

LONG TERM GROUNDWATER MONITORING PLAN

APPLETON WIRE (FORMER) 908 NORTH LAWE STREET APPLETON, WISCONSIN 54911 WDNR BRRTS #: 02-45-000015

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Date: 10/19/2017

HYDROGEOLOGIST CERTIFICATION

"I, Wayne P. Fassbender, certify I am a Hydrogeologist as that term is defined in s NR 712.03 (1) Wisconsin Administrative Code; and that to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements of chs. NR 700 to 726, Wisconsin Administrative Code."

Wayne P. Fassbender, P.G.

Document Reference: Long Term Groundwater Monitoring Plan

Appleton Wire (former)

908 N. Lawe Street, Appleton, Wisconsin

October 26, 2017

Long Term Groundwater Monitoring Plan

1.0 INTRODUCTION

EnviroForensics, LLC (EnviroForensics) has been contracted by Albany International Corp. (Albany) to evaluate past investigative data collected by various consultants at the former Appleton Wire facility located at 908 N. Lawe Street, Appleton Wisconsin (Site) from 1987 to present, and to formulate a proposed plan for long term groundwater monitoring (Plan). The contaminant of concern (COC) for this Site is the metal chromium in the hexavalent state. This proposed Plan was fashioned taking into account past site data regarding soil properties, groundwater concentration trends, current hydraulic controls, and contaminant migration potential. This Plan supplements and is supported by the recent report titled: *Site Investigation Report*, and dated October 26, 2017 (SIR). The SIR provides all of the details regarding past Site operations, and the investigations performed to determine the extent and magnitude of subsurface impacts.

The objectives of this Plan are to devise a groundwater monitoring well network that is cost effective, and allows sufficient monitoring of the following:

- 1. Concentrations of contaminants, or lack thereof, at sentinel wells located along the Site property boundaries;
- 2. Changes in contaminant concentrations within the source area of impact during and after any additional remedial actions; and
- 3. Changes in the groundwater flow field if current pumping and treating of groundwater impacts is discontinued.

This Plan should be considered a baseline Plan. The Plan is not static because monitoring needs may be revised in the future based on changing subsurface conditions that may occur from anticipated additional remedial actions.

2.0 BACKGROUND

2.1 Location and Surroundings

The location of the Site is depicted on the U.S.G.S. 1:24,000 scale topographic quadrangle map (**Figure 1**). The Site is located at 908 North Lawe Street, Appleton, Wisconsin, and is situated in a mixed area of industrial and residential properties as seen on the aerial photograph, **Figure 2**.

Currently, the Site property is owned by Luvata Appleton, LLC and consists of one (1) single-story slab-on-grade manufacturing building of approximately 42,500 square feet and an attached warehouse of approximately 10,500 square feet. The warehouse has a partial basement in the southeast corner that has an approximate area of 1,300 square feet and is 11 feet below grade (**Figure 3**). Adjacent properties to the north, west, and south are industrial, while adjacent properties to the east are residential.

As can be seen on **Figure 1**, the topography in the immediate area of the Site is relatively flat, slightly sloping downward to the east. A surface water drainage channel leading to the Fox River exists approximately 1,200 feet from the Site to the east. The Fox River at its closest point to the Site is located approximately 2,800 feet to the southeast. Regionally, without the influence of on-Site sump, the shallow groundwater flows towards the Fox River.

2.2 Summary of Past Site Operations

Based on available information, the Site and adjacent Appleton Papers, Inc. property was owned by Albany International Corp. and operated as Appleton Wire from 1963 to 1983. The northern portion of the parcel was sold to Valley Cast in 1984, which was then sold to Luvata Appleton, LLC (Luvata) in 2006. The southern portion of the Site was sold to Appleton Papers, Inc. (now Appvion) in 1985, which has resulted in the current ownership and property boundaries shown on **Figure 2**.

An eastern portion of the facility (now a warehouse) housed a plating operation using chromic acid containing hexavalent chromium. The layout of the equipment is shown on **Figure 3**. The operation was discontinued in 1981 and the chrome plating equipment was dismantled and sold in 1982 as part of the decommissioning process. In 1985, a sump pump in the partial basement of the warehouse failed and flooding in the basement occurred. Facility employees noticed that the water was tainted yellow and notified Albany International. Initial testing showed that the water was contaminated with chromium. A groundwater recovery and treatment system was subsequently installed by STS Consultants, Inc. in 1988 to collect and treat groundwater from a sump in the partial basement. This system was enhanced in 1992 to include a French drain and

groundwater collection trench located outside on the north side of the warehouse as shown on **Figure 3**.

2.3 Extent of Chromium Impacts

From 1985 to 2017, several rounds of subsurface investigations were performed by multiple consultants to better determine the extent of chromium impacts in soil and groundwater.

Subsurface data collected over the years indicates that the releases of chromic acid containing hexavalent chromium to the subsurface have occurred along deteriorated sections of the supply piping and associated concrete secondary containment raceways. Additional releases occurred within the partial basement that housed the supply tanks for the chromic acid. Units designed to remove chromium vapor from work areas inside the warehouse were located outside on the north and south sides of the warehouse. Leakage from these air scrubbing units contributed to the impacts seen outside to the north, and possibly to a lesser degree outside to the south. This pattern of subsurface impacts fits well with historical information gathered regarding the locations of plating equipment, chromic acid conveyance systems, and plating equipment maintenance procedures. The extent of soil impacts can be seen on **Figure 4b**.

Soil impacts have migrated vertically to shallow groundwater, which is encountered at depths of between 3-8 feet on Site. The extent of groundwater impacts can be seen on **Figure 5**. As can be seen on **Figure 4b** and **5**, soil and groundwater impacts are limited to the original property boundaries and are largely limited to areas inside the warehouse and under the concrete slab to depths of between 15-20 feet. This is due to the characteristics of Site soil. Native soil consists of a thick and relatively uniform blanket of clay deposited in a glaciolacustrine environment. The clay soil overlies dolomite bedrock which is encountered at approximately 120-130 feet below ground surface. The clay soil is of very low permeability and does not readily transmit water. Migration of impacts within the clay soil is very limited with most lateral distribution occurring along man-made artificial pathways such as areas of sandy building fill and old chromic acid supply piping runs.

The shallow groundwater is not a useable source of drinking water due to the very low yield within the clay. The City of Appleton is supplied by municipal drinking water that is drawn from Lake Winnebago located approximately four miles south of the site. The dolomite aquifer is protected by over 90 feet of clay having low permeability, and there are no sensitive receptors located nearby that could be affected by site contaminants.

Residential homes exist to the east of the Site across Meade Street and are in the general down-gradient or side-gradient direction of groundwater flow from Site impacts. Some of these homes

have foundation drainage with groundwater collection sumps in the basements. Some of these sumps have been sampled for chromium in the past, with no chromium detected. In addition, monitoring well clusters have been installed between the Site and these residences to monitor the potential migration of Site impacts. To date, Site contaminants have not been detected in these wells at levels that would be of concern to human health.

3.0 PROPOSED MONITORING WELL NETWORK

3.1 Groundwater Movement

The lateral direction of groundwater flow is expected to follow local topography and nearby sources of groundwater discharge. Based on topography and local drainage features, it is expected that the direction of shallow groundwater flow is to the east towards the drainage channel following the slope of topography, or to the southeast towards the Fox River, which is the primary discharge point in this area for groundwater within the shallow unconsolidated soil.

Water table contour maps were fashioned from water level measurements taken of existing water table observation wells in January 2017 and April 2017, and from all existing and new water table observation wells measured on July 26, 2017 (**Figures 6**, **7**, and **8**). These figures show that current pumping in the sump and French drain affect localized groundwater flow and directs flow towards them. It appears that the area of groundwater capture does not extend to beyond MW-5 to the south. Without the influence of pumping, the natural direction of groundwater flow is likely to the southeast.

The velocity of groundwater flow can be calculated from the hydraulic conductivity determined by slug testing, and the hydraulic gradient established from groundwater flow maps. The calculation is as follows:

V=KI/n; where V= the groundwater flow velocity; K= the hydraulic conductivity; I= the groundwater gradient; and n= the effective porosity of the soil.

The groundwater velocity was calculated using K values of 9.7×10^{-6} and 1.4×10^{-7} centimeters per second for the upper soil and lower soil, respectively; an average hydraulic gradient of 0.016 feet per foot under natural flow conditions; and an estimated effective porosity for silty clay of 0.1. The groundwater flow velocity ranges between 1.6 and 0.023 feet per year for the upper 15 feet of soil and soil below that, respectively.

3.2 Selection of Monitoring Points to Achieve Plan Objectives

As indicated in Section 1.0, there are three main objectives to consider in developing the groundwater monitoring network. The network should be designed to monitor:

1. Concentrations of contaminants, or lack thereof, at sentinel wells located along the Site property boundaries to monitor migration of impacts;

- 2. Changes in contaminant concentrations within the source area of impact during and after any additional remedial actions; and
- 3. Changes in the groundwater flow field if current pumping and treating of groundwater impacts is discontinued.

Various consultants have investigated Site impacts over the past 30 years, and as seen in **Table 1**, there is a significant archive of past groundwater sampling results. Many of the existing monitoring wells have years of data and this needs to be taken into account during Plan development. The contaminant of concern is hexavalent chromium, and the past results of groundwater sampling for both total chromium and hexavalent chromium have shown that the total chromium detected in groundwater is almost all in the hexavalent state. The regulatory standards for chromium in groundwater are based on total chromium; therefore, all groundwater samples will be analyzed for total chromium.

Some of the Site monitoring wells are being proposed for abandonment because they have not shown Site impacts, are in the source area of impacts, and if compromised in the future (i.e. damaged) have a potential to act as conduits for vertical migration of contaminants to deeper zones.

Table 2 has been prepared to illustrate the various Site wells that will be monitored and the frequency of monitoring. As can be seen on **Table 2**, the monitoring of some wells are duplicated across the various frequency columns. Depending on Site actions taken, the wells will be sampled on the most frequent basis shown.

A more detailed description of specific wells to monitored is provided in the following sections.

3.2.1 Sentinal Wells

Sentinal wells are wells located near the source area or at property boundaries to monitor the potential migration of groundwater impacts. These wells are part of the base Plan, and are typically located in the down-gradient direction of groundwater flow and are monitored to ensure that contaminants are not increasing in concentration or migrating onto, or off-site. Proposed sentinal wells to be monitored include MW-1/MW-1B, MW-2/MW-2A, MW-5/MW-5A, MW-10R/MW-10B, MW-17/MW-17A, MW-21/MW-21A, MW-22/MW-22A, MW-23/MW-23A, and MW-24/MW-24A.

3.2.2 Wells to be Monitored in Source Area

The main source area for Site impacts is considered to be the existing warehouse and associated partial basement. Secondary source areas include the French drain located outside the warehouse to the north, and in the vicinity of well MW-5 located outside the warehouse to the south.

It is important that groundwater concentrations in the source areas be monitored during any additional Site remedial actions to determine reductions in contaminant concentrations (and/or conversion to less toxic species) achieved during these remedial efforts.

All groundwater monitoring wells inside the warehouse building should be monitored during remedial activities. Additional wells MW-2/MW-2A, MW-5/MW-5A located outside of the warehouse, along with the basement sump and French drain manhole should also be monitored during remediation. During remediation, water samples from some of these wells may be analyzed for species-specific valence states such as hexavalent and/or trivalent chromium in addition to total chromium. Additional analytes may also be needed to monitor remedial actions.

3.2.3 Wells to be Monitored if Hydraulic Control is Removed

When the current pump and treat system is decommissioned as part of a remediation and closure strategy, then additional wells located outside of the warehouse area may need to be monitored more frequently. These wells include: MW-2/MW-2A, MW-5/MW-5A, MW-10R/MW-10B, and MW-24/MW-24A. These wells should be sampled for total chromium.

3.2.4 Wells Proposed for Abandonment

Wells MW-5C, MW-19C, and MW-20C are proposed for abandonment because they have not been shown to contain groundwater impacts, are in source areas of impact, and could potentially become conduits for vertical migration of shallow groundwater impacts to deeper zones, if they were to become damaged.

3.3 Frequency of Sampling to Achieve Plan Objectives

The proposed frequencies of sampling for select wells are presented in **Table 2**. As previously calculated, the velocity of groundwater flow across the site is very slow and estimated at between a minimum of 0.023 feet per year and a maximum of 1.6 feet per year. Therefore, it is not anticipated that groundwater impacts will travel significantly over the period of a few years.

Given the slow groundwater travel times, it is proposed that all sentinel wells be monitored once every four (4) years.

During future remedial actions, the wells identified in Section 3.2.2 above should be monitored on a bi-annual basis to determine the effectiveness of remedial actions. If hydraulic control (pump and treat system) is discontinued, then the wells identified in Section 3.2.3 above should be monitored once per year.

As previously mentioned, additional monitoring wells may be added or abandoned depending on proposed and approved remedial actions.

4.0 GROUNDWATER SAMPLING PROCEDURES

Prior to sampling, water level measurements will be collected from the well network using an electronic water level indicator. The monitoring wells will be allowed to equilibrate to atmospheric pressure by removing well lids a minimum of 15 minutes before measuring the water levels. The depth-to-water measurements will be recorded to the nearest 0.01 foot.

Disposable bailers will be utilized to purge the well dry. After allowing the wells to recharge, water samples will be collected using the disposable bailers and the water will be passed through disposable filters having no greater than 0.45 micron pore size. Data collected during the sampling activities will be documented on Groundwater Field Sampling Forms and presented in the reporting documents.

All wells will be sampled for total chromium using EPA SW-846 Method 6010B according to the frequencies described in section 3.3 above, and presented in **Table 2**. The samples will be preserved with nitric acid. Following sample collection, containers will be placed into a cooler containing ice and transported to state certified laboratories for analysis. Proper chain-of-custody documentation will be maintained at all times.

One (1) duplicate groundwater sample will be collected for every ten (10) or fewer investigative samples, and one (1) trip blank sample will be analyzed per sample cooler for quality assurance and quality control (QA/QC) purposes.

Purge water and decontamination fluids will be processed through the current on-site treatment system. If the system is deactivated, then the sampling waste will be stored on-Site in sealed and labeled DOT 17H-rated drums, or equivalent, until arrangements are made for testing and appropriate disposal.

5.0 REPORTING

A summary report will be prepared and sent to the WDNR once per year. The report will contain a narrative, updated tables with analytical results, all applicable field sampling forms, copies of analytical results sheets, and figures showing water table elevations and direction of groundwater flow and distribution of contaminants.

In addition, brief results reports will be sent to Luvata Appleton, Appvion, and the City of Appleton as applicable within 10 days of our receipt of the analytical results from each sampling event as required by the WDNR. A copy of these off-site results reports will also be sent to the WDNR.



Monitoring Well Identification	Sample Date	Dissolved Chromium	Hexavalent Chromium
Public He Enforcement S		100	NE
Public He		10	NE
Preventive Acti		10	NE
B-1 B-2	06/05/85 06/05/85	190 8,400	190 8,400
B-3	06/05/85	27,000	23,000
D -3	01/24/86	15,400 5,300	14,000
	06/30/04 08/01/07	8,490	5,100 N/A
GMW-01	10/24/07	3,085	1,900
	01/16/08 04/23/08	3,020 2,001	2,260 2.000
	06/30/04	5,700	4,700
CMW 02	08/01/04	6,355	N/A
GMW-02	10/24/07 01/16/08	6,115 7,040	6,115 6,800
	04/23/08	6,600	4,900
	06/30/04	5,000	4,700
GMW-03	08/01/04 10/24/07	4,790 3,545	N/A 2,300
	01/16/08	4,550	3,100
	04/23/08 06/30/04	3,320 52	1,400 52
	08/01/04	56	N/A
GMW-04	10/24/07	14	<2.0
	01/16/08 04/23/08	31 3.7	<0.002 <2.0
	06/30/04	40	34
G1 674 0.5	08/01/04	55	N/A
GMW-05	10/24/07 01/16/08	5.6 8.5	<2.0 <0.002
	04/23/08	31.0	<2.0
	06/30/04	3.3	<2
GMW-06	08/01/04 10/24/07	4.2 3.5	N/A <2.0
	01/16/08	3.3	<0.002
	04/23/08	5.2	<2.0
	06/30/04 08/01/04	0.8	<2 N/A
GMW-07	10/24/07	2.3	<2.0
	01/16/08 04/23/08	13.0 3.1	<0.002 <2.0
	06/30/04	0.4	<2
	08/01/04	1.4	N/A
GMW-08	10/24/07 01/16/08	489.0 8.6	270 <0.002
	04/23/08	101.0	20
	06/30/04	1.3	<2
GMW-09	08/01/04 10/24/07	1.5 2.8	N/A <2.0
	01/16/08	9.3	<0.002
	04/23/08	4.2	<2.0
	06/30/04 08/01/04	0.5 0.6	<2 N/A
GMW-10	10/24/07	11.0	<2.0
	01/16/08 04/23/08	0.5 2.6	<0.002 <2.0
	06/30/04	1.1	<2
CMW 11	08/01/04	1.9	N/A
GMW-11	10/24/07 01/16/08	3.6 5.6	<2.0 <0.002
	04/23/08	4.1	<2.0
GP-7 (Temp) GP-13 (Temp)	05/12/14 05/13/14	183 2,991	29 1,600
51 15 (10mp)	02/09/87	50	50
	07/29/87	<40	NA
	09/25/87 12/11/87	<100 <100	NA NA
	03/21/88	1.6	NA
	06/13/88	3.0 9	NA NA
) BY 4	09/08/88 12/15/88	2.5	NA NA
MW-1	03/26/92	<40	NA
	06/16/92	4.9 50	NA NA
	09/04/92 12/17/92	50 NS	NA NS
	03/25/93	<80	NA
	06/22/93 09/16/93	NS <80	NS NA
	12/03/93	NS	NS NS



	1	I	
Monitoring Well Identification	Sample Date	Dissolved Chromium	Hexavalent Chromium
Public He		100	NE
Enforcement S		100	T(L)
Preventive Act		10	NE
	03/15/94	<70	NA NG
	06/16/94 09/20/94	NS 13	NS NA
	12/13/94	NS	NS
	03/31/95 06/15/95	39 NS	NA NS
	09/07/95	7.2	NA
	12/11/95 03/15/96	NS 15	NS NA
	06/27/96	NS	NS
	09/05/96	6.4	NA NG
	12/03/96 04/26/97	NS 11	NS NA
	04/30/98	60	NA
	10/22/98 04/16/99	7 12	NA NA
	10/19/99	9.3	NA NA
MW 1 (continued)	04/17/00	22	NA NA
MW-1 (continued)	04/06/01 04/18/02	<11 <11	NA NA
	04/16/03	2.9	NA
	04/19/04 04/11/05	2.8 82	<2.0 16
	07/18/05	<30	<2
	04/11/06	1.7 4	<2.0
	04/29/07 04/23/08	4.4	<2.0 <2.0
	04/07/09	4.6	<0.1
	04/13/10 04/27/11	26 3	<3.0
	04/10/12	1.7	<3
	04/15/13 04/09/14	2.6 4.2	<2.6 <3.0
	04/21/15	0.5	<0.5
	04/14/16	0.35	<2 NA
	06/29/17 08/31/17	<2.5 <2.5	NA NA
MW-1B	06/29/17	<2.5	NA
	08/31/17 02/09/87	<2.5 70	NA 70
	07/29/87	<40	NA
	09/25/87 12/11/87	100	NA NA
	03/21/88	85	NA
	06/13/88	140	NA NA
	09/08/88 12/15/88	71 130	NA NA
	03/26/92	<40	NA NA
	06/16/92 09/04/92	17 <40	NA NA
	12/17/92	NS	NS
	03/25/93 06/22/93	<80 NS	NA NS
	09/16/93	<80	NA
	12/03/93 03/15/94	NS <70	NS NA
	06/16/94	NS	NS
MW-2	09/20/94 12/13/94	19 NS	NA NS
	03/31/95	NS 19	NA NA
	06/15/95	NS 14	NS NA
	09/07/95 12/11/95	14 NS	NA NS
	03/15/96	11	NA
	06/27/96 09/05/96	NS 29	NS NA
	12/03/96	NS	NS
	04/26/97 10/29/97	9.2 10	NA NA
	04/30/98	11	NA NA
	10/22/98 04/16/99	9.3 7.7	NA NA
	10/19/99	6.8	NA NA
	04/17/00	22	NA NA
	04/06/01 04/18/02	<11 <11	NA NA
	04/16/03	<1.1	NA



		Е	H H
Monitoring Well Identification	Sample Date	Dissolved Chromium	Hexavalent Chromium
		Disse	Hexa
Public He Enforcement S		100	NE
Public He		10	NE
Preventive Act	04/19/04	1.0	<2.0
	04/11/05 04/11/06	1.3 0.4	<2.0 <2.0
	04/29/07	1.5	<2.0
	04/23/08	2.4 8.3	<2.0 <.1
	04/13/10	5	<3.0
MW-2 (continued)	04/27/11 04/10/12	0.7	<3.0 <3.0
	04/15/13	0.4	<.4
	04/09/14 04/21/15	0.6	<0.6 <0.94
	04/14/16	4.9	<2
	06/29/17 08/31/17	29.5 <2.5	NA NA
	03/26/92	<40	NA NA
	06/16/92 09/04/92	1.5 <40	NA NA
	12/17/92	NS NS	NS NS
	03/25/93	<80 NS	NA NS
	06/22/93 09/16/93	NS <80	NS NA
	12/03/93	NS 270	NS NA
	03/15/94 06/16/94	<70 NS	NA NS
	09/20/94	14	NA NG
	12/13/94 03/31/95	NS 17	NS NA
	06/15/95	NS	NS
	09/07/95 12/11/95	3.9 NS	NA NS
	03/15/96	3.6	NA
	06/27/96 09/05/96	NS 1.2	NS NA
	12/03/96	NS	NS
MW-2A	04/26/97 04/30/98	0.3 2.5	NA NA
	04/16/99	2.4	NA
	04/17/00 04/06/01	23 <11	NA NA
	04/18/02	<11	NA
	04/16/03 04/19/04	<1.1 0.6	NA <2.0
	04/11/05	0.4	<2.0
	04/11/06	<0.2 0.7	<2.0 <2.0
	04/23/08	<0.4	<2.0
	04/07/09 04/13/10	1.5	<0.1 <3.0
	04/13/10	2	<3.0
	04/10/12 04/15/13	0.5 <0.2	<3.0 <0.2
	04/09/14	0.4	<0.2
	04/21/15 04/14/16	0.11 0.56	<0.11
	06/29/17	<2.5	NA NA
	8/31/2017 03/26/92	<2.5 33,000	NA NA
	06/16/92	27,000	NA NA
	09/04/92 12/17/92	33,000 28,000	NA NA
	03/25/93	29,000	NA
	06/22/93 09/16/93	24,000 25,000	NA NA
	12/03/93	26,000	NA NA
	03/15/94	26,000	NA NA
MW-5*	06/16/94 09/20/94	2,013	NA NA
	12/13/94	19,000	NA NA
	03/31/95 06/15/95	19,960 21,190	NA NA
	09/07/95	25,400	NA
	12/11/95 03/15/96	18,000 15,830	NA NA
	06/27/96	18,000	NA
	09/05/96 12/03/96	14,000 24,000	NA NA
	12/03/96	24,000	NA



Monitoring Well Identification	Sample Date	Dissolved Chromium	Hexavalent Chromium
Public He Enforcement		100	NE
Public He	ealth	10	NE
Preventive Act	01/23/97	22,000	NA
	04/26/97 07/16/97	17,000 20,000	NA NA
	10/29/97	1,600	NA
	01/20/98	18,000 15,000	NA NA
	07/10/98	18,000	NA
	10/22/98 01/19/99	21,000 14,000	NA NA
	04/16/99	15,000	NA
	07/23/99 10/19/99	14,000 18,175	NA NA
	01/10/00	12,000	NA
	04/17/00 07/20/00	8,500 11,000	NA NA
	10/25/00	8,500	NA
	01/17/01 04/06/01	14,000 7,900	NA NA
	07/20/01	10,000	NA NA
	10/16/01 01/14/02	12,000 11,000	NA NA
	04/18/02	5,500	NA NA
	07/23/02	788	NA NA
	10/30/02 01/20/03	1,500 19,000	NA NA
	04/16/03	7,000	NA NA
	07/10/03 10/07/03	33 3,300	NA NA
	01/30/04	1,200	NA 10.000
	04/19/04 07/26/04	7,900 6,700	10,000 6,300
	10/11/04	6,500	6,500
	01/12/05 04/11/05	6,460 5,085	6,300 4,500
	07/18/05	4,900	4,900
	10/11/05 01/10/06	5,100 10,880	4,900 10,000
)	04/11/06	4,455	3,880
MW-5* (continued)	07/27/06 10/18/06	3,190 5,100	3,400 4,500
	01/09/07	2,900	2,800
	04/29/07 07/24/07	2,895 2,465	2,500 2,465
	10/24/07	3,205	2,700
	01/16/08 04/23/08	2,335 2,067	2,300 1,700
	07/15/08	2,425	1,700
	10/23/08 01/22/09	2,400 2,024	1,800 1,900
	04/07/09	2,116	1,700
	07/07/09 10/11/09	2,200 2,500	2,000 2,300
	01/19/10	2,015	1,900
	04/13/10 07/29/10	1,600 1,800	1,400 1,300
	10/19/10	1,700	1,400
	01/13/11 04/27/11	1,500 1,200	1,400 1,200
	07/19/11	1,100	1,000
	10/11/11 01/10/12	1,100 1,140	1,000 950
	04/10/12	1,200	1,100
	08/08/12 10/09/12	1,200 1,139	49 1,100
	01/08/13	1,500	1,310
	04/15/13 07/10/13	1,166 1,300	1,166 1,300
	10/14/13	1,338	1,300
	01/15/14 04/09/14	1,594 1,430	1,730 1,280
	07/08/14	1,300	1,180
	10/14/14 01/13/15	960 784	960 670
	04/21/15	576	514
	07/15/15 10/20/15	605 604	591 512
	01/21/16	444	408



Monitoring Well Identification	Sample Date	Dissolved Chromium	Hexavalent Chromium
Public He Enforcement S		100	NE
Public Hea		40	
Preventive Acti	on Limit	10	NE
	04/14/16 07/14/16	462 536	430 466
MW-5* (continued)	10/18/16	37	48
DUP-3	06/29/17 06/29/17	120 122	NA NA
MW-5* (continued)	8/31/2017	256	NA
	02/09/87 07/29/87	80 8,000	80 NA
	09/25/87	2,100	NA NA
	12/11/87	14,400	NA NA
	03/21/88	26,000 7,800	NA NA
	09/08/88	3,000	NA
	12/15/88 03/26/92	7,100 5,600	NA NA
	06/16/92	7,600	NA
	09/04/92 12/17/92	13,000 1,500	NA NA
	03/25/93	2,200	NA NA
	06/22/93	1,400	NA NA
	09/16/93 12/03/93	3,800 10,000	NA NA
	03/15/94	900	NA
	06/16/94 09/20/94	312 350	NA NA
	12/13/94	580	NA
	03/31/95	568	NA NA
	06/15/95	228 1,928	NA NA
	12/11/95	24	NA
	03/15/96	552 490	NA NA
	09/05/96	2,200	NA
	12/03/96 01/23/97	1,600 170	NA NA
	04/26/97	68	NA
	07/16/97	40	NA NA
	10/29/97 01/20/98	140 1,500	NA NA
MW-5A*	04/30/98	130	NA
	07/10/98 10/22/98	150 160	NA NA
	01/19/99	900	NA
	04/16/99 07/23/99	99 76	NA NA
	10/19/99	104	NA NA
	01/10/00	1,200	NA NA
	04/17/00 07/20/00	880 400	NA NA
	10/25/00	1,100	NA
	01/17/01 04/06/01	280 65	NA NA
	07/20/01	11	NA
	10/16/01 01/14/02	16 78	NA NA
	04/18/02	380	NA NA
	07/23/02	207	NA NA
	10/30/02 01/20/03	45 1,200	NA NA
	04/16/03	270	NA
	07/10/03 10/07/03	1,200 16	NA NA
	01/30/04	23	NA
	04/19/04 07/26/04	480	82 <4
	10/11/04	12	12
	01/12/05	30	<2
	04/11/05 07/18/05	13 <30	10 <2
	10/11/05	26	<2
	01/10/06	3.5 36	<2 <2
	07/27/06	755	720



		<u> </u>	
Monitoring Well Identification	Sample Date	Dissolved Chromium	Hexavalent Chromium
Public He Enforcement S		100	NE
Public He		10	NIE
Preventive Acti	i e	10	NE .
	10/18/06 01/09/07	5.2 2.3	5.2 <2.0
	04/29/07	12	10
	07/24/07 10/24/07	2.4 2.7	<2.0 <2.0
	01/16/08	10	<2.0
	04/23/08 07/15/08	167 6.4	20 <1.0
	10/23/08	18	10
	01/22/09	248	210
	04/07/09 07/07/09	630 7	590 <4.0
	10/11/09	33	<3.0
	01/19/10 04/13/10	24 7	<3.0 7
	07/29/10	6	<3.0
	10/19/10 01/13/11	5 5	5 5
	04/27/11	27	14
	07/19/11	<3	<3
MW-5A* (continued)	10/11/11 01/10/12	11 94	7 60
(**************************************	04/10/12	4.2	<3.0
	08/08/12 10/09/12	49 39	<3.0 26
	01/08/13	7.9	<3.0
	04/15/13	3.7	<3.0
	07/10/13 10/14/13	1,300 65	<3.0 67
	01/15/14	23	21
	04/09/14 07/08/14	12 4	7 <3
	10/14/14	5	<3
	01/13/15 04/21/15	3.1 1.2	<3 <1.2
	07/15/15	4.6	<0.1
	10/20/15	16	<2.0
	01/21/16 04/14/16	7.8 1.2	<2.0
	07/14/16	12	6
	10/18/16	0.79	<2 NA
	06/29/17 8/31/2017	<2.5 <2.5	NA NA
MW-5C	06/29/17	<2.5	NA
	8/31/2017 01/19/99	<2.5 3.7	NA NA
	04/16/99	4.4	NA
	07/23/99 10/19/99	8.3 1	NA NA
	01/10/00	<11	NA
	04/17/00 07/20/00	13	NA NA
	10/25/00	16 <11	NA NA
	01/17/01	<11	NA
	04/06/01 04/18/02	<11 <11	NA NA
	04/30/03	1.1	NA
	04/19/04 04/11/05	1.2 1.2	<2.0 <2.0
MW-10R	07/18/05	<30	<2.0
	04/11/06	1	<2.0
	04/29/07 04/23/08	1.5 3.5	1.5 3.5
	04/07/09	4.4	<0.1
	04/13/10 04/27/11	11 5	<3.0 <3.0
	04/10/12	5.5	<3.0
	04/15/13	0.5	<0.5
	04/09/14 04/21/15	0.5 0.41	<0.5 <0.41
	04/14/16	0.31	<2
	06/29/17 8/31/2017	<2.5 <2.5	NA NA
MW-10B	06/29/17	2.8 J	NA
100	8/31/2017	<2.5	NA



Monitoring Well Identification	Sample Date	Dissolved Chromium	Hexavalent Chromium
Public He Enforcement S		100	NE
Public He Preventive Act		10	NE
	03/26/92 06/16/92 09/04/92 12/17/92 03/25/93 06/22/93 09/16/93 12/30/93 03/15/94 06/16/94 09/20/94 12/13/94	<40 1.3 <40 NS <80 NS <80 NS <70 NS	NA NA NA NS
MW-17	03/31/95 06/15/95 09/07/95 12/11/95 03/15/96 06/27/96 09/05/96 12/03/96 04/26/97 04/30/98	9.8 NS 8.1 NS 3.6 NS 2.4 NS 0.5	NA NS NA
	04/36/8 04/16/99 04/17/00 04/06/01 04/18/02 04/16/03 04/19/04 04/11/05 04/11/06 04/29/07 04/23/08 04/07/09 04/13/10 04/27/11 04/10/12 04/15/13	2.9 <11 <11 <11 <1.1 1.7 0.3 1.5 0.8 <0.4 1.7 12 2 0.4 <0.2	NA NA NA NA NA NA 2.0 2.0 2.0 2.0 2.0 3.0 3.0 3.0 4.0 4.0
	04/09/14 04/21/15 04/14/16 06/29/17 8/31/2017 03/26/92	0.8 0.39 0.68 <2.5 <2.5 <40	<0.8 <0.39 <2 NA NA
	06/16/92 09/04/92 12/17/92 03/25/93 06/22/93 09/16/93 12/03/93 03/15/94 06/16/94 09/20/94 12/13/94 03/31/95	26 <40 NS <80 NS <80 NS <70 NS <22 NS	NA NA NS NA
MW-17A	06/15/95 09/07/95 12/11/95 03/15/96 06/27/96 09/05/96 12/03/96 04/26/97 04/30/98 04/16/99 04/17/00 04/06/01 04/18/02	NS 6.4 NS 3.4 NS 0.7 NS <0.2 1.5 0.9 <11 <11 <11	NS NA NS NA NS NA NS NA NS NA
	04/16/03 04/19/04 04/11/05	<1.1 0.2 0.3	NA <2.0 <2.0



Monitoring Well Identification	Sample Date	Dissolved Chromium	Hexavalent Chromium
Public Hea		100	NE
Enforcement St Public Hea			
Preventive Action		10	NE
-	04/11/06	<0.2	<2.0
-	04/29/07	0.2 <0.4	<2.0 <2.0
 	04/07/09	0.3	<0.1
_	04/13/10 04/27/11	0.9	<3.0 <3.0
MW-17A (continued)	04/10/12	0.5	<3.0
_	04/15/13	<0.2	<0.2
-	04/09/14 04/21/15	<0.2 0.17	<0.2 <0.17
-	04/14/16	<0.2	<2
-	06/29/17 8/31/2017	<2.5 <2.5	NA NA
	08/13/02	<12	NA NA
	04/16/03	<1.1	NA 2.0
	04/19/04 04/11/05	<0.2 <0.2	<2.0 <2.0
	04/11/05	<0.2	<2.0
	04/29/07	0.3	<2.0
-	04/23/08	1.1 3.8	<4.0 <0.1
MW-18	04/13/10	6.9	<3.0
-	04/27/11 04/10/12	0.4	<3.0 <3.0
-	04/10/12	<0.2	<0.2
-	04/09/14	0.4	<0.4
<u> </u>	04/21/15 04/14/16	<0.1 1.6	<0.1
	06/29/17	3.5 J	NA
	8/31/2017	<2.5	NA
_	08/13/02 04/16/03	<12 <1.1	NA NA
	04/19/04	<0.2	<2.0
_	04/11/05	0.4 1.5	<2.0 <2.0
	04/29/07	0.3	<2.0
_	04/23/08	1.1	<4.0
MW-18A	04/07/09	3.8 6.9	<2.0
 	04/27/11	0.4	<3.0
_	04/10/12	0.2 <0.2	<3.0
-	04/09/14	3.3	<3.0
	04/21/15	15	<3.0
-	04/14/16 06/29/17	<0.2 <2.5	2 NA
_	8/31/2017	<2.5	NA
	07/13/09 07/28/09	13,000 22,000	15,000 20,000
	10/11/09	5,300	4,000
	01/19/10	3,030	2,600
-	04/13/10 07/29/10	5,270 6,400	5,270 3,900
	10/19/10	7,100	4,800
-	01/13/11	7,100 15,000	7,100
-	04/27/11 07/19/11	9,400	15,000 8,700
	10/11/11	21,000	17,000
-	01/10/12 04/10/12	41,100 21,672	40,000 23,000
<u> </u>	08/08/12	26,000	26,000
MW-19	10/09/12 01/08/13	14,187 12,575	13,000 11,000
-	04/15/13	12,575 16,300	16,300
	07/10/13	19,000	19,000
-	10/14/13 04/09/14	15,440 20,005	16,000 20,005
	07/08/14	18,000	17,000
F	10/14/14	21,600	21,300
-	01/13/15 04/21/15	18,050 18,587	15,000 18,000
	07/15/15	17,200	16,000
	10/20/15 01/21/16	18,000 15,295	18,000 17,000
-	04/14/16	15,295	18,100
<u> </u>	07/14/16	16,227	17,600
	10/18/16	18,618	17,100

Public Health Proventive Action Limit 10 NE	
Public Health 10	E
MW-19 (continued) MW-19 (continued)	r.
MW-19 (continued) 8/31/2017 13,600 NA 07/13/09 30 50 07/28/09 40 40 10/11/09 3 <3.0 01/19/10 4.3 <3.0 04/13/10 8.2 <3.0 07/29/10 3 <3.0 10/19/10 1 <3.0 10/19/10 1 <3.0 01/13/11 1 1 <1.0 04/27/11 3 3 3 07/19/11 143 <3.0 10/11/11 4 4 4 01/10/12 1.8 <3.0 08/08/12 6,100 5,400 10/09/13 8.1 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/13 500 <3.0 04/15/15 33.8 3 3.8 04/15/15 33.8 3.8 04/15/15 97 <2.0 01/13/15 32 3 2.0 07/14/16 12 2.0 04/14/16 233 2.0 07/14/16 1 1 2 10/18/16 1 2 2 10/18/16 226,000 234,00 04/14/16 412,750 279,00 07/14/16 212,000 234,00 04/14/16 412,750 279,00 07/14/16 212,000 234,00 04/14/16 412,750 279,00 07/14/16 212,000 234,00 04/14/16 212,000 234,00 04/14/16 412,750 279,00 07/14/16 31,000 315 06/02/14 1,200 1,066 07/08/14 230 15 10/14/14 117 3 04/21/15 1.1 <1.1 07/15/15 192 2.0 07/15/15 192 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 5.3 4 2.0 04/14/16 66 8 8 07/14/16 5.3 4 2.0 04/14/16 66 8 8 07/14/16 5.3 4 2.0 04/14/16 66 8 07/14/16 5.3 4 2.0 04/14/16 66 8 8 07/14/16 5.3 4 2.0	
07/28/09 40 40 40 10/11/09 3 3.3	A
01/19/10	
04/13/10	
10/19/10	.0
MW-19A 04/27/11	
MW-19A 07/19/11	
MW-19A 01/10/12	3
MW-19A 04/10/12	
MW-19A 10/09/12 22 40 01/08/13 8.1 <3.0 04/15/13 500 <3.0 04/19/14 1.8 <1.8 07/08/14 3.8 <3 10/14/14 4 <3 01/13/15 321 <3 04/21/15 1.5 <1.5 07/15/15 97 <2.0 10/20/15 1.7 <2.0 01/21/16 121 <2.0 04/14/16 123 <2.0 07/14/16 1 2 10/18/16 3.5 <2 06/29/17 8.1 3.7	.0
01/08/13	
04/09/14	
10/14/14	.8
04/21/15	
07/15/15 97 <2.0 10/20/15 1.7 <2.0 01/21/16 121 <2.0 04/14/16 233 <2.0 07/14/16 1 2 10/18/16 3.5 <2 06/29/17 8.1 J <3.9 8/31/2017 3.7 J NA 06/29/17 <2.5	
01/21/16	
04/14/16	
10/18/16 3.5 2 06/29/17 8.1 J 3.9 8/31/2017 3.7 J NA NA 06/29/17 2.5 3.9 06/02/14 338,000 338,000 07/08/14 283,000 297,000 10/14/14 330,000 297,000 10/13/15 199,000 155,000 04/21/15 248,900 248,900 04/21/15 248,150 247,000 01/21/16 212,000 234,000 04/14/16 412,750 279,000 07/14/16 287,875 326,000 07/14/16 287,875 326,000 06/28/17 265,000 273,	.0
MW-19C	
MW-19C	
8/31/2017 <2.5 NA	
07/08/14 283,000 89,000 10/14/14 330,000 297,000 01/13/15 199,000 155,000 04/21/15 248,900 248,900 04/21/15 248,150 247,000 234,000 01/21/16 212,000 234,000 04/14/16 412,750 279,000 07/14/16 287,875 326,000 273,000	
MW-20 10/20/15 248,900 248,900 248,900 248,900 248,900 248,900 248,900 248,900 248,900 248,900 248,900 248,900 248,150 247,000 234,000 234,000 234,000 234,000 279,000 270,000	
MW-20 07/15/15 248,150 247,000 385,000 385,000 01/21/16 212,000 234,000 04/14/16 412,750 279,000 07/14/16 287,875 326,000 10/18/16 269,075 283,000 273,000 8/31/2017 331,000 NA 06/02/14 1,200 1,0600 07/08/14 230 15 10/14/14 117 <3 01/13/15 11 <3 04/21/15 1.1 <1.11 07/15/15 192 <2.00 2.00 01/21/16 5.4 <2.00 04/14/16 666 8 07/14/16 5.3 4 10/18/16 140 <19 06/28/17 6.5 J <3.9 8/31/2017 4.3 J NA 06/28/17 10.00 <19	
MW-20 10/20/15 385,000 385,000 01/21/16 212,000 234,00 04/14/16 412,750 279,00 07/14/16 287,875 326,000 10/18/16 269,075 283,00 8/31/2017 331,000 NA 06/02/14 1,200 1,060 07/08/14 230 15 10/14/14 117 3 01/13/15 11 31 04/21/15 1.1 07/15/15 192 22.0 MW-20A 10/20/15 23 22.0 04/14/16 5.4 20 04/14/16 5.4 20 04/14/16 5.3 4 10/18/16 10/18/16 140 19 06/28/17 10.0 10.0 1885,000 2385,000 2385,000 234,000 234,000 279,000 273,000 8/31/2017 331,000 NA 1,200 1,060 1,060 07/08/14 11 01/13/15 11 01/13	
04/14/16 412,750 279,00 07/14/16 287,875 326,00 10/18/16 269,075 283,00 06/28/17 265,000 273,00 8/31/2017 331,000 NA 06/02/14 1,200 1,060 07/08/14 230 15 10/14/14 117 <3	000
10/18/16 269,075 283,00 06/28/17 265,000 273,00 8/31/2017 331,000 NA 06/02/14 1,200 1,060 07/08/14 230 15 10/14/14 117 <3 01/13/15 11 <3 04/21/15 1.1 <1.1 07/15/15 192 <2.0 01/21/16 5.4 <2.0 04/14/16 66 8 07/14/16 5.3 4 10/18/16 140 <19 06/28/17 6.5 J <3.9 8/31/2017 4.3 J NA 06/28/17 10.0 <19	
06/28/17 265,000 273,00 8/31/2017 331,000 NA 06/02/14 1,200 1,060 07/08/14 230 15 10/14/14 117 <3	
MW-20A	000
10/14/14 117 3 01/13/15 11 3 04/21/15 1.1 <1.1 07/15/15 192 <2.0 10/20/15 23 <2.0 01/21/16 5.4 <2.0 04/14/16 66 8 07/14/16 5.3 4 10/18/16 140 <19 06/28/17 6.5 J <3.9 8/31/2017 4.3 J NA	
MW-20A	
MW-20A 10/20/15 23 <2.0 10/20/15 23 <2.0 01/21/16 5.4 <2.0 04/14/16 66 8 07/14/16 5.3 4 10/18/16 140 <19 06/28/17 6.5 J <3.9 8/31/2017 4.3 J NA	3
01/21/16 5.4 <2.0 04/14/16 66 8 07/14/16 5.3 4 10/18/16 140 <19 06/28/17 6.5 J <3.9 8/31/2017 4.3 J NA 06/28/17 10.0 <19	
04/14/16 66 8 07/14/16 5.3 4 10/18/16 140 <19	
10/18/16 140 <19 06/28/17 6.5 J <3.9 8/31/2017 4.3 J NA 06/28/17 10.0 <19	
06/28/17 6.5 J <3.9 8/31/2017 4.3 J NA 06/28/17 10.0 <19	
06/28/17 10.0 <19	
MW-20C	
8/31/2017 <2.5 NA 06/02/14 2.6 <30	
07/08/14 210 <3	3
10/14/14 <0.1 <3 01/13/15 0.63 <3	
04/21/15 5.9 <3.0 07/15/15 2.6 <2.0	
MW-21 10/20/15 1.7 <2.0	.0
01/21/16 0.89 <2.0 04/14/16 2.2 <2.0	
07/14/16 0.62 4	
10/18/16 0.29 <19 06/28/17 16.1 <3.9 8/31/2017 <2.5 NA	.9



GROUNDWATER ANALYTICAL RESULTS (CHROMIUM) Former Appleton Wire

908 N. Lawe St., Appleton, WI 54911

Monitoring Well Identification	Sample Date	Dissolved Chromium	Hexavalent Chromium
Public H Enforcement		100	NE
Public H		10	NE
Preventive Ac	06/02/14	1.8	<30
	07/08/14	1.1	<3
	10/14/14	< 0.1	<3
	01/13/15	< 0.1	<3
	04/21/15	0.054	< 0.54
MW 21 A	07/15/15	0.1	<2.0
MW-21A	10/20/15 01/21/16	0.51 0.21	<2.0
	04/14/16	0.6	<2.0
	07/14/16	<0.2	8
	10/18/16	< 0.2	<19
	06/28/17	6.1 J	<3.9
	8/31/2017	<2.5	NA
MW-22	06/29/17	<2.5	NA
	8/31/2017 06/29/17	<2.5 <2.5	NA NA
MW-22A	8/31/2017	<2.5	NA NA
	06/29/17	<2.5	NA
MW-23	8/31/2017	<2.5	NA
MW-23A	06/29/17	<2.5	NA
W -2311	8/31/2017	<2.5	NA
MW-24	06/29/17	<2.5	NA
	8/31/2017 06/29/17	2.6 J <2.5	NA NA
MW-24A	8/31/2017	<2.5	NA NA
) WY 25	06/28/17	<2.5	<3.9
MW-25	8/31/2017	<2.5	NA
MW-25A	06/28/17	<2.5	<3.9
	8/31/2017	<2.5	NA
MW-26	06/28/17	72,900	82,500
DUP-1 MW-26	06/28/17 8/31/2017	72,800 84,900	88,000 NA
	6/28/2014	7.9 J	<3.9
MW-26A	8/31/2017	<2.5	NA
MW-27	6/28/2014	7,350	8,500
DUP-2	6/28/2017	7,080	8,800
MW-27	8/31/2017	6,490	NA
MW-27B	6/28/2014	13.9	7.4 J
	8/31/2017 6/28/2017	<2.5 3,890	NA 3,200
MW-28	8/31/2017	390	NA
MW 20 4	6/28/2017	8.4 J	4.6 J
MW-28A	8/31/2017	<2.5	NA
MW-29	6/29/2017	951	1,000
DUP-4	6/29/2017	947	NA NA
MW-29	8/31/2017 6/29/2017	228 <2.5	NA <3.9
MW-29A	8/31/2017	<2.5	<3.9 NA
	6/28/2017	3,980	4,000
MW-30	8/31/2017	3,540	NA
MW-30A	6/28/2017	2.7 J	<19
	8/31/2017	<2.5	NA
UB-1	06/19/17	3.5 J	NA NA
UB-2	06/19/17	<2.5	NA

* As of 8/13/02 the designations for MW-05 and MW-05A were switched to assign the "A" suffix to the piezometer formerly designated as $MW\mbox{-}05$

All concentrations reported in units of micrograms per liter (µg/l)
Only detected compounds are listed

Bolded and Orange Shaded values indicates an exceedance of the Public Health Enforcement Standard

Bolded and Blue Shaded values indicates an exceedance the Public Health Preventive Action Limit

 $J = Analyte \ concentration \ detected \ between \ the \ laboratory \ Reporting \ Limit \ and \ the \ laboratory \ Method \ Detection \ Limit$

NE = Not Established NA = Not Analyzed





TABLE 2 GROUNDWATER MONITORING PLAN SPREADSHEET

Former Appleton Wire Facility 908 N. Lawe Street Appleton, Wisconsin

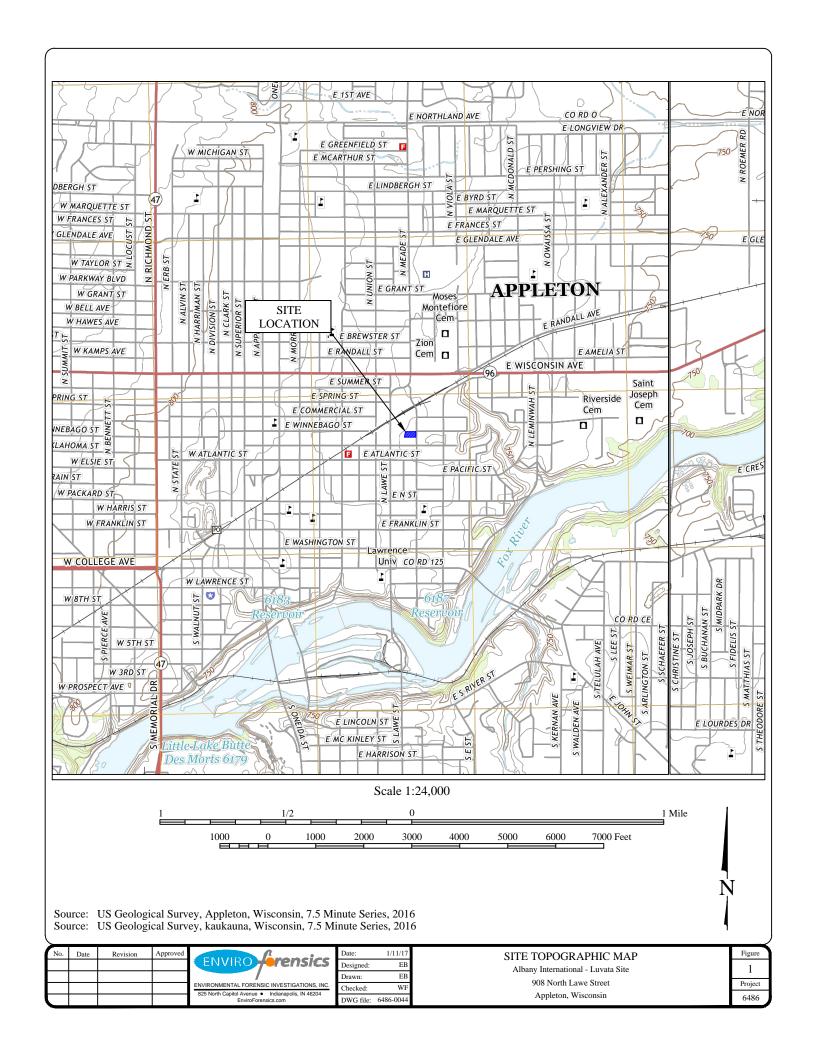
	Frequency of Monitoring			
Monitoring Well ID	Bi-annual (Remediation Monitoring)	Annually (Hydraulic Control Eliminated)	Once every 4 years (Sentinel Wells)	
MW-1			С	
MW-1B			С	
MW-2	С	С	C	
MW-2A	С	С	С	
MW-5	С	С	С	
MW-5A	С	С	С	
MW-5C		To Be Abandoned		
MW-10R		С	С	
MW-10B		С	C	
MW-17			C	
MW-17A			С	
MW-18			С	
MW-18A			С	
MW-19	С			
MW-19A	С			
MW-19C		To Be Abandoned	•	
MW-20	С			
MW-20A	С			
MW-20C		To Be Abandoned	•	
MW-21	С		С	
MW-21A			С	
MW-22			С	
MW-22A			С	
MW-23			С	
MW-23A			С	
MW-24		С	С	
MW-24A		С	С	
MW-25	С			
MW-25A	С			
MW-26	С			
MW-26A	С			
MW-27	С			
MW-27B	С			
MW-28	С			
MW-28A	С			
MW-29	С			
MW-29A	С			
MW-30	С			
MW-30A	С			
Basement Sump	С			
French Drain Manhole	С			

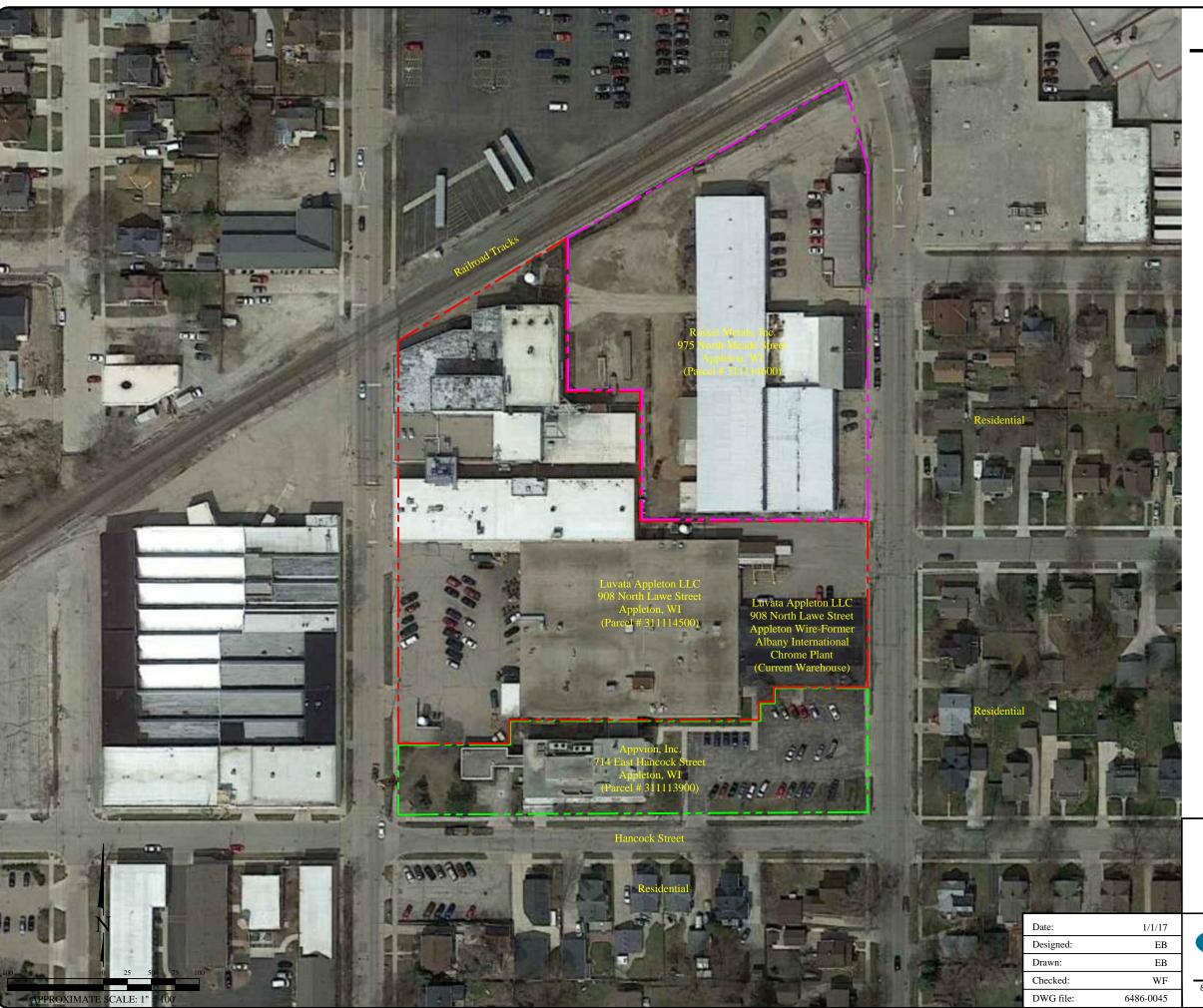
Notes:

C = total chromium analysis









Legend

Property boundary

SITE AERIAL PHOTOGRAPH

Albany International - Luvata Site 908 North Lawe Street Appleton, Wisconsin

Figure

2



825 North Capitol Avenue • Indianapolis, IN 46204 EnviroForensics.com 6486

