

DATE: June 30, 2017

FILE REF: 02-38-564236

TO: File

FROM: Bob Klauk

SUBJECT: VPLE Committee review of Stantec email request with regard to groundwater sampling

Attendees: Bob Klauk, Keld Lauridsen, Tauren Beggs

Stantec requested, in the attached email, that monitoring well MW1800 be abandoned and that a monitoring well down-gradient from MW1800 not be installed. The committee requested that monitoring well MW1800 be sampled one more time before abandonment and that a down-gradient well needs to be installed. These conclusions were relayed to Stantec in a phone conversation on Friday, June 30, 2017.

Klauk, Robert H - DNR

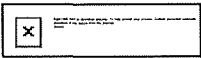
From: Caine, Lynelle <Lynelle.Caine@stantec.com>
Sent: Wednesday, June 28, 2017 4:15 PM
To: Klauk, Robert H - DNR
Cc: Ann Hartnell; Weber, Evan; Brand, Jeff
Subject: MCABI- Tyco Redevelopment Site, Main Street, Marinette, WI; BRRTS #02-38-564236; VPLE #06-38-576107
Attachments: Table 3a 3b 3c &3d - GW Lab Results.xlsx; Figure 4 Monitoring Well Locations.pdf; Figure 5 Groundwater Contour Map.pdf

Hi Bob,

We have the draft Site Investigation report ready to go for MCABI and should be sending it out to you soon. One issue, however, I wanted to discuss with you before submitting the report is the arsenic concentrations remaining in MW1800. Up to four rounds of groundwater samples have been collected from MW1800 for dissolved arsenic. In addition, a sample was collected from TW800 (installed at the same location) prior to installation of MW1800. Overall, these five rounds of samples illustrate a relatively stable trend with the exception of a significant decrease in arsenic during August 2016. MW1800 is located in the area of the future parking lot which the contractor plans to pave on July 10th. The question has arisen whether or not further monitoring would be needed at the well and whether or not it could be abandoned at this time. Since we do have five rounds of monitoring from this area and a relatively stable trend of arsenic, I am proposing to abandon the well and request closure of the site once the capping work is complete. Copies of the lab results are attached as well as the monitoring well site map.

I know there have been some past discussions regarding installing another well downgradient of MW1800 to define the extent. My concern here is that the nearest location downgradient of MW1800 would be in the Ludington St. right of way or on Marinette Marine Property. I thought similar contamination/fill was found in these areas so I think it would be hard to distinguish between contamination coming from an off-site release or migrating from this site. Please let me know your thoughts about abandoning the well and whether or not completion of additional groundwater monitoring or an additional well would be necessary. I am not sure if you would be able to provide a response prior to July 10th when they plan to pave, but whatever you can do to expedite a response would be appreciated. Thanks,

Lynelle Caine
Senior Project Manager
Stantec
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Cell: (920) 655-7211
Lynelle.Caine@stantec.com



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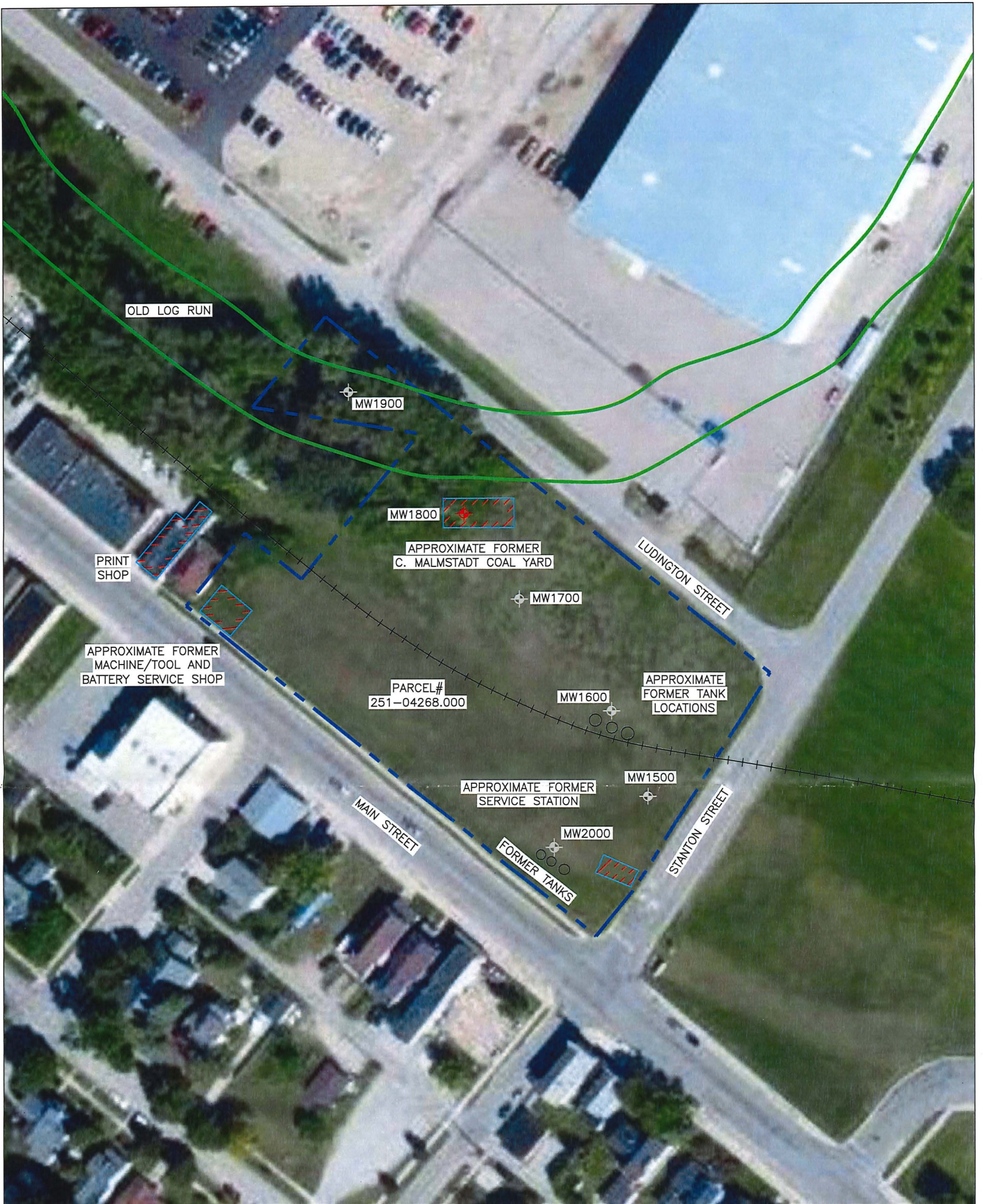
 Please consider the environment before printing this email.

Table 3a Groundwater Sample RCRA Metals Laboratory Results, MCABI-Tyco Redevelopment Property, Marinette, Wisconsin


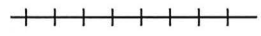


Well Number	Date Collected	Laboratory Results in micrograms per liter (µg/l)							
		RCRA Metals							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
NR 140 Preventive Action Limit (µg/l)		1	400	0.5	10	1.5	0.2	10	10
NR 140 Enforcement Standard (µg/l)		10	2000	5	100	15	2	50	50
TW100	07/09/15	1.1	59.5	<0.26	<1.0	<1.5	<0.050	<12	<2.0
TW300	07/09/15	<0.50	32.1	<0.26	<1.0	<1.5	<0.050	<12	2.2 J
TW600	07/10/15	4.5	165	<0.26	<1.0	<1.5	<0.050	<12	<2.0
DUP (TW600)	07/10/15	5.2	170	<0.26	<1.0	<1.5	<0.050	<12	3.8 J
TW800	07/10/15	65.2	71.8	<0.26	<1.0	<1.5	<0.050	<12	<2.0
TW1100	07/10/15	9.7	140	<0.26	2.4 J	<1.5	<0.050	26.7 J	<2.0
MW1600	10/14/15	<0.44	---	---	---	---	---	---	---
MW1700	10/14/15	1.0	---	---	---	0.15 J	---	---	---
	08/04/16	0.74J	---	---	---	---	---	---	---
MW1800	10/14/15	24	---	---	---	---	---	---	---
	08/04/16	5.5	---	---	---	---	---	---	---
	10/06/16	38	---	---	---	---	---	---	---
	04/13/17	38.9	---	---	---	---	---	---	---
MW1900	10/14/15	7.0	---	---	---	---	---	<0.83	---
	08/04/16	4.0	---	---	---	---	---	---	---

Key:

- RCRA = Resource Conservation and Recovery Act
- <X = analyte not detected above method detection limit
- "J" = analyte detected between limit of detection and limit of quantitation
- X = concentration detected above Chapter NR 140, Wisconsin Administrative Code(NR 140, Wis. Adm. Code) preventive action limit (PAL)
- X** = concentration detected above NR 140, Wis. Adm. Code enforcement standard (ES)
- NE = not established
-
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LEGEND

-  APPROXIMATE PROPERTY LINE
-  APPROXIMATE LOCATION OF FORMER CHICAGO NORTH WESTERN SIDING RAILROAD
-  MW1800 MONITORING WELL LOCATION
-  MW1500 ABANDONED MONITORING WELL LOCATION



SCALE IN FEET



1165 Scheuring Road, De Pere, Wisconsin, 54115
 Phone: 920-592-8400 Fax: 920-592-8444

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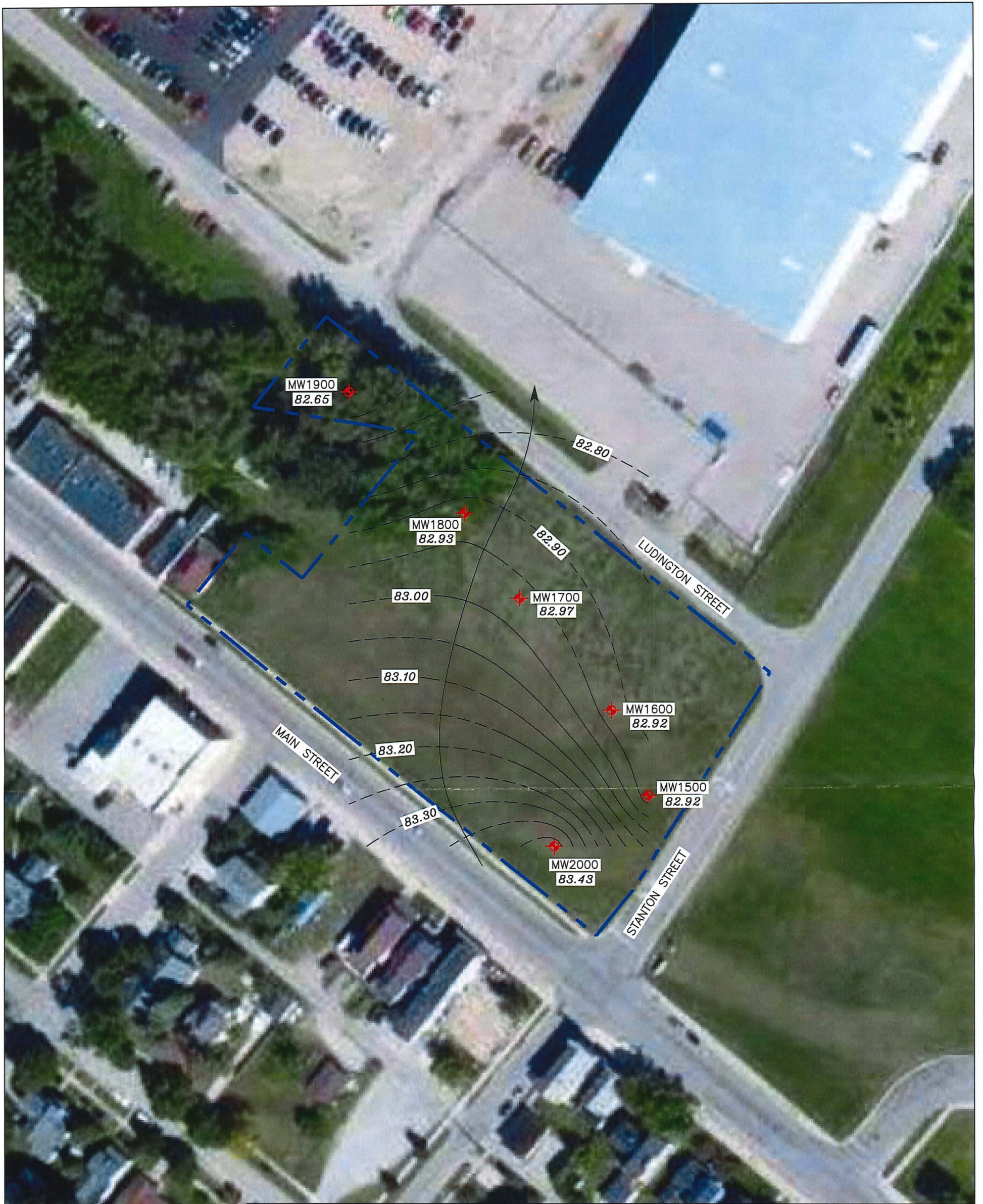
DATE: 11/05/15 DRAWN BY: JRB TASK NUMBER: 3.0.1

SITE LAYOUT WITH MONITORING WELL LOCATIONS

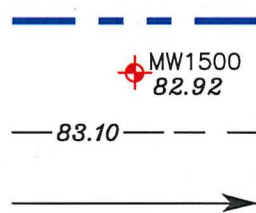
TYCO PROPERTY
 MAIN STREET
 MARINETTE, WISCONSIN

PROJECT NUMBER: 193704595

FIGURE 4



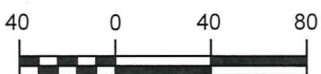
LEGEND



APPROXIMATE PROPERTY LINE
 MONITORING WELL LOCATION AND GROUNDWATER ELEVATION ON 10/14/15
 GROUNDWATER CONTOUR LINE: DASHED WHERE INFERRED
 CONTOUR LINE INTERVAL = 0.05 FEET
 GROUNDWATER FLOW DIRECTION



SCALE IN FEET



1165 Scheuring Road, De Pere, Wisconsin, 54115
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**GROUNDWATER CONTOUR
 MAP (10/14/15)**

MCABI-TYCO REDEVELOPMENT
 PROPERTY, MAIN STREET,
 MARINETTE, WISCONSIN