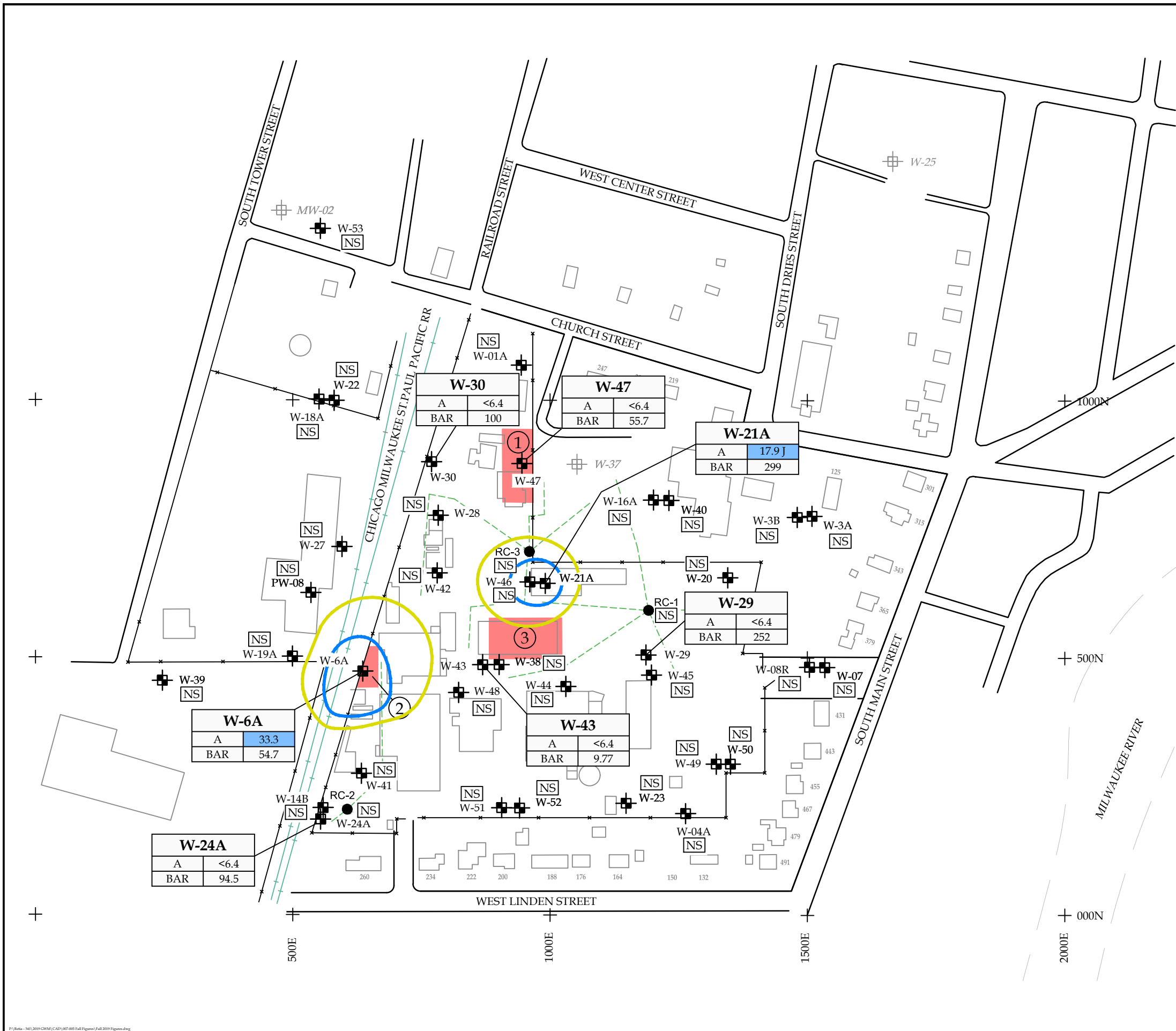
**W-52**

c-1,2-DCE	12.2
t-1,2-DCE	1.04 J
TCE	0.47 J
VC	7.4

**W-23**

VC	0.24 J
----	--------

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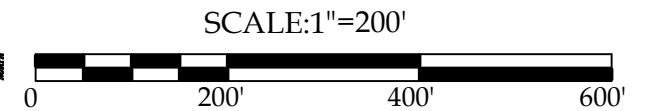
**LEGEND**

- W-18A MONITORING WELL LOCATION AND NUMBER
- W-18A ABANDONED WELL LOCATION AND NUMBER
- APPROXIMATE EXTENT OF ES EXCEEDANCES
- APPROXIMATE EXTENT OF PAL EXCEEDANCES
- RANNEY COLLECTOR
- AREA OF CONCERN

A	Arsenic
BAR	Barium
NA	Not Analyzed due to insufficient sample volume
ND	Not Detected
NS	Not Sampled
	PAL Exceedance
	ES Exceedance

**NOTES**

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



METALS IN GROUNDWATER (ug/L) COMBINED GLACIAL DRIFT AND DOLOMITE AQUIFERS - FALL 2019  
 ARKEMA COATING RESINS  
 SAUKVILLE, WISCONSIN

**Endpoint Solutions**






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REVIEWED BY: RAC DWG: FALL 2019 FIGURES **FIGURE 14**

**LEGEND**

- W-18A  MONITORING WELL LOCATION AND NUMBER
- W-18A  ABANDONED WELL LOCATION AND NUMBER
-  APPROXIMATE EXTENT OF PAL EXCEEDANCES
-  RANNEY COLLECTOR
-  AREA OF CONCERN

ACETO	ACETOPHENONE	ND	Not Analyzed
4-C-3-M	4-CHLORO-3-METHYLPHENOL	NS	Not Sampled
BIS	bis(2-ethylhexyl)phthalate	J	Estimated Value
O-C	O-CRESOL		PAL Exceedance
M&P-C	M&P-CRESOL		ES Exceedance
2,4-D	2,4-DIMETHYLPHENOL		
PH	PHENOL		

**NOTES**

1. BASE MAP WAS DEVELOPED FROM DRAWINGS PROVIDED BY RMT, INC.
2. W-37 WAS ABANDONED AUGUST 2, 1996.
3. W-25 WAS ABANDONED JULY 29, 1997.
4. MW-02 WAS ABANDONED NOVEMBER 2004.



SCALE: 1"=200'



**SVOCs IN GROUNDWATER (ug/L) COMBINED GLACIAL DRIFT AND DOLOMITE AQUIFERS - FALL 2019**  
**ARKEMA COATING RESINS**  
**SAUKVILLE, WISCONSIN**

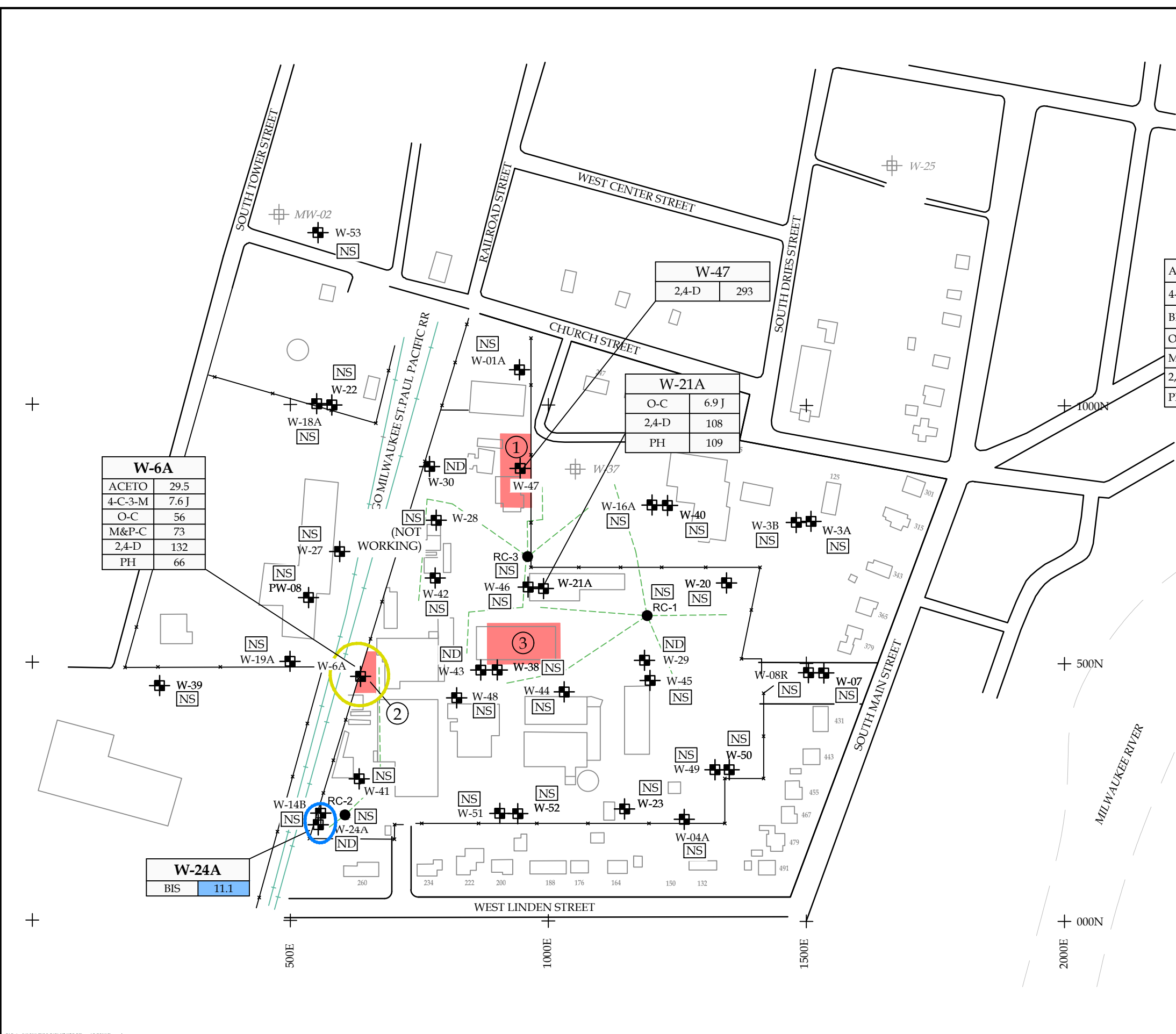
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REVIEWED BY: RAC DWG: FALL 2019 FIGURES **FIGURE 15**



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## **TABLES**

TABLE 1 – MUNICIPAL WATER SUPPLY WELLS – VOC RESULTS

TABLE 2 - POTW– VOC RESULTS

TABLE 3 - RANNEY COLLECTORS – VOC RESULTS

TABLE 4 - PERIMETER GLACIAL DRIFT MONITORING WELLS – VOC RESULTS

TABLE 5 - PERIMETER SHALLOW AND DEEP DOLOMITE WELLS – VOC RESULTS

TABLE 6 - REMEDIATION PROGRESS GLACIAL DRIFT AND SHALLOW DOLOMITE WELLS – VOC RESULTS

TABLE 7 - REMEDIATION PROGRESS GLACIAL DRIFT, SHALLOW AND DEEP DOLOMITE WELLS – METALS, SVOC  
AND PCB RESULTS

TABLE 8 - REMEDIATION PROGRESS GLACIAL DRIFT, SHALLOW AND DEEP DOLOMITE WELLS – VOC RESULTS

TABLE 9 - SUMMARY OF PAL AND ES EXCEEDANCES

TABLE 10 - WATER LEVEL MEASUREMENTS



Table 1

Municipal Water Supply Wells - VOC Results  
Arkema Coating Resins  
Saukville, Wisconsin

Sample ID	MW-1-19-4	MW-3-19-4	MW-4-19-4	DUP1-19-4	TB1-19-4	TB2-19-4	TB3-19-4
Collection Date	10/15/2019	10/15/2019	10/15/2019	10/15/2019	10/15/2019	10/16/2019	10/17/2019
Laboratory ID	5036978E	5036978D	5036978F	5036978G	5036978H	536978MM	536978PP
Duplicate Parent				(MW-4-19-4)			
Monitoring Objective	Receptor	Receptor	Receptor				
Hydrogeologic Unit	Deep Dolomite	Deep Dolomite	Deep Dolomite				
Dilution	1	1	1	1	1	1	1
Parameter	PAL	ES	Units				
1,2-Dibromo-3-chloropropane	0.02	0.2	µg/L	<2.96	<2.96	<2.96	<2.96
Acetone	1,800	9,000	µg/L	<5.01	<5.01	<5.01	<5.01
Benzene	0.5	5	µg/L	<0.22	<0.22	<0.22	<0.22
Bromodichloromethane	0.06	0.6	µg/L	<0.33	<0.33	<0.33	<0.33
Bromoform	0.44	4.4	µg/L	<0.45	<0.45	<0.45	<0.45
Bromomethane	1	10	µg/L	<0.99	<0.99	<0.99	<0.99
Carbon disulfide	200	1,000	µg/L	<0.29	<0.29	<0.29	<0.29
Carbon tetrachloride	0.5	5	µg/L	<0.31	<0.31	<0.31	<0.31
Chlorobenzene (Monochlorobenzene)	20	100	µg/L	<0.26	<0.26	<0.26	<0.26
Chloroethane	80	400	µg/L	<0.61	<0.61	<0.61	<0.61
Chloroform	0.6	6	µg/L	<0.26	<0.26	<0.26	<0.26
Chloromethane	3	30	µg/L	<0.54	<0.54	<0.54	<0.54
Dibromochloromethane	6	60	µg/L	<0.22	<0.22	<0.22	<0.22
Dibromomethane	-	-	µg/L	<0.43	<0.43	<0.43	<0.43
1,4-Dichlorobenzene	15	75	µg/L	<0.7	<0.7	<0.7	<0.7
1,3-Dichlorobenzene	120	600	µg/L	<0.85	<0.85	<0.85	<0.85
1,2-Dichlorobenzene	60	600	µg/L	<0.86	<0.86	<0.86	<0.86
Dichlorodifluoromethane	200	1,000	µg/L	<0.32	<0.32	<0.32	<0.32
1,2-Dichloroethane	0.5	5	µg/L	<0.25	<0.25	<0.25	<0.25
1,1-Dichloroethane	85	850	µg/L	<0.36	<0.36	<0.36	<0.36
1,1-Dichloroethene	0.7	7	µg/L	<0.42	<0.42	<0.42	<0.42
cis-1,2-Dichloroethene	7	70	µg/L	<0.37	<0.37	<0.37	<0.37
trans-1,2-Dichloroethene	20	100	µg/L	<0.34	<0.34	<0.34	<0.34
1,2-Dichloropropane	0.5	5	µg/L	<0.44	<0.44	<0.44	<0.44
trans-1,3-Dichloropropene	0.04	0.4	µg/L	<0.32	<0.32	<0.32	<0.32
cis-1,3-Dichloropropene	0.04	0.4	µg/L	<0.26	<0.26	<0.26	<0.26
1,2-Dibromoethane (EDB)	0.005	0.05	µg/L	<0.34	<0.34	<0.34	<0.34
Ethylbenzene	140	700	µg/L	<0.26	<0.26	<0.26	<0.26
Methyl ethyl ketone (MEK)	800	4,000	µg/L	<4.17	<4.17	<4.17	<4.17
Methylene chloride	0.5	5	µg/L	<1.32	<1.32	<1.32	<1.32
Methyl tert-butyl ether (MTBE)	12	60	µg/L	<0.28	<0.28	<0.28	<0.28
Naphthalene	10	100	µg/L	<2.1	<2.1	<2.1	<2.1
Styrene	10	100	µg/L	<0.26	<0.26	<0.26	<0.26
Tetrachloroethene (PCE)	0.5	5	µg/L	<0.38	<0.38	<0.38	<0.38
Tetrahydrofuran	10	50	µg/L	<2.9	<2.9	<2.9	<2.9
Toluene	160	800	µg/L	<0.19	<0.19	<0.19	<0.19
1,1,1-Trichloroethane	40	200	µg/L	<0.33	<0.33	<0.33	<0.33
1,1,2-Trichloroethane	40	200	µg/L	<0.42	<0.42	<0.42	<0.42
Trichloroethene (TCE)	0.5	5	µg/L	<0.3	<0.3	<0.3	<0.3
Trichlorofluoromethane	-	-	µg/L	<0.35	<0.35	<0.35	<0.35
Vinyl Chloride	0.02	0.2	µg/L	<0.2	<0.2	<0.2	<0.2
m&p-Xylene	400	2,000	µg/L	<0.43	<0.43	<0.43	<0.43
o-Xylene			µg/L	<0.29	<0.29	<0.29	<0.29
Total VOCs			µg/L	0.0	0.0	0.0	0.0
Previous Results			µg/L	0.0	0.0	0.0	
Date				July-19	Apr-19	Apr-19	
Dissolved Oxygen			mg/L	4.36	3.19	3.77	
pH				7.03	7.17	7.10	
Conductivity			mS/cm	0.522	0.559	0.498	
Temperature			°C	10.38	10.76	10.20	
Oxidation-Reduction Potential			mV	-56.2	-64.0	-41.1	

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Preventive Action Limit (PAL)  
Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Enforcement Standard (ES)

VOC - volatile organic compound  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
mS/cm - millisiemens per centimeter  
°C - degrees celsius  
mV - millivolts

Table 2

POTW VOC Results  
Arkema Coating Resins  
Saukville, Wisconsin

Sample ID	POTW-I-19-4	POTW-E-19-4	POTW-S-19-4
Collection Date	10/15/2019	10/15/2019	10/15/2019
Laboratory ID	5036978B	5036978A	5036978C
Duplicate Parent			
Monitoring Objective	Receptor	Receptor	Receptor
Hydrogeologic Unit	POTW	POTW	POTW
Dilution	1	1	500
Parameter	Units		
1,2-Dibromo-3-chloropropane	µg/L	<2.96	<1480
Acetone	µg/L	<b>15.5</b> J	<2505
Benzene	µg/L	<0.22	<110
Bromochloromethane	µg/L	<0.33	<165
Bromoform	µg/L	<0.45	<225
Bromomethane	µg/L	<0.99	<495
Carbon disulfide	µg/L	<0.29	<145
Carbon tetrachloride	µg/L	<0.31	<155
Chlorobenzene (Monochlorobenzene)	µg/L	<0.26	<130
Chloroethane	µg/L	<0.61	<305
Chloroform	µg/L	<0.26	<130
Chloromethane	µg/L	<0.54	<270
Dibromochloromethane	µg/L	<0.22	<110
Dibromomethane	µg/L	<0.43	<215
1,4-Dichlorobenzene	µg/L	<0.7	<350
1,3-Dichlorobenzene	µg/L	<0.85	<425
1,2-Dichlorobenzene	µg/L	<0.86	<430
Dichlorodifluoromethane	µg/L	<0.32	<160
1,2-Dichloroethane	µg/L	<0.25	<125
1,1-Dichloroethane	µg/L	<0.36	<180
1,1-Dichloroethene	µg/L	<0.42	<210
cis-1,2-Dichloroethene	µg/L	<0.37	<185
trans-1,2-Dichloroethene	µg/L	<0.34	<170
1,2-Dichloropropane	µg/L	<0.44	<220
trans-1,3-Dichloropropene	µg/L	<0.32	<160
cis-1,3-Dichloropropene	µg/L	<0.26	<130
1,2-Dibromoethane (EDB)	µg/L	<0.34	<170
Ethylbenzene	µg/L	<b>0.94</b>	<130
Methyl ethyl ketone (MEK)	µg/L	<4.17	<2085
Methylene chloride	µg/L	<1.32	<660
Methyl tert-butyl ether (MTBE)	µg/L	<0.28	<140
Naphthalene	µg/L	<2.1	<1050
Styrene	µg/L	<0.26	<130
Tetrachloroethene (PCE)	µg/L	<0.38	<190
Tetrahydrofuran	µg/L	<2.9	<1450
Toluene	µg/L	<b>0.72</b>	<b>5,600</b>
1,1,1-Trichloroethane	µg/L	<0.33	<165
1,1,2-Trichloroethane	µg/L	<0.42	<210
Trichloroethene (TCE)	µg/L	<0.3	<150
Trichlorofluoromethane	µg/L	<0.35	<175
Vinyl Chloride	µg/L	<0.2	<100
m&p-Xylene	µg/L	<b>7.1</b>	<215
o-Xylene	µg/L	<b>3.13</b>	<145
Total VOCs	µg/L	<b>27.39</b>	<b>5,600</b>
Previous Results	µg/L	40.74	3,700
Date		Apr-19	Apr-19

J - Results reported between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ) are estimated.

VOC - volatile organic compound

µg/L - micrograms per liter

Table 3

Ranney Collector VOC Results  
Arkema Coating Resins  
Saukville, Wisconsin

Parameter	PAL	ES	Units	Sample ID	RC-1-19-4	RC-2-19-4	RC-3-19-4
				Collection Date	10/15/2019	10/15/2019	10/15/2019
				Laboratory ID	5036978J	5036978K	5036978L
				Duplicate Parent			
				Monitoring Objective	Receptor	Receptor	Receptor
				Hydrogeologic Unit	Glacial Drift	Glacial Drift	Glacial Drift
				Dilution	1	1	50
1,2-Dibromo-3-chloropropane	0.02	0.2	µg/L	<2.96	<2.96	<148	
Acetone	1,800	9,000	µg/L	<5.01	<5.01	<250.5	
Benzene	0.5	5	µg/L	180	<0.22	<11	
Bromodichloromethane	0.06	0.6	µg/L	<0.33	<0.33	<16.5	
Bromoform	0.44	4.4	µg/L	<0.45	<0.45	<22.5	
Bromomethane	1	10	µg/L	<0.99	<0.99	<49.5	
Carbon disulfide	200	1,000	µg/L	<0.29	<0.29	<14.5	
Carbon tetrachloride	0.5	5	µg/L	<0.31	<0.31	<15.5	
Chlorobenzene (Monochlorobenzene)	20	100	µg/L	<0.26	<0.26	<13	
Chloroethane	80	400	µg/L	<0.61	<0.61	<30.5	
Chloroform	0.6	6	µg/L	<0.26	<0.26	<13	
Chloromethane	3	30	µg/L	<0.54	<0.54	<27	
Dibromochloromethane	6	60	µg/L	<0.22	<0.22	<11	
Dibromomethane	-	-	µg/L	<0.43	<0.43	<21.5	
1,4-Dichlorobenzene	15	75	µg/L	<0.7	<0.7	<35	
1,3-Dichlorobenzene	120	600	µg/L	<0.85	<0.85	<42.5	
1,2-Dichlorobenzene	60	600	µg/L	<0.86	<0.86	<43	
Dichlorodifluoromethane	200	1,000	µg/L	<0.32	<0.32	<16	
1,2-Dichloroethane	0.5	5	µg/L	<0.25	<0.25	<12.5	
1,1-Dichloroethane	85	850	µg/L	<0.36	<0.36	<18	
1,1-Dichloroethene	0.7	7	µg/L	<0.42	<0.42	<21	
cis-1,2-Dichloroethene	7	70	µg/L	58	<0.37	<18.5	
trans-1,2-Dichloroethene	20	100	µg/L	<0.34	<0.34	<17	
1,2-Dichloropropane	0.5	5	µg/L	<0.44	<0.44	<22	
trans-1,3-Dichloropropene	0.04	0.4	µg/L	<0.32	<0.32	<16	
cis-1,3-Dichloropropene	0.04	0.4	µg/L	<0.26	<0.26	<13	
1,2-Dibromoethane (EDB)	0.005	0.05	µg/L	<0.34	<0.34	<17	
Ethylbenzene	140	700	µg/L	610	<0.26	1,810	
Methyl ethyl ketone (MEK)	800	4,000	µg/L	<4.17	<4.17	<208.5	
Methylene chloride	0.5	5	µg/L	<1.32	<1.32	<66	
Methyl tert-butyl ether (MTBE)	12	60	µg/L	<0.28	<0.28	<14	
Naphthalene	10	100	µg/L	9.2	<2.1	<105	
Styrene	10	100	µg/L	<0.26	<0.26	<13	
Tetrachloroethene (PCE)	0.5	5	µg/L	<0.38	<0.38	<19	
Tetrahydrofuran	10	50	µg/L	<2.9	<2.9	<145	
Toluene	160	800	µg/L	95	<0.19	1,560	
1,1,1-Trichloroethane	40	200	µg/L	<0.33	<0.33	<16.5	
1,1,2-Trichloroethane	40	200	µg/L	<0.42	<0.42	<21	
Trichloroethene (TCE)	0.5	5	µg/L	<0.3	<0.3	<15	
Trichlorofluoromethane	-	-	µg/L	<0.35	<0.35	<17.5	
Vinyl Chloride	0.02	0.2	µg/L	18.1	<0.2	<10	
m&p-Xylene	400	2,000	µg/L	820	<0.43	7,400	
o-Xylene			µg/L	189	<0.29	2,470	
Total VOCs			µg/L	1,979.3	0.0	13,240	
Previous Results Date			µg/L	372.93 Apr-19	0.26 Apr-19	13,742 Apr-19	

VOC - volatile organic compound

µg/L - micrograms per liter

Table 4

Perimeter - Glacial Drift Monitoring Wells - VOC Results  
Arkema Coating Resins  
Saukville, Wisconsin

Sample ID	W-01A-19-4	W-03B-19-4	W-04A-19-4	W-08R-19-4	W-16A-19-4	W-27-19-4	W-49-19-4	W-51-19-4			
Collection Date	10/15/2019	10/17/2019	10/9/2018	10/15/2019	10/17/2019	10/17/2019	10/16/2019	10/16/2019			
Laboratory ID	5036978R	536978UU	5036978W	5036978P	536978NN	536978QQ	5036978U	536978BB			
Duplicate Parent											
Monitoring Objective	Perimeter	Perimeter	Perimeter	Perimeter	Perimeter	Perimeter	Perimeter	Perimeter			
Hydrogeologic Unit	Glacial Drift	Glacial Drift	Glacial Drift	Glacial Drift	Glacial Drift	Glacial Drift	Glacial Drift	Glacial Drift			
Dilution	1	1	1	1	1	1	1	1			
Parameter	PAL	ES	Units	W-01A-19-4	W-03B-19-4	W-04A-19-4	W-08R-19-4	W-16A-19-4	W-27-19-4	W-49-19-4	W-51-19-4
1,2-Dibromo-3-chloropropane	0.02	0.2	µg/L	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96
Acetone	1,800	9,000	µg/L	<5.01	<5.01	<5.01	<5.01	<5.01	<5.01	<5.01	38
Benzene	0.5	5	µg/L	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Bromodichloromethane	0.06	0.6	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
Bromoform	0.44	4.4	µg/L	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Bromomethane	1	10	µg/L	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99
Carbon disulfide	200	1,000	µg/L	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
Carbon tetrachloride	0.5	5	µg/L	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
Chlorobenzene (Monochlorobenzene)	20	100	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloroethane	80	400	µg/L	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61
Chloroform	0.6	6	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Chloromethane	3	30	µg/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54
Dibromochloromethane	6	60	µg/L	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22
Dibromomethane	-	-	µg/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
1,4-Dichlorobenzene	15	75	µg/L	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7
1,3-Dichlorobenzene	120	600	µg/L	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85
1,2-Dichlorobenzene	60	600	µg/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86
Dichlorodifluoromethane	200	1,000	µg/L	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
1,2-Dichloroethane	0.5	5	µg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,1-Dichloroethane	85	850	µg/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,1-Dichloroethene	0.7	7	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
cis-1,2-Dichloroethene	7	70	µg/L	<0.37	<0.37	<0.37	<0.37	6.1	<0.37	<0.37	<0.37
trans-1,2-Dichloroethene	20	100	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2-Dichloropropane	0.5	5	µg/L	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
trans-1,3-Dichloropropene	0.04	0.4	µg/L	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
cis-1,3-Dichloropropene	0.04	0.4	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
1,2-Dibromoethane (EDB)	0.005	0.05	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
Ethylbenzene	140	700	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Methyl ethyl ketone (MEK)	800	4,000	µg/L	<4.17	<4.17	<4.17	<4.17	<4.17	<4.17	<4.17	<4.17
Methylene chloride	0.5	5	µg/L	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32
Methyl tert-butyl ether (MTBE)	12	60	µg/L	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Naphthalene	10	100	µg/L	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1
Styrene	10	100	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26
Tetrachloroethene (PCE)	0.5	5	µg/L	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Tetrahydrofuran	10	50	µg/L	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9
Toluene	160	800	µg/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19
1,1,1-Trichloroethane	40	200	µg/L	<0.33	<0.33	<0.33	<0.33	0.59	J	<0.33	<0.33
1,1,2-Trichloroethane	40	200	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
Trichloroethene (TCE)	0.5	5	µg/L	<0.3	<0.3	<0.3	<0.3	67	<0.3	<0.3	<0.3
Trichlorofluoromethane	-	-	µg/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Vinyl Chloride	0.02	0.2	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
m&p-Xylene	400	2,000	µg/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
o-Xylene			µg/L	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29
Total VOCs			µg/L	0.00	0.00	0.00	0.00	0.00	73.69	0.00	38
Previous Results			µg/L	0.00	0.00	0.00	0.00	0.00	17.86	0.00	0.00
Date				Apr-19	Apr-19	Apr-19	Apr-19	Apr-19	Apr-19	Apr-19	Apr-19
Dissolved Oxygen			mg/L	4.86	0.47	6.38	6.33	23.72	3.67	8.90	4.00
pH				6.80	7.16	6.67	7.17	6.86	6.61	6.64	6.81
Conductivity			mS/cm	0.619	0.741	0.952	0.583	0.536	0.629	0.665	1.614
Temperature			°C	17.12	10.82	9.15	16.31	11.97	11.46	11.21	11.32
Oxidation-Reduction Potential			mV	59.3	-164.4	65.9	3.0	-68.3	-4.5	84.6	-5.0

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Preventive Action Limit (PAL)

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Enforcement Standard (ES)

J - Results reported between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ) are estimated.

VOC - volatile organic compound

µg/L - micrograms per liter

mg/L - milligrams per liter

mS/cm - millisiemens per centimeter

°C - degrees celsius

mV - millivolts

Table 5

Perimeter - Shallow and Deep Dolomite Wells - VOC Results  
Arkema Coating Resins  
Saukville, Wisconsin

Sample ID	W-03A-19-4	DUP3-19-4	W-07-19-4	W-20-19-4	W-22-19-4	W-23-19-4	DUP2-19-4	W-40-19-4	W-50-19-4	W-52-19-4	PW-08-19-4		
Collection Date	10/17/2019	10/17/2019	10/15/2019	10/16/2019	10/17/2019	10/16/2019	10/16/2019	10/17/2019	10/16/2019	10/16/2019	10/16/2019		
Laboratory ID	536978SS	536978TT	5036978O	536978II	536978RR	5036978X	5036978Y	536978OO	5036978V	536978CC	536978JJ		
Duplicate Parent		(W-03A-19-4)					(W-23-19-4)						
Monitoring Objective	Perimeter	Perimeter	Perimeter	Perimeter	Perimeter	Perimeter		Perimeter	Perimeter	Perimeter	Perimeter		
Hydrogeologic Unit	Shallow Dolomite	Glacial Drift	Shallow Dolomite	Shallow Dolomite	Shallow Dolomite	Shallow Dolomite		Shallow Dolomite	Shallow Dolomite	Shallow Dolomite	Deep Dolomite		
Dilution	1	1	1	1	1	1	1	1	1	1	1		
Parameter	PAL	ES	Units										
1,2-Dibromo-3-chloropropane	0.02	0.2	µg/L	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96	<2.96		
Acetone	1,800	9,000	µg/L	<5.01	<5.01	<5.01	<5.01	<5.01	<5.01	<5.01	<5.01		
Benzene	0.5	5	µg/L	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22		
Bromodichloromethane	0.06	0.6	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33		
Bromoform	0.44	4.4	µg/L	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45		
Bromomethane	1	10	µg/L	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99	<0.99		
Carbon disulfide	200	1,000	µg/L	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29		
Carbon tetrachloride	0.5	5	µg/L	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31		
Chlorobenzene (Monochlorobenzene)	20	100	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26		
Chloroethane	80	400	µg/L	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61		
Chloroform	0.6	6	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26		
Chloromethane	3	30	µg/L	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54	<0.54		
Dibromochloromethane	6	60	µg/L	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22		
Dibromomethane	-	-	µg/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43		
1,4-Dichlorobenzene	15	75	µg/L	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7	<0.7		
1,3-Dichlorobenzene	120	600	µg/L	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85	<0.85		
1,2-Dichlorobenzene	60	600	µg/L	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86	<0.86		
Dichlorodifluoromethane	200	1,000	µg/L	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32		
1,2-Dichloroethane	0.5	5	µg/L	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25		
1,1-Dichloroethane	85	850	µg/L	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36		
1,1-Dichloroethene	0.7	7	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42		
cis-1,2-Dichloroethene	7	70	µg/L	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37		
trans-1,2-Dichloroethene	20	100	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34		
1,2-Dichloropropane	0.5	5	µg/L	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44		
trans-1,3-Dichloropropene	0.04	0.4	µg/L	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32		
cis-1,3-Dichloropropene	0.04	0.4	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26		
1,2-Dibromoethane (EDB)	0.005	0.05	µg/L	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34		
Ethylbenzene	140	700	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26		
Methyl ethyl ketone (MEK)	800	4,000	µg/L	<4.17	<4.17	<4.17	<4.17	<4.17	<4.17	<4.17	<4.17		
Methylene chloride	0.5	5	µg/L	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32	<1.32		
Methyl tert-butyl ether (MTBE)	12	60	µg/L	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28		
Naphthalene	10	100	µg/L	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1	<2.1		
Styrene	10	100	µg/L	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26	<0.26		
Tetrachloroethene (PCE)	0.5	5	µg/L	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38		
Tetrahydrofuran	10	50	µg/L	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9	<2.9		
Toluene	160	800	µg/L	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19		
1,1,1-Trichloroethane	40	200	µg/L	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33		
1,1,2-Trichloroethane	40	200	µg/L	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42		
Trichloroethene (TCE)	0.5	5	µg/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3		
Trichlorofluoromethane	-	-	µg/L	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35		
Vinyl Chloride	0.02	0.2	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
m&p-Xylene	400	2,000	µg/L	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43		
o-Xylene	400	2,000	µg/L	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29		
Total VOCs			µg/L	0.00	0.00	0.00	0.00	1.30	1.41	0.00	0.00	88.81	0.00
Previous Results			µg/L	0.00		0.00	0.00	0.63		0.00	0.00	44.69	0.00
Date				Apr-19		Apr-19	Apr-19	Apr-19		Apr-19	Apr-19	Apr-19	Apr-19
Dissolved Oxygen			mg/L	0.54		9.22	0.36	0.92		0.00	8.12	1.90	0.362
pH				8.06		7.03	7.46	6.89		6.91	6.89	6.76	7.36
Conductivity			mS/cm	0.260		0.602	0.405	0.733		0.587	0.599	1.155	0.363
Temperature			°C	10.45		15.07	10.84	10.54		11.84	10.02	10.99	11.99
Oxidation-Reduction Potential			mV	-333.2		6.4	-27.4	11.1		-83.9	72.6	-12.3	-179.4

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Preventive Action Limit (PAL)  
Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Enforcement Standard (ES)

J - Results reported between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ) are estimated.  
VOC - volatile organic compound  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
mS/cm - millisiemens per centimeter  
°C - degrees celsius  
mV - millivolts

Table 6

Remediation Progress - Glacial Drift and Shallow Dolomite Wells - VOC Results  
Arkema Coating Resins  
Saukville, Wisconsin

Sample ID	W-19A-19-4	DUP4-19-4	W-38-19-4	W-41-19-4	W-42-19-4			
Collection Date	10/16/2019	10/16/2019	10/16/2019	10/16/2019	10/16/2019			
Laboratory ID	536978KK	536978LL	536978HH	5036978Z	536978DD			
Duplicate Parent		(W-19A-19-4)						
Monitoring Objective	Remediation Progress		Remediation Progress	Remediation Progress	Remediation Progress			
Hydrogeologic Unit	Glacial Drift		Shallow Dolomite	Glacial Drift	Glacial Drift			
Dilution	1	1	10	1	50			
Parameter	PAL	ES	Units					
1,2-Dibromo-3-chloropropane	0.02	0.2	µg/L	<2.96	<2.96	<29.6	<2.96	<148
Acetone	1,800	9,000	µg/L	<5.01	<5.01	<50.1	<5.01	<250.5
Benzene	0.5	5	µg/L	<0.22	<0.22	1,220	0.26	J 43
Bromodichloromethane	0.06	0.6	µg/L	<0.33	<0.33	<3.3	<0.33	<16.5
Bromoform	0.44	4.4	µg/L	<0.45	<0.45	<4.5	<0.45	<22.5
Bromomethane	1	10	µg/L	<0.99	<0.99	<9.9	<0.99	<49.5
Carbon disulfide	200	1,000	µg/L	<0.29	<0.29	<2.9	<0.29	<14.5
Carbon tetrachloride	0.5	5	µg/L	<0.31	<0.31	<3.1	<0.31	<15.5
Chlorobenzene (Monochlorobenzene)	20	100	µg/L	<0.26	<0.26	<2.6	<0.26	<13
Chloroethane	80	400	µg/L	<0.61	<0.61	<6.1	<0.61	<30.5
Chloroform	0.6	6	µg/L	<0.26	<0.26	<2.6	<0.26	<13
Chloromethane	3	30	µg/L	<0.54	<0.54	<5.4	<0.54	<27
Dibromochloromethane	6	60	µg/L	<0.22	<0.22	<2.2	<0.22	<11
Dibromomethane	-	-	µg/L	<0.43	<0.43	<4.3	<0.43	<21.5
1,4-Dichlorobenzene	15	75	µg/L	<0.7	<0.7	<7	<0.7	<35
1,3-Dichlorobenzene	120	600	µg/L	<0.85	<0.85	<8.5	<0.85	<42.5
1,2-Dichlorobenzene	60	600	µg/L	<0.86	<0.86	<8.6	<0.86	<43
Dichlorodifluoromethane	200	1,000	µg/L	<0.32	<0.32	<3.2	<0.32	<16
1,2-Dichloroethane	0.5	5	µg/L	<0.25	<0.25	<2.5	<0.25	<12.5
1,1-Dichloroethane	85	850	µg/L	<0.36	<0.36	<3.6	<0.36	<18
1,1-Dichloroethene	0.7	7	µg/L	<0.42	<0.42	<4.2	<0.42	<21
cis-1,2-Dichloroethene	7	70	µg/L	8.3	7.8	<3.7	<0.37	<18.5
trans-1,2-Dichloroethene	20	100	µg/L	<0.34	<0.34	<3.4	<0.34	<17
1,2-Dichloropropane	0.5	5	µg/L	<0.44	<0.44	<4.4	<0.44	<22
trans-1,3-Dichloropropene	0.04	0.4	µg/L	<0.32	<0.32	<3.2	<0.32	<16
cis-1,3-Dichloropropene	0.04	0.4	µg/L	<0.26	<0.26	<2.6	<0.26	<13
1,2-Dibromoethane (EDB)	0.005	0.05	µg/L	<0.34	<0.34	<3.4	<0.34	<17
Ethylbenzene	140	700	µg/L	<0.26	<0.26	<2.6	<0.26	106
Methyl ethyl ketone (MEK)	800	4,000	µg/L	<4.17	<4.17	<41.7	<4.17	<208.5
Methylene chloride	0.5	5	µg/L	<1.32	<1.32	<13.2	<1.32	<66
Methyl tert-butyl ether (MTBE)	12	60	µg/L	<0.28	<0.28	<2.8	<0.28	<14
Naphthalene	10	100	µg/L	<2.1	<2.1	<21	<2.1	<105
Styrene	10	100	µg/L	<0.26	<0.26	<2.6	<0.26	<13
Tetrachloroethene (PCE)	0.5	5	µg/L	<0.38	<0.38	<3.8	<0.38	<19
Tetrahydrofuran	10	50	µg/L	<2.9	<2.9	<29	<2.9	<145
Toluene	160	800	µg/L	<0.19	<0.19	<1.9	<0.19	21 J
1,1,1-Trichloroethane	40	200	µg/L	<0.33	<0.33	<3.3	<0.33	<16.5
1,1,2-Trichloroethane	40	200	µg/L	<0.42	<0.42	<4.2	<0.42	<21
Trichloroethene (TCE)	0.5	5	µg/L	11.7	10.8	<3	<0.3	<15
Trichlorofluoromethane	-	-	µg/L	<0.35	<0.35	<3.5	<0.35	<17.5
Vinyl Chloride	0.02	0.2	µg/L	0.20 J	0.22 J	<2	<0.2	<10
m&p-Xylene	400	2,000	µg/L	<0.43	<0.43	<4.3	<0.43	7,600
o-Xylene			µg/L	<0.29	<0.29	<2.9	<0.29	<14.5
Total VOCs			µg/L	20.20	18.82	1,220	0.26	7,770
Previous Results			µg/L	29.05		1,020	1.98	10,505.5
Date				Oct-18		Oct-18	Oct-18	Oct-18
Dissolved Oxygen			mg/L	21.90		0.47	2.69	2.73
pH				6.90		6.75	7.14	6.66
Conductivity			mS/cm	1.160		3.795	0.555	3.596
Temperature			°C	12.57		12.43	12.37	13.18
Oxidation-Reduction Potential				-34.5		-103.1	42.8	8.3

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Preventive Action Limit (PAL)

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Enforcement Standard (ES)

VOC - volatile organic compound

J - Results reported between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ) are estimated.

NS - Not Sampled

µg/L - micrograms per liter

mg/L - milligrams per liter

mS/cm - millisiemens per centimeter

°C - degrees celsius

mV - millivolts

Table 7

Remediation Progress - Glacial Drift, Shallow and Deep Dolomite Wells - Metals, SVOCs and PCBs Results  
Arkema Coating Resins  
Saukville, Wisconsin

Sample ID	W-06A-19-4	W-21A-19-4	W-24A-19-4	W-28-19-4	W-29-19-4	W-30-19-4	DUP5-19-4	W-43-19-4	W-47-19-4	DUP6-19-4
Collection Date	10/16/2019	10/15/2019	10/15/2019	Not Sampled	10/15/2019	10/15/2019	10/15/2019	10/16/2019	10/16/2019	10/16/2019
Laboratory ID	536978AA	5036978L	5036978M	Pump inoperable	5036978N	5036978S	5036978T	536978GG	536978EE	536978FF
Duplicate Parent							(W-30-19-4)			(W-47-19-4)
Monitoring Objective	Remediation Progress	Remediation Progress	Remediation Progress	Remediation Progress	Remediation Progress	Remediation Progress		Remediation Progress	Remediation Progress	
Hydrogeologic Unit	Glacial Drift	Shallow Dolomite	Shallow Dolomite	Shallow Dolomite	Shallow Dolomite	Deep Dolomite		Glacial Drift	Glacial Drift	
Parameter	PAL	ES	Units							
Arsenic	1	10	µg/L	33.3	17.9 J	<6.4	NS	<6.4	<6.4	<6.4
Barium	400	2,000	µg/L	54.7	299	94.5	NS	252	100	99
									9.77	55.7
Parameter	PAL	ES	Units							
Aroclor 1016			ug/L							<0.1
Aroclor 1221			ug/L							<0.073
Aroclor 1232			ug/L							<0.042
Aroclor 1242	0.003	0.03	ug/L							<0.047
Aroclor 1248			ug/L							<0.086
Aroclor 1254			ug/L							<0.047
Aroclor 1260			ug/L							<0.12
Parameter	PAL	ES	Units							
Acetophenone	-	-	µg/L	29.5	<6.9	<0.69	NS	<0.69	<0.69	<6.9
Acenaphthene	-	-	µg/L	<6.7	<6.7	<0.67	NS	<0.67	<0.67	<6.7
Anthracene	600	3,000	µg/L	<7.8	<7.8	<0.78	NS	<0.78	<0.78	<7.8
bis(2-ethylhexyl)phthalate	0.6	6	µg/L	<15.4	<15.4	11.1	NS	<1.54	<1.54	<15.4
4-Chloro-3-methylphenol	-	-	µg/L	7.6 J	<7.5	<0.75	NS	<0.75	<0.75	<7.5
o-Cresol	-	-	µg/L	56	6.9 J	<0.38	NS	<0.38	<0.38	<3.8
m & p-Cresol	-	-	µg/L	73	<5.4	<0.54	NS	<0.54	<0.54	<5.4
Dibenzofuran	-	-	µg/L	<8.3	<8.3	<0.83	NS	<0.83	<0.83	<8.3
1,4-Dichlorobenzene	15	75	µg/L	<6	<6	<0.6	NS	<0.6	<0.6	<6
1,3-Dichlorobenzene	120	600	µg/L	<7.1	<7.1	<0.71	NS	<0.71	<0.71	<7.1
1,2-Dichlorobenzene	60	600	µg/L	<7.3	<7.3	<0.73	NS	<0.73	<0.73	<7.3
2,4-Dimethylphenol	-	-	µg/L	132	108	<1.09	NS	<1.09	<1.09	293
Di-n-butyl phthalate	-	-	µg/L	<9.3	<9.3	<0.93	NS	<0.93	<0.93	<9.3
Fluorene	80	400	µg/L	<16	<16	<1.6	NS	<1.6	<1.6	<16
1-Methyl naphthalene	-	-	µg/L	<7.4	<7.4	<0.74	NS	<0.74	<0.74	<7.4
2-Methyl naphthalene	-	-	µg/L	<8.4	<8.4	<0.84	NS	<0.84	<0.84	<8.4
Naphthalene	10	100	µg/L	10.7 J	7.5 J	<0.73	NS	<0.73	<0.73	9.2 J
Pentachlorophenol (PCP)	0.1	1	µg/L	<18.4	<18.4	<1.84	NS	<1.84	<1.84	<18.4
Phenanthrene	-	-	µg/L	<6.5	<6.5	<0.65	NS	<0.65	<0.65	<6.5
Phenol	400	2,000	µg/L	66	109	<1	NS	<1	<1	<10

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Preventive Action Limit (PAL)

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Enforcement Standard (ES)

J - Results reported between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ) are estimated.

NS - Not Sampled or No Data

µg/L - micrograms per liter

Table 8

Remediation Progress - Glacial Drift, Shallow and Deep Dolomite Wells - VOC Results  
Arkema Coating Resins  
Saukville, Wisconsin

Sample ID	W-06A-19-4	W-21A-19-4	W-24A-19-4	W-28-19-4	W-29-19-4	W-30-19-4	W-43-19-4	W-47-19-4					
Collection Date	10/16/19	10/15/2019	10/15/2019	Not Sampled	10/15/2019	10/15/2019	10/16/2019	10/16/2019					
Laboratory ID	536978AA	5036978L	5036978M	Pump inoperable	5036978N	5036978S	536978GG	536978EE					
Duplicate Parent													
Monitoring Objective	Remediation Progress	Remediation Progress	Remediation Progress	Remediation Progress	Remediation Progress	Remediation Progress	Remediation Progress	Remediation Progress					
Hydrogeologic Unit	Glacial Drift	Shallow Dolomite	Shallow Dolomite	Shallow Dolomite	Shallow Dolomite	Deep Dolomite	Glacial Drift	Glacial Drift					
Dilution	500	100	1		1	1	1	100					
Parameter	PAL	ES	Units										
Propionitrile	-	-	µg/L	<950	<190	<1.9	NS	<1.9	<1.9	<190			
Methylacrylonitrile	-	-	µg/L	<230	<46	<0.46	NS	<0.46	<0.46	<46			
Isobutanol	-	-	µg/L	<3900	<780	<7.8	NS	<7.8	<7.8	<780			
Acenitrile	-	-	µg/L	<1940	<388	<3.88	NS	<3.88	<3.88	<388			
Acetone	1,800	9,000	µg/L	<2505	<501	<5.01	NS	<5.01	<5.01	<501			
Allyl Chloride	-	-	µg/L	<450	<90	<0.9	NS	<0.9	<0.9	<90			
Benzene	0.5	5	µg/L	135	J 1,140	<0.22	NS	24.4	1.39	0.81			
Bromodichloromethane	0.06	0.6	µg/L	<165	<33	<0.33	NS	<0.33	<0.33	<33			
Bromoform	0.44	4.4	µg/L	<225	<45	<0.45	NS	<0.45	<0.45	<45			
Bromomethane	1	10	µg/L	<495	<99	<0.99	NS	<0.99	<0.99	<99			
Carbon disulfide	200	1,000	µg/L	<145	<29	<0.29	NS	0.77	J	<0.29	0.39	J	<29
Carbon tetrachloride	0.5	5	µg/L	<155	<31	<0.31	NS	<0.31	<0.31	<31	<31		
Chlorobenzene	20	100	µg/L	<130	<26	<0.26	NS	<0.26	<0.26	<26	<26		
Chloroethane	80	400	µg/L	<305	<61	<0.61	NS	<0.61	<0.61	<61	<61		
Chloroform	0.6	6	µg/L	<130	<26	<0.26	NS	<0.26	<0.26	<26	<26		
Chloromethane	3	30	µg/L	<270	<54	<0.54	NS	<0.54	<0.54	<54	<54		
Chloroprene	-	-	µg/L	<285	<57	<0.57	NS	<0.57	<0.57	<57	<57		
1,2-Dibromo-3-chloropropane	0.02	0.2	µg/L	<1480	<296	<2.96	NS	<2.96	<2.96	<296	<296		
Dibromochloromethane	6	60	µg/L	<110	<22	<0.22	NS	<0.22	<0.22	<22	<22		
Dibromomethane	-	-	µg/L	<215	<43	<0.43	NS	<0.43	<0.43	<43	<43		
1,4-Dichlorobenzene	15	75	µg/L	<350	<70	<0.7	NS	<0.7	<0.7	<70	<70		
1,3-Dichlorobenzene	120	600	µg/L	<425	<85	<0.85	NS	<0.85	<0.85	<85	<85		
1,2-Dichlorobenzene	60	600	µg/L	<430	<86	<0.86	NS	<0.86	<0.86	<86	<86		
Dichlorodifluoromethane	200	1000	µg/L	<160	<32	<0.32	NS	<0.32	<0.32	<32	<32		
1,2-Dichloroethane	0.5	5	µg/L	<125	<25	<0.25	NS	<0.25	<0.25	<25	<25		
1,1-Dichloroethane	85	850	µg/L	<180	<36	<0.36	NS	<0.36	<0.36	<36	<36		
1,1-Dichloroethene	0.7	7	µg/L	<210	<42	<0.42	NS	<0.42	<0.42	<42	<42		
cis-1,2-Dichloroethene	7	70	µg/L	<185	<37	27.6	NS	<0.37	0.4	J	<0.37	<37	
trans-1,2-Dichloroethene	20	100	µg/L	<170	<34	0.53	J	<0.34	<0.34	<34	<34		
1,2-Dichloropropane	0.5	5	µg/L	<220	<44	<0.44	NS	<0.44	<0.44	<44	<44		
trans-1,3-Dichloropropene	0.04	0.4	µg/L	<160	<32	<0.32	NS	<0.32	<0.32	<32	<32		
cis-1,3-Dichloropropene	0.04	0.4	µg/L	<130	<26	<0.26	NS	<0.26	<0.26	<26	<26		
1,4-Dioxane	0.3	3	µg/L	<4450	<890	88	NS	57	<8.9	<8.9	<890	<890	
1,2-Dibromoethane (EDB)	0.005	0.05	µg/L	<170	<34	<0.34	NS	<0.34	<0.34	<34	<34		
Ethyl Methacrylate	-	-	µg/L	<3000	<600	<6	NS	<6	<6	<600	<600		
Ethylbenzene	140	700	µg/L	21,200	3,500	<0.26	NS	47	<0.26	<0.26	81	J	
Hexachlorobutadiene	-	-	µg/L	<670	<134	<1.34	NS	<1.34	<1.34	<134	<134		
2-Hexanone	-	-	µg/L	<720	<144	<1.44	NS	<1.44	<1.44	<144	<144		
Iodomethane	-	-	µg/L	<720	<144	<1.44	NS	<1.44	<1.44	<144	<144		
Methyl ethyl ketone (MEK)	800	4,000	µg/L	<2085	<417	<4.17	NS	<4.17	<4.17	<417	<417		
Methyl isobutyl ketone (MIBK)	50	500	µg/L	<1975	<395	<3.95	NS	<3.95	<3.95	<395	<395		
Methyl Methacrylate	-	-	µg/L	<3200	<640	<6.4	NS	<6.4	<6.4	<640	<640		
Methylene Chloride	0.5	5	µg/L	<660	<132	<1.32	NS	<1.32	<1.32	<132	<132		
Styrene	10	100	µg/L	<130	<26	<0.26	NS	2.54	<0.26	<0.26	<26	<26	
1,1,2,2-Tetrachloroethane	0.02	0.2	µg/L	<150	<30	<0.3	NS	<0.3	<0.3	<30	<30		
1,1,1,2-Tetrachloroethane	7	70	µg/L	<175	<35	<0.35	NS	<0.35	<0.35	<35	<35		
Tetrachloroethene (PCE)	0.5	5	µg/L	<190	<38	<0.38	NS	<0.38	<0.38	<38	<38		
Toluene	160	800	µg/L	29,200	41	<0.19	J	NS	2.82	<0.19	<0.19	<19	
1,2,4-Trichlorobenzene	14	70	µg/L	<575	<115	<1.15	NS	<1.15	<1.15	<115	<115		
1,1,1-Trichloroethane	40	200	µg/L	<165	<33	<0.33	NS	<0.33	<0.33	<33	<33		
1,1,2-Trichloroethane	0.5	5	µg/L	<210	<42	<0.42	NS	<0.42	<0.42	<42	<42		
Trichloroethene (TCE)	0.5	5	µg/L	<150	<30	2.46	NS	<0.3	<0.3	<30	<30		
Trichlorofluoromethane	-	-	µg/L	<175	<35	<0.35	NS	<0.35	1.82	<0.35	<35	<35	
1,2,3-Trichloropropane	12	60	µg/L	<415	<83	<0.83	NS	<0.83	<0.83	<83	<83		
Vinyl Acetate	-	-	µg/L	<1130	<226	<2.26	NS	<2.26	<2.26	<226	<226		
Vinyl Chloride	0.02	0.2	µg/L	<100	<20	2.34	NS	<0.2	<0.2	<20	<20		
m&p-Xylene	400	2,000	µg/L	72,000	2,590	<0.43	NS	37	<0.43	<0.43	2,880	<2,880	
o-Xylene	-	-	µg/L	22,800	265	<0.29	NS	6.8	<0.29	<0.29	74	J	
Total VOCs			µg/L	145,335	7,536	120.93	NS	178.33	3.61	1.20	3,035	3,035	
Previous Results			µg/L	129,940	11,152.0	183.71		56.57	36.71	10.3	16,841	16,841	
Date				Oct-18	Oct-18	Oct-18		Oct-18	Oct-18	Oct-18	Oct-18	Oct-18	
Dissolved Oxygen			mg/L	3.95	ND	ND	NS	ND	3.01	7.29	3.91	3.91	
pH				6.70	ND	ND	NS	ND	6.92	7.53	6.62	6.62	
Conductivity			mS/cm	0.513	ND	ND	NS	ND	0.506	0.410	0.625	0.625	
Temperature			°C	13.73	ND	ND	NS	ND	11.96	13.00	13.22	13.22	
Oxidation-Reduction Potential			mV	12.3	ND	ND	NS	ND	11.6	-127.2	-59.7	-59.7	

Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Preventive Action Limit (PAL)  
Indicates concentration in exceedance of Wisconsin Administrative Code Chapter NR140 Enforcement Standard (ES)  
J - Results reported between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ) are estimated.  
VOC - volatile organic compound  
NS - Not Sampled or No Data  
µg/L - micrograms per liter  
mg/L - milligrams per liter  
mS/cm - millisiemens per centimeter  
°C - degrees celsius  
mV - millivolts



Table 9

Summary of PAL and ES Exceedances  
Arkema Coating Resins  
Saukville, Wisconsin

## RECEPTOR MONITORING POINTS

Parameter	PAL	ES	Units	RC-1-19-4	RC-3-19-4
Benzene	0.5	5	µg/L	180	
cis-1,2-Dichloroethene	7	70	µg/L	58	
Ethylbenzene	140	700	µg/L	610	1,810
Toluene	160	800	µg/L		1,560
Vinyl Chloride	0.02	0.2	µg/L	18.1	
Xylenes (total)	400	2,000	µg/L	1,009	9,870

## PERIMETER MONITORING POINTS

Parameter	PAL	ES	Units	W-23-19-4	W-27-19-4	W-52-19-4
Benzene	0.5	5	µg/L			15.7
cis-1,2-Dichloroethene	7	70	µg/L			12.2
Trichloroethene (TCE)	0.5	5	µg/L		67	
Vinyl Chloride	0.02	0.2	µg/L	0.24 J		7.4

## REMEDIATION PROGRESS MONITORING POINTS

Parameter	PAL	ES	Units	W-06A-19-4	W-19A-19-4	W-21A-19-4	W-24A-19-4	W-29-19-4	W-30-19-4	W-38-19-4	W-42-19-4	W-43-19-4	W-47-19-4
Arsenic	1	10	µg/L	33.3		17.9 J							
Benzene	0.5	5	µg/L	135 J		1,140		24.4	1.39	1,220	43	0.81	
bis(2-ethylhexyl)phthalate	0.6	6	µg/L				11.1						
cis-1,2-Dichloroethene	7	70	µg/L		8.3		27.6						
1,4-Dioxane	0.3	3	µg/L				88	57					
Ethylbenzene	140	700	µg/L	21,200		3,500							
Naphthalene	10	100	µg/L	10.7 J									
Toluene	160	800	µg/L	29,200									
Trichloroethene (TCE)	0.5	5	µg/L		11.7		2.46						
Vinyl Chloride	0.02	0.2	µg/L		0.20 J		2.34						
Xylenes (total)	400	2,000	µg/L	94,800		2,855					7,600		2,954

Indicates concentration in exceedance of Wis. Admin. Code Chapter NR 140 Preventive Action Limit (PAL)

Indicates concentration in exceedance of Wis. Admin. Code Chapter NR 140 Enforcement Standard (ES)

µg/L - micrograms per liter

J - Results reported between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ) are estimated.

Table 10

Water Level Measurements  
Arkema Coating Resins  
Saukville, Wisconsin

WELL ID	Date	TOC (msl)	Depth to Water (ft)	Water Level (msl)	Notes
W-1A	10/15/2019	768.55	5.01	763.54	
W-3A	10/15/2019	769.31	22.94	746.37	
W-3B	10/15/2019	770.32	23.76	746.56	
W-4A	10/15/2019	767.55	8.84	758.71	
W-6A	10/15/2019	773.27	3.59	769.68	
W-7	10/15/2019	759.32	8.07	751.25	
W-8R	10/15/2019	759.71	7.48	752.23	
W-14B	10/15/2019	773.07	5.68	767.39	
W-16A	10/15/2019	768.74	5.29	763.45	
W-18A	10/15/2019	772.07	3.87	768.20	
W-19A	10/15/2019	775.48	6.68	768.80	
W-20	10/15/2019	767.91	22.96	744.95	
W-21A	10/15/2019	769.22	-----	-----	No access
W-22	10/15/2019	772.29	11.20	761.09	
W-23	10/15/2019	768.90	20.16	748.74	
W-24A	10/15/2019	772.45	-----	-----	No access
W-25	ABANDONED				
W-27	10/15/2019	775.70	5.79	769.91	
W-28	10/15/2019	772.41	-----	-----	No access
W-29	10/15/2019	765.45	-----	-----	No access
W-30	10/15/2019	771.64	92.43	679.21	150 GPM
W-37	ABANDONED				
W-38	10/15/2019	768.75	15.42	753.33	
W-39	10/15/2019	782.19	22.85	759.34	
W-40	10/15/2019	771.64	15.11	756.53	
W-41	10/15/2019	773.73	11.40	762.33	
W-42	10/15/2019	774.40	10.65	763.75	
W-43	10/15/2019	768.44	4.17	764.27	
W-44	10/15/2019	769.30	8.80	760.50	
W-45	10/15/2019	767.97	13.76	754.21	
W-46	10/15/2019	766.17	5.88	760.29	
W-47	10/15/2019	771.22	5.29	765.93	
W-48	10/15/2019	773.37	10.06	763.31	
W-49	10/15/2019	765.83	9.32	756.51	
W-50	10/15/2019	765.74	13.08	752.66	
W-51	10/15/2019	773.48	12.82	760.66	
W-52	10/15/2019	773.01	21.22	751.79	
W-53	10/15/2019	773.12	10.09	763.03	
MW-1	10/15/2019	766.00	79.70	686.30	
MW-2	ABANDONED				
MW-3	10/15/2019	756.00	160.00	596.00	
MW-4	10/15/2019	771.00	99.40	671.60	
PW-08	10/15/2019	775.66	32.35	743.31	

Table 10

## **APPENDIX A**

### GROUNDWATER SAMPLING FIELD REPORTS

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-01A</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-01A</u>	Unique Well #	<u>250</u>

Top of Casing (msl)	<u>768.55</u>	Volume to Purge (gal)	<u>8.47</u>
Depth to Water (ft)	<u>5.01</u>	Volume Purged (gal)	<u>8.5</u>
Water Elevation (msl)	<u>763.54</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>750.54</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>13.00</u>		

Date	<u>10/15/2019</u>	DO	<u>4.86</u>	mg/L
Time	<u>12:50</u>	pH	<u>6.80</u>	
Odor	<u>None</u>	Conductivity	<u>0.619</u>	ms/cm
Color	<u>Cloudy</u>	Temperature	<u>17.12</u>	°C
ORP	<u>59.3</u>			mV

W-01A-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-03A</u>	Well Diameter	<u>6</u>
Well Material	<u>Iron</u>	Sample Type	<u>GW</u>
Point ID	<u>W-03A</u>	Unique Well #	<u>211</u>

Top of Casing (msl)	<u>769.31</u>	Volume to Purge (gal)	<u>until stable</u>
Depth to Water (ft)	<u>22.94</u>	Volume Purged (gal)	<u>20</u>
Water Elevation (msl)	<u>746.37</u>	Purge Method	<u>Pump</u>
Bottom of Well (msl)	<u>535.30</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>211.07</u>		

Date	<u>10/17/2019</u>	DO	<u>0.54</u>	mg/L
Time	<u>9:20</u>	pH	<u>8.06</u>	
Odor	<u>None</u>	Conductivity	<u>0.260</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>10.45</u>	°C
ORP	<u>-333.2</u>			mV

W-03A-19-4	3-40 ml	VOA	8260A	HCl	No
DUP3-19-4	3-40 ml	VOA	8260A	HCl	No

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-03B</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-03B</u>	Unique Well #	<u>251</u>

Top of Casing (msl)	<u>770.32</u>	Volume to Purge (gal)	<u>until stable</u>
Depth to Water (ft)	<u>23.76</u>	Volume Purged (gal)	<u>15</u>
Water Elevation (msl)	<u>746.56</u>	Purge Method	<u>Pump</u>
Bottom of Well (msl)	<u>700.53</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>46.03</u>		

Date	<u>10/17/2019</u>	DO	<u>0.47</u>	mg/L
Time	<u>9:45</u>	pH	<u>7.16</u>	
Odor	<u>None</u>	Conductivity	<u>0.741</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>10.82</u>	°C
ORP	<u>-164.4</u>			mV

W-03B-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-04A</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-04A</u>	Unique Well #	<u>252</u>

Top of Casing (msl)	<u>767.55</u>	Volume to Purge (gal)	<u>9.13</u>
Depth to Water (ft)	<u>8.84</u>	Volume Purged (gal)	<u>9.0</u>
Water Elevation (msl)	<u>758.71</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>744.71</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>14.0</u>		

Date	<u>10/16/2019</u>	DO	<u>6.38</u>	mg/L
Time	<u>8:25</u>	pH	<u>6.67</u>	
Odor	<u>None</u>	Conductivity	<u>0.952</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>9.15</u>	°C
ORP	<u>65.9</u>			mV

W-04A-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-06A</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-06A</u>	Unique Well #	<u>253</u>

Top of Casing (msl)	<u>773.27</u>	Volume to Purge (gal)	<u>10.58</u>
Depth to Water (ft)	<u>3.59</u>	Volume Purged (gal)	<u>8 Dry</u>
Water Elevation (msl)	<u>769.68</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>753.45</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>16.23</u>		

Date	<u>10/16/2019</u>	DO	<u>3.95</u> mg/L
Time	<u>9:15</u>	pH	<u>6.70</u>
Odor	<u>Resin / Solvent</u>	Conductivity	<u>0.513</u> ms/cm
Color	<u>Clear</u>	Temperature	<u>13.73</u> °C
ORP	<u>12.3</u> mV		

W-06A-19-4	3-40 ml	VOA	APP IX 8260A	HCl	No
W-06A-19-4	1-1L	Amber	APP IX 8270B	None	No
W-06A-19-4	1-500 ml	Plastic	7060/6010	HNO3	Yes



## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-07</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-07</u>	Unique Well #	<u>212</u>

Top of Casing (msl)	<u>759.32</u>	Volume to Purge (gal)	<u>10.58</u>
Depth to Water (ft)	<u>8.07</u>	Volume Purged (gal)	<u>5 Dry</u>
Water Elevation (msl)	<u>751.25</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>735.02</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>16.23</u>		

Date	<u>10/15/2019</u>	DO	<u>9.22</u>	mg/L
Time	<u>12:10</u>	pH	<u>7.03</u>	
Odor	<u>None</u>	Conductivity	<u>0.602</u>	ms/cm
Color	<u>Cloudy</u>	Temperature	<u>15.07</u>	°C
ORP	<u>6.4</u>			mV

W-07-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-08R</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-08R</u>	Unique Well #	<u>275</u>

Top of Casing (msl)	<u>759.71</u>	Volume to Purge (gal)	<u>4.87</u>
Depth to Water (ft)	<u>7.48</u>	Volume Purged (gal)	<u>3 Dry</u>
Water Elevation (msl)	<u>752.23</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>744.76</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>7.47</u>		

Date	<u>10/15/2019</u>	DO	<u>6.33</u>	mg/L
Time	<u>12:15</u>	pH	<u>7.17</u>	
Odor	<u>None</u>	Conductivity	<u>0.583</u>	ms/cm
Color	<u>Tan</u>	Temperature	<u>16.31</u>	°C
ORP	<u>3.0</u>			mV

W-08R-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-16A</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-16A</u>	Unique Well #	<u>256</u>

Top of Casing (msl)	<u>768.74</u>	Volume to Purge (gal)	<u>7.42</u>
Depth to Water (ft)	<u>5.29</u>	Volume Purged (gal)	<u>8.0</u>
Water Elevation (msl)	<u>763.45</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>752.06</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>11.39</u>		

Date	<u>10/17/2019</u>	DO	<u>23.72</u>	mg/L
Time	<u>7:45</u>	pH	<u>6.86</u>	
Odor	<u>None</u>	Conductivity	<u>0.536</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>11.97</u>	°C
ORP	<u>-68.3</u>			mV

W-16A-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-19A</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-19A</u>	Unique Well #	<u>258</u>

Top of Casing (msl)	<u>775.48</u>	Volume to Purge (gal)	<u>12.73</u>
Depth to Water (ft)	<u>6.68</u>	Volume Purged (gal)	<u>12.0</u>
Water Elevation (msl)	<u>768.80</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>749.28</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>19.52</u>		

Date	<u>10/16/2019</u>	DO	<u>21.90</u> mg/L
Time	<u>13:21</u>	pH	<u>6.90</u>
Odor	<u>None</u>	Conductivity	<u>1.160</u> ms/cm
Color	<u>Clear</u>	Temperature	<u>12.57</u> °C
ORP	<u>-34.5</u> mV		

W-19A-19-4	3-40 ml	VOA	8260A	HCl	No
DUP4-19-4	3-40 ml	VOA	8260A	HCl	No

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-20</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-20</u>	Unique Well #	<u>259</u>

Top of Casing (msl)	<u>767.91</u>	Volume to Purge (gal)	<u>until stable</u>
Depth to Water (ft)	<u>22.96</u>	Volume Purged (gal)	<u>15</u>
Water Elevation (msl)	<u>744.95</u>	Purge Method	<u>Pump</u>
Bottom of Well (msl)	<u>642.15</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>102.80</u>		

Date	<u>10/16/2019</u>	DO	<u>0.36</u>	mg/L
Time	<u>12:15</u>	pH	<u>7.46</u>	
Odor	<u>None</u>	Conductivity	<u>0.405</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>10.84</u>	°C
ORP	<u>-27.4</u>			mV

W-20-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-21A</u>	Well Diameter	<u>4</u>
Well Material	<u>Iron</u>	Sample Type	<u>GW</u>
Point ID	<u>W-21A</u>	Unique Well #	<u>213</u>

Top of Casing (msl)	<u>769.22</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>~</u>	Volume Purged (gal)	<u>1</u>
Water Elevation (msl)	<u>~</u>	Purge Method	<u>Tap</u>
Bottom of Well (msl)	<u>685.14</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>~</u>		

Date	<u>10-15-2018</u>	DO	<u>~</u> mg/L
Time	<u>10:45</u>	pH	<u>~</u>
Odor	<u>Resin</u>	Conductivity	<u>~</u> ms/cm
Color	<u>Pale yellow</u>	Temperature	<u>~</u> °C
ORP	<u>~</u> mV		

W-21A-19-4	3-40 ml	VOA	APP IX 8260A	HCl	No
W-21A-19-4	1-1L	Amber	APP IX 8270B	None	No
W-21A-19-4	1-500 ml	Plastic	7060/6010	HNO3	Yes



## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-22</u>	Well Diameter	<u>4</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-22</u>	Unique Well #	<u>214</u>

Top of Casing (msl)	<u>772.29</u>	Volume to Purge (gal)	<u>until stable</u>
Depth to Water (ft)	<u>11.20</u>	Volume Purged (gal)	<u>20</u>
Water Elevation (msl)	<u>761.09</u>	Purge Method	<u>Pump</u>
Bottom of Well (msl)	<u>679.31</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>81.78</u>		

Date	<u>10/17/2019</u>	DO	<u>0.92</u>	mg/L
Time	<u>8:30</u>	pH	<u>6.89</u>	
Odor	<u>None</u>	Conductivity	<u>0.733</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>10.54</u>	°C
ORP	<u>11.1</u>			mV

W-22-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-23</u>	Well Diameter	<u>4</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-23</u>	Unique Well #	<u>215</u>

Top of Casing (msl)	<u>768.90</u>	Volume to Purge (gal)	<u>until stable</u>
Depth to Water (ft)	<u>20.16</u>	Volume Purged (gal)	<u>20</u>
Water Elevation (msl)	<u>748.74</u>	Purge Method	<u>Pump</u>
Bottom of Well (msl)	<u>701.74</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>47.0</u>		

Date	<u>10/16/2019</u>	DO	<u>0.95</u> mg/L
Time	<u>8:45</u>	pH	<u>6.61</u>
Odor	<u>None</u>	Conductivity	<u>1.707</u> ms/cm
Color	<u>Clear</u>	Temperature	<u>10.59</u> °C
ORP	<u>60.2</u> mV		

W-23-19-4	3-40 ml	VOA	8260A	HCl	No
DUP2-19-4	3-40 ml	VOA	8260A	HCl	No

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-24A</u>	Well Diameter	<u>4</u>
Well Material	<u>Iron</u>	Sample Type	<u>GW</u>
Point ID	<u>W-24A</u>	Unique Well #	<u>216</u>

Top of Casing (msl)	<u>772.45</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>~</u>	Volume Purged (gal)	<u>1</u>
Water Elevation (msl)	<u>~</u>	Purge Method	<u>Tap</u>
Bottom of Well (msl)	<u>680.79</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>~</u>		

Date	<u>10/15/2019</u>	DO	<u>~</u> mg/L
Time	<u>10:50</u>	pH	<u>~</u>
Odor	<u>Resin</u>	Conductivity	<u>~</u> ms/cm
Color	<u>Cloudy</u>	Temperature	<u>~</u> °C
ORP	<u>~</u> mV		

W-24A-19-4	3-40 ml	VOA	APP IX 8260A	HCl	No
W-24A-19-4	1-1L	Amber	APP IX 8270B	None	No
W-24A-19-4	1-500 ml	Plastic	7060/6010	HNO3	Yes

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-27</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-27</u>	Unique Well #	<u>260</u>

Top of Casing (msl)	<u>775.70</u>	Volume to Purge (gal)	<u>11.86</u>
Depth to Water (ft)	<u>5.79</u>	Volume Purged (gal)	<u>10</u>
Water Elevation (msl)	<u>769.91</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>751.72</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>18.19</u>		

Date	<u>10/17/2019</u>	DO	<u>3.67</u>	mg/L
Time	<u>8:23</u>	pH	<u>6.61</u>	
Odor	<u>None</u>	Conductivity	<u>0.629</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>11.46</u>	°C
ORP	<u>-4.5</u>			mV

W-27-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-28</u>	Well Diameter	<u>4</u>
Well Material	<u>Iron</u>	Sample Type	<u>GW</u>
Point ID	<u>W-28</u>	Unique Well #	<u>218</u>

Top of Casing (msl)	<u>772.41</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>~</u>	Volume Purged (gal)	<u>~</u>
Water Elevation (msl)	<u>~</u>	Purge Method	<u>Tap</u>
Bottom of Well (msl)	<u>676.01</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>~</u>		

Date	<u>Pump not working</u>	DO	<u>~</u> mg/L
Time	<u>~</u>	pH	<u>~</u>
Odor	<u>~</u>	Conductivity	<u>~</u> ms/cm
Color	<u>~</u>	Temperature	<u>~</u> °C
ORP	<u>~</u> mV		

W-28-19-4	3-40 ml	VOA	APP IX 8260A	HCl	No
W-28-19-4	1-1L	Amber	APP IX 8270B	None	No
W-28-19-4	1-500 ml	Plastic	7060/6010	HNO3	Yes

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-29</u>	Well Diameter	<u>4</u>
Well Material	<u>Iron</u>	Sample Type	<u>GW</u>
Point ID	<u>W-29</u>	Unique Well #	<u>219</u>

Top of Casing (msl)	<u>765.45</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>~</u>	Volume Purged (gal)	<u>~</u>
Water Elevation (msl)	<u>~</u>	Purge Method	<u>Tap</u>
Bottom of Well (msl)	<u>677.94</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>~</u>		

Date	<u>10/15/2019</u>	DO	<u>~</u> mg/L
Time	<u>10:55</u>	pH	<u>~</u>
Odor	<u>Resin</u>	Conductivity	<u>~</u> ms/cm
Color	<u>Pale yellow</u>	Temperature	<u>~</u> °C
ORP	<u>~</u> mV		

W-29-19-4	3-40 ml	VOA	APP IX 8260A	HCl	No
W-29-19-4	1-1L	Amber	APP IX 8270B	None	No
W-29-19-4	1-500 ml	Plastic	7060/6010	HNO3	Yes

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-30</u>	Well Diameter	<u>13</u>
Well Material	<u>Iron</u>	Sample Type	<u>GW</u>
Point ID	<u>W-30</u>	Unique Well #	<u>206</u>

Top of Casing (msl)	<u>771.64</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>92.43</u>	Volume Purged (gal)	<u>5</u>
Water Elevation (msl)	<u>679.21</u>	Purge Method	<u>Tap</u>
Bottom of Well (msl)	<u>215.64</u>	Disposal Method	<u>Drain</u>
Feet of Water (ft)	<u>463.57</u>		

Date	<u>10/15/2019</u>	DO	<u>3.01</u> mg/L
Time	<u>13:00</u>	pH	<u>6.92</u>
Odor	<u>None</u>	Conductivity	<u>0.506</u> ms/cm
Color	<u>Clear</u>	Temperature	<u>11.96</u> °C
ORP	<u>11.6</u> mV		

W-30-19-4	3-40 ml	VOA	APP IX 8260A	HCl	No
W-30-19-4	1-1L	Amber	APP IX 8270B	None	No
W-30-19-4	1-500 ml	Plastic	7060/6010	HNO3	Yes
DUP5-19-4	1-1L	Amber	APP IX 8270B	None	No
DUP5-19-4	1-500 ml	Plastic	7060/6010	HNO3	Yes



## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-38</u>	Well Diameter	<u>6</u>
Well Material	<u>SS</u>	Sample Type	<u>GW</u>
Point ID	<u>W-38</u>	Unique Well #	<u>220</u>

Top of Casing (msl)	<u>768.75</u>	Volume to Purge (gal)	<u>until stable</u>
Depth to Water (ft)	<u>15.42</u>	Volume Purged (gal)	<u>20</u>
Water Elevation (msl)	<u>753.33</u>	Purge Method	<u>Pump</u>
Bottom of Well (msl)	<u>721.07</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>32.26</u>		

Date	<u>10/16/2019</u>	DO	<u>0.47</u>	mg/L
Time	<u>10:55</u>	pH	<u>6.75</u>	
Odor	<u>Resin</u>	Conductivity	<u>3.795</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>12.43</u>	°C
ORP	<u>-103.1</u>			mV

W-38-19-4	3-40 ml	VOA	8021	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-40</u>	Well Diameter	<u>6</u>
Well Material	<u>Steel</u>	Sample Type	<u>GW</u>
Point ID	<u>W-40</u>	Unique Well #	<u>222</u>

Top of Casing (msl)	<u>771.64</u>	Volume to Purge (gal)	<u>until stable</u>
Depth to Water (ft)	<u>15.11</u>	Volume Purged (gal)	<u>20</u>
Water Elevation (msl)	<u>756.53</u>	Purge Method	<u>Pump</u>
Bottom of Well (msl)	<u>718.69</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>37.84</u>		

Date	<u>10/17/2019</u>	DO	<u>0.00</u>	mg/L
Time	<u>8:00</u>	pH	<u>6.91</u>	
Odor	<u>None</u>	Conductivity	<u>0.587</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>11.84</u>	°C
ORP	<u>-83.9</u>			mV

W-40-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-41</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-41</u>	Unique Well #	<u>261</u>

Top of Casing (msl)	<u>773.73</u>	Volume to Purge (gal)	<u>6.66</u>
Depth to Water (ft)	<u>11.40</u>	Volume Purged (gal)	<u>3 Dry</u>
Water Elevation (msl)	<u>762.33</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>752.11</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>10.22</u>		

Date	<u>10/16/2019</u>	DO	<u>2.69</u> mg/L
Time	<u>9:05</u>	pH	<u>7.14</u>
Odor	<u>None</u>	Conductivity	<u>0.555</u> ms/cm
Color	<u>Clear</u>	Temperature	<u>12.37</u> °C
ORP	<u>42.8</u> mV		

W-41-19-4	3-40 ml	VOA	8021	HCl	No
W-41-MS-19-4	List on COC	VOA	8021	HCl	No
W-41-MSD-19-4	List on COC	VOA	8021	HCl	No

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-42</u>	Well Diameter	<u>2</u>
Well Material	<u>SS</u>	Sample Type	<u>GW</u>
Point ID	<u>W-42</u>	Unique Well #	<u>262</u>

Top of Casing (msl)	<u>774.40</u>	Volume to Purge (gal)	<u>7.44</u>
Depth to Water (ft)	<u>10.65</u>	Volume Purged (gal)	<u>4 Dry</u>
Water Elevation (msl)	<u>763.75</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>752.34</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>11.41</u>		

Date	<u>10/16/2019</u>	DO	<u>2.73</u>	mg/L
Time	<u>10:10</u>	pH	<u>6.66</u>	
Odor	<u>Resin / solvent</u>	Conductivity	<u>3.596</u>	ms/cm
Color	<u>Cloudy</u>	Temperature	<u>13.18</u>	°C
ORP	<u>8.3</u>			mV

W-42-19-4	3-40 ml	VOA	8021	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-43</u>	Well Diameter	<u>2</u>
Well Material	<u>SS</u>	Sample Type	<u>GW</u>
Point ID	<u>W-43</u>	Unique Well #	<u>263</u>

Top of Casing (msl)	<u>768.44</u>	Volume to Purge (gal)	<u>5.67</u>
Depth to Water (ft)	<u>4.17</u>	Volume Purged (gal)	<u>5</u>
Water Elevation (msl)	<u>764.27</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>755.58</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>8.69</u>		

Date	<u>10/16/2019</u>	DO	<u>7.29</u> mg/L
Time	<u>10:50</u>	pH	<u>7.53</u>
Odor	<u>Resin / solvent</u>	Conductivity	<u>0.410</u> ms/cm
Color	<u>Cloudy</u>	Temperature	<u>13.00</u> °C
ORP	<u>-127.2</u> mV		

W-43-19-4	3-40 ml	VOA	APP IX 8260A	HCl	No
W-43-19-4	1-1L	Amber	APP IX 8270B	None	No
W-43-19-4	1-500 ml	Plastic	7060/6010	HNO3	Yes

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-47</u>	Well Diameter	<u>2</u>
Well Material	<u>SS</u>	Sample Type	<u>GW</u>
Point ID	<u>W-47</u>	Unique Well #	<u>267</u>

Top of Casing (msl)	<u>771.22</u>	Volume to Purge (gal)	<u>7.27</u>
Depth to Water (ft)	<u>5.29</u>	Volume Purged (gal)	<u>7</u>
Water Elevation (msl)	<u>765.93</u>	Purge Method	<u>Peristaltic</u>
Bottom of Well (msl)	<u>754.77</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>11.16</u>		

Date	<u>10/16/2019</u>	DO	<u>3.91</u> mg/L
Time	<u>10:05</u>	pH	<u>6.62</u>
Odor	<u>Resinous</u>	Conductivity	<u>0.625</u> ms/cm
Color	<u>Black</u>	Temperature	<u>13.22</u> °C
ORP	<u>-59.7</u> mV		

W-47-19-4	3-40 ml	VOA	APP IX 8260A	HCl	No
W-47-19-4	1-1L	Amber	APP IX 8270B	None	No
W-47-19-4	1-500 ml	Plastic	7060/6010	HNO3	Yes
W-47-19-4	1-250 ml	Amber	PCBs 8080	None	No
DUP6-19-4	1-250 ml	Amber	PCBs 8080	None	No

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-49</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-49</u>	Unique Well #	<u>276</u>

Top of Casing (msl)	<u>765.83</u>	Volume to Purge (gal)	<u>7.6</u>
Depth to Water (ft)	<u>9.32</u>	Volume Purged (gal)	<u>7</u>
Water Elevation (msl)	<u>756.51</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>744.80</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>11.71</u>		

Date	<u>10/16/2019</u>	DO	<u>8.90</u>	mg/L
Time	<u>8:00</u>	pH	<u>6.64</u>	
Odor	<u>None</u>	Conductivity	<u>0.665</u>	ms/cm
Color	<u>Cloudy</u>	Temperature	<u>11.21</u>	°C
ORP	<u>84.6</u>			mV

W-49-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-50</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-50</u>	Unique Well #	<u>277</u>

Top of Casing (msl)	<u>765.74</u>	Volume to Purge (gal)	<u>13.5</u>
Depth to Water (ft)	<u>13.08</u>	Volume Purged (gal)	<u>13.5</u>
Water Elevation (msl)	<u>752.66</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>731.90</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>20.76</u>		

Date	<u>10/16/2019</u>	DO	<u>8.12</u>	mg/L
Time	<u>8:10</u>	pH	<u>6.89</u>	
Odor	<u>None</u>	Conductivity	<u>0.599</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>10.02</u>	°C
ORP	<u>72.6</u>			mV

W-50-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-51</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-51</u>	Unique Well #	<u>278</u>

Top of Casing (msl)	<u>773.48</u>	Volume to Purge (gal)	<u>9.17</u>
Depth to Water (ft)	<u>12.82</u>	Volume Purged (gal)	<u>5 Dry</u>
Water Elevation (msl)	<u>760.66</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>746.60</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>14.06</u>		

Date	<u>10/16/2019</u>	DO	<u>4.00</u>	mg/L
Time	<u>9:35</u>	pH	<u>6.81</u>	
Odor	<u>None</u>	Conductivity	<u>1.614</u>	ms/cm
Color	<u>Cloudy</u>	Temperature	<u>11.32</u>	°C
ORP	<u>-5.0</u>			mV

W-51-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>W-52</u>	Well Diameter	<u>2</u>
Well Material	<u>PVC</u>	Sample Type	<u>GW</u>
Point ID	<u>W-52</u>	Unique Well #	<u>279</u>

Top of Casing (msl)	<u>773.01</u>	Volume to Purge (gal)	<u>10.75</u>
Depth to Water (ft)	<u>21.22</u>	Volume Purged (gal)	<u>8 Dry</u>
Water Elevation (msl)	<u>751.79</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>735.30</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>16.49</u>		

Date	<u>10/16/2019</u>	DO	<u>1.90</u>	mg/L
Time	<u>9:45</u>	pH	<u>6.76</u>	
Odor	<u>None</u>	Conductivity	<u>1.155</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>10.99</u>	°C
ORP	<u>-12.3</u>			mV

W-52-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>MW-1</u>	Well Diameter	<u>10</u>
Well Material	<u>Steel</u>	Sample Type	<u>DW</u>
Point ID	<u>MW-01</u>	Unique Well #	<u>201</u>

Top of Casing (msl)	<u>766.00</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>79.7</u>	Volume Purged (gal)	<u>5</u>
Water Elevation (msl)	<u>686.3</u>	Purge Method	<u>Tap</u>
Bottom of Well (msl)	<u>274</u>	Disposal Method	<u>Drain</u>
Feet of Water (ft)	<u>412.3</u>		

Date	<u>10/15/2019</u>	DO	<u>4.36</u>	mg/L
Time	<u>7:53</u>	pH	<u>7.03</u>	
Odor	<u>None</u>	Conductivity	<u>0.522</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>10.38</u>	°C
ORP	<u>-56.2</u>			mV

MW-1-19-4	3-40 ml	VOA	8260A	HCl	No
MW-1-MS-19-4	List on COC	VOA	8260A	HCl	No
MW-1-MSD-19-4	List on COC	VOA	8260A	HCl	No

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>MW-3</u>	Well Diameter	<u>10</u>
Well Material	<u>Steel</u>	Sample Type	<u>DW</u>
Point ID	<u>MW-03</u>	Unique Well #	<u>203</u>

Top of Casing (msl)	<u>756.00</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>160</u>	Volume Purged (gal)	<u>5</u>
Water Elevation (msl)	<u>596</u>	Purge Method	<u>Tap</u>
Bottom of Well (msl)	<u>256</u>	Disposal Method	<u>Drain</u>
Feet of Water (ft)	<u>340</u>		

Date	<u>10/15/2019</u>	DO	<u>3.19</u>	mg/L
Time	<u>7:45</u>	pH	<u>7.17</u>	
Odor	<u>None</u>	Conductivity	<u>0.559</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>10.76</u>	°C
ORP	<u>-64.0</u>			mV

MW-3-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>MW-4</u>	Well Diameter	<u>10</u>
Well Material	<u>Steel</u>	Sample Type	<u>DW</u>
Point ID	<u>MW-04</u>	Unique Well #	<u>204</u>

Top of Casing (msl)	<u>771.00</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>99.4</u>	Volume Purged (gal)	<u>5</u>
Water Elevation (msl)	<u>671.6</u>	Purge Method	<u>Tap</u>
Bottom of Well (msl)	<u>296</u>	Disposal Method	<u>Drain</u>
Feet of Water (ft)	<u>375.6</u>		

Date	<u>10/15/2019</u>	DO	<u>3.77</u> mg/L
Time	<u>8:00</u>	pH	<u>7.10</u>
Odor	<u>None</u>	Conductivity	<u>0.498</u> ms/cm
Color	<u>Clear</u>	Temperature	<u>10.20</u> °C
ORP	<u>-41.1</u> mV		

MW-4-19-4	3-40 ml	VOA	8260A	HCl	No
DUP1-19-4	3-40 ml	VOA	8260A	HCl	No

## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>PW-08</u>	Well Diameter	<u>6</u>
Well Material	<u>Iron</u>	Sample Type	<u>GW</u>
Point ID	<u>PW-08</u>	Unique Well #	<u>205</u>

Top of Casing (msl)	<u>775.66</u>	Volume to Purge (gal)	<u>until stable</u>
Depth to Water (ft)	<u>32.35</u>	Volume Purged (gal)	<u>20</u>
Water Elevation (msl)	<u>743.31</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>319.68</u>	Disposal Method	<u>Drum</u>
Feet of Water (ft)	<u>423.63</u>		

Date	<u>10/16/2019</u>	DO	<u>0.362</u>	mg/L
Time	<u>13:10</u>	pH	<u>7.36</u>	
Odor	<u>None</u>	Conductivity	<u>0.363</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>11.99</u>	°C
ORP	<u>-179.4</u>			mV

PW-08-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>RC-1</u>	Well Diameter	<u>NA</u>
Well Material	<u>Steel</u>	Sample Type	<u>WW</u>
Point ID	<u>RC-1</u>	Unique Well #	<u>                    </u>

Top of Casing (msl)	<u>~</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>~</u>	Volume Purged (gal)	<u>~</u>
Water Elevation (msl)	<u>~</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>~</u>	Disposal Method	<u>~</u>
Feet of Water (ft)	<u>~</u>		

Date	<u>10/15/2019</u>	DO	<u>~</u>	mg/L
Time	<u>8:20</u>	pH	<u>~</u>	
Odor	<u>Resinous</u>	Conductivity	<u>~</u>	ms/cm
Color	<u>Blackish</u>	Temperature	<u>~</u>	°C
ORP	<u>~</u>			mV

RC-1-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>RC-2</u>	Well Diameter	<u>NA</u>
Well Material	<u>Steel</u>	Sample Type	<u>WW</u>
Point ID	<u>RC-2</u>	Unique Well #	<u>                    </u>

Top of Casing (msl)	<u>~</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>~</u>	Volume Purged (gal)	<u>~</u>
Water Elevation (msl)	<u>~</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>~</u>	Disposal Method	<u>~</u>
Feet of Water (ft)	<u>~</u>		

Date	<u>10/15/2019</u>	DO	<u>~</u> mg/L
Time	<u>8:25</u>	pH	<u>~</u>
Odor	<u>Resinous</u>	Conductivity	<u>~</u> ms/cm
Color	<u>Blackish</u>	Temperature	<u>~</u> °C
ORP	<u>~</u> mV		

RC-2-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>RC-3</u>	Well Diameter	<u>NA</u>
Well Material	<u>Steel</u>	Sample Type	<u>WW</u>
Point ID	<u>RC-3</u>	Unique Well #	<u>                    </u>

Top of Casing (msl)	<u>~</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>~</u>	Volume Purged (gal)	<u>~</u>
Water Elevation (msl)	<u>~</u>	Purge Method	<u>Bailer</u>
Bottom of Well (msl)	<u>~</u>	Disposal Method	<u>~</u>
Feet of Water (ft)	<u>~</u>		

Date	<u>10/15/2019</u>	DO	<u>~</u> mg/L
Time	<u>8:15</u>	pH	<u>~</u>
Odor	<u>Resinous</u>	Conductivity	<u>~</u> ms/cm
Color	<u>Blackish</u>	Temperature	<u>~</u> °C
ORP	<u>~</u> mV		

RC-3-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>POTW-I</u>	Well Diameter	<u>NA</u>
Well Material	<u>Wet Well</u>	Sample Type	<u>WW</u>
Point ID	<u>POTW-I</u>	Unique Well #	<u>                    </u>

Top of Casing (msl)	<u>~</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>~</u>	Volume Purged (gal)	<u>~</u>
Water Elevation (msl)	<u>~</u>	Purge Method	<u>~</u>
Bottom of Well (msl)	<u>~</u>	Disposal Method	<u>~</u>
Feet of Water (ft)	<u>~</u>		

Date	<u>10/15/2019</u>	DO	<u>~</u> mg/L
Time	<u>7:35</u>	pH	<u>~</u>
Odor	<u>Sewerage</u>	Conductivity	<u>~</u> ms/cm
Color	<u>Black</u>	Temperature	<u>~</u> °C
ORP	<u>~</u> mV		

POTW-I-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>POTW-E</u>	Well Diameter	<u>NA</u>
Well Material	<u>Contact Trough</u>	Sample Type	<u>WW</u>
Point ID	<u>POTW-E</u>	Unique Well #	<u>                    </u>

Top of Casing (msl)	<u>~</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>~</u>	Volume Purged (gal)	<u>~</u>
Water Elevation (msl)	<u>~</u>	Purge Method	<u>~</u>
Bottom of Well (msl)	<u>~</u>	Disposal Method	<u>~</u>
Feet of Water (ft)	<u>~</u>		

Date	<u>10/15/2019</u>	DO	<u>7.83</u>	mg/L
Time	<u>7:30</u>	pH	<u>7.45</u>	
Odor	<u>None</u>	Conductivity	<u>1.749</u>	ms/cm
Color	<u>Clear</u>	Temperature	<u>13.78</u>	°C
ORP	<u>-16.5</u>			mV

POTW-E-19-4	3-40 ml	VOA	8260A	HCl	No
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## GROUNDWATER SAMPLING

Project Name	<u>Arkema-Saukville</u>	Project Number	<u>341-001-007</u>
Sample Location	<u>POTW-S</u>	Well Diameter	<u>NA</u>
Well Material	<u>Sampling Tap</u>	Sample Type	<u>WW</u>
Point ID	<u>POTW-S</u>	Unique Well #	<u>                    </u>

Top of Casing (msl)	<u>~</u>	Volume to Purge (gal)	<u>~</u>
Depth to Water (ft)	<u>~</u>	Volume Purged (gal)	<u>~</u>
Water Elevation (msl)	<u>~</u>	Purge Method	<u>~</u>
Bottom of Well (msl)	<u>~</u>	Disposal Method	<u>~</u>
Feet of Water (ft)	<u>~</u>		

Date	<u>10/15/2019</u>	DO	<u>~</u> mg/L
Time	<u>7:40</u>	pH	<u>~</u>
Odor	<u>Sewerage</u>	Conductivity	<u>~</u> ms/cm
Color	<u>Black</u>	Temperature	<u>~</u> °C
ORP	<u>~</u> mV		

POTW-S-19-4	3-40 ml	VOA	8260A	HCl	No
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## **APPENDIX B**

### ANALYTES AND REPORTING LIMITS



All analytical testing was performed by Synergy Environmental Lab located in Appleton, Wisconsin (WI Certification # 445037560). The following methods were used to analyze the submitted samples.

VOCs	SW846 8260B
SVOCs	SW846 8270C
Metals	SW846 200.7
PCBs	SW846 8082

**LABORATORY AND DATA VALIDATION QUALIFIERS**

The following qualifiers were used to denote quality control comments as indicated:

- “J” Analyte detected between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ). Concentrations within this range are estimated.

# Synergy Environmental Lab, INC

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

TIM PETRICK  
ENDPOINT SOLUTIONS  
6871 SOUTH LOVER'S LANE  
FRANKLIN, WI 53132

Report Date 12-Nov-19

Project Name ARKEMA-SAUKVILLE  
Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978A  
Sample ID POTW-E-19-4  
Sample Matrix Water  
Sample Date 10/15/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/22/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/22/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/22/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/22/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/22/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/22/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/22/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/22/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/22/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/22/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/22/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/22/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/22/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/22/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/22/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978A  
**Sample ID** POTW-E-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/22/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/22/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/22/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/22/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/22/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/22/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/22/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/22/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/22/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/22/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		10/22/2019	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		10/22/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/22/2019	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978B  
**Sample ID** POTW-1-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/22/2019	CJR	1
Acetone	15.5 "J"	ug/l	5.01	15.9	1	8260B		10/22/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/22/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/22/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/22/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/22/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/22/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/22/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/22/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/22/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/22/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/22/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/22/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/22/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/22/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/22/2019	CJR	1
Ethylbenzene	0.94	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/22/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/22/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/22/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/22/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/22/2019	CJR	1
Toluene	0.72	ug/l	0.19	0.6	1	8260B		10/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/22/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/22/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/22/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/22/2019	CJR	1
m&p-Xylene	7.1	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
o-Xylene	3.13	ug/l	0.29	0.93	1	8260B		10/22/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978B  
**Sample ID** POTW-1-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		10/22/2019	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		10/22/2019	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		10/22/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978C  
 Sample ID POTW-S-19-4  
 Sample Matrix Water  
 Sample Date 10/15/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 1480	ug/l	1480	4715	500	8260B		10/23/2019	CJR	1
Acetone	< 2505	ug/l	2505	7950	500	8260B		10/23/2019	CJR	1
Benzene	< 110	ug/l	110	355	500	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 165	ug/l	165	530	500	8260B		10/23/2019	CJR	1
Bromoform	< 225	ug/l	225	720	500	8260B		10/23/2019	CJR	1
Bromomethane	< 495	ug/l	495	1575	500	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 145	ug/l	145	460	500	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 155	ug/l	155	490	500	8260B		10/23/2019	CJR	1
Chlorobenzene	< 130	ug/l	130	415	500	8260B		10/23/2019	CJR	1
Chloroethane	< 305	ug/l	305	975	500	8260B		10/23/2019	CJR	1
Chloroform	< 130	ug/l	130	410	500	8260B		10/23/2019	CJR	1
Chloromethane	< 270	ug/l	270	860	500	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 110	ug/l	110	345	500	8260B		10/23/2019	CJR	1
Dibromomethane	< 215	ug/l	215	690	500	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 350	ug/l	350	1110	500	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 425	ug/l	425	1350	500	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 430	ug/l	430	1370	500	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 160	ug/l	160	510	500	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 125	ug/l	125	390	500	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 180	ug/l	180	570	500	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 210	ug/l	210	670	500	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 185	ug/l	185	580	500	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 170	ug/l	170	535	500	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 220	ug/l	220	695	500	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 160	ug/l	160	505	500	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 130	ug/l	130	405	500	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 170	ug/l	170	545	500	8260B		10/23/2019	CJR	1
Ethylbenzene	< 130	ug/l	130	415	500	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 2085	ug/l	2085	6650	500	8260B		10/23/2019	CJR	1
Methylene chloride	< 660	ug/l	660	2105	500	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 140	ug/l	140	445	500	8260B		10/23/2019	CJR	1
Naphthalene	< 1050	ug/l	1050	3325	500	8260B		10/23/2019	CJR	1
Styrene	< 130	ug/l	130	420	500	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 190	ug/l	190	605	500	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 1450	ug/l	1450	4610	500	8260B		10/23/2019	CJR	1
Toluene	5600	ug/l	95	300	500	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 165	ug/l	165	525	500	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 210	ug/l	210	660	500	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 150	ug/l	150	470	500	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 175	ug/l	175	550	500	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 100	ug/l	100	325	500	8260B		10/23/2019	CJR	1
m&p-Xylene	< 215	ug/l	215	690	500	8260B		10/23/2019	CJR	1
o-Xylene	< 145	ug/l	145	465	500	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			500	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978C  
**Sample ID** POTW-S-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	97	REC %			500	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			500	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	96	REC %			500	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978D

**Sample ID** MW-3-19-4 203

**Sample Matrix** Water

**Sample Date** 10/15/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/22/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/22/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/22/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/22/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/22/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/22/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/22/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/22/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/22/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/22/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/22/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/22/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/22/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/22/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/22/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/22/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/22/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/22/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/22/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/22/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/22/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/22/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/22/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/22/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/22/2019	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		10/22/2019	CJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978D

**Sample ID** MW-3-19-4 203

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	106	REC %			1	8260B		10/22/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/22/2019	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978E

**Sample ID** MW-1-19-4 201

**Sample Matrix** Water

**Sample Date** 10/15/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/22/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/22/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/22/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/22/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/22/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/22/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/22/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/22/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/22/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/22/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/22/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/22/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/22/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/22/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/22/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/22/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/22/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/22/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/22/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/22/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/22/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/22/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/22/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/22/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/22/2019	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978E

**Sample ID** MW-1-19-4 201

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	95	REC %			1	8260B		10/22/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/22/2019	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978F  
**Sample ID** MW-4-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

204

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/22/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/22/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/22/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/22/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/22/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/22/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/22/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/22/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/22/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/22/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/22/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/22/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/22/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/22/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/22/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/22/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/22/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/22/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/22/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/22/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/22/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/22/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/22/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/22/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/22/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978F

**Sample ID** MW-4-19-4 204

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		10/22/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/22/2019	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		10/22/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978G  
 Sample ID DUP1-19-4  
 Sample Matrix Water  
 Sample Date 10/15/2019

204

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978G

**Sample ID** DUP1-19-4 204

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978H  
**Sample ID** TRIP BLANK1-19-4 999  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/22/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/22/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/22/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/22/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/22/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/22/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/22/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/22/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/22/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/22/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/22/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/22/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/22/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/22/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/22/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/22/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/22/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/22/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/22/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/22/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/22/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/22/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/22/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/22/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/22/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/22/2019	CJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978H  
**Sample ID** TRIP BLANK1-19-4 999  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/22/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		10/22/2019	CJR	1
SUR - Toluene-d8	99	REC %			1	8260B		10/22/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978I  
 Sample ID RC-3-19-4  
 Sample Matrix Water  
 Sample Date 10/15/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 148	ug/l	148	471	50	8260B		10/23/2019	CJR	1
Acetone	< 250.5	ug/l	250.5	795	50	8260B		10/23/2019	CJR	1
Benzene	< 11	ug/l	11	35.5	50	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 16.5	ug/l	16.5	53	50	8260B		10/23/2019	CJR	1
Bromoform	< 22.5	ug/l	22.5	72	50	8260B		10/23/2019	CJR	1
Bromomethane	< 49.5	ug/l	49.5	157.5	50	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 14.5	ug/l	14.5	46	50	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 15.5	ug/l	15.5	49	50	8260B		10/23/2019	CJR	1
Chlorobenzene	< 13	ug/l	13	41.5	50	8260B		10/23/2019	CJR	1
Chloroethane	< 30.5	ug/l	30.5	97.5	50	8260B		10/23/2019	CJR	1
Chloroform	< 13	ug/l	13	41	50	8260B		10/23/2019	CJR	1
Chloromethane	< 27	ug/l	27	86	50	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 11	ug/l	11	34.5	50	8260B		10/23/2019	CJR	1
Dibromomethane	< 21.5	ug/l	21.5	69	50	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 35	ug/l	35	111	50	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 42.5	ug/l	42.5	135	50	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 43	ug/l	43	137	50	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 16	ug/l	16	51	50	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 12.5	ug/l	12.5	39	50	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 18	ug/l	18	57	50	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 21	ug/l	21	67	50	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 18.5	ug/l	18.5	58	50	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 17	ug/l	17	53.5	50	8260B		10/23/2019	CJR	2
1,2-Dichloropropane	< 22	ug/l	22	69.5	50	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 16	ug/l	16	50.5	50	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 13	ug/l	13	40.5	50	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 17	ug/l	17	54.5	50	8260B		10/23/2019	CJR	1
Ethylbenzene	1810	ug/l	13	41.5	50	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 208.5	ug/l	208.5	665	50	8260B		10/23/2019	CJR	1
Methylene chloride	< 66	ug/l	66	210.5	50	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 14	ug/l	14	44.5	50	8260B		10/23/2019	CJR	1
Naphthalene	< 105	ug/l	105	332.5	50	8260B		10/23/2019	CJR	1
Styrene	< 13	ug/l	13	42	50	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 19	ug/l	19	60.5	50	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 145	ug/l	145	461	50	8260B		10/23/2019	CJR	1
Toluene	1560	ug/l	9.5	30	50	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	52.5	50	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 21	ug/l	21	66	50	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 15	ug/l	15	47	50	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 17.5	ug/l	17.5	55	50	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 10	ug/l	10	32.5	50	8260B		10/23/2019	CJR	1
m&p-Xylene	7400	ug/l	21.5	69	50	8260B		10/23/2019	CJR	1
o-Xylene	2470	ug/l	14.5	46.5	50	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	94	REC %			50	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978I  
**Sample ID** RC-3-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	101	REC %			50	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			50	8260B		10/23/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			50	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978J  
**Sample ID** RC-1-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/22/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/22/2019	CJR	1
Benzene	180	ug/l	0.22	0.71	1	8260B		10/22/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/22/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/22/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/22/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/22/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/22/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/22/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/22/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/22/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/22/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/22/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/22/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/22/2019	CJR	1
cis-1,2-Dichloroethene	58	ug/l	0.37	1.16	1	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/22/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/22/2019	CJR	1
Ethylbenzene	610	ug/l	2.6	8.3	10	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/22/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/22/2019	CJR	1
Naphthalene	9.2	ug/l	2.1	6.65	1	8260B		10/22/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/22/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/22/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/22/2019	CJR	1
Toluene	95	ug/l	0.19	0.6	1	8260B		10/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/22/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/22/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/22/2019	CJR	1
Vinyl Chloride	18.1	ug/l	0.2	0.65	1	8260B		10/22/2019	CJR	1
m&p-Xylene	820	ug/l	4.3	13.8	10	8260B		10/24/2019	CJR	1
o-Xylene	189	ug/l	0.29	0.93	1	8260B		10/22/2019	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978J  
**Sample ID** RC-1-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	97	REC %			1	8260B		10/22/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/22/2019	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		10/22/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978K  
 Sample ID RC-2-19-4  
 Sample Matrix Water  
 Sample Date 10/15/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978K  
**Sample ID** RC-2-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	93	REC %			1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/23/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978L  
**Sample ID** W-21A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	17.9 "J"	ug/l	6.4	21.3	1	200.7		11/6/2019	ESC	1
Barium, Dissolved	299	ug/l	1	3.33	1	200.7		11/5/2019	ESC	1
Organic										
Semi Volatiles										
Acetophenone	< 6.9	ug/l	6.9	21.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthene	< 6.7	ug/l	6.7	21.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthylene	< 9.1	ug/l	9.1	28.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Anthracene	< 7.8	ug/l	7.8	24.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)anthracene	< 6.5	ug/l	6.5	20.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)pyrene	< 7.1	ug/l	7.1	22.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(b)fluoranthene	< 5.4	ug/l	5.4	17.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(g,h,i)perylene	< 13.5	ug/l	13.5	43.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(k)fluoranthene	< 8.6	ug/l	8.6	27.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzyl Alcohol	< 7.8	ug/l	7.8	24.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Butyl benzyl phthalate	< 11.1	ug/l	11.1	35.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethoxy)methane	< 4.4	ug/l	4.4	14.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethyl)ether	< 9.3	ug/l	9.3	29.6	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroisopropyl)ether	< 9.4	ug/l	9.4	30	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-ethylhexyl)phthalate	< 15.4	ug/l	15.4	49.1	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Bromophenylphenyl ether	< 11	ug/l	11	35	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Chloro-3-methylphenol	< 7.5	ug/l	7.5	23.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Chloronaphthalene	< 8.4	ug/l	8.4	26.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Chlorophenol	< 10.1	ug/l	10.1	32.3	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Chlorophenylphenyl ether	< 13.3	ug/l	13.3	42.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Chrysene	< 8.2	ug/l	8.2	26	10	8270E	10/22/2019	10/22/2019	MJR	1
o-Cresol	6.9 "J"	ug/l	3.8	12.2	10	8270E	10/22/2019	10/22/2019	MJR	3
m & p-Cresol	< 5.4	ug/l	5.4	17.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzofuran	< 8.3	ug/l	8.3	26.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzo(a,h)anthracene	< 12.8	ug/l	12.8	40.6	10	8270E	10/22/2019	10/22/2019	MJR	1
1,4-Dichlorobenzene	< 6	ug/l	6	19	10	8270E	10/22/2019	10/22/2019	MJR	1
1,3-Dichlorobenzene	< 7.1	ug/l	7.1	22.4	10	8270E	10/22/2019	10/22/2019	MJR	1
1,2-Dichlorobenzene	< 7.3	ug/l	7.3	23.1	10	8270E	10/22/2019	10/22/2019	MJR	1
3,3'-Dichlorobenzidine	< 11.6	ug/l	11.6	37	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dichlorophenol	< 9.6	ug/l	9.6	30.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Diethyl phthalate	< 12.5	ug/l	12.5	39.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Dimethyl phthalate	< 7.6	ug/l	7.6	24.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dimethylphenol	108	ug/l	10.9	34.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-butyl phthalate	< 9.3	ug/l	9.3	29.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrophenol	< 106.7	ug/l	106.7	339.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,6-Dinitrotoluene	< 13.9	ug/l	13.9	44.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrotoluene	< 16.4	ug/l	16.4	52	10	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-octyl phthalate	< 10.4	ug/l	10.4	33.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Diphenylamine	< 9.4	ug/l	9.4	29.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Fluoranthene	< 6.6	ug/l	6.6	21.1	10	8270E	10/22/2019	10/22/2019	MJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978L  
**Sample ID** W-21A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Fluorene	< 16	ug/l	16	51	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobenzene	< 6.6	ug/l	6.6	21.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobutadiene	< 5.4	ug/l	5.4	17.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorocyclopentadiene	< 54.7	ug/l	54.7	174	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachloroethane	< 10.2	ug/l	10.2	32.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Indeno(1,2,3-cd)pyrene	< 20.9	ug/l	20.9	66.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Isophorone	< 7.3	ug/l	7.3	23.3	10	8270E	10/22/2019	10/22/2019	MJR	1
1-Methyl naphthalene	< 7.4	ug/l	7.4	23.4	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl naphthalene	< 8.4	ug/l	8.4	26.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl-4,6-dinitrophenol	< 3.2	ug/l	3.2	10.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Naphthalene	7.5 "J"	ug/l	7.3	23.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitroaniline	< 11.9	ug/l	11.9	37.9	10	8270E	10/22/2019	10/22/2019	MJR	1
3-Nitroaniline	< 26.3	ug/l	26.3	83.5	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitroaniline	< 21.2	ug/l	21.2	67.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene	< 5.2	ug/l	5.2	16.5	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitrophenol	< 19.3	ug/l	19.3	61.5	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitrophenol	< 17.6	ug/l	17.6	56.1	10	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodimethylamine	< 6.1	ug/l	6.1	19.5	10	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodi-n-propylamine	< 6.9	ug/l	6.9	22.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Pentachlorophenol (PCP)	< 18.4	ug/l	18.4	58.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Phenanthrene	< 6.5	ug/l	6.5	20.6	10	8270E	10/22/2019	10/22/2019	MJR	1
Phenol	109	ug/l	10	31.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Pyrene	< 6.4	ug/l	6.4	20.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Pyridine	< 4	ug/l	4	12.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,3,4,6-Tetrachlorophenol	< 13.2	ug/l	13.2	42	10	8270E	10/22/2019	10/22/2019	MJR	1
1,2,4-Trichlorobenzene	< 8.2	ug/l	8.2	26	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,5-Trichlorophenol	< 10.3	ug/l	10.3	32.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Trichlorophenol	< 11	ug/l	11	35	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorobiphenyl-surrogate	92	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorophenol-surrogate	74	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene-d5-surrogate	83	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
Phenol-d6-surrogate	73	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
p-Terphenyl-d14-surrogate	115	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Tribromophenol-surrogate	106	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
<b>VOC's</b>										
Propionitrile	< 190	ug/l	190	600	100	8260B		10/24/2019	CJR	1
Methylacrylonitrile	< 46	ug/l	46	150	100	8260B		10/24/2019	CJR	1
Acetonitrile	< 388	ug/l	388	1240	100	8260B		10/24/2019	CJR	1
Isobutanol	< 780	ug/l	780	2500	100	8260B		10/24/2019	CJR	1
Acetone	< 501	ug/l	501	1590	100	8260B		10/24/2019	CJR	1
Allyl chloride	< 90	ug/l	90	288	100	8260B		10/24/2019	CJR	1
Benzene	1140	ug/l	22	71	100	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 33	ug/l	33	106	100	8260B		10/24/2019	CJR	1
Bromoform	< 45	ug/l	45	144	100	8260B		10/24/2019	CJR	1
Bromomethane	< 99	ug/l	99	315	100	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 29	ug/l	29	92	100	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978L  
**Sample ID** W-21A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Carbon Tetrachloride	< 31	ug/l	31	98	100	8260B		10/24/2019	CJR	1
Chlorobenzene	< 26	ug/l	26	83	100	8260B		10/24/2019	CJR	1
Chloroethane	< 61	ug/l	61	195	100	8260B		10/24/2019	CJR	1
Chloroform	< 26	ug/l	26	82	100	8260B		10/24/2019	CJR	1
Chloromethane	< 54	ug/l	54	172	100	8260B		10/24/2019	CJR	1
Chloroprene	< 57	ug/l	57	180	100	8260B		10/24/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 296	ug/l	296	943	100	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 22	ug/l	22	69	100	8260B		10/24/2019	CJR	1
Dibromomethane	< 43	ug/l	43	138	100	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 70	ug/l	70	222	100	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 85	ug/l	85	270	100	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 86	ug/l	86	274	100	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 32	ug/l	32	102	100	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 25	ug/l	25	78	100	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 36	ug/l	36	114	100	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 42	ug/l	42	134	100	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 37	ug/l	37	116	100	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 34	ug/l	34	107	100	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 44	ug/l	44	139	100	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 32	ug/l	32	101	100	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 26	ug/l	26	81	100	8260B		10/24/2019	CJR	1
1,4-Dioxane	< 889.9999	ug/l	890	2800	100	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 34	ug/l	34	109	100	8260B		10/24/2019	CJR	1
Ethyl Methacrylate	< 600	ug/l	600	1900	100	8260B		10/24/2019	CJR	1
Ethylbenzene	3500	ug/l	26	83	100	8260B		10/24/2019	CJR	1
Hexachlorobutadiene	< 134	ug/l	134	428	100	8260B		10/24/2019	CJR	1
2-Hexanone	< 144	ug/l	144	459	100	8260B		10/24/2019	CJR	1
Iodomethane	< 144	ug/l	144	457	100	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 417	ug/l	417	1330	100	8260B		10/24/2019	CJR	1
Methyl isobutyl ketone (MIBK)	< 395	ug/l	395	1260	100	8260B		10/24/2019	CJR	1
Methyl Methacrylate	< 640	ug/l	640	2000	100	8260B		10/24/2019	CJR	1
Methylene chloride	< 132	ug/l	132	421	100	8260B		10/24/2019	CJR	1
Styrene	< 26	ug/l	26	84	100	8260B		10/24/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 30	ug/l	30	97	100	8260B		10/24/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 35	ug/l	35	113	100	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 38	ug/l	38	121	100	8260B		10/24/2019	CJR	1
Toluene	41 "J"	ug/l	19	60	100	8260B		10/24/2019	CJR	1
1,2,4-Trichlorobenzene	< 115	ug/l	115	367	100	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 33	ug/l	33	105	100	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 42	ug/l	42	132	100	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 30	ug/l	30	94	100	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 35	ug/l	35	110	100	8260B		10/24/2019	CJR	1
1,2,3-Trichloropropane	< 83	ug/l	83	264	100	8260B		10/24/2019	CJR	1
Vinyl acetate	< 226	ug/l	226	719	100	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 20	ug/l	20	65	100	8260B		10/24/2019	CJR	1
m&p-Xylene	2590	ug/l	43	138	100	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978L

**Sample ID** W-21A-19-4 213

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
o-Xylene	265	ug/l	29	93	100	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			100	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			100	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			100	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	90	REC %			100	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978M  
**Sample ID** W-24A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 6.4	ug/l	6.4	21.3	1	200.7		11/6/2019	ESC	1
Barium, Dissolved	94.5	ug/l	1	3.33	1	200.7		11/5/2019	ESC	1
Organic										
Semi Volatiles										
Acetophenone	< 0.69	ug/l	0.69	2.19	1	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthene	< 0.67	ug/l	0.67	2.13	1	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthylene	< 0.91	ug/l	0.91	2.88	1	8270E	10/22/2019	10/22/2019	MJR	1
Anthracene	< 0.78	ug/l	0.78	2.49	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)anthracene	< 0.65	ug/l	0.65	2.05	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)pyrene	< 0.71	ug/l	0.71	2.24	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(b)fluoranthene	< 0.54	ug/l	0.54	1.71	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(g,h,i)perylene	< 1.35	ug/l	1.35	4.31	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(k)fluoranthene	< 0.86	ug/l	0.86	2.74	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzyl Alcohol	< 0.78	ug/l	0.78	2.48	1	8270E	10/22/2019	10/22/2019	MJR	1
Butyl benzyl phthalate	< 1.11	ug/l	1.11	3.53	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethoxy)methane	< 0.44	ug/l	0.44	1.41	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethyl)ether	< 0.93	ug/l	0.93	2.96	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroisopropyl)ether	< 0.94	ug/l	0.94	3	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-ethylhexyl)phthalate	11.1	ug/l	1.54	4.91	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Bromophenylphenyl ether	< 1.1	ug/l	1.1	3.5	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Chloro-3-methylphenol	< 0.75	ug/l	0.75	2.37	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Chloronaphthalene	< 0.84	ug/l	0.84	2.67	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Chlorophenol	< 1.01	ug/l	1.01	3.23	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Chlorophenylphenyl ether	< 1.33	ug/l	1.33	4.22	1	8270E	10/22/2019	10/22/2019	MJR	1
Chrysene	< 0.82	ug/l	0.82	2.6	1	8270E	10/22/2019	10/22/2019	MJR	1
o-Cresol	< 0.38	ug/l	0.38	1.22	1	8270E	10/22/2019	10/22/2019	MJR	1
m & p-Cresol	< 0.54	ug/l	0.54	1.72	1	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzofuran	< 0.83	ug/l	0.83	2.65	1	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzo(a,h)anthracene	< 1.28	ug/l	1.28	4.06	1	8270E	10/22/2019	10/22/2019	MJR	1
1,4-Dichlorobenzene	< 0.6	ug/l	0.6	1.9	1	8270E	10/22/2019	10/22/2019	MJR	1
1,3-Dichlorobenzene	< 0.71	ug/l	0.71	2.24	1	8270E	10/22/2019	10/22/2019	MJR	1
1,2-Dichlorobenzene	< 0.73	ug/l	0.73	2.31	1	8270E	10/22/2019	10/22/2019	MJR	1
3,3'-Dichlorobenzidine	< 1.16	ug/l	1.16	3.7	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dichlorophenol	< 0.96	ug/l	0.96	3.05	1	8270E	10/22/2019	10/22/2019	MJR	1
Diethyl phthalate	< 1.25	ug/l	1.25	3.98	1	8270E	10/22/2019	10/22/2019	MJR	1
Dimethyl phthalate	< 0.76	ug/l	0.76	2.43	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dimethylphenol	< 1.09	ug/l	1.09	3.48	1	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-butyl phthalate	< 0.93	ug/l	0.93	2.96	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrophenol	< 10.67	ug/l	10.67	33.96	1	8270E	10/22/2019	10/22/2019	MJR	1
2,6-Dinitrotoluene	< 1.39	ug/l	1.39	4.43	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrotoluene	< 1.64	ug/l	1.64	5.2	1	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-octyl phthalate	< 1.04	ug/l	1.04	3.32	1	8270E	10/22/2019	10/22/2019	MJR	1
Diphenylamine	< 0.94	ug/l	0.94	2.99	1	8270E	10/22/2019	10/22/2019	MJR	1
Fluoranthene	< 0.66	ug/l	0.66	2.11	1	8270E	10/22/2019	10/22/2019	MJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978M  
**Sample ID** W-24A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Fluorene	< 1.6	ug/l	1.6	5.1	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobenzene	< 0.66	ug/l	0.66	2.11	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobutadiene	< 0.54	ug/l	0.54	1.71	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorocyclopentadiene	< 5.47	ug/l	5.47	17.4	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachloroethane	< 1.02	ug/l	1.02	3.25	1	8270E	10/22/2019	10/22/2019	MJR	1
Indeno(1,2,3-cd)pyrene	< 2.09	ug/l	2.09	6.63	1	8270E	10/22/2019	10/22/2019	MJR	1
Isophorone	< 0.73	ug/l	0.73	2.33	1	8270E	10/22/2019	10/22/2019	MJR	1
1-Methyl naphthalene	< 0.74	ug/l	0.74	2.34	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl naphthalene	< 0.84	ug/l	0.84	2.66	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl-4,6-dinitrophenol	< 0.32	ug/l	0.32	1.02	1	8270E	10/22/2019	10/22/2019	MJR	1
Naphthalene	< 0.73	ug/l	0.73	2.33	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitroaniline	< 1.19	ug/l	1.19	3.79	1	8270E	10/22/2019	10/22/2019	MJR	1
3-Nitroaniline	< 2.63	ug/l	2.63	8.35	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitroaniline	< 2.12	ug/l	2.12	6.75	1	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene	< 0.52	ug/l	0.52	1.65	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitrophenol	< 1.93	ug/l	1.93	6.15	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitrophenol	< 1.76	ug/l	1.76	5.61	1	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodimethylamine	< 0.61	ug/l	0.61	1.95	1	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodi-n-propylamine	< 0.69	ug/l	0.69	2.21	1	8270E	10/22/2019	10/22/2019	MJR	1
Pentachlorophenol (PCP)	< 1.84	ug/l	1.84	5.85	1	8270E	10/22/2019	10/22/2019	MJR	1
Phenanthrene	< 0.65	ug/l	0.65	2.06	1	8270E	10/22/2019	10/22/2019	MJR	1
Phenol	< 1	ug/l	1	3.18	1	8270E	10/22/2019	10/22/2019	MJR	1
Pyrene	< 0.64	ug/l	0.64	2.04	1	8270E	10/22/2019	10/22/2019	MJR	1
Pyridine	< 0.4	ug/l	0.4	1.26	1	8270E	10/22/2019	10/22/2019	MJR	1
2,3,4,6-Tetrachlorophenol	< 1.32	ug/l	1.32	4.2	1	8270E	10/22/2019	10/22/2019	MJR	1
1,2,4-Trichlorobenzene	< 0.82	ug/l	0.82	2.6	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,5-Trichlorophenol	< 1.03	ug/l	1.03	3.27	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Trichlorophenol	< 1.1	ug/l	1.1	3.5	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorobiphenyl-surrogate	83	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorophenol-surrogate	30	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene-d5-surrogate	76	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
Phenol-d6-surrogate	9.6	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
p-Terphenyl-d14-surrogate	105	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Tribromophenol-surrogate	95	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
<b>VOC's</b>										
Methylacrylonitrile	< 0.46	ug/l	0.46	1.5	1	8260B		10/24/2019	CJR	1
Propionitrile	< 1.9	ug/l	1.9	6	1	8260B		10/24/2019	CJR	1
Isobutanol	< 7.8	ug/l	7.8	25	1	8260B		10/24/2019	CJR	1
Acetonitrile	< 3.88	ug/l	3.88	12.4	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Allyl chloride	< 0.9	ug/l	0.9	2.88	1	8260B		10/24/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978M  
**Sample ID** W-24A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Chloroprene	< 0.57	ug/l	0.57	1.8	1	8260B		10/24/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	27.6	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	0.53 "J"	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
1,4-Dioxane	88	ug/l	8.9	28	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethyl Methacrylate	< 6	ug/l	6	19	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/24/2019	CJR	1
2-Hexanone	< 1.44	ug/l	1.44	4.59	1	8260B		10/24/2019	CJR	1
Iodomethane	< 1.44	ug/l	1.44	4.57	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methyl isobutyl ketone (MIBK)	< 3.95	ug/l	3.95	12.6	1	8260B		10/24/2019	CJR	1
Methyl Methacrylate	< 6.4	ug/l	6.4	20	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/24/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	2.46	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
1,2,3-Trichloropropane	< 0.83	ug/l	0.83	2.64	1	8260B		10/24/2019	CJR	1
Vinyl acetate	< 2.26	ug/l	2.26	7.19	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	2.34	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978M

**Sample ID** W-24A-19-4 216

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978N  
**Sample ID** W-29A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 6.4	ug/l	6.4	21.3	1	200.7		11/6/2019	ESC	1
Barium, Dissolved	252	ug/l	1	3.33	1	200.7		11/5/2019	ESC	1
Organic										
Semi Volatiles										
Acetophenone	< 0.69	ug/l	0.69	2.19	1	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthene	< 0.67	ug/l	0.67	2.13	1	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthylene	< 0.91	ug/l	0.91	2.88	1	8270E	10/22/2019	10/22/2019	MJR	1
Anthracene	< 0.78	ug/l	0.78	2.49	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)anthracene	< 0.65	ug/l	0.65	2.05	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)pyrene	< 0.71	ug/l	0.71	2.24	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(b)fluoranthene	< 0.54	ug/l	0.54	1.71	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(g,h,i)perylene	< 1.35	ug/l	1.35	4.31	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(k)fluoranthene	< 0.86	ug/l	0.86	2.74	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzyl Alcohol	< 0.78	ug/l	0.78	2.48	1	8270E	10/22/2019	10/22/2019	MJR	1
Butyl benzyl phthalate	< 1.11	ug/l	1.11	3.53	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethoxy)methane	< 0.44	ug/l	0.44	1.41	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethyl)ether	< 0.93	ug/l	0.93	2.96	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroisopropyl)ether	< 0.94	ug/l	0.94	3	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-ethylhexyl)phthalate	< 1.54	ug/l	1.54	4.91	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Bromophenylphenyl ether	< 1.1	ug/l	1.1	3.5	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Chloro-3-methylphenol	< 0.75	ug/l	0.75	2.37	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Chloronaphthalene	< 0.84	ug/l	0.84	2.67	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Chlorophenol	< 1.01	ug/l	1.01	3.23	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Chlorophenylphenyl ether	< 1.33	ug/l	1.33	4.22	1	8270E	10/22/2019	10/22/2019	MJR	1
Chrysene	< 0.82	ug/l	0.82	2.6	1	8270E	10/22/2019	10/22/2019	MJR	1
o-Cresol	< 0.38	ug/l	0.38	1.22	1	8270E	10/22/2019	10/22/2019	MJR	1
m & p-Cresol	< 0.54	ug/l	0.54	1.72	1	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzofuran	< 0.83	ug/l	0.83	2.65	1	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzo(a,h)anthracene	< 1.28	ug/l	1.28	4.06	1	8270E	10/22/2019	10/22/2019	MJR	1
1,4-Dichlorobenzene	< 0.6	ug/l	0.6	1.9	1	8270E	10/22/2019	10/22/2019	MJR	1
1,3-Dichlorobenzene	< 0.71	ug/l	0.71	2.24	1	8270E	10/22/2019	10/22/2019	MJR	1
1,2-Dichlorobenzene	< 0.73	ug/l	0.73	2.31	1	8270E	10/22/2019	10/22/2019	MJR	1
3,3'-Dichlorobenzidine	< 1.16	ug/l	1.16	3.7	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dichlorophenol	< 0.96	ug/l	0.96	3.05	1	8270E	10/22/2019	10/22/2019	MJR	1
Diethyl phthalate	< 1.25	ug/l	1.25	3.98	1	8270E	10/22/2019	10/22/2019	MJR	1
Dimethyl phthalate	< 0.76	ug/l	0.76	2.43	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dimethylphenol	< 1.09	ug/l	1.09	3.48	1	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-butyl phthalate	< 0.93	ug/l	0.93	2.96	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrophenol	< 10.67	ug/l	10.67	33.96	1	8270E	10/22/2019	10/22/2019	MJR	1
2,6-Dinitrotoluene	< 1.39	ug/l	1.39	4.43	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrotoluene	< 1.64	ug/l	1.64	5.2	1	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-octyl phthalate	< 1.04	ug/l	1.04	3.32	1	8270E	10/22/2019	10/22/2019	MJR	1
Diphenylamine	< 0.94	ug/l	0.94	2.99	1	8270E	10/22/2019	10/22/2019	MJR	1
Fluoranthene	< 0.66	ug/l	0.66	2.11	1	8270E	10/22/2019	10/22/2019	MJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978N  
**Sample ID** W-29A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Fluorene	< 1.6	ug/l	1.6	5.1	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobenzene	< 0.66	ug/l	0.66	2.11	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobutadiene	< 0.54	ug/l	0.54	1.71	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorocyclopentadiene	< 5.47	ug/l	5.47	17.4	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachloroethane	< 1.02	ug/l	1.02	3.25	1	8270E	10/22/2019	10/22/2019	MJR	1
Indeno(1,2,3-cd)pyrene	< 2.09	ug/l	2.09	6.63	1	8270E	10/22/2019	10/22/2019	MJR	1
Isophorone	< 0.73	ug/l	0.73	2.33	1	8270E	10/22/2019	10/22/2019	MJR	1
1-Methyl naphthalene	< 0.74	ug/l	0.74	2.34	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl naphthalene	< 0.84	ug/l	0.84	2.66	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl-4,6-dinitrophenol	< 0.32	ug/l	0.32	1.02	1	8270E	10/22/2019	10/22/2019	MJR	1
Naphthalene	< 0.73	ug/l	0.73	2.33	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitroaniline	< 1.19	ug/l	1.19	3.79	1	8270E	10/22/2019	10/22/2019	MJR	1
3-Nitroaniline	< 2.63	ug/l	2.63	8.35	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitroaniline	< 2.12	ug/l	2.12	6.75	1	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene	< 0.52	ug/l	0.52	1.65	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitrophenol	< 1.93	ug/l	1.93	6.15	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitrophenol	< 1.76	ug/l	1.76	5.61	1	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodimethylamine	< 0.61	ug/l	0.61	1.95	1	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodi-n-propylamine	< 0.69	ug/l	0.69	2.21	1	8270E	10/22/2019	10/22/2019	MJR	1
Pentachlorophenol (PCP)	< 1.84	ug/l	1.84	5.85	1	8270E	10/22/2019	10/22/2019	MJR	1
Phenanthrene	< 0.65	ug/l	0.65	2.06	1	8270E	10/22/2019	10/22/2019	MJR	1
Phenol	< 1	ug/l	1	3.18	1	8270E	10/22/2019	10/22/2019	MJR	1
Pyrene	< 0.64	ug/l	0.64	2.04	1	8270E	10/22/2019	10/22/2019	MJR	1
Pyridine	< 0.4	ug/l	0.4	1.26	1	8270E	10/22/2019	10/22/2019	MJR	1
2,3,4,6-Tetrachlorophenol	< 1.32	ug/l	1.32	4.2	1	8270E	10/22/2019	10/22/2019	MJR	1
1,2,4-Trichlorobenzene	< 0.82	ug/l	0.82	2.6	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,5-Trichlorophenol	< 1.03	ug/l	1.03	3.27	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Trichlorophenol	< 1.1	ug/l	1.1	3.5	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorobiphenyl-surrogate	84	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorophenol-surrogate	30	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene-d5-surrogate	77	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
Phenol-d6-surrogate	23.4	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
p-Terphenyl-d14-surrogate	109	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Tribromophenol-surrogate	96	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
<b>VOC's</b>										
Acetonitrile	< 3.88	ug/l	3.88	12.4	1	8260B		10/24/2019	CJR	1
Isobutanol	< 7.8	ug/l	7.8	25	1	8260B		10/24/2019	CJR	1
Methylacrylonitrile	< 0.46	ug/l	0.46	1.5	1	8260B		10/24/2019	CJR	1
Propionitrile	< 1.9	ug/l	1.9	6	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Allyl chloride	< 0.9	ug/l	0.9	2.88	1	8260B		10/24/2019	CJR	1
Benzene	24.4	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	0.77 "J"	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

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**Lab Code** 5036978N  
**Sample ID** W-29A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Chloroprene	< 0.57	ug/l	0.57	1.8	1	8260B		10/24/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
1,4-Dioxane	57	ug/l	8.9	28	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethyl Methacrylate	< 6	ug/l	6	19	1	8260B		10/24/2019	CJR	1
Ethylbenzene	47	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/24/2019	CJR	1
2-Hexanone	< 1.44	ug/l	1.44	4.59	1	8260B		10/24/2019	CJR	1
Iodomethane	< 1.44	ug/l	1.44	4.57	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methyl isobutyl ketone (MIBK)	< 3.95	ug/l	3.95	12.6	1	8260B		10/24/2019	CJR	1
Methyl Methacrylate	< 6.4	ug/l	6.4	20	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Styrene	2.54	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/24/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Toluene	2.82	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
1,2,3-Trichloropropane	< 0.83	ug/l	0.83	2.64	1	8260B		10/24/2019	CJR	1
Vinyl acetate	< 2.26	ug/l	2.26	7.19	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	37	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978N

**Sample ID** W-29A-19-4 219

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
o-Xylene	6.8	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 50369780  
**Sample ID** W-07-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/22/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/22/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/22/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/22/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/22/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/22/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/22/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/22/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/22/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/22/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/22/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/22/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/22/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/22/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/22/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/22/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/22/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/22/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/22/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/22/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/22/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/22/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/22/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/22/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/22/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 50369780

**Sample ID** W-07-19-4 212

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/22/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/22/2019	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		10/22/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978P  
 Sample ID W-08R-19-4  
 Sample Matrix Water  
 Sample Date 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/22/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/22/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/22/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/22/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/22/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/22/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/22/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/22/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/22/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/22/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/22/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/22/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/22/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/22/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/22/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/22/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/22/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/22/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/22/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/22/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/22/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/22/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/22/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/22/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/22/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978P

**Sample ID** W-08R-19-4 275

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	94	REC %			1	8260B		10/22/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/22/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/22/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978Q  
 Sample ID OUTFALL001-19-4  
 Sample Matrix Water  
 Sample Date 10/15/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/22/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/22/2019	CJR	1
Benzene	0.71	ug/l	0.22	0.71	1	8260B		10/22/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/22/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/22/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/22/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/22/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/22/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/22/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/22/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/22/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/22/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/22/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/22/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/22/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/22/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/22/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/22/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/22/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/22/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/22/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/22/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/22/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/22/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/22/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/22/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/22/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/22/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/22/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/22/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/22/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/22/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/22/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/22/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/22/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/22/2019	CJR	1
Trichlorofluoromethane	0.51 "J"	ug/l	0.35	1.1	1	8260B		10/22/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/22/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/22/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/22/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		10/22/2019	CJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978Q  
**Sample ID** OUTFALL001-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		10/22/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		10/22/2019	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		10/22/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978R  
**Sample ID** W-01A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978R

**Sample ID** W-01A-19-4 250

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	100	REC %			1	8260B		10/23/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978S  
**Sample ID** W-30-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 6.4	ug/l	6.4	21.3	1	200.7		11/6/2019	ESC	1
Barium, Dissolved	100	ug/l	1	3.33	1	200.7		11/5/2019	ESC	1
Organic										
Semi Volatiles										
Acetophenone	< 0.69	ug/l	0.69	2.19	1	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthene	< 0.67	ug/l	0.67	2.13	1	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthylene	< 0.91	ug/l	0.91	2.88	1	8270E	10/22/2019	10/22/2019	MJR	1
Anthracene	< 0.78	ug/l	0.78	2.49	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)anthracene	< 0.65	ug/l	0.65	2.05	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)pyrene	< 0.71	ug/l	0.71	2.24	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(b)fluoranthene	< 0.54	ug/l	0.54	1.71	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(g,h,i)perylene	< 1.35	ug/l	1.35	4.31	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(k)fluoranthene	< 0.86	ug/l	0.86	2.74	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzyl Alcohol	< 0.78	ug/l	0.78	2.48	1	8270E	10/22/2019	10/22/2019	MJR	1
Butyl benzyl phthalate	< 1.11	ug/l	1.11	3.53	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethoxy)methane	< 0.44	ug/l	0.44	1.41	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethyl)ether	< 0.93	ug/l	0.93	2.96	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroisopropyl)ether	< 0.94	ug/l	0.94	3	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-ethylhexyl)phthalate	< 1.54	ug/l	1.54	4.91	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Bromophenylphenyl ether	< 1.1	ug/l	1.1	3.5	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Chloro-3-methylphenol	< 0.75	ug/l	0.75	2.37	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Chloronaphthalene	< 0.84	ug/l	0.84	2.67	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Chlorophenol	< 1.01	ug/l	1.01	3.23	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Chlorophenylphenyl ether	< 1.33	ug/l	1.33	4.22	1	8270E	10/22/2019	10/22/2019	MJR	1
Chrysene	< 0.82	ug/l	0.82	2.6	1	8270E	10/22/2019	10/22/2019	MJR	1
o-Cresol	< 0.38	ug/l	0.38	1.22	1	8270E	10/22/2019	10/22/2019	MJR	1
m & p-Cresol	< 0.54	ug/l	0.54	1.72	1	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzofuran	< 0.83	ug/l	0.83	2.65	1	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzo(a,h)anthracene	< 1.28	ug/l	1.28	4.06	1	8270E	10/22/2019	10/22/2019	MJR	1
1,4-Dichlorobenzene	< 0.6	ug/l	0.6	1.9	1	8270E	10/22/2019	10/22/2019	MJR	1
1,3-Dichlorobenzene	< 0.71	ug/l	0.71	2.24	1	8270E	10/22/2019	10/22/2019	MJR	1
1,2-Dichlorobenzene	< 0.73	ug/l	0.73	2.31	1	8270E	10/22/2019	10/22/2019	MJR	1
3,3'-Dichlorobenzidine	< 1.16	ug/l	1.16	3.7	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dichlorophenol	< 0.96	ug/l	0.96	3.05	1	8270E	10/22/2019	10/22/2019	MJR	1
Diethyl phthalate	< 1.25	ug/l	1.25	3.98	1	8270E	10/22/2019	10/22/2019	MJR	1
Dimethyl phthalate	< 0.76	ug/l	0.76	2.43	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dimethylphenol	< 1.09	ug/l	1.09	3.48	1	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-butyl phthalate	< 0.93	ug/l	0.93	2.96	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrophenol	< 10.67	ug/l	10.67	33.96	1	8270E	10/22/2019	10/22/2019	MJR	1
2,6-Dinitrotoluene	< 1.39	ug/l	1.39	4.43	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrotoluene	< 1.64	ug/l	1.64	5.2	1	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-octyl phthalate	< 1.04	ug/l	1.04	3.32	1	8270E	10/22/2019	10/22/2019	MJR	1
Diphenylamine	< 0.94	ug/l	0.94	2.99	1	8270E	10/22/2019	10/22/2019	MJR	1
Fluoranthene	< 0.66	ug/l	0.66	2.11	1	8270E	10/22/2019	10/22/2019	MJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978S  
**Sample ID** W-30-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Fluorene	< 1.6	ug/l	1.6	5.1	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobenzene	< 0.66	ug/l	0.66	2.11	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobutadiene	< 0.54	ug/l	0.54	1.71	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorocyclopentadiene	< 5.47	ug/l	5.47	17.4	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachloroethane	< 1.02	ug/l	1.02	3.25	1	8270E	10/22/2019	10/22/2019	MJR	1
Indeno(1,2,3-cd)pyrene	< 2.09	ug/l	2.09	6.63	1	8270E	10/22/2019	10/22/2019	MJR	1
Isophorone	< 0.73	ug/l	0.73	2.33	1	8270E	10/22/2019	10/22/2019	MJR	1
1-Methyl naphthalene	< 0.74	ug/l	0.74	2.34	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl naphthalene	< 0.84	ug/l	0.84	2.66	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl-4,6-dinitrophenol	< 0.32	ug/l	0.32	1.02	1	8270E	10/22/2019	10/22/2019	MJR	1
Naphthalene	< 0.73	ug/l	0.73	2.33	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitroaniline	< 1.19	ug/l	1.19	3.79	1	8270E	10/22/2019	10/22/2019	MJR	1
3-Nitroaniline	< 2.63	ug/l	2.63	8.35	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitroaniline	< 2.12	ug/l	2.12	6.75	1	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene	< 0.52	ug/l	0.52	1.65	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitrophenol	< 1.93	ug/l	1.93	6.15	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitrophenol	< 1.76	ug/l	1.76	5.61	1	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodimethylamine	< 0.61	ug/l	0.61	1.95	1	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodi-n-propylamine	< 0.69	ug/l	0.69	2.21	1	8270E	10/22/2019	10/22/2019	MJR	1
Pentachlorophenol (PCP)	< 1.84	ug/l	1.84	5.85	1	8270E	10/22/2019	10/22/2019	MJR	1
Phenanthrene	< 0.65	ug/l	0.65	2.06	1	8270E	10/22/2019	10/22/2019	MJR	1
Phenol	< 1	ug/l	1	3.18	1	8270E	10/22/2019	10/22/2019	MJR	1
Pyrene	< 0.64	ug/l	0.64	2.04	1	8270E	10/22/2019	10/22/2019	MJR	1
Pyridine	< 0.4	ug/l	0.4	1.26	1	8270E	10/22/2019	10/22/2019	MJR	1
2,3,4,6-Tetrachlorophenol	< 1.32	ug/l	1.32	4.2	1	8270E	10/22/2019	10/22/2019	MJR	1
1,2,4-Trichlorobenzene	< 0.82	ug/l	0.82	2.6	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,5-Trichlorophenol	< 1.03	ug/l	1.03	3.27	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Trichlorophenol	< 1.1	ug/l	1.1	3.5	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorobiphenyl-surrogate	87	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorophenol-surrogate	38	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene-d5-surrogate	78	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
Phenol-d6-surrogate	22.7	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
p-Terphenyl-d14-surrogate	117	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Tribromophenol-surrogate	93	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
<b>VOC's</b>										
Methylacrylonitrile	< 0.46	ug/l	0.46	1.5	1	8260B		10/24/2019	CJR	1
Propionitrile	< 1.9	ug/l	1.9	6	1	8260B		10/24/2019	CJR	1
Acetonitrile	< 3.88	ug/l	3.88	12.4	1	8260B		10/24/2019	CJR	1
Isobutanol	< 7.8	ug/l	7.8	25	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Allyl chloride	< 0.9	ug/l	0.9	2.88	1	8260B		10/24/2019	CJR	1
Benzene	1.39	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978S  
**Sample ID** W-30-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Chloroprene	< 0.57	ug/l	0.57	1.8	1	8260B		10/24/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	0.4 "J"	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
1,4-Dioxane	< 8.9	ug/l	8.9	28	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethyl Methacrylate	< 6	ug/l	6	19	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/24/2019	CJR	1
2-Hexanone	< 1.44	ug/l	1.44	4.59	1	8260B		10/24/2019	CJR	1
Iodomethane	< 1.44	ug/l	1.44	4.57	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methyl isobutyl ketone (MIBK)	< 3.95	ug/l	3.95	12.6	1	8260B		10/24/2019	CJR	1
Methyl Methacrylate	< 6.4	ug/l	6.4	20	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/24/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	1.82	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
1,2,3-Trichloropropane	< 0.83	ug/l	0.83	2.64	1	8260B		10/24/2019	CJR	1
Vinyl acetate	< 2.26	ug/l	2.26	7.19	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978S

**Sample ID** W-30-19-4 206

**Sample Matrix** Water

**Sample Date** 10/15/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	92	REC %			1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978T  
**Sample ID** DUP5-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 6.4	ug/l	6.4	21.3	1	200.7		11/6/2019	ESC	1
Barium, Dissolved	99	ug/l	1	3.33	1	200.7		11/5/2019	ESC	1
Organic										
Semi Volatiles										
Acetophenone	< 0.69	ug/l	0.69	2.19	1	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthene	< 0.67	ug/l	0.67	2.13	1	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthylene	< 0.91	ug/l	0.91	2.88	1	8270E	10/22/2019	10/22/2019	MJR	1
Anthracene	< 0.78	ug/l	0.78	2.49	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)anthracene	< 0.65	ug/l	0.65	2.05	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)pyrene	< 0.71	ug/l	0.71	2.24	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(b)fluoranthene	< 0.54	ug/l	0.54	1.71	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(g,h,i)perylene	< 1.35	ug/l	1.35	4.31	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(k)fluoranthene	< 0.86	ug/l	0.86	2.74	1	8270E	10/22/2019	10/22/2019	MJR	1
Benzyl Alcohol	< 0.78	ug/l	0.78	2.48	1	8270E	10/22/2019	10/22/2019	MJR	1
Butyl benzyl phthalate	< 1.11	ug/l	1.11	3.53	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethoxy)methane	< 0.44	ug/l	0.44	1.41	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethyl)ether	< 0.93	ug/l	0.93	2.96	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroisopropyl)ether	< 0.94	ug/l	0.94	3	1	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-ethylhexyl)phthalate	< 1.54	ug/l	1.54	4.91	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Bromophenylphenyl ether	< 1.1	ug/l	1.1	3.5	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Chloro-3-methylphenol	< 0.75	ug/l	0.75	2.37	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Chloronaphthalene	< 0.84	ug/l	0.84	2.67	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Chlorophenol	< 1.01	ug/l	1.01	3.23	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Chlorophenylphenyl ether	< 1.33	ug/l	1.33	4.22	1	8270E	10/22/2019	10/22/2019	MJR	1
Chrysene	< 0.82	ug/l	0.82	2.6	1	8270E	10/22/2019	10/22/2019	MJR	1
o-Cresol	< 0.38	ug/l	0.38	1.22	1	8270E	10/22/2019	10/22/2019	MJR	1
m & p-Cresol	< 0.54	ug/l	0.54	1.72	1	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzofuran	< 0.83	ug/l	0.83	2.65	1	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzo(a,h)anthracene	< 1.28	ug/l	1.28	4.06	1	8270E	10/22/2019	10/22/2019	MJR	1
1,4-Dichlorobenzene	< 0.6	ug/l	0.6	1.9	1	8270E	10/22/2019	10/22/2019	MJR	1
1,3-Dichlorobenzene	< 0.71	ug/l	0.71	2.24	1	8270E	10/22/2019	10/22/2019	MJR	1
1,2-Dichlorobenzene	< 0.73	ug/l	0.73	2.31	1	8270E	10/22/2019	10/22/2019	MJR	1
3,3'-Dichlorobenzidine	< 1.16	ug/l	1.16	3.7	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dichlorophenol	< 0.96	ug/l	0.96	3.05	1	8270E	10/22/2019	10/22/2019	MJR	1
Diethyl phthalate	< 1.25	ug/l	1.25	3.98	1	8270E	10/22/2019	10/22/2019	MJR	1
Dimethyl phthalate	< 0.76	ug/l	0.76	2.43	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dimethylphenol	< 1.09	ug/l	1.09	3.48	1	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-butyl phthalate	< 0.93	ug/l	0.93	2.96	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrophenol	< 10.67	ug/l	10.67	33.96	1	8270E	10/22/2019	10/22/2019	MJR	1
2,6-Dinitrotoluene	< 1.39	ug/l	1.39	4.43	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrotoluene	< 1.64	ug/l	1.64	5.2	1	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-octyl phthalate	< 1.04	ug/l	1.04	3.32	1	8270E	10/22/2019	10/22/2019	MJR	1
Diphenylamine	< 0.94	ug/l	0.94	2.99	1	8270E	10/22/2019	10/22/2019	MJR	1
Fluoranthene	< 0.66	ug/l	0.66	2.11	1	8270E	10/22/2019	10/22/2019	MJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978T  
**Sample ID** DUP5-19-4  
**Sample Matrix** Water  
**Sample Date** 10/15/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Fluorene	< 1.6	ug/l	1.6	5.1	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobenzene	< 0.66	ug/l	0.66	2.11	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobutadiene	< 0.54	ug/l	0.54	1.71	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorocyclopentadiene	< 5.47	ug/l	5.47	17.4	1	8270E	10/22/2019	10/22/2019	MJR	1
Hexachloroethane	< 1.02	ug/l	1.02	3.25	1	8270E	10/22/2019	10/22/2019	MJR	1
Indeno(1,2,3-cd)pyrene	< 2.09	ug/l	2.09	6.63	1	8270E	10/22/2019	10/22/2019	MJR	1
Isophorone	< 0.73	ug/l	0.73	2.33	1	8270E	10/22/2019	10/22/2019	MJR	1
1-Methyl naphthalene	< 0.74	ug/l	0.74	2.34	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl naphthalene	< 0.84	ug/l	0.84	2.66	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl-4,6-dinitrophenol	< 0.32	ug/l	0.32	1.02	1	8270E	10/22/2019	10/22/2019	MJR	1
Naphthalene	< 0.73	ug/l	0.73	2.33	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitroaniline	< 1.19	ug/l	1.19	3.79	1	8270E	10/22/2019	10/22/2019	MJR	1
3-Nitroaniline	< 2.63	ug/l	2.63	8.35	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitroaniline	< 2.12	ug/l	2.12	6.75	1	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene	< 0.52	ug/l	0.52	1.65	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitrophenol	< 1.93	ug/l	1.93	6.15	1	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitrophenol	< 1.76	ug/l	1.76	5.61	1	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodimethylamine	< 0.61	ug/l	0.61	1.95	1	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodi-n-propylamine	< 0.69	ug/l	0.69	2.21	1	8270E	10/22/2019	10/22/2019	MJR	1
Pentachlorophenol (PCP)	< 1.84	ug/l	1.84	5.85	1	8270E	10/22/2019	10/22/2019	MJR	1
Phenanthrene	< 0.65	ug/l	0.65	2.06	1	8270E	10/22/2019	10/22/2019	MJR	1
Phenol	< 1	ug/l	1	3.18	1	8270E	10/22/2019	10/22/2019	MJR	1
Pyrene	< 0.64	ug/l	0.64	2.04	1	8270E	10/22/2019	10/22/2019	MJR	1
Pyridine	< 0.4	ug/l	0.4	1.26	1	8270E	10/22/2019	10/22/2019	MJR	1
2,3,4,6-Tetrachlorophenol	< 1.32	ug/l	1.32	4.2	1	8270E	10/22/2019	10/22/2019	MJR	1
1,2,4-Trichlorobenzene	< 0.82	ug/l	0.82	2.6	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,5-Trichlorophenol	< 1.03	ug/l	1.03	3.27	1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Trichlorophenol	< 1.1	ug/l	1.1	3.5	1	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorobiphenyl-surrogate	78	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorophenol-surrogate	31	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene-d5-surrogate	70	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
Phenol-d6-surrogate	11.4	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
p-Terphenyl-d14-surrogate	107	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Tribromophenol-surrogate	86	REC %			1	8270E	10/22/2019	10/22/2019	MJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978U  
**Sample ID** W-49-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978U

**Sample ID** W-49-19-4 276

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	102	REC %			1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/23/2019	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978V  
 Sample ID W-50-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

277

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978V

**Sample ID** W-50-19-4 277

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978W  
 Sample ID W-04A-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978W

**Sample ID** W-04A-19-4 252

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978X  
 Sample ID W-23-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	0.28 "J"	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	0.78 "J"	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	0.24 "J"	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		10/23/2019	CJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978X

**Sample ID** W-23-19-4 215

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	95	REC %			1	8260B		10/23/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978Y  
 Sample ID DUP2-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	0.26 "J"	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	0.91 "J"	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	0.24 "J"	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978Y  
**Sample ID** DUP2-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	107	REC %			1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	96	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 5036978Z  
 Sample ID W-41-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	0.26 "J"	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 5036978Z

**Sample ID** W-41-19-4 261

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978AA  
**Sample ID** W-06A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	33.3	ug/l	6.4	21.3	1	200.7		11/6/2019	ESC	1
Barium, Dissolved	54.7	ug/l	1	3.33	1	200.7		11/5/2019	ESC	1
Organic										
Semi Volatiles										
Acetophenone	29.5	ug/l	6.9	21.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthene	< 6.7	ug/l	6.7	21.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthylene	< 9.1	ug/l	9.1	28.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Anthracene	< 7.8	ug/l	7.8	24.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)anthracene	< 6.5	ug/l	6.5	20.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)pyrene	< 7.1	ug/l	7.1	22.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(b)fluoranthene	< 5.4	ug/l	5.4	17.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(g,h,i)perylene	< 13.5	ug/l	13.5	43.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(k)fluoranthene	< 8.6	ug/l	8.6	27.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzyl Alcohol	< 7.8	ug/l	7.8	24.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Butyl benzyl phthalate	< 11.1	ug/l	11.1	35.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethoxy)methane	< 4.4	ug/l	4.4	14.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethyl)ether	< 9.3	ug/l	9.3	29.6	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroisopropyl)ether	< 9.4	ug/l	9.4	30	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-ethylhexyl)phthalate	< 15.4	ug/l	15.4	49.1	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Bromophenylphenyl ether	< 11	ug/l	11	35	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Chloro-3-methylphenol	7.6 "J"	ug/l	7.5	23.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Chloronaphthalene	< 8.4	ug/l	8.4	26.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Chlorophenol	< 10.1	ug/l	10.1	32.3	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Chlorophenylphenyl ether	< 13.3	ug/l	13.3	42.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Chrysene	< 8.2	ug/l	8.2	26	10	8270E	10/22/2019	10/22/2019	MJR	1
o-Cresol	56	ug/l	3.8	12.2	10	8270E	10/22/2019	10/22/2019	MJR	1
m & p-Cresol	73	ug/l	5.4	17.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzofuran	< 8.3	ug/l	8.3	26.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzo(a,h)anthracene	< 12.8	ug/l	12.8	40.6	10	8270E	10/22/2019	10/22/2019	MJR	1
1,4-Dichlorobenzene	< 6	ug/l	6	19	10	8270E	10/22/2019	10/22/2019	MJR	1
1,3-Dichlorobenzene	< 7.1	ug/l	7.1	22.4	10	8270E	10/22/2019	10/22/2019	MJR	1
1,2-Dichlorobenzene	< 7.3	ug/l	7.3	23.1	10	8270E	10/22/2019	10/22/2019	MJR	1
3,3'-Dichlorobenzidine	< 11.6	ug/l	11.6	37	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dichlorophenol	< 9.6	ug/l	9.6	30.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Diethyl phthalate	< 12.5	ug/l	12.5	39.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Dimethyl phthalate	< 7.6	ug/l	7.6	24.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dimethylphenol	132	ug/l	10.9	34.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-butyl phthalate	< 9.3	ug/l	9.3	29.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrophenol	< 106.7	ug/l	106.7	339.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,6-Dinitrotoluene	< 13.9	ug/l	13.9	44.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrotoluene	< 16.4	ug/l	16.4	52	10	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-octyl phthalate	< 10.4	ug/l	10.4	33.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Diphenylamine	< 9.4	ug/l	9.4	29.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Fluoranthene	< 6.6	ug/l	6.6	21.1	10	8270E	10/22/2019	10/22/2019	MJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978AA  
 Sample ID W-06A-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Fluorene	< 16	ug/l	16	51	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobenzene	< 6.6	ug/l	6.6	21.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobutadiene	< 5.4	ug/l	5.4	17.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorocyclopentadiene	< 54.7	ug/l	54.7	174	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachloroethane	< 10.2	ug/l	10.2	32.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Indeno(1,2,3-cd)pyrene	< 20.9	ug/l	20.9	66.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Isophorone	< 7.3	ug/l	7.3	23.3	10	8270E	10/22/2019	10/22/2019	MJR	1
1-Methyl naphthalene	< 7.4	ug/l	7.4	23.4	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl naphthalene	< 8.4	ug/l	8.4	26.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl-4,6-dinitrophenol	< 3.2	ug/l	3.2	10.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Naphthalene	10.7 "J"	ug/l	7.3	23.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitroaniline	< 11.9	ug/l	11.9	37.9	10	8270E	10/22/2019	10/22/2019	MJR	1
3-Nitroaniline	< 26.3	ug/l	26.3	83.5	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitroaniline	< 21.2	ug/l	21.2	67.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene	< 5.2	ug/l	5.2	16.5	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitrophenol	< 19.3	ug/l	19.3	61.5	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitrophenol	< 17.6	ug/l	17.6	56.1	10	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodimethylamine	< 6.1	ug/l	6.1	19.5	10	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodi-n-propylamine	< 6.9	ug/l	6.9	22.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Pentachlorophenol (PCP)	< 18.4	ug/l	18.4	58.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Phenanthrene	< 6.5	ug/l	6.5	20.6	10	8270E	10/22/2019	10/22/2019	MJR	1
Phenol	66	ug/l	10	31.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Pyrene	< 6.4	ug/l	6.4	20.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Pyridine	< 4	ug/l	4	12.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,3,4,6-Tetrachlorophenol	< 13.2	ug/l	13.2	42	10	8270E	10/22/2019	10/22/2019	MJR	1
1,2,4-Trichlorobenzene	< 8.2	ug/l	8.2	26	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,5-Trichlorophenol	< 10.3	ug/l	10.3	32.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Trichlorophenol	< 11	ug/l	11	35	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorobiphenyl-surrogate	88	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorophenol-surrogate	103	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene-d5-surrogate	80	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
Phenol-d6-surrogate	61	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
p-Terphenyl-d14-surrogate	112	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Tribromophenol-surrogate	104	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
VOC's										
Propionitrile	< 950	ug/l	950	3000	500	8260B		10/24/2019	CJR	1
Methylacrylonitrile	< 230	ug/l	230	750	500	8260B		10/24/2019	CJR	1
Isobutanol	< 3900	ug/l	3900	12500	500	8260B		10/24/2019	CJR	1
Acetonitrile	< 1940	ug/l	1940	6200	500	8260B		10/24/2019	CJR	1
Acetone	< 2505	ug/l	2505	7950	500	8260B		10/24/2019	CJR	1
Allyl chloride	< 450	ug/l	450	1440	500	8260B		10/24/2019	CJR	1
Benzene	135 "J"	ug/l	110	355	500	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 165	ug/l	165	530	500	8260B		10/24/2019	CJR	1
Bromoform	< 225	ug/l	225	720	500	8260B		10/24/2019	CJR	1
Bromomethane	< 495	ug/l	495	1575	500	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 145	ug/l	145	460	500	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978AA  
**Sample ID** W-06A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Carbon Tetrachloride	< 155	ug/l	155	490	500	8260B		10/24/2019	CJR	1
Chlorobenzene	< 130	ug/l	130	415	500	8260B		10/24/2019	CJR	1
Chloroethane	< 305	ug/l	305	975	500	8260B		10/24/2019	CJR	1
Chloroform	< 130	ug/l	130	410	500	8260B		10/24/2019	CJR	1
Chloromethane	< 270	ug/l	270	860	500	8260B		10/24/2019	CJR	1
Chloroprene	< 285	ug/l	285	900	500	8260B		10/24/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 1480	ug/l	1480	4715	500	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 110	ug/l	110	345	500	8260B		10/24/2019	CJR	1
Dibromomethane	< 215	ug/l	215	690	500	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 350	ug/l	350	1110	500	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 425	ug/l	425	1350	500	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 430	ug/l	430	1370	500	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 160	ug/l	160	510	500	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 125	ug/l	125	390	500	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 180	ug/l	180	570	500	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 210	ug/l	210	670	500	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 185	ug/l	185	580	500	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 170	ug/l	170	535	500	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 220	ug/l	220	695	500	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 160	ug/l	160	505	500	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 130	ug/l	130	405	500	8260B		10/24/2019	CJR	1
1,4-Dioxane	< 4450	ug/l	4450	14000	500	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 170	ug/l	170	545	500	8260B		10/24/2019	CJR	1
Ethyl Methacrylate	< 3000	ug/l	3000	9500	500	8260B		10/24/2019	CJR	1
Ethylbenzene	21200	ug/l	130	415	500	8260B		10/24/2019	CJR	1
Hexachlorobutadiene	< 670	ug/l	670	2140	500	8260B		10/24/2019	CJR	1
2-Hexanone	< 720	ug/l	720	2295	500	8260B		10/24/2019	CJR	1
Iodomethane	< 720	ug/l	720	2285	500	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 2085	ug/l	2085	6650	500	8260B		10/24/2019	CJR	1
Methyl isobutyl ketone (MIBK)	< 1975	ug/l	1975	6300	500	8260B		10/24/2019	CJR	1
Methyl Methacrylate	< 3200	ug/l	3200	10000	500	8260B		10/24/2019	CJR	1
Methylene chloride	< 660	ug/l	660	2105	500	8260B		10/24/2019	CJR	1
Styrene	< 130	ug/l	130	420	500	8260B		10/24/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 150	ug/l	150	485	500	8260B		10/24/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 175	ug/l	175	565	500	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 190	ug/l	190	605	500	8260B		10/24/2019	CJR	1
Toluene	29200	ug/l	95	300	500	8260B		10/24/2019	CJR	1
1,2,4-Trichlorobenzene	< 575	ug/l	575	1835	500	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 165	ug/l	165	525	500	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 210	ug/l	210	660	500	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 150	ug/l	150	470	500	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 175	ug/l	175	550	500	8260B		10/24/2019	CJR	1
1,2,3-Trichloropropane	< 415	ug/l	415	1320	500	8260B		10/24/2019	CJR	1
Vinyl acetate	< 1130	ug/l	1130	3595	500	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 100	ug/l	100	325	500	8260B		10/24/2019	CJR	1
m&p-Xylene	72000	ug/l	215	690	500	8260B		10/24/2019	CJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978AA

**Sample ID** W-06A-19-4 253

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
o-Xylene	22800	ug/l	145	465	500	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			500	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	93	REC %			500	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			500	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	92	REC %			500	8260B		10/24/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978BB  
 Sample ID W-51-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	38	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978BB

**Sample ID** W-51-19-4 278

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	104	REC %			1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978CC  
 Sample ID W-52-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	15.7	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	12.2	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	1.04 "J"	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	0.47 "J"	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	52	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	7.4	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978CC

**Sample ID** W-52-19-4 279

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978DD  
 Sample ID W-42-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 148	ug/l	148	471	50	8260B		10/24/2019	CJR	1
Acetone	< 250.5	ug/l	250.5	795	50	8260B		10/24/2019	CJR	1
Benzene	43	ug/l	11	35.5	50	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 16.5	ug/l	16.5	53	50	8260B		10/24/2019	CJR	1
Bromoform	< 22.5	ug/l	22.5	72	50	8260B		10/24/2019	CJR	1
Bromomethane	< 49.5	ug/l	49.5	157.5	50	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 14.5	ug/l	14.5	46	50	8260B		10/24/2019	CJR	1
Carbon Tetrachloride	< 15.5	ug/l	15.5	49	50	8260B		10/24/2019	CJR	1
Chlorobenzene	< 13	ug/l	13	41.5	50	8260B		10/24/2019	CJR	1
Chloroethane	< 30.5	ug/l	30.5	97.5	50	8260B		10/24/2019	CJR	1
Chloroform	< 13	ug/l	13	41	50	8260B		10/24/2019	CJR	1
Chloromethane	< 27	ug/l	27	86	50	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 11	ug/l	11	34.5	50	8260B		10/24/2019	CJR	1
Dibromomethane	< 21.5	ug/l	21.5	69	50	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 35	ug/l	35	111	50	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 42.5	ug/l	42.5	135	50	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 43	ug/l	43	137	50	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 16	ug/l	16	51	50	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 12.5	ug/l	12.5	39	50	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 18	ug/l	18	57	50	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 21	ug/l	21	67	50	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 18.5	ug/l	18.5	58	50	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 17	ug/l	17	53.5	50	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 22	ug/l	22	69.5	50	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 16	ug/l	16	50.5	50	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 13	ug/l	13	40.5	50	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 17	ug/l	17	54.5	50	8260B		10/24/2019	CJR	1
Ethylbenzene	106	ug/l	13	41.5	50	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 208.5	ug/l	208.5	665	50	8260B		10/24/2019	CJR	1
Methylene chloride	< 66	ug/l	66	210.5	50	8260B		10/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 14	ug/l	14	44.5	50	8260B		10/24/2019	CJR	1
Naphthalene	< 105	ug/l	105	332.5	50	8260B		10/24/2019	CJR	1
Styrene	< 13	ug/l	13	42	50	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 19	ug/l	19	60.5	50	8260B		10/24/2019	CJR	1
Tetrahydrofuran	< 145	ug/l	145	461	50	8260B		10/24/2019	CJR	1
Toluene	21 "J"	ug/l	9.5	30	50	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	52.5	50	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 21	ug/l	21	66	50	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 15	ug/l	15	47	50	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 17.5	ug/l	17.5	55	50	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 10	ug/l	10	32.5	50	8260B		10/24/2019	CJR	1
m&p-Xylene	7600	ug/l	21.5	69	50	8260B		10/24/2019	CJR	1
o-Xylene	< 14.5	ug/l	14.5	46.5	50	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			50	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978DD

**Sample ID** W-42-19-4 262

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	93	REC %			50	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			50	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			50	8260B		10/24/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978EE  
 Sample ID W-47-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 6.4	ug/l	6.4	21.3	1	200.7		11/6/2019	ESC	1
Barium, Dissolved	55.7	ug/l	1	3.33	1	200.7		11/5/2019	ESC	1
Organic										
PCB'S										
PCB-1016	< 0.1	ug/l	0.1	0.333	1	EPA 8082		10/22/2019	ESC	1
PCB-1221	< 0.073	ug/l	0.073	0.243	1	EPA 8082		10/22/2019	ESC	1
PCB-1232	< 0.042	ug/l	0.042	0.14	1	EPA 8082		10/22/2019	ESC	1
PCB-1242	< 0.047	ug/l	0.047	0.157	1	EPA 8082		10/22/2019	ESC	1
PCB-1248	< 0.086	ug/l	0.086	0.287	1	EPA 8082		10/22/2019	ESC	1
PCB-1254	< 0.047	ug/l	0.047	0.157	1	EPA 8082		10/22/2019	ESC	1
PCB-1260	< 0.12	ug/l	0.12	0.4	1	EPA 8082		10/22/2019	ESC	1
Semi Volatiles										
Acetophenone	< 6.9	ug/l	6.9	21.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthene	< 6.7	ug/l	6.7	21.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthylene	< 9.1	ug/l	9.1	28.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Anthracene	< 7.8	ug/l	7.8	24.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)anthracene	< 6.5	ug/l	6.5	20.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)pyrene	< 7.1	ug/l	7.1	22.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(b)fluoranthene	< 5.4	ug/l	5.4	17.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(g,h,i)perylene	< 13.5	ug/l	13.5	43.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(k)fluoranthene	< 8.6	ug/l	8.6	27.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzyl Alcohol	< 7.8	ug/l	7.8	24.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Butyl benzyl phthalate	< 11.1	ug/l	11.1	35.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethoxy)methane	< 4.4	ug/l	4.4	14.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethyl)ether	< 9.3	ug/l	9.3	29.6	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroisopropyl)ether	< 9.4	ug/l	9.4	30	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-ethylhexyl)phthalate	< 15.4	ug/l	15.4	49.1	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Bromophenylphenyl ether	< 11	ug/l	11	35	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Chloro-3-methylphenol	< 7.5	ug/l	7.5	23.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Chloronaphthalene	< 8.4	ug/l	8.4	26.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Chlorophenol	< 10.1	ug/l	10.1	32.3	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Chlorophenylphenyl ether	< 13.3	ug/l	13.3	42.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Chrysene	< 8.2	ug/l	8.2	26	10	8270E	10/22/2019	10/22/2019	MJR	1
o-Cresol	< 3.8	ug/l	3.8	12.2	10	8270E	10/22/2019	10/22/2019	MJR	1
m & p-Cresol	< 5.4	ug/l	5.4	17.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzofuran	< 8.3	ug/l	8.3	26.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzo(a,h)anthracene	< 12.8	ug/l	12.8	40.6	10	8270E	10/22/2019	10/22/2019	MJR	1
1,4-Dichlorobenzene	< 6	ug/l	6	19	10	8270E	10/22/2019	10/22/2019	MJR	1
1,3-Dichlorobenzene	< 7.1	ug/l	7.1	22.4	10	8270E	10/22/2019	10/22/2019	MJR	1
1,2-Dichlorobenzene	< 7.3	ug/l	7.3	23.1	10	8270E	10/22/2019	10/22/2019	MJR	1
3,3'-Dichlorobenzidine	< 11.6	ug/l	11.6	37	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dichlorophenol	< 9.6	ug/l	9.6	30.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Diethyl phthalate	< 12.5	ug/l	12.5	39.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Dimethyl phthalate	< 7.6	ug/l	7.6	24.3	10	8270E	10/22/2019	10/22/2019	MJR	1



Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978EE  
 Sample ID W-47-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
2,4-Dimethylphenol	293	ug/l	10.9	34.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-butyl phthalate	< 9.3	ug/l	9.3	29.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrophenol	< 106.7	ug/l	106.7	339.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,6-Dinitrotoluene	< 13.9	ug/l	13.9	44.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrotoluene	< 16.4	ug/l	16.4	52	10	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-octyl phthalate	< 10.4	ug/l	10.4	33.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Diphenylamine	< 9.4	ug/l	9.4	29.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Fluoranthene	< 6.6	ug/l	6.6	21.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Fluorene	< 16	ug/l	16	51	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobenzene	< 6.6	ug/l	6.6	21.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobutadiene	< 5.4	ug/l	5.4	17.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorocyclopentadiene	< 54.7	ug/l	54.7	174	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachloroethane	< 10.2	ug/l	10.2	32.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Indeno(1,2,3-cd)pyrene	< 20.9	ug/l	20.9	66.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Isophorone	< 7.3	ug/l	7.3	23.3	10	8270E	10/22/2019	10/22/2019	MJR	1
1-Methyl naphthalene	< 7.4	ug/l	7.4	23.4	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl naphthalene	< 8.4	ug/l	8.4	26.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl-4,6-dinitrophenol	< 3.2	ug/l	3.2	10.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Naphthalene	9.2 "J"	ug/l	7.3	23.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitroaniline	< 11.9	ug/l	11.9	37.9	10	8270E	10/22/2019	10/22/2019	MJR	1
3-Nitroaniline	< 26.3	ug/l	26.3	83.5	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitroaniline	< 21.2	ug/l	21.2	67.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene	< 5.2	ug/l	5.2	16.5	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitrophenol	< 19.3	ug/l	19.3	61.5	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitrophenol	< 17.6	ug/l	17.6	56.1	10	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodimethylamine	< 6.1	ug/l	6.1	19.5	10	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodi-n-propylamine	< 6.9	ug/l	6.9	22.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Pentachlorophenol (PCP)	< 18.4	ug/l	18.4	58.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Phenanthrene	< 6.5	ug/l	6.5	20.6	10	8270E	10/22/2019	10/22/2019	MJR	1
Phenol	< 10	ug/l	10	31.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Pyrene	< 6.4	ug/l	6.4	20.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Pyridine	< 4	ug/l	4	12.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,3,4,6-Tetrachlorophenol	< 13.2	ug/l	13.2	42	10	8270E	10/22/2019	10/22/2019	MJR	1
1,2,4-Trichlorobenzene	< 8.2	ug/l	8.2	26	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,5-Trichlorophenol	< 10.3	ug/l	10.3	32.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Trichlorophenol	< 11	ug/l	11	35	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorobiphenyl-surrogate	82	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorophenol-surrogate	73	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene-d5-surrogate	74	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
Phenol-d6-surrogate	66	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
p-Terphenyl-d14-surrogate	113	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Tribromophenol-surrogate	100	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
VOC's										
Isobutanol	< 780	ug/l	780	2500	100	8260B		10/24/2019	CJR	1
Acetonitrile	< 388	ug/l	388	1240	100	8260B		10/24/2019	CJR	1
Methylacrylonitrile	< 46	ug/l	46	150	100	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978EE  
**Sample ID** W-47-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Propionitrile	< 190	ug/l	190	600	100	8260B		10/24/2019	CJR	1
Acetone	< 501	ug/l	501	1590	100	8260B		10/24/2019	CJR	1
Allyl chloride	< 90	ug/l	90	288	100	8260B		10/24/2019	CJR	1
Benzene	< 22	ug/l	22	71	100	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 33	ug/l	33	106	100	8260B		10/24/2019	CJR	1
Bromoform	< 45	ug/l	45	144	100	8260B		10/24/2019	CJR	1
Bromomethane	< 99	ug/l	99	315	100	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 29	ug/l	29	92	100	8260B		10/24/2019	CJR	1
Carbon Tetrachloride	< 31	ug/l	31	98	100	8260B		10/24/2019	CJR	1
Chlorobenzene	< 26	ug/l	26	83	100	8260B		10/24/2019	CJR	1
Chloroethane	< 61	ug/l	61	195	100	8260B		10/24/2019	CJR	1
Chloroform	< 26	ug/l	26	82	100	8260B		10/24/2019	CJR	1
Chloromethane	< 54	ug/l	54	172	100	8260B		10/24/2019	CJR	1
Chloroprene	< 57	ug/l	57	180	100	8260B		10/24/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 296	ug/l	296	943	100	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 22	ug/l	22	69	100	8260B		10/24/2019	CJR	1
Dibromomethane	< 43	ug/l	43	138	100	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 70	ug/l	70	222	100	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 85	ug/l	85	270	100	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 86	ug/l	86	274	100	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 32	ug/l	32	102	100	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 25	ug/l	25	78	100	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 36	ug/l	36	114	100	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 42	ug/l	42	134	100	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 37	ug/l	37	116	100	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 34	ug/l	34	107	100	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 44	ug/l	44	139	100	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 32	ug/l	32	101	100	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 26	ug/l	26	81	100	8260B		10/24/2019	CJR	1
1,4-Dioxane	< 889.9999	ug/l	890	2800	100	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 34	ug/l	34	109	100	8260B		10/24/2019	CJR	1
Ethyl Methacrylate	< 600	ug/l	600	1900	100	8260B		10/24/2019	CJR	1
Ethylbenzene	81 "J"	ug/l	26	83	100	8260B		10/24/2019	CJR	1
Hexachlorobutadiene	< 134	ug/l	134	428	100	8260B		10/24/2019	CJR	1
2-Hexanone	< 144	ug/l	144	459	100	8260B		10/24/2019	CJR	2
Iodomethane	< 144	ug/l	144	457	100	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 417	ug/l	417	1330	100	8260B		10/24/2019	CJR	1
Methyl isobutyl ketone (MIBK)	< 395	ug/l	395	1260	100	8260B		10/24/2019	CJR	1
Methyl Methacrylate	< 640	ug/l	640	2000	100	8260B		10/24/2019	CJR	1
Methylene chloride	< 132	ug/l	132	421	100	8260B		10/24/2019	CJR	1
Styrene	< 26	ug/l	26	84	100	8260B		10/24/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 30	ug/l	30	97	100	8260B		10/24/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 35	ug/l	35	113	100	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 38	ug/l	38	121	100	8260B		10/24/2019	CJR	1
Toluene	< 19	ug/l	19	60	100	8260B		10/24/2019	CJR	1
1,2,4-Trichlorobenzene	< 115	ug/l	115	367	100	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978EE  
**Sample ID** W-47-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,1-Trichloroethane	< 33	ug/l	33	105	100	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 42	ug/l	42	132	100	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 30	ug/l	30	94	100	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 35	ug/l	35	110	100	8260B		10/24/2019	CJR	1
1,2,3-Trichloropropane	< 83	ug/l	83	264	100	8260B		10/24/2019	CJR	1
Vinyl acetate	< 226	ug/l	226	719	100	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 20	ug/l	20	65	100	8260B		10/24/2019	CJR	1
m&p-Xylene	2880	ug/l	43	138	100	8260B		10/24/2019	CJR	1
o-Xylene	74 "J"	ug/l	29	93	100	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	102	REC %			100	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	91	REC %			100	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	91	REC %			100	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			100	8260B		10/24/2019	CJR	1

**Lab Code** 536978FF  
**Sample ID** DUP6-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PCB'S										
PCB-1016	< 0.1	ug/l	0.1	0.333	1	EPA 8082		10/22/2019	ESC	1
PCB-1221	< 0.073	ug/l	0.073	0.243	1	EPA 8082		10/22/2019	ESC	1
PCB-1232	< 0.042	ug/l	0.042	0.14	1	EPA 8082		10/22/2019	ESC	1
PCB-1242	< 0.047	ug/l	0.047	0.157	1	EPA 8082		10/22/2019	ESC	1
PCB-1248	< 0.086	ug/l	0.086	0.287	1	EPA 8082		10/22/2019	ESC	1
PCB-1254	< 0.047	ug/l	0.047	0.157	1	EPA 8082		10/22/2019	ESC	1
PCB-1260	< 0.12	ug/l	0.12	0.4	1	EPA 8082		10/22/2019	ESC	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978GG  
**Sample ID** W-43-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Arsenic, Dissolved	< 6.4	ug/l	6.4	21.3	1	200.7		11/6/2019	ESC	1
Barium, Dissolved	9.77	ug/l	1	3.33	1	200.7		11/5/2019	ESC	1
Organic										
Semi Volatiles										
Acetophenone	< 6.9	ug/l	6.9	21.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthene	< 6.7	ug/l	6.7	21.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Acenaphthylene	< 9.1	ug/l	9.1	28.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Anthracene	< 7.8	ug/l	7.8	24.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)anthracene	< 6.5	ug/l	6.5	20.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(a)pyrene	< 7.1	ug/l	7.1	22.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(b)fluoranthene	< 5.4	ug/l	5.4	17.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(g,h,i)perylene	< 13.5	ug/l	13.5	43.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzo(k)fluoranthene	< 8.6	ug/l	8.6	27.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Benzyl Alcohol	< 7.8	ug/l	7.8	24.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Butyl benzyl phthalate	< 11.1	ug/l	11.1	35.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethoxy)methane	< 4.4	ug/l	4.4	14.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroethyl)ether	< 9.3	ug/l	9.3	29.6	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-chloroisopropyl)ether	< 9.4	ug/l	9.4	30	10	8270E	10/22/2019	10/22/2019	MJR	1
Bis(2-ethylhexyl)phthalate	< 15.4	ug/l	15.4	49.1	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Bromophenylphenyl ether	< 11	ug/l	11	35	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Chloro-3-methylphenol	< 7.5	ug/l	7.5	23.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Chloronaphthalene	< 8.4	ug/l	8.4	26.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Chlorophenol	< 10.1	ug/l	10.1	32.3	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Chlorophenylphenyl ether	< 13.3	ug/l	13.3	42.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Chrysene	< 8.2	ug/l	8.2	26	10	8270E	10/22/2019	10/22/2019	MJR	1
o-Cresol	< 3.8	ug/l	3.8	12.2	10	8270E	10/22/2019	10/22/2019	MJR	1
m & p-Cresol	< 5.4	ug/l	5.4	17.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzofuran	< 8.3	ug/l	8.3	26.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Dibenzo(a,h)anthracene	< 12.8	ug/l	12.8	40.6	10	8270E	10/22/2019	10/22/2019	MJR	1
1,4-Dichlorobenzene	< 6	ug/l	6	19	10	8270E	10/22/2019	10/22/2019	MJR	1
1,3-Dichlorobenzene	< 7.1	ug/l	7.1	22.4	10	8270E	10/22/2019	10/22/2019	MJR	1
1,2-Dichlorobenzene	< 7.3	ug/l	7.3	23.1	10	8270E	10/22/2019	10/22/2019	MJR	1
3,3'-Dichlorobenzidine	< 11.6	ug/l	11.6	37	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dichlorophenol	< 9.6	ug/l	9.6	30.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Diethyl phthalate	< 12.5	ug/l	12.5	39.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Dimethyl phthalate	< 7.6	ug/l	7.6	24.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dimethylphenol	< 10.9	ug/l	10.9	34.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-butyl phthalate	< 9.3	ug/l	9.3	29.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrophenol	< 106.7	ug/l	106.7	339.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,6-Dinitrotoluene	< 13.9	ug/l	13.9	44.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4-Dinitrotoluene	< 16.4	ug/l	16.4	52	10	8270E	10/22/2019	10/22/2019	MJR	1
Di-n-octyl phthalate	< 10.4	ug/l	10.4	33.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Diphenylamine	< 9.4	ug/l	9.4	29.9	10	8270E	10/22/2019	10/22/2019	MJR	1
Fluoranthene	< 6.6	ug/l	6.6	21.1	10	8270E	10/22/2019	10/22/2019	MJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978GG  
**Sample ID** W-43-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Fluorene	< 16	ug/l	16	51	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobenzene	< 6.6	ug/l	6.6	21.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorobutadiene	< 5.4	ug/l	5.4	17.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachlorocyclopentadiene	< 54.7	ug/l	54.7	174	10	8270E	10/22/2019	10/22/2019	MJR	1
Hexachloroethane	< 10.2	ug/l	10.2	32.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Indeno(1,2,3-cd)pyrene	< 20.9	ug/l	20.9	66.3	10	8270E	10/22/2019	10/22/2019	MJR	1
Isophorone	< 7.3	ug/l	7.3	23.3	10	8270E	10/22/2019	10/22/2019	MJR	1
1-Methyl naphthalene	< 7.4	ug/l	7.4	23.4	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl naphthalene	< 8.4	ug/l	8.4	26.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Methyl-4,6-dinitrophenol	< 3.2	ug/l	3.2	10.2	10	8270E	10/22/2019	10/22/2019	MJR	1
Naphthalene	< 7.3	ug/l	7.3	23.3	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitroaniline	< 11.9	ug/l	11.9	37.9	10	8270E	10/22/2019	10/22/2019	MJR	1
3-Nitroaniline	< 26.3	ug/l	26.3	83.5	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitroaniline	< 21.2	ug/l	21.2	67.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene	< 5.2	ug/l	5.2	16.5	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Nitrophenol	< 19.3	ug/l	19.3	61.5	10	8270E	10/22/2019	10/22/2019	MJR	1
4-Nitrophenol	< 17.6	ug/l	17.6	56.1	10	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodimethylamine	< 6.1	ug/l	6.1	19.5	10	8270E	10/22/2019	10/22/2019	MJR	1
n-Nitrosodi-n-propylamine	< 6.9	ug/l	6.9	22.1	10	8270E	10/22/2019	10/22/2019	MJR	1
Pentachlorophenol (PCP)	< 18.4	ug/l	18.4	58.5	10	8270E	10/22/2019	10/22/2019	MJR	1
Phenanthrene	< 6.5	ug/l	6.5	20.6	10	8270E	10/22/2019	10/22/2019	MJR	1
Phenol	< 10	ug/l	10	31.8	10	8270E	10/22/2019	10/22/2019	MJR	1
Pyrene	< 6.4	ug/l	6.4	20.4	10	8270E	10/22/2019	10/22/2019	MJR	1
Pyridine	< 4	ug/l	4	12.6	10	8270E	10/22/2019	10/22/2019	MJR	1
2,3,4,6-Tetrachlorophenol	< 13.2	ug/l	13.2	42	10	8270E	10/22/2019	10/22/2019	MJR	1
1,2,4-Trichlorobenzene	< 8.2	ug/l	8.2	26	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,5-Trichlorophenol	< 10.3	ug/l	10.3	32.7	10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Trichlorophenol	< 11	ug/l	11	35	10	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorobiphenyl-surrogate	84	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
2-Fluorophenol-surrogate	71	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
Nitrobenzene-d5-surrogate	76	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
Phenol-d6-surrogate	58	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
p-Terphenyl-d14-surrogate	112	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
2,4,6-Tribromophenol-surrogate	91	REC %			10	8270E	10/22/2019	10/22/2019	MJR	1
<b>VOC's</b>										
Propionitrile	< 1.9	ug/l	1.9	6	1	8260B		10/24/2019	CJR	1
Methylacrylonitrile	< 0.46	ug/l	0.46	1.5	1	8260B		10/24/2019	CJR	1
Isobutanol	< 7.8	ug/l	7.8	25	1	8260B		10/24/2019	CJR	1
Acetonitrile	< 3.88	ug/l	3.88	12.4	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Allyl chloride	< 0.9	ug/l	0.9	2.88	1	8260B		10/24/2019	CJR	1
Benzene	0.81	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	0.39 "J"	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
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Invoice # E36978

Lab Code 536978GG  
Sample ID W-43-19-4  
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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Chloroprene	< 0.57	ug/l	0.57	1.8	1	8260B		10/24/2019	CJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
1,4-Dioxane	< 8.9	ug/l	8.9	28	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethyl Methacrylate	< 6	ug/l	6	19	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		10/24/2019	CJR	1
2-Hexanone	< 1.44	ug/l	1.44	4.59	1	8260B		10/24/2019	CJR	1
Iodomethane	< 1.44	ug/l	1.44	4.57	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methyl isobutyl ketone (MIBK)	< 3.95	ug/l	3.95	12.6	1	8260B		10/24/2019	CJR	1
Methyl Methacrylate	< 6.4	ug/l	6.4	20	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		10/24/2019	CJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
1,2,3-Trichloropropane	< 0.83	ug/l	0.83	2.64	1	8260B		10/24/2019	CJR	1
Vinyl acetate	< 2.26	ug/l	2.26	7.19	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
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**Lab Code** 536978GG

**Sample ID** W-43-19-4 263

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		10/24/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978HH  
 Sample ID W-38-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 29.6	ug/l	29.6	94.3	10	8260B		10/23/2019	CJR	1
Acetone	< 50.1	ug/l	50.1	159	10	8260B		10/23/2019	CJR	1
Benzene	1220	ug/l	2.2	7.1	10	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 3.3	ug/l	3.3	10.6	10	8260B		10/23/2019	CJR	1
Bromoform	< 4.5	ug/l	4.5	14.4	10	8260B		10/23/2019	CJR	1
Bromomethane	< 9.9	ug/l	9.9	31.5	10	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 2.9	ug/l	2.9	9.2	10	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 3.1	ug/l	3.1	9.8	10	8260B		10/23/2019	CJR	1
Chlorobenzene	< 2.6	ug/l	2.6	8.3	10	8260B		10/23/2019	CJR	1
Chloroethane	< 6.1	ug/l	6.1	19.5	10	8260B		10/23/2019	CJR	1
Chloroform	< 2.6	ug/l	2.6	8.2	10	8260B		10/23/2019	CJR	1
Chloromethane	< 5.4	ug/l	5.4	17.2	10	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 2.2	ug/l	2.2	6.9	10	8260B		10/23/2019	CJR	1
Dibromomethane	< 4.3	ug/l	4.3	13.8	10	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 7	ug/l	7	22.2	10	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 8.5	ug/l	8.5	27	10	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 8.6	ug/l	8.6	27.4	10	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 3.2	ug/l	3.2	10.2	10	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 2.5	ug/l	2.5	7.8	10	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 3.6	ug/l	3.6	11.4	10	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 4.2	ug/l	4.2	13.4	10	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 3.7	ug/l	3.7	11.6	10	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 3.4	ug/l	3.4	10.7	10	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 4.4	ug/l	4.4	13.9	10	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 3.2	ug/l	3.2	10.1	10	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 2.6	ug/l	2.6	8.1	10	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 3.4	ug/l	3.4	10.9	10	8260B		10/23/2019	CJR	1
Ethylbenzene	< 2.6	ug/l	2.6	8.3	10	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 41.7	ug/l	41.7	133	10	8260B		10/23/2019	CJR	1
Methylene chloride	< 13.2	ug/l	13.2	42.1	10	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 2.8	ug/l	2.8	8.9	10	8260B		10/23/2019	CJR	1
Naphthalene	< 21	ug/l	21	66.5	10	8260B		10/23/2019	CJR	1
Styrene	< 2.6	ug/l	2.6	8.4	10	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 3.8	ug/l	3.8	12.1	10	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 29	ug/l	29	92.2	10	8260B		10/23/2019	CJR	1
Toluene	< 1.9	ug/l	1.9	6	10	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 3.3	ug/l	3.3	10.5	10	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 4.2	ug/l	4.2	13.2	10	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 3	ug/l	3	9.4	10	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 3.5	ug/l	3.5	11	10	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 2	ug/l	2	6.5	10	8260B		10/23/2019	CJR	1
m&p-Xylene	< 4.3	ug/l	4.3	13.8	10	8260B		10/23/2019	CJR	1
o-Xylene	< 2.9	ug/l	2.9	9.3	10	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	94	REC %			10	8260B		10/23/2019	CJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978HH

**Sample ID** W-38-19-4 220

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	103	REC %			10	8260B		10/23/2019	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			10	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			10	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978II  
**Sample ID** W-20-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978II

**Sample ID** W-20-19-4 259

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	95	REC %			1	8260B		10/23/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978JJ

**Sample ID** PW-08-19-4 205

**Sample Matrix** Water

**Sample Date** 10/16/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978JJ

**Sample ID** PW-08-19-4 205

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		10/23/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978KK

Sample ID W-19A-19-4 258

Sample Matrix Water

Sample Date 10/16/2019

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	8.3	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	11.7	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	0.20 "J"	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	108	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978KK

**Sample ID** W-19A-19-4 258

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	95	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	106	REC %			1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978LL  
 Sample ID DUP4-19-4  
 Sample Matrix Water  
 Sample Date 10/16/2019

258

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	7.8	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/24/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	10.8	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	0.22 "J"	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		10/24/2019	CJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978LL  
**Sample ID** DUP4-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978MM  
**Sample ID** TB2-19-4  
**Sample Matrix** Water  
**Sample Date** 10/16/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/23/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978MM

**Sample ID** TB2-19-4 999

**Sample Matrix** Water

**Sample Date** 10/16/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	101	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978NN  
 Sample ID W-16-19-4  
 Sample Matrix Water  
 Sample Date 10/17/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/24/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978NN

**Sample ID** W-16-19-4 256

**Sample Matrix** Water

**Sample Date** 10/17/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Dibromofluoromethane	104	REC %			1	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 53697800  
**Sample ID** W-40-19-4  
**Sample Matrix** Water  
**Sample Date** 10/17/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/24/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 53697800

**Sample ID** W-40-19-4 222

**Sample Matrix** Water

**Sample Date** 10/17/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - Toluene-d8	92	REC %			1	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978PP  
**Sample ID** TB3-19-4  
**Sample Matrix** Water  
**Sample Date** 10/17/2019

999

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/23/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/23/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/23/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/23/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/23/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/23/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/23/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/23/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/23/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/23/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/23/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/23/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/23/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/23/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/23/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/23/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/23/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/23/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/23/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/23/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/23/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/23/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/23/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/23/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/23/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/23/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/23/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/23/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/23/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/23/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/23/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/23/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/23/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/23/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/23/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/23/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/23/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/23/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/23/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/23/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		10/23/2019	CJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978PP

**Sample ID** TB3-19-4 999

**Sample Matrix** Water

**Sample Date** 10/17/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		10/23/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		10/23/2019	CJR	1
SUR - Toluene-d8	97	REC %			1	8260B		10/23/2019	CJR	1

Project Name ARKEMA-SAUKVILLE  
 Project # 341-001-007:005

Invoice # E36978

Lab Code 536978QQ  
 Sample ID W-27-19-4  
 Sample Matrix Water  
 Sample Date 10/17/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	6.1	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/24/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	0.59 "J"	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	67	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978QQ

**Sample ID** W-27-19-4 260

**Sample Matrix** Water

**Sample Date** 10/17/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978RR  
**Sample ID** W-22-19-4  
**Sample Matrix** Water  
**Sample Date** 10/17/2019

214

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/24/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978RR

**Sample ID** W-22-19-4 214

**Sample Matrix** Water

**Sample Date** 10/17/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	96	REC %			1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	104	REC %			1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978SS  
**Sample ID** W-03A-19-4  
**Sample Matrix** Water  
**Sample Date** 10/17/2019

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	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/24/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978SS  
**Sample ID** W-03A-19-4 211  
**Sample Matrix** Water  
**Sample Date** 10/17/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	94	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978TT  
**Sample ID** DUP3-19-4  
**Sample Matrix** Water  
**Sample Date** 10/17/2019

211

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/24/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		10/24/2019	CJR	1



**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978TT

**Sample ID** DUP3-19-4 211

**Sample Matrix** Water

**Sample Date** 10/17/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978UU  
**Sample ID** W-03B-19-4  
**Sample Matrix** Water  
**Sample Date** 10/17/2019

251

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		10/24/2019	CJR	1
Acetone	< 5.01	ug/l	5.01	15.9	1	8260B		10/24/2019	CJR	1
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		10/24/2019	CJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		10/24/2019	CJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		10/24/2019	CJR	1
Bromomethane	< 0.99	ug/l	0.99	3.15	1	8260B		10/24/2019	CJR	1
Carbon Disulfide	< 0.29	ug/l	0.29	0.92	1	8260B		10/24/2019	CJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		10/24/2019	CJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		10/24/2019	CJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		10/24/2019	CJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		10/24/2019	CJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		10/24/2019	CJR	1
Dibromomethane	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		10/24/2019	CJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		10/24/2019	CJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		10/24/2019	CJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		10/24/2019	CJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		10/24/2019	CJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		10/24/2019	CJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		10/24/2019	CJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		10/24/2019	CJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		10/24/2019	CJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		10/24/2019	CJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		10/24/2019	CJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		10/24/2019	CJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		10/24/2019	CJR	1
Methyl ethyl ketone (MEK)	< 4.17	ug/l	4.17	13.3	1	8260B		10/24/2019	CJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		10/24/2019	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		10/24/2019	CJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		10/24/2019	CJR	1
Styrene	< 0.26	ug/l	0.26	0.84	1	8260B		10/24/2019	CJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		10/24/2019	CJR	1
Tetrahydrofuran	< 2.9	ug/l	2.9	9.22	1	8260B		10/24/2019	CJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		10/24/2019	CJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		10/24/2019	CJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		10/24/2019	CJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		10/24/2019	CJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		10/24/2019	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		10/24/2019	CJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		10/24/2019	CJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		10/24/2019	CJR	1
SUR - Toluene-d8	95	REC %			1	8260B		10/24/2019	CJR	1

**Project Name** ARKEMA-SAUKVILLE  
**Project #** 341-001-007:005

**Invoice #** E36978

**Lab Code** 536978UU  
**Sample ID** W-03B-19-4 251  
**Sample Matrix** Water  
**Sample Date** 10/17/2019

	<b>Result</b>	<b>Unit</b>	<b>LOD</b>	<b>LOQ</b>	<b>Dil</b>	<b>Method</b>	<b>Ext Date</b>	<b>Run Date</b>	<b>Analyst</b>	<b>Code</b>
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		10/24/2019	CJR	1
SUR - 4-Bromofluorobenzene	94	REC %			1	8260B		10/24/2019	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		10/24/2019	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

***Code***      ***Comment***

- 1      Laboratory QC within limits.
- 2      Relative percent difference failed for laboratory spiked samples.
- 3      The matrix spike not within established limits.

ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

**Authorized Signature**



Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
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Chain # **No. 320**  
Page **1** of **5**

**Sample Handling Request**  
Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No.: \_\_\_\_\_  
Quote No.: \_\_\_\_\_  
Project #: **341-001-007:005**  
Sampler: (signature) *Tim Petruk*

Project (Name / Location): **Arkema - Saukville**

Reports To: **Tim Petruk**  
Company: **Endpoint Solutions**  
Address: **6871 S. Lovens Lane**  
City State Zip: **Franklin, WI**  
Phone: **414 858 1210**  
FAX: \_\_\_\_\_

Invoice To: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City State Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_

Analysis Requested		Other Analysis	
DRO (Mod DRO Sep 95)			
GRO (Mod GRO Sep 95)			
LEAD			
NITRATE/NITRITE			
OIL & GREASE			
PAH (EPA 8270)			
PCB			
PVOC (EPA 8021)			
PVOC + NAPHTHALENE			
SULFATE			
TOTAL SUSPENDED SOLIDS			
VOC DW (EPA 524.2)			
VOC (EPA 8260)			
8-RCRA METALS			

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	PID/ FID
5036739A	RCW-E-19-4	10/15	730		X	N	3	GW	HCl	
	B RCW-1-19-4		735							
	C RCW-S-19-4		740							
	D MW-3-19-4		745							
	E MW-1-19-4		753							
	F MW-4-19-4		810							
	G DUP-19-4									
	H Trip Blank-19-4									
	I RC-3-19-4		815							
	J RC-1-19-4		820							

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)  
**Need: Level IV QA/QC**  
**USE Narrative**  
**WDNR EDD**  
**DUP 6-19-4 VOC vials not recd - can 10/17/19**

Sample Integrity - To be completed by receiving lab.  
Method of Shipment: **Se**  
Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice:   
Cooler seal intact upon receipt:  Yes \_\_\_\_\_ No

Received in Laboratory By: *Cheryl Rose* Time: **8:00** Date: **10/18/19**

Retinquished By: (sign) *Tim Petruk* Time: **13:00** Date: **10/17/19**  
Received By: (sign) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_



Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914  
 920-830-2455 • FAX 920-733-0631

**Sample Handling Request**  
 Rush Analysis Date Required \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_ Quote No.: \_\_\_\_\_  
 Account No.: \_\_\_\_\_  
 Project #: **341-001-007:005**  
 Sampler: (signature) **Tim Petrick**  
 Project (Name / Location): **Ar Verna - Sawville**  
 Reports To: **Tim Petrick**  
 Company: **Endpoint Solutions**  
 Address: **6871 S. Levers Lane**  
 City State Zip: **Franklin, WI**  
 Phone: **414 858 1210**  
 FAX: \_\_\_\_\_

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
5056938K	PS-2-19-4-1615	8:25			X	N	3	GW	HCL
	L W-21A-19-4	10:45			X	Y	5		H2O2
	W W-20A-19-4	10:50			X	Y	5		H2O2
	N W-29A-19-4	10:55			X	Y	5		H2O2
	O W-07-19-4	11:10			X	Y	3		H2O2
	P W-08-19-4	11:15			X	Y	3		H2O2
	Q W-09-19-4	11:30			X	Y	3		H2O2
	R W-01A-11-4	12:50			X	Y	5		H2O2
	S W-30-19-4	13:00			X	Y	2		H2O2
	T DUPS-19-4				X	Y	2		H2O2

Analysis Requested		Other Analysis	
DRO (Mod DRO Sep 95)		8270 B	500CS
GRO (Mod GRO Sep 95)		metals	As, Ba
LEAD			
NITRATE/NITRITE			
OIL & GREASE			
PAH (EPA 8270)			
PCB			
PVOC (EPA 8021)			
PVOC + NAPHTHALENE			
SULFATE			
TOTAL SUSPENDED SOLIDS			
VOC DW (EPA 524.2)			
VOC (EPA 8260)			
8-RCRA METALS			

Comments/Special Instructions ('Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)  
**Need: Level III QA/QC**  
**Case Narrative**  
**WDRR EDD**

Sample Integrity - To be completed by receiving lab.  
 Method of Shipment: **Ce**  
 Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice: **X**  
 Cooler seal intact upon receipt: **X** Yes \_\_\_\_\_ No

Received in Laboratory By: (sign) \_\_\_\_\_ Time: **8:08** Date: **10/18/19**

Received By: (sign) \_\_\_\_\_ Time: **13:00** Date: **10/17/19**







## Environmental Lab, Inc.

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Chain # **No 3273**  
Page **4** of **5**

**Sample Handling Request**  
Rush Analysis Date Required \_\_\_\_\_  
(Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_  
Account No.: \_\_\_\_\_ Quote No.: \_\_\_\_\_  
Project #: **341-001-007:605**  
Sampler: (signature) *Tim Petrick*  
Project (Name / Location): **Arikema - Saukville**  
Reports To: **Tim Petrick**  
Company: **Endpoint Solutions**  
Address: **6871 S. Weyers Lane**  
City/State/Zip: **Franklin, WI**  
Phone: **414 858 1210**  
FAX: \_\_\_\_\_

Invoice To: \_\_\_\_\_  
Company: \_\_\_\_\_  
Address: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_  
FAX: \_\_\_\_\_

Analysis Requested		Other Analysis	
<input type="checkbox"/>	DRO (Mod DRO Sep 95)	<input type="checkbox"/>	
<input type="checkbox"/>	GRO (Mod GRO Sep 95)	<input type="checkbox"/>	
<input type="checkbox"/>	LEAD	<input type="checkbox"/>	
<input type="checkbox"/>	NITRATE/NITRITE	<input type="checkbox"/>	
<input type="checkbox"/>	OIL & GREASE	<input type="checkbox"/>	
<input type="checkbox"/>	PAH (EPA 8270)	<input type="checkbox"/>	
<input type="checkbox"/>	PCB	<input type="checkbox"/>	
<input type="checkbox"/>	PVOC (EPA 8021)	<input type="checkbox"/>	
<input type="checkbox"/>	PVOC + NAPHTHALENE	<input type="checkbox"/>	
<input type="checkbox"/>	SULFATE	<input type="checkbox"/>	
<input type="checkbox"/>	TOTAL SUSPENDED SOLIDS	<input type="checkbox"/>	
<input type="checkbox"/>	VOC DW (EPA 524.2)	<input type="checkbox"/>	
<input type="checkbox"/>	VOC (EPA 8260)	<input type="checkbox"/>	
<input type="checkbox"/>	8-RCRA METALS	<input type="checkbox"/>	
<input type="checkbox"/>		<input checked="" type="checkbox"/>	SVOC
<input type="checkbox"/>		<input checked="" type="checkbox"/>	metals As, Ba
<input type="checkbox"/>		<input checked="" type="checkbox"/>	PCB

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)	Preservation	PID/ FID
53617392C	W-41-19-4	10/16	1005		X	Y	6	GW	HD thurs	
FF	DUP6-19-4				X		1	GW	HD thurs	
LG	W-43-19-4		1050				1			
HH	W-38-19-4		1055				1			
II	W-20-19-4		1215				1			
IS	PW-08-19-4		1310				1			
KK	W-19A-19-4		1320				1			
LL	DUP4-19-4						1			
MM	TS2-19-4						1			
NN	W-16-19-4	10/17	145				3			

Comments/Special Instructions (\*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

**Need: Level IV QA, QC**  
**Case Narrative**  
**WDRP EDD**

Sample Integrity - To be completed by receiving lab  
Method of Shipment: *Ice*  
Temp. of Temp. Blank \_\_\_\_\_ °C On Ice:   
Cooler seal intact upon receipt:  Yes  No

Received in Laboratory By: (sign) *[Signature]* Time: **1300** Date: **10/17/19**  
Received By: (sign) \_\_\_\_\_ Time: \_\_\_\_\_ Date: \_\_\_\_\_  
Received in Laboratory By: (sign) *[Signature]* Time: **8:00** Date: **10/18/19**



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**Sample Handling Request**  
 Rush Analysis Date Required \_\_\_\_\_  
 (Rushes accepted only with prior authorization)  
 Normal Turn Around

Lab I.D. # \_\_\_\_\_  
 Account No.: \_\_\_\_\_  
 Quote No.: \_\_\_\_\_

Project #: **341-001-007:005**  
 Sampler: (signature) *Tim Felbrick*

Project (Name / Location): **Arkema - Saukville**

Reports To: **Tim Felbrick**

Company: **Endpoint Solutions**

Address: **6871 S. Lovers Lane**

City State Zip: **Franklin WI**

Phone: **414 858 1210**

FAX: \_\_\_\_\_

Invoice To: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City State Zip: **SMR**

Phone: \_\_\_\_\_

FAX: \_\_\_\_\_

**Analysis Requested** **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	8-RCRA METALS	PID/ FID
53697800	W-40-19-4	10/17	800		X	D	3	GW	HD															
	RP	TS-3-19-4																						
	QQ	W-27-19-4																						
	RR	W-22-19-4																						
	SS	W-03A-19-4																						
	TT	DUP3-19-4																						
	UU	W-03B-19-4																						

Comments/Special Instructions ("Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

**Need: level III QA/QC**  
**Case Narrative**  
**WDRR EDD**

Sample Integrity - To be completed by receiving lab.

Method of Shipment: **GR**

Temp. of Temp. Blank: \_\_\_\_\_ °C On Ice:

Cooler seal intact upon receipt:  Yes \_\_\_\_\_ No

Retrieved By: (sign) *Tim F*

Time: **1300**

Date: **10/17/19**

Received By: (sign) \_\_\_\_\_

Time: \_\_\_\_\_

Date: \_\_\_\_\_

Received in Laboratory By: (sign) \_\_\_\_\_

Time: **8:00**

Date: **10/18/19**



## **APPENDIX C**

### QUALITY ASSURANCE / QUALITY CONTROL

## OVERALL SUMMARY OF DATA USABILITY

The content of the data packages, including raw data, sample custody records, and field and laboratory Quality Assurance/Quality Control (QA/QC) data were evaluated for consistency with United States Environmental Protection Agency (USEPA) protocol. The data was also evaluated for compliance with the Data Quality Objectives provided in the project-specific Quality Assurance Plan.

The data package validation procedures were based on the criteria outlined in the “Functional Guidelines for Organic Data Review”, (USEPA, 1999) and the “Contract Laboratory Program National Functional Guidelines for Inorganic Data Review”, (USEPA, 2002).

The analytical data is usable for this site as qualified.

Endpoint collected 37 field investigative, six (6) field duplicate water and two (2) trip blank samples between October 15 and 17, 2019. The samples were delivered via courier to Synergy Environmental Lab in Appleton, Wisconsin, in one (1) shipment arriving on October 18, 2019. The samples were identified as data set 5036978.

All analyses were performed at Synergy’s Appleton, Wisconsin laboratory (Wisconsin Certification #445037560).

### SW846 Method 8260B (VOCs):

<i>MW-1-19-4</i>	<i>MW-3-19-4</i>	<i>MW-4-19-4</i>	<i>POTW-I-19-4</i>
<i>POTW-E-19-4</i>	<i>POTW-S-19-4</i>	<i>RC-1-19-4</i>	<i>RC-2-19-4</i>
<i>RC-3-19-4</i>	<i>W-01A-19-4</i>	<i>W-03A-19-4</i>	<i>W-03B-19-4</i>
<i>W-04A-19-4</i>	<i>W-06A-19-4*</i>	<i>W-07-19-4</i>	<i>W-08R-19-4</i>
<i>W-16A-19-4</i>	<i>W-19A-19-4</i>	<i>W-20-19-4</i>	<i>W-21A-19-4*</i>
<i>W-22-19-4</i>	<i>W-23-19-4</i>	<i>W-24A-19-4*</i>	<i>W-27-19-4</i>
<i>W-29-19-4*</i>	<i>W-30-19-4*</i>	<i>W-38-19-4</i>	<i>W-40-19-4</i>
<i>W-41-19-4</i>	<i>W-42-19-4</i>	<i>W-43-19-4*</i>	<i>W-47-19-4*</i>
<i>W-49-19-4</i>	<i>W-50-19-4</i>	<i>W-51-19-4</i>	<i>W-52-19-4</i>
<i>PW-08-19-4</i>	<i>DUP1-19-4</i>	<i>DUP2-19-4</i>	<i>DUP3-19-4</i>
<i>DUP4-19-4</i>	<i>TB1-19-4</i>	<i>TB2-19-4*</i>	<i>TB3-19-4</i>

\* - Indicates Appendix IX list of parameters reported.

### SW846 Method 8270C (SVOCs):

<i>W-06A-19-4</i>	<i>W-24A-19-4</i>	<i>W-29-19-4</i>	<i>W-30-19-4</i>
<i>W-43-19-4</i>	<i>W-47-19-4</i>	<i>DUP5-19-4</i>	

### SW846 Method 200.7 (Metals):

<i>W-06A-19-4</i>	<i>W-24A-19-4</i>	<i>W-29-19-4</i>	<i>W-30-19-4</i>
<i>W-43-19-4</i>	<i>W-47-19-4</i>	<i>DUP5-19-4</i>	

SW846 Method 8082 (PCBs):

W-47-19-4

DUP6-19-4

Method blanks, matrix spike and matrix spike duplicates, control spike and control spike duplicates, and surrogate spike data were generated to determine precision and accuracy of the analytical methods.

**GC/MS ANALYSIS FOR VOLATILE COMPOUNDS (8260)**

Sample Receipt

All samples were received by the laboratory on ice.

Holding Times

All method holding times were met for sample preparation and sample analysis.

Calibration

All method acceptance criteria were met for initial and continuing verification calibration.

Method Blanks

Method blanks were analyzed to assess potential sample contamination resulting from laboratory procedures. A method blank (procedural blank) is carried through the same analytical steps (preparation and analysis) as the samples. All method acceptance criteria were met.

Field Duplicate Samples

Four (4) Field Duplicates were identified: DUP1-19-4, DUP2-19-4, DUP3-19-4 and DUP4-19-4. A comparison of the results of the duplicate samples to the parent samples is as follows.

DUP1-19-4/MW-4-19-4

No VOCs were detected above the MDLs in either the parent or duplicate sample.

DUP2-19-4/W-23-19-4

<b>Parameter</b>	<b>Parent (W-23-19-4)</b>	<b>Duplicate (DUP2-19-4)</b>
cis-1,2-dichloroethene	0.78 µg/L “J”	0.91 µg/L “J”
Benzene	0.28 µg/L “J”	0.26 µg/L “J”
Vinyl chloride	0.24 µg/L “J”	0.24 µg/L “J”

DUP3-19-4/W-03A-19-4

No VOCs were detected above the MDLs in either the parent or duplicate sample.

DUP4-19-4/W-19A-19-4

<b>Parameter</b>	<b>Parent (W-19A-19-4)</b>	<b>Duplicate (DUP4-19-4)</b>
TCE	11.7 µg/L	10.8 µg/L
cis-1,2-dichloroethene	8.3 µg/L	7.8 µg/L
Vinyl Chloride	0.20 µg/L “J”	0.22 µg/L “J”

The Field Duplicate results are acceptable.

Trip Blanks

Two (2) Trip Blank samples were analyzed. No VOC constituents were detected in either of the Trip Blank samples submitted.

Matrix Spike and Matrix Spike Duplicate

Matrix spike and matrix spike duplicate (MS/MSD) recoveries provide information about the effect of the sample matrix on the sample preparation and measurement performance. A matrix spike consists of a sample that is spiked with a group of target compounds representative of the method analytes and is carried through the appropriate steps of the analysis. MS/MSD analyses were performed on two (2) of the submitted samples (MW-1-19-4 and W-41-19-4).

All MS/MSD recoveries except bromomethane were within laboratory acceptance criteria. Bromomethane failed high in the continuing and closing calibration verifications. Bromomethane was not detected in any of the samples, therefore, bromomethane was not qualified on the reports.

Surrogate Spikes

Surrogates are system monitoring organic compounds that are similar to the analytes of interest in chemical behavior, but not normally found in environmental samples. Laboratory performance on individual samples was established by spiking field investigative samples, quality control samples, and laboratory blanks.

All percent surrogate recovery criteria were met for all of the samples analyzed.

Tuning

Bromofluorobenzene tune check analyses were performed throughout the analyses. The target ions and percent abundance for all tune checks were within USEPA established acceptance criteria. All field samples, quality assurance samples, and laboratory blanks were analyzed within the prescribed 12-hour tune window.

**GC/MS VALIDATION FOR SEMI-VOLATILE COMPOUNDS**

Holding Times

All samples were extracted within the USEPA requirement of seven (7) calendar days from time of sample collection, and analyzed within 40 days of extraction.

Method Blanks

All QA/QC parameters passed for EPA Method 8270.

Field Duplicate Sample

One (1) Field Duplicate was identified: DUP5-19-4. No SVOCs were detected above the MDLs in either the parent (W-30-19-4) or duplicate sample.

Matrix Spike and Matrix Spike Duplicate

MS/MSD analyses were performed and laboratory requirements were met.

Surrogate Spikes

All surrogate recoveries were within acceptance criteria.

Laboratory Control Samples

Laboratory control spike analysis recovery was within acceptable limits.

Calibration

All initial and continuing calibration requirements were met.

**ICP/MS ANALYSIS OF METALS**

Holding Times

All samples were digested and analyzed within the prescribed holding time of 180 days.

Method Blanks

All method acceptance criteria were met.

Matrix Spike and Matrix Spike Duplicate

MS/MSD samples were analyzed for arsenic and barium. Percent recoveries for the MS and MSD samples were within acceptable laboratory criteria.

Field Duplicate Samples

One (1) Field Duplicate was identified: DUP5-19-4. A comparison of the results of the duplicate sample to the parent sample is as follows.

DUP5-19-4/W-30-19-4

<b>Parameter</b>	<b>Parent (W-30-19-4)</b>	<b>Duplicate (DUP5-19-4)</b>
Barium	100 µg/L	99 µg/L
Arsenic	<6.4 µg/L	<6.4 µg/L

The duplicate results are acceptable.

#### Laboratory Control Samples

All laboratory control sample recoveries met acceptance criteria.

#### Initial and Continuing Calibration Verification

All initial and continuing calibration acceptance criteria were met.

#### **VALIDATION FOR POLYCHLORINATED BIPHENYLS**

##### Holding Times

All samples were analyzed within the prescribed holding time.

##### Method Blanks

Percent surrogate recoveries were within acceptable limits.

##### Field Duplicate Sample

One (1) Field Duplicate was identified: DUP6-19-4. No PCBs were detected above the MDLs in either the parent (W-47-19-4) or duplicate sample.

##### Surrogate Spikes

All surrogate recoveries were within acceptance criteria.

##### Laboratory Control Sample

Laboratory control spike analysis yielded percent recoveries within target criteria for all compounds.

##### Calibration

All initial and continuing calibration requirements were met.

***Endpoint Solutions***

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