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1.0 INTRODUCTION

This Progress Report has been prepared by ARM Group LLC (ARM), which presents the 2025 Interim Measure (IM) conducted for the Rod and Wire Mill (RWM) located at the Tradepoint Atlantic (TPA) property. This report includes:

- a brief history of the RWM area,
- a description of historical interim measures that operated at the RWM,
- a description of additional remedial efforts that were completed in 2016 and 2017 to treat soil and groundwater in the RWM area,
- the groundwater flow patterns and contaminant distribution, and
- an evaluation of the effectiveness of the interim measure to date.

1.1. TPA SITE BACKGROUND

The TPA property is located in Baltimore County, Maryland at the southeastern corner of the Baltimore metropolitan area, approximately nine miles from the downtown area. The property encompasses approximately 3,100 acres located on a peninsula situated on the Patapsco River near its confluence with the Chesapeake Bay, physically positioned in the mouth of the heavily industrialized and urbanized Baltimore Harbor/Patapsco River region. A land connection to the northeast links the peninsula with the adjacent community of Edgemere.

From the late 1800s until 2012, the property was used for the production and manufacturing of steel. Iron and steel production operations and processes at the RWM (the Site) included raw material handling, coke production, sinter production, iron production, steel production, and semi-finished and finished product preparation. In 1970, Sparrows Point was the largest steel facility in the United States, producing hot and cold rolled sheets, coated materials, pipes, plates, and rod and wire. The steelmaking operations at the facility ceased in fall 2012, and current plans for the Site include demolition and redevelopment over the next several years. Some portions of the Site have already undergone remediation and/or redevelopment.

The original topography of the peninsula was relatively flat with elevations not exceeding 15 feet based on the North American Vertical Datum 1988 (NAVD88). The peninsula has been significantly altered since the inception of steel manufacturing activities. Creeks have been filled in and new land has been added to various areas of the Site by building up near-shore areas of the river.

1.2. SITE OWNERSHIP HISTORY

Bethlehem Steel Corporation operated an integrated steelmaking facility at the Site from approximately 1916 through 2003. As a result of multiple market factors, Bethlehem Steel declared bankruptcy in 2001 and the facility was subsequently operated by a succession of owners, the last of which (RG Steel Sparrows Point, LLC) filed for bankruptcy in 2012. The Site was subsequently

purchased by Sparrows Point, LLC (SPLLC) at a bankruptcy sale on August 7, 2012. Sparrows Point Terminal, LLC (SPT) purchased the real property on September 18, 2014. SPT has subsequently undergone a name change and is now doing business as TPA.

1.3. REGULATORY PROCESS

Environmental responses for the RWM are being implemented pursuant to the following:

- Multi-Media Consent Decree (Decree) between Bethlehem Steel Corporation, the United States Environmental Protection Agency (EPA), and the Maryland Department of the Environment (MDE) (effective October 8, 1997); this Decree has been modified in accordance with a stipulated order entered into by SPLLC and the respective agencies effective July 28, 2014;
- Administrative Consent Order between SPT and the MDE (effective September 12, 2014); and,
- Settlement Agreement and Covenant Not to Sue between SPT and the EPA (effective November 25, 2014).

The original Consent Decree for the Sparrows Point facility dealt with many issues associated with ongoing iron-making, steel-making, coking, byproduct, plating, and finishing operations. To the extent that these operations are no longer conducted, and the associated facilities no longer exist, many specific requirements of the Decree are no longer applicable and have been removed in accordance with the stipulated order implementing modifications to the Decree. The RWM is part of the acreage that remains subject to the requirements of the Decree as documented in correspondence received from EPA on September 12, 2014.

2.0 ROD AND WIRE MILL

2.1. SITE DESCRIPTION

2.1.1. Historical RWM Industrial Activities

The RWM is located in the northwestern portion of the TPA property. This area has also been given the designation of Parcel A3, as the TPA property as a whole has been divided into several separate parcels. Parcel A3 (the RWM), is shown in **Figure 1.**

The RWM is the location of the former mill that produced rods and wire products from the 1940s to the early 1980s. All manufacturing activities at the RWM ceased operation in the early 1980s with subsequent demolition of all structures between 1994 and 2000, based on historical aerial photos.

Manufacturing activities at the RWM included leaching of zinc ore and a subsequent treatment process to remove cadmium impurities. The leaching process was implemented in large tanks located inside the north end of the former RWM building. From the 1950s, the acidic leach residue was stored in the Northwest Pond until about 1959 when filters were utilized to dewater the residues. Dewatered sludge generated from this process was temporarily stored on the ground outside the north end of the mill in the Former Sludge Bin Storage Area. Filtrate from the dewatering process was recycled to the wire plating process. Excess filtrate was discharged to the East Pond until 1971, after which it was sent to the Humphrey Creek Wastewater Treatment Plant (HCWWTP) for treatment. These operations ended in the early 1980s when the RWM was shut down. The former locations of the Northwest Pond, the Sludge Bin Storage Area, and the East Pond are shown in **Figure 2.**

2.1.2. Site Geology/Hydrogeology

In general, the subsurface geology at the RWM includes slag fill materials overlying natural soils, which include fine-grained sediments (clays and silts) and coarse-grained sediments (sands). Groundwater occurrence at the Site has been segregated into three horizons identified as shallow, intermediate, and deep hydrogeologic zones.

The shallow hydrogeologic zone includes slag fill material or recent sedimentary deposits and the unconfined water table at the Site. Monitoring wells and piezometers designated as shallow are screened within this uppermost, unconfined water bearing unit. The “shallow” bottom-of-screen elevations generally range from +5 to -20 feet above mean sea level (amsl). In some areas of the Site, the slag fill is directly underlain by and hydrologically connected to, the coarser-grained beds or lenses within the Talbot Formation that comprise the Upper Talbot Channel unit. In these areas, the slag fill and Upper Talbot Channel units form a single groundwater flow system. In much of the investigation area, the slag fill material is underlain by finer-grained silts and clays that

comprise the Talbot Clay Aquitard. In these areas, shallow groundwater flow may be separated from groundwater in any underlying coarse-grained beds or lenses.

The intermediate hydrogeologic zone was the focus of the pump and treat interim measure formerly used at the Site (1986-1999/2001-2016) and is therefore also referred to as the intermediate pumping zone. The intermediate zone includes the unconfined to partially confined groundwater in the Pleistocene-aged Upper Talbot unit. The "intermediate" bottom-of-screen elevations range from approximately -20 to -50 feet amsl. The presence of clay and silt layers within the intermediate hydrogeologic zone likely retard the vertical recharge of groundwater from the upper fill material and Upper Talbot Channel unit.

The lower hydrogeologic zone includes the confined groundwater in the Lower Talbot or Upper Patapsco Sand unit. One well (RW06R-MWD), has been installed in this deep hydrogeologic unit, with a total depth of 62 feet below ground surface. However, the deep hydrogeologic zone is not a primary focus of this groundwater investigation. Hydrogeologic zones at greater depth are known to exist based on a review of the regional geology; however, these deeper units are isolated from the upper three units and impacts associated with the former iron and steel operations have not been identified.

2.2. Historical Interim Measures for Groundwater Conditions

The historical operations within the RWM resulted in releases of cadmium and zinc to soil and groundwater. In 1986, a soil and groundwater remediation program was initiated to address groundwater exhibiting elevated levels of cadmium and zinc, as well as residual soil contamination in the Sludge Bin Storage Area. Remediation initially consisted of a soil flushing program and associated pumping and treatment of groundwater from shallow and intermediate wells. The groundwater pumping was discontinued, and the treatment plant was dismantled in 1999 to support the demolition of the RWM, allowing for reassessment of the IM. A work plan to re-establish interim measures was submitted to the reviewing agencies (MDE and EPA) in July 2000, and the work plan was approved in November 2000. Re-establishment of the interim measures included the following:

- Institutional controls for soils were established to provide a "Restricted Work Area" to control the exposure of onsite workers to soils in the Former Sludge Bin Storage Area.
- A groundwater monitoring network consisting of 31 wells was installed to monitor the performance of the groundwater pump and treat system. This monitoring network was used to collect water level and groundwater quality data.
- A groundwater pump and treatment system was operated and maintained, which consisted of two intermediate zone recovery wells (RW10-PZM020 and RW15-PZM020) that removed water at a combined rate of between 5 and 12 gallons per minute (gpm). The expected normal operating rate for the treatment system was set at a combined rate of 8 to 12 gpm, with a maximum design flow of 25 gpm.

- Recovered groundwater was transported via a pipeline to the HCWWTP for subsequent treatment and discharge in accordance with the National Pollutant Discharge Elimination System permit requirements for the facility.

The pumping and treatment of groundwater resumed in September 2001, and continued until September 2016, when it was stopped to support the construction activities at the RWM. In particular, the pumping wells and associated pumps, piping, and pipe racks were shut down and removed in order to install the alkaline charged remediation trenches. The remediation trenches were constructed between October and December 2017 (*Interim Measures Construction Report, In-Situ Groundwater Treatment*, Advanced GeoServices Corp. [AGS], January 2018).

3.0 INTERIM MEASURES AND GROUNDWATER CONDITIONS

3.1. INTERIM MEASURE REMEDIAL APPROACH

AGS was contracted to design and install remediation trenches to serve as the interim measure for remediating groundwater at the RWM. The full details of the remediation design are presented in the AGS work plan, *Interim Measure Work Plan In-Situ Groundwater Treatment* (AGS, 2016). The primary purpose of this interim measure, which focused on groundwater in the intermediate zone, was to reduce concentrations of dissolved metals and to minimize contaminant discharges from this zone to surface water. In the IM design, the groundwater velocities were expected to be slow, in the range of 5 to 10 feet per year (later calculated to be less than five feet per year in the *RWM Interim Measure Supplemental Investigation Report* [ARM 2020]). Groundwater in the shallow zone was noted to have a higher pH compared to the intermediate zone due to the presence of slag fill, and as a result, the distribution of metals impacts in the shallow zone groundwater indicates limited mobility (i.e., lack of migration). Therefore, the intermediate zone was the primary focus of the interim measure.

Groundwater extraction from the pumping wells ceased in September 2016 to support the construction of the remediation trenches. The objective of the remediation trenches is to address the elevated dissolved cadmium and zinc in the intermediate groundwater zone by precipitating the dissolved metals *in-situ*. This is achieved by raising the existing groundwater pH from approximately 4 to above 7.0 through the addition of alkaline reagents into the intermediate groundwater zone at select high concentration areas. To accomplish this, excavated soils were replaced with alkaline charges that react with acidic groundwater to create alkaline conditions within the aquifer and remove the dissolved cadmium and zinc from solution. The alkaline charges utilized a combination of fast acting TerrabondMG (40% by weight) in conjunction with limestone aggregate (60% by weight). The reagents were placed in trenches in a staggered/offset alignment perpendicular to the anticipated groundwater flow. A typical cross-section of a remediation trench is provided as **Figure 3**, and the approximate locations of the trenches are shown on the various maps provided as part of this report.

Paving at the RWM, completed around the end of March 2018, has reduced aquifer recharge from precipitation. While the whole Site is not paved, and it is possible there is some recharge to the intermediate zone via shallow zone groundwater draining through the trenches, the potentiometric surface is nearly flat in the intermediate zone. A lack of gradient in the intermediate zone results in a slow groundwater velocity which controls the rate of treatment by the trenches. As part of creating an updated conceptual site model in the *RWM Interim Measure Supplemental Investigation Report* (ARM 2020), lateral groundwater flow velocities were calculated based on groundwater level measurements in May 2019. Groundwater flow velocity was calculated at 33.8 ft/year in the shallow zone and 4.94 ft/year in the intermediate zone. Details of these calculations can be found in the *RWM Interim Measure Supplemental*

Investigation Report (ARM 2020). Groundwater flow velocities were verified with 2023 data; there were no changes to the results.

Approximately 2,392 cubic yards of contaminated soil were removed from the RWM during construction of the trenches and disposed of at an offsite facility. Construction of the trenches was completed in January 2017. In addition, approximately 27,000 CY of contaminated soil were excavated and removed from the RWM in 2017 during hot spot excavations (metals excavations and non-aqueous phase liquid [NAPL]/oil and grease excavations).

The interim groundwater treatment goals are to increase the pH in the intermediate groundwater zone in order to precipitate the dissolved metals and achieve a reduction in dissolved concentrations of cadmium and zinc within and downgradient of the source areas. Ultimately the treatment goal is to demonstrate that the concentrations of the primary contaminants (cadmium and zinc) in groundwater discharging at the shoreline/property boundary are acceptable.

3.2. GROUNDWATER WELL NETWORK

In 2025, the monitoring network for the shallow and intermediate zones at the Site included 73 existing wells. Well construction details for all wells are included in **Table 1**. A "well pair" refers to one shallow zone well and one intermediate zone well installed adjacent to each other whose well names begin with the same prefix (e.g., RWA-MWS and RWA-MWI). Shallow zone wells have been assigned a well name ending in "-MWS" while intermediate zone wells have been assigned a well name ending in "-MWI". The sampling frequencies for the shallow zone and intermediate zone wells are included in **Tables 2 and 3**. Note that deep well RW06R-MWD is sampled annually, but does not fall into the shallow or intermediate zones. It is included on **Table 1** and **Table 3**. Also note that perched well RW21-MWP is included on **Table 1** and **Table 2**, but is generally not sampled because it was installed for NAPL monitoring and does not fall into the shallow or intermediate zones.

For the purpose of evaluating trends in groundwater, monitoring wells at the Site have been categorized into four monitoring areas:

- The "upgradient" wells are located farthest upgradient, generally farthest to the east.
- The "delineation" wells are located along the northern boundary of the Site.
- The "interior" wells are located in the central portion of the Site. The focused well pairs (RWJ, RWK, and RWL) are a subset of interior wells that were installed directly adjacent to one of the trenches to help assess the trench performance. Their proximity to the trench is very important due to the slow intermediate zone groundwater velocity calculated for the Site.
- The "downgradient perimeter" wells are generally located farthest to west (downgradient), running north-south.

Table 2 and **Table 3** list the monitoring area of each well.

As detailed in the *RWM Supplemental Investigation Report* (ARM, 2020), well pairs J-K-L were installed in close proximity to the western most trench in order to evaluate the trench performance. Well pair RWJ was installed directly adjacent to the trench. The other two well pairs (RWK and RWL) were installed progressively further from the RWJ pair in the southwestern direction, with the RWK pair approximately 10 feet away and the RWL pair approximately 25 feet away. These three well pairs, along with the RW12 well pair (located immediately upgradient of the western-most trench and approximately collinear with the J-K-L pairs), are used to assess the near-field effect of one of the remediation trenches.

Groundwater samples were collected from all existing shallow and intermediate wells on a monthly basis from February 2017 through January 2018. Following the January 2018 sampling event, groundwater samples were collected from all existing shallow and intermediate wells on a quarterly basis.

ARM submitted a *RWM Monitoring Well Network Update Letter* dated March 8, 2021 (MNU Letter, ARM, 2021a) to outline an updated groundwater sampling plan for the calendar year of 2021 and beyond. This plan consisted of collecting samples from some wells on a semiannual basis and others on an annual basis. The MNU Letter included tables showing the updated sampling frequency for the wells and the rationale for each. These tables are included as **Table 2** (shallow wells) and **Table 3** (intermediate wells).

As part of roadway expansion associated with Riverside Drive, monitoring wells RW01-MWS-RW01-MWI, RW02-MWS, RW02-MWI, and RW06-MWI were properly abandoned on April 25, 2023, in accordance with the *Parcel A3 Well Abandonment Request Letter* (ARM 2023). Therefore, these locations were last sampled during the Spring 2023 event. Monitoring well RW05-MWS was destroyed as part of this roadway expansion work between the Spring 2023 and Fall 2023 sampling events. Three of the monitoring wells (RW01R-MWS, RW01R-MWI, and RW05R-MWS) were proposed for reinstallation in the *Parcel A3 Well Reinstallation Letter Request* (ARM 2023a). Agency approval was received on October 2, 2023 via email. Reinstallation of these three wells (MW01R-MWS, MW01R-MWI, and MW05R-MWS) was completed in August 2025. Well construction details are listed in **Table 1**, and well construction logs are included in **Appendix A**. The wells were properly developed and sampled for the first time during the Q3 2025 sampling event.

This IM Progress Report summarizes groundwater conditions following remediation trench installation, with focus on the results of the two semiannual sampling events completed in 2025. For 2025, samples collected for the first quarter sampling event (Q1) were collected from March 18 to April 4, 2025, and samples collected for the third quarter sampling event (Q3) were collected from September 4-18, 2025. In Q3 2024, concentrations in RW23-MWS and RWH-MWS were considered anomalous and were re-sampled in February 2025. Additional samples were collected in March / April 2025 as the Q1 2025 samples. In the Q3 2025, concentrations in RW23-MWS, RWA-MWS, RWK-MWS, and RWK-MWI were considered anomalous and were re-sampled in

November 2025. The anomalous sample results are included in the relevant tables, but not in the trend figures.

3.3. GROUNDWATER CONDITIONS IN 2025

3.3.1. Shallow Groundwater Zone

3.3.1.1 Groundwater Elevations

A synoptic round of groundwater level measurements was collected for the Q1 and Q3 sampling events. Based on the field measurements, groundwater potentiometric surface maps were constructed for the shallow zone for the Q1 and Q3 events and are included as **Figure 4** and **Figure 5**, respectively. As shown on the figures, the predominant flow direction for the shallow zone in the eastern portion of the Site is to the west. In the central and west portions of the Site, groundwater flow is predominantly to the west and northwest. In the southwest portion of the Site (south of RW06R-MWS) flow is predominantly to the west and southwest.

3.3.1.2 Zinc

Results for zinc concentrations in shallow wells are shown in **Table 4.** Laboratory reports for samples collected during 2025 are included as electronic attachments.

Figure 6 displays the distribution of zinc concentrations in the shallow zone during the 2025 sampling events. The maximum values for each well sampled during the 2025 sampling events, (excluding the anomalous results where resampling was conducted in November 2025), were used to complete the concentration map. All zinc results are compared to the relevant surface water criterion of 81 micrograms per liter (µg/L).

Time series graphs of zinc concentrations in shallow wells are shown in **Figures 7** through **12**. Note that results prior to 2019 are not included and only wells currently sampled are plotted. Non-detects are plotted showing one half (1/2) of the detection limit. The charts include the four well groups discussed above and are divided up further based on installation date. Wells installed in 2017 or prior are termed “original wells”, and wells installed in 2019 are termed “supplemental wells”. Replacement wells of “original wells” retained the term “original wells”.

- **Figure 7**: shallow downgradient perimeter wells, original wells
- **Figure 8**: shallow downgradient perimeter wells, supplemental wells
- **Figure 9**: shallow interior wells, original wells
- **Figure 10**: shallow interior wells, supplemental wells
- **Figure 11**: shallow delineation wells, all wells
- **Figure 12**: shallow upgradient wells, all wells

Several items to note include:

- Downgradient perimeter wells: The highest detected zinc concentration in shallow downgradient wells was at RW22R-MWS, located northwest of the remediation trenches. This location has historically had the highest observed zinc concentration of the downgradient perimeter wells. Zinc concentrations in RWA-MWS, located to the west (downgradient) of RW22R-MWS and closer to the shoreline, are significantly lower. Zinc concentration at RW03R-MWS increased significantly during the Q3 2025 sampling event (to 3,456 µg/L). RWA-MWS was re-sampled in November 2025, when zinc was detected at 1,215 µg/L. While this is above recent results (maximum of 628 µg/L since 2020) it is below the Q3 2019 result of 1,720 µg/L. The Q3 2025 result is included in **Table 4**, but not in **Figure 6** or **Figure 8**. Zinc concentrations at RWA-MWS will continue to be monitored to determine if this is a longer-term trend.
- Interior wells: The highest detected zinc concentration was at RWN-MWS (566,800 µg/L), located directly east of the western-most remediation trench; this is consistent with the historic data. The zinc concentration at RW23-MWS has fluctuated significantly over the past several sampling events. After multiple years of concentrations below the relevant surface water criteria (81 µg/L), RW23-MWS exceeded this threshold during the Q3 2024 sampling event (539 µg/L), but was resampled in February 2025, where zinc was not detected at a reporting limit of 10 µg/L (in line with most of the previous sampling events). In Q3 2025, zinc was detected in RW23-MWS of 19,010 ug/L, which has been deemed erroneous. The resample in November 2025 did not identify zinc above the reporting limit of 10 µg/L (again in line with most of the previous sampling events). The erroneous results from Q3 2024 and Q3 2025 are included in **Table 4**, but not in **Figure 6** or **Figure 10**.
- Upgradient/delineation wells: Zinc was detected at high concentrations (compared to other shallow well concentrations during 2025) east of the trenches near the southern edges of the Former East Pond at RWR-MWS; this is consistent with the historic data. The zinc concentration observed at RWQ-MWS increased significantly during the Q3 2025 sampling event.

Refer to **Section 3.4** for trend analysis.

3.3.1.3 Cadmium

Cadmium concentrations in shallow wells are shown in **Table 5.** Laboratory reports for samples collected during 2025 are included as electronic attachments.

Figure 13 displays a map of the distribution of cadmium concentrations in the shallow zone during the 2025 sampling events. The maximum values for each well sampled during the 2025 sampling events (excluding the anomalous results where resampling was conducted in November 2025) were used to complete the concentration map. All cadmium results are compared to the relevant surface water criterion of 7.9 µg/L.

Time series graphs of cadmium concentrations in shallow wells are shown in **Figures 14** through **19**. Non-detects are plotted using one half (1/2) of the detection limit. The charts include four different well groups and are further divided based on installation date. Wells installed in 2017 or prior are termed "original wells" and wells installed in 2019 are termed "supplemental wells". Replacement wells of "original wells" retained the term "original wells".

- **Figure 14**: shallow downgradient perimeter wells, original wells
- **Figure 15**: shallow downgradient perimeter wells, supplemental wells
- **Figure 16**: shallow interior wells, original wells
- **Figure 17**: shallow interior wells, supplemental wells
- **Figure 18**: shallow delineation wells, all wells
- **Figure 19**: shallow upgradient wells, all wells

Several items to note include:

- Downgradient perimeter wells: Concentrations of cadmium in perimeter shallow wells were generally in line with historical concentrations except for RWA-MWS and RWF-MWS. These two locations showed significant increases in cadmium concentration during the Q3 2025 sampling event. Due to the anomalously high concentration observed at RWA-MWS, this location was resampled in November 2025 and showed a lower but still elevated concentration.
- Interior wells: The highest detected cadmium concentration was at RWN-MWS, located within the Former Sludge Bin Storage Area, consistent with the historic data. Similar to the zinc concentrations, the cadmium concentrations at RW23-MWS have fluctuated significantly over the past several sampling events. After multiple years of concentrations below the relevant surface water criteria (7.9 µg/L), RW23-MWS slightly exceeded this threshold during the Q3 2024 sampling event (8.46 µg/L), but was resampled in February 2025; where cadmium was estimated at 0.0766 J µg/L (in line with most of the previous sampling events). Then, the Q3 2025 sampling event reported a cadmium concentration at RW23-MWS of 414 ug/L, which has been deemed erroneous. The resample in November 2025 estimated cadmium at 0.0745 J µg/L (again in line with most of the previous sampling events). The erroneous results from Q3 2024 and Q3 2025 are included in **Table 5**, but not in **Figure 13** or **Figure 17**. This trend will continue to be monitored. The cadmium concentration at RWL-MWS increased significantly during the Q3 2025 sampling event.
- Upgradient/delineation wells: The 2025 cadmium results in upgradient and delineation wells are generally within historical ranges.

Refer to Section 3.4 for trend analysis.

3.3.1.4 pH

All 2025 shallow zone field parameter data, including pH, for the wells that were sampled are summarized in **Table 6**. Average measurements of pH in the shallow groundwater zone from the 2025 sampling events are shown on **Figure 20**. Wells RWJ-MWS, RW03R-MWS, and RW16-MWS had relatively high pH values, which is consistent with previous sampling events.

3.3.2. Intermediate Groundwater Zone

3.3.2.1 Groundwater Elevations

A synoptic round of groundwater level measurements was collected for each of the Q1 and Q3 2025 sampling events. Based on these field measurements, groundwater elevation contour maps were constructed for the intermediate zone for the two semiannual events (included as **Figure 21** and **Figure 22**, respectively). The groundwater elevations reveal that the potentiometric surface in the intermediate zone was nearly flat during both 2025 events, with very little variation (generally less than a foot of difference) amongst most calculated groundwater elevations across the Site.

Groundwater elevations in the intermediate zone are generally lower than in the shallow zone, indicating an overall downward vertical gradient. The RW01R, RW05R, RWE, and RWF locations showed a higher groundwater elevation in Q3 in the intermediate wells than in the shallow wells, indicating a potential localized upward vertical gradient. Localized upward vertical gradients have been observed during several gauging events at various well pairs prior to 2025.

3.3.2.2 Zinc

All intermediate well zinc results are included in **Table 7**. Laboratory reports for samples collected during 2025 are included as electronic attachments.

Figure 23 displays a map of the distribution of zinc concentrations in the intermediate zone during the 2025 sampling events. The maximum values for each well sampled during the 2025 sampling events were used to complete the concentration map. All zinc results are compared to the relevant surface water criterion of 81 µg/L.

Time series graphs of zinc concentrations in intermediate wells are shown in **Figures 24** through **29**. Note that non-detects are plotted showing one half (1/2) of the detection limit. The charts include the four different well groups and are divided up based on installation date. Wells installed in 2017 or prior are termed “original wells”, and wells installed in 2019 are termed “supplemental wells”. Replacement wells of “original wells”, retain the term “original wells”.

- **Figure 24**: intermediate downgradient perimeter wells, original wells
- **Figure 25**: intermediate downgradient perimeter wells, supplemental wells
- **Figure 26**: intermediate interior wells, original wells
- **Figure 27**: intermediate interior wells, supplemental wells

- **Figure 28**: intermediate delineation wells, all wells
- **Figure 29**: intermediate upgradient wells, all wells

Several items to note include:

- Downgradient perimeter wells: The zinc concentrations in all perimeter intermediate wells are similar to historic concentrations (refer to **Table 7** and **Figure 24** and **Figure 25**), with the exception of RW08-MWI. In 2024, a significant increase in zinc concentration was observed at RW08-MWI (62,090 µg/L). During the 2025 sampling event, the measured zinc concentration (449 µg/L) decreased from the 2024 concentration but remains elevated in comparison to recent historical concentrations.
- Interior wells: A significant decrease in zinc concentrations were observed in RW09-MWI and RW13-MWI during the 2025 sampling event. Historically, zinc concentrations at RW09-MWI have ranged from 53,300 µg/L to 93,600 µg/L; the Q1 2025 result was 14.6 µg/L. At RW13-MWI, significant zinc concentration fluctuations have been observed historically. However, since May 2021, zinc concentrations in this well had moderately increased without fluctuations (from 363,000 µg/L to 540,700 µg/L), until a significant decrease was observed in Q1 2025 (68.6 µg/L). Both locations will be monitored during future sampling events to determine if the Q1 2025 results were anomalies.
- Upgradient/delineation wells:
    - Former East Pond Area: During the 2025 events, the zinc concentrations from RW19-MWI, RWP-MWI and RWQ-MWI were consistent with historic results, further confirming that the Q1 2023 results (significantly lower in all three wells) are presumed to be anomalous. Refer to **Figure 23**, the zinc results indicate the former East Pond area acted as a source of contaminant mass to the intermediate zone groundwater.
    - Former Northwest Pond Area: **Figure 23** shows the contaminant plume in the intermediate zone extends beyond the northern limits of the treatment trenches and suggests the former Northwest Pond area may also have acted as a source of contaminant mass to the intermediate zone groundwater. This impacted area was discussed in the *RWM IM 2020 Progress Report* (ARM 2021b) and *Parcel A3 NAPL Semi-Annual Monitoring Report* (ARM 2024); it was identified in previous sampling and delineation events but was unable to be completely excavated due to the presence of overhead electric lines. Elevated zinc concentrations continue to be observed in the Northwest Pond area, as shown at wells RWH-MWI, RWI-MWI and RW21-MWI.

Refer to Section 3.4 for trend analysis.

3.3.2.3 Cadmium

Cadmium results for all samples from the intermediate zone are included in **Table 8.** Laboratory reports for samples collected during 2025 are included as electronic attachments.

Figure 30 displays a map of the distribution of cadmium concentrations in the intermediate zone during the 2025 sampling events. The maximum values for each well sampled during the 2025 sampling events were used to complete the concentration map. Cadmium results are compared to the relevant surface water criterion of 7.9 µg/L.

Time series graphs of cadmium concentrations in intermediate wells are shown in **Figures 31** through **36**. Non-detects are plotted showing one half (1/2) of the detection limit. The charts include four different well groups and are divided up based on installation date. Wells installed in 2017 or prior are termed "original wells", and wells installed in 2019 are termed "supplemental wells". Replacements of "original wells", retain the term "original wells".

- **Figure 31**: intermediate downgradient perimeter wells, original wells
- **Figure 32**: intermediate downgradient perimeter wells, supplemental wells
- **Figure 33**: intermediate interior wells, original wells
- **Figure 34**: intermediate interior wells, supplemental wells
- **Figure 35**: intermediate delineation wells, all wells
- **Figure 36**: intermediate upgradient wells, all wells

Items to note include:

- Downgradient perimeter wells: The highest cadmium concentration in perimeter wells in 2025 was measured in well RWA-MWI (7,492 µg/L and 7,381 µg/L in Q1 and Q3 2025, respectively), consistent with the historic data.
- Interior wells: A similar trend to zinc was observed for cadmium in well RW13-MWI. Since May 2021, cadmium concentrations in this well had moderately increased (ranging from 23,700 µg/L to 38,540 µg/L), until a significant decrease was observed in Q1 2025 (3.25 µg/L). This location will be monitored during future sampling events to determine if the Q1 2025 result was anomalous. Decreases in cadmium were also observed in RW09-MWI, RW12-MWI, and RW15-MWI. RWK-MWI continues to show cadmium concentration increases (excluding the Q3 2025 result).
- Upgradient/delineation wells: The delineation well RWQ-MWI showed a significant decrease in cadmium concentration, returning to concentrations similar to those observed in Q2 2022 and Q1 2023.

Refer to Section 3.4 for trend analysis.

3.3.2.4 pH

The 2025 shallow zone field parameter data, including pH, for sampled wells are summarized in **Table 9**. Average measurements of pH in the intermediate groundwater zone from the 2025 sampling events are shown on **Figure 37**. Wells RW15-MWI, RW13-MWI, and RW16-MWI had relatively high pH values. Well RW08-MWI is the only well with an average pH value less than 4.0 since 2022.

Across the whole Site, pH is generally lower in the intermediate zone than in the shallow zone. However, the pH in the intermediate wells in the RWK and RWL well pairs was higher than it was in the corresponding shallow wells in the Q3 sampling event.

3.3.3. Focused Well Pairs J-K-L

Figure 20 and **Figure 37** show the locations of focused well pairs J, K, and L relative to the trench, along with the pH average measurements for the shallow and intermediate zones, respectively. These focused well pairs were installed in 2019, more than two years following the trench installation.

Time series graphs for the focused well pairs are shown in **Figures 38** through **42**.

- **Figure 38**: shallow zone, pH
- **Figure 39**: intermediate zone, pH
- **Figure 40**: shallow zone, zinc
- **Figure 41**: shallow zone, cadmium
- **Figure 42**: intermediate zone, zinc
- **Figure 43**: intermediate zone, cadmium

Several items to note include:

- pH: In both the Q1 and Q3 events, the RWJ well pair has the highest pH of the focused well pairs (13.89 and 13.24 in RWJ-MWS in Q1 and Q3, respectively, and 8.88 and 7.10 in RWJ-MWI in Q1 and Q3, respectively) while the RWK and RWL well pairs have significantly lower pH (below 7 in all). Measured pH values exhibit decreasing gradient moving away from the trench in the shallow and intermediate zone focused wells.
- Shallow zone: Zinc concentrations in RWJ-MWS (closest to the trench) are significantly lower than zinc concentrations in RWK-MWS or RWL-MWS, although they have increased during the 2025 sampling events. Historically, cadmium concentrations have generally not been detected above the reporting limits or surface water criteria in the shallow focused wells, however the cadmium concentration in Q3 2025 at RWL-MWS was observed above this threshold for the first time. This location will be monitored closely in future sampling events to determine if the cadmium concentration is anomalous.

- Intermediate zone: The 2025 sampling events continue to show increasing zinc and cadmium concentrations with distance from the trench. The cadmium concentrations observed at RWK-MWI have been steadily increasing since 2023 and will continue to be monitored.

The zinc concentrations, cadmium concentrations, and pH measurements in the intermediate zone suggest the permeable reactive barrier treatment technology and the reagent appear to be effective in raising the pH of the groundwater and removing dissolved metals concentrations from the groundwater.

The groundwater elevations of the focused well pairs indicate groundwater may be draining through the trenches from the shallow zone to the intermediate zone. During both the Q1 and Q3 2025 events, there is a slight groundwater elevation gradient towards the trench (from L toward J) in the shallow zone and away from the trench in the intermediate zone. The gradients in the shallow zone can be interpreted from the data shown on **Figure 4** and **Figure 5** and in the intermediate zone can be interpreted from the data shown on **Figure 21** and **Figure 22**.

3.4. Statistical Evaluation – Trend Analysis

To evaluate the distribution of parameter concentrations over time, parameters were subjected to a trend analysis. Trend analysis was performed for cadmium and zinc concentrations in existing wells with concentrations above the relevant surface water criterion using the Mann-Kendall (MK) test.

The MK test is a non-parametric test for identifying linear trends in data. The test is suitable for non-normally distributed data and is not limited by sample size. The MK test pairs measurements and assigns a score to each possible pair based on comparing the average of the pair in question to the average of a pair of earlier measurements. If the average of a particular pair of measurements is lower than the average of an earlier pair it is assigned a score of -1, if tied it is assigned a score of 0, and if higher it is assigned a score of 1. The sum of these scores is computed to obtain the Mann-Kendall Statistic (S). If S is positive, it implies an upward trend over time, if it is negative it implies a downward trend over time, an S value near zero roughly indicates that there is no apparent trend in data. As the absolute value of S gets larger, the stronger the evidence for a real increasing or decreasing trend. For larger data sets (greater than 10), the behavior of S tends to approximate a normal distribution in accordance with the central limit theorem, and a standardized statistic, Z, is used for trend identification. For higher levels of significance, the larger the absolute value of Z or S needs to be to conclude the presence of a trend in data over time. A significance level of 95 percent was used for all Mann-Kendall Tests performed for this evaluation. Data points below the detection limits were replaced with the laboratory reporting limit divided by two. No wells were excluded as a result of having too few samples. The results of the trend tests were reviewed to remove any trends that were the result of changing detection limits over time. Statistical analyses were performed using the ChemStat® statistical analysis software (version

6.3.0.2, Starpoint Software, Inc., ©1996-2013). A trend was identified as statistically significant if the Mann-Kendall Test identified it as increasing or decreasing at a 95% confidence factor.

Statistically significant trends for cadmium and zinc in existing monitoring wells are summarized **Table 10**. If no statistically significant trend was identified for a parameter, it is not shown in **Table 10**. Historical sampling dates included in the statistical trend analysis covered events from well installation (2017 to 2019) to present. The results of all trend tests are included as electronic attachments.

Overall, most wells within the remediation trench area (interior wells) have either stable or downward trends for both cadmium and zinc.

The trend analysis for the focused wells identified several increasing (cadmium in RWJ-MWI and RWK-MWI, zinc in RWK-MWS) and decreasing trends (cadmium and zinc in RWL-MWI) for the focused J-K-L wells. There are no cadmium exceedances in RWJ-MWS or RWK-MWS, so those wells were excluded from the trend analysis.

4.0 SUMMARY AND CONCLUSIONS

The current approach for addressing elevated dissolved cadmium and zinc concentrations in the intermediate groundwater zone beneath and downgradient of the source areas is to precipitate the dissolved metals *in-situ* by raising the groundwater pH above 7.0. This approach relies on impacted groundwater coming into contact with the trenches, which will raise the pH, and then precipitate the dissolved metals in the intermediate zone. The effectiveness of the interim measure is expected to be observed first in the intermediate zone wells closest to the trenches. However, the groundwater velocity is relatively slow (less than 5 ft/year in the intermediate zone), and most wells (with the exception of the focused well pairs) are located more than 50 feet from any of the trenches.

4.1. FOCUSED WELLS

The three focused well pairs, wells J - K - L, were installed directly adjacent to the western most treatment trench to help evaluate overall trench performance. Monitoring well RWJ-MWI located closest to the trench exhibited increased pH values and, most notably, significantly lower zinc concentrations when compared to the upgradient groundwater concentrations relative to the trench. Furthermore, it is notable that the pH was slightly higher in intermediate wells RWK-MWI and RWL-MWI than in their paired shallow wells RWK-MWS and RWL-MWS in Q1 of 2025. This may suggest treated groundwater from the trench may be starting to reach the RWK-MWI and RWL-MWI wells.

The rate of groundwater flow through the trenches most affects the treatment of the groundwater, and the groundwater flow rate is slow due to the flat hydraulic gradient. Refer to **Figures 4** and **5** for the shallow zone groundwater elevations and to **Figures 21** and **22** for the intermediate zone groundwater elevations.

4.2. INTERIOR WELLS

For the interior wells located within the remediation trench area, the majority have either stable or downward trends for both cadmium and zinc. Overall, areas where cadmium and zinc concentrations are highest remain unchanged. Groundwater monitoring data and the related data trends will continue to be monitored and evaluated to assess the effectiveness of the treatment trenches in precipitating the dissolved cadmium and zinc from the groundwater.

4.3. DOWNGRADIENT PERIMETER WELLS

In the shallow wells along the western shoreline (downgradient perimeter wells), zinc concentrations in most wells are above the ambient surface water quality criterion of 81 µg/L. For shallow zone cadmium concentrations, most wells are below the ambient surface water quality criterion of 7.9 µg/L.

The *RWM IM Supplemental Investigation Report* (ARM 2020) identified some areas that may be outside the intended effective zone of the remediation trenches. The long-term effectiveness of the interim measure and the need for additional or alternative remedial measures will be evaluated further as described in the *RWM Groundwater Corrective Measures Study (CMS) Work Plan* (Revision 1, dated January 14, 2021). The forthcoming RWM Groundwater CMS Report will also evaluate the existing monitoring well network for both the shallow and intermediate groundwater zones.

Groundwater sampling at the RWM for dissolved cadmium and zinc will continue in 2026 in accordance with the schedule as presented in the MNU Letter.

5.0 REFERENCES

Advanced GeoServices Corp. (2016). *Interim Measure Work Plan In-Situ Groundwater Treatment.* Revised August 22, 2016.

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ARM Group LLC (2023a). *Parcel A3 Well Reinstallation Letter Request.* September 26, 2023.

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FIGURES

LEGEND

Site Boundary

Rod & Wire Mill (RWM)

RWM

Tradepoint Atlantic
Rod & Wire Mill Location Map

February 19, 2025

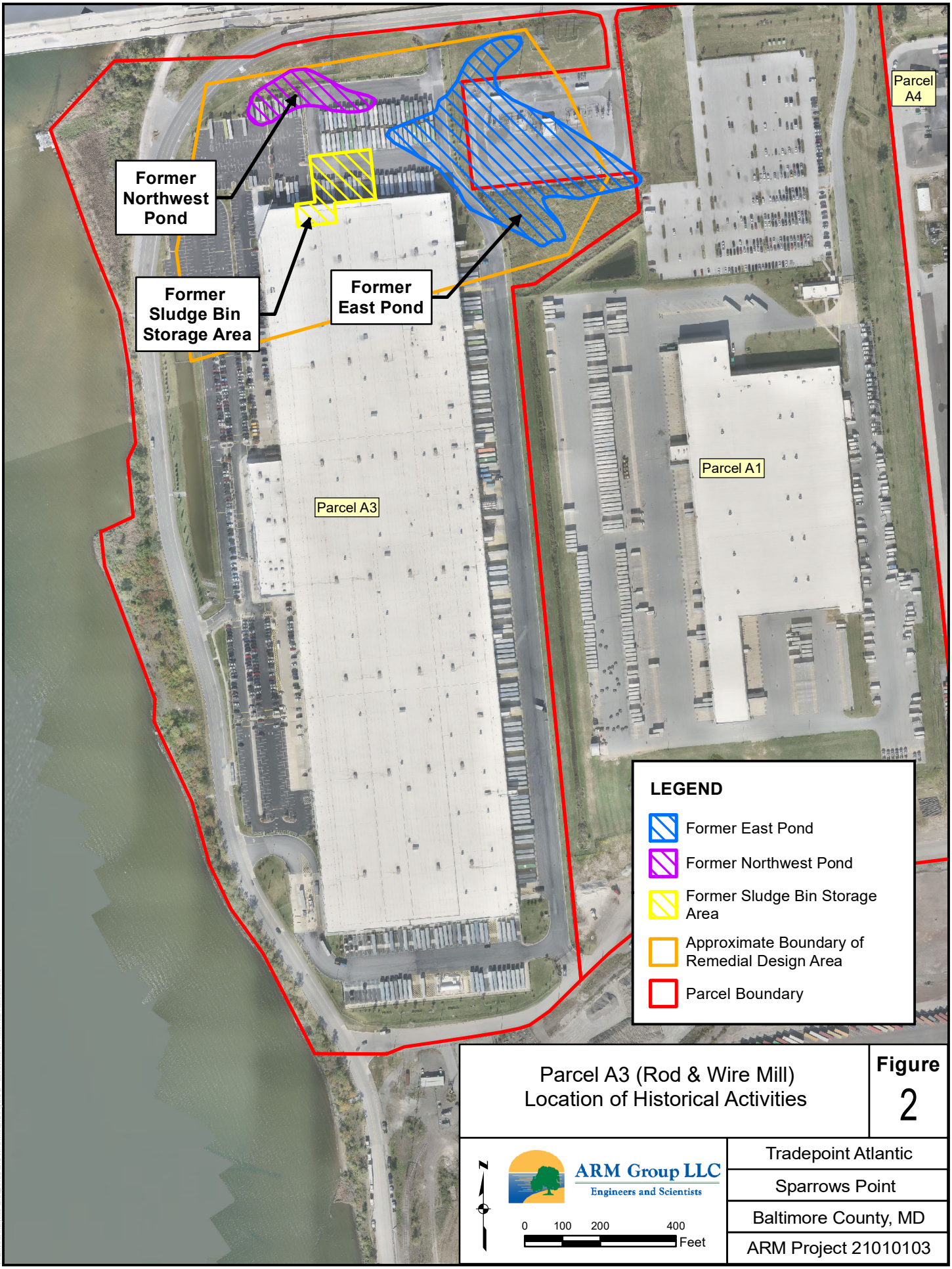
Figure 1

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0 500 1,000 2,000 Feet

Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 21010103

P:\EnviroAnalytics Group\160443M EAG_TPA Redevelopment\GIS\Site-wide Figures.mxd

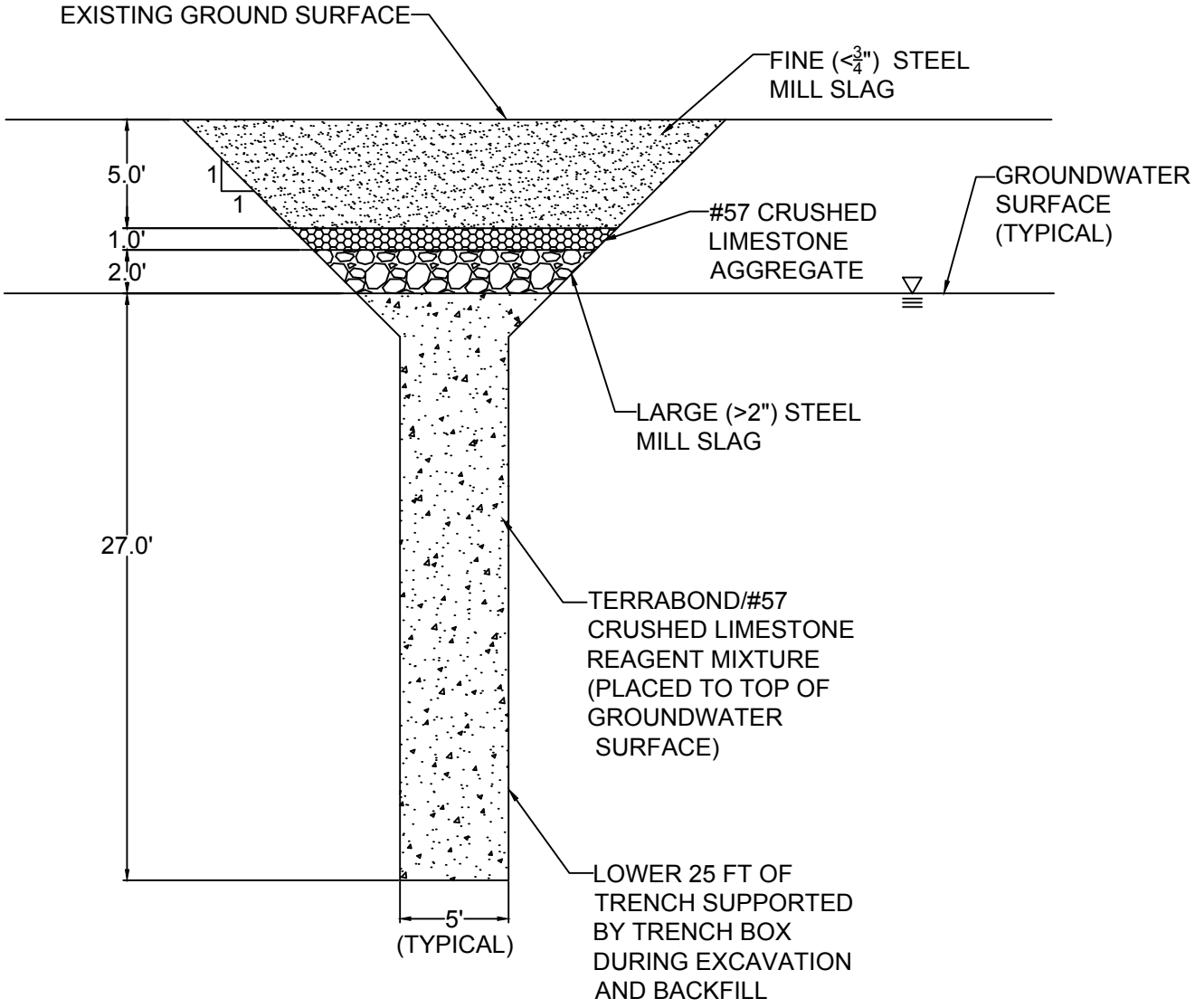


Parcel A3 (Rod & Wire Mill)
Location of Historical Activities

Figure 2

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Sparrows Point
Baltimore County, MD
ARM Project 21010103

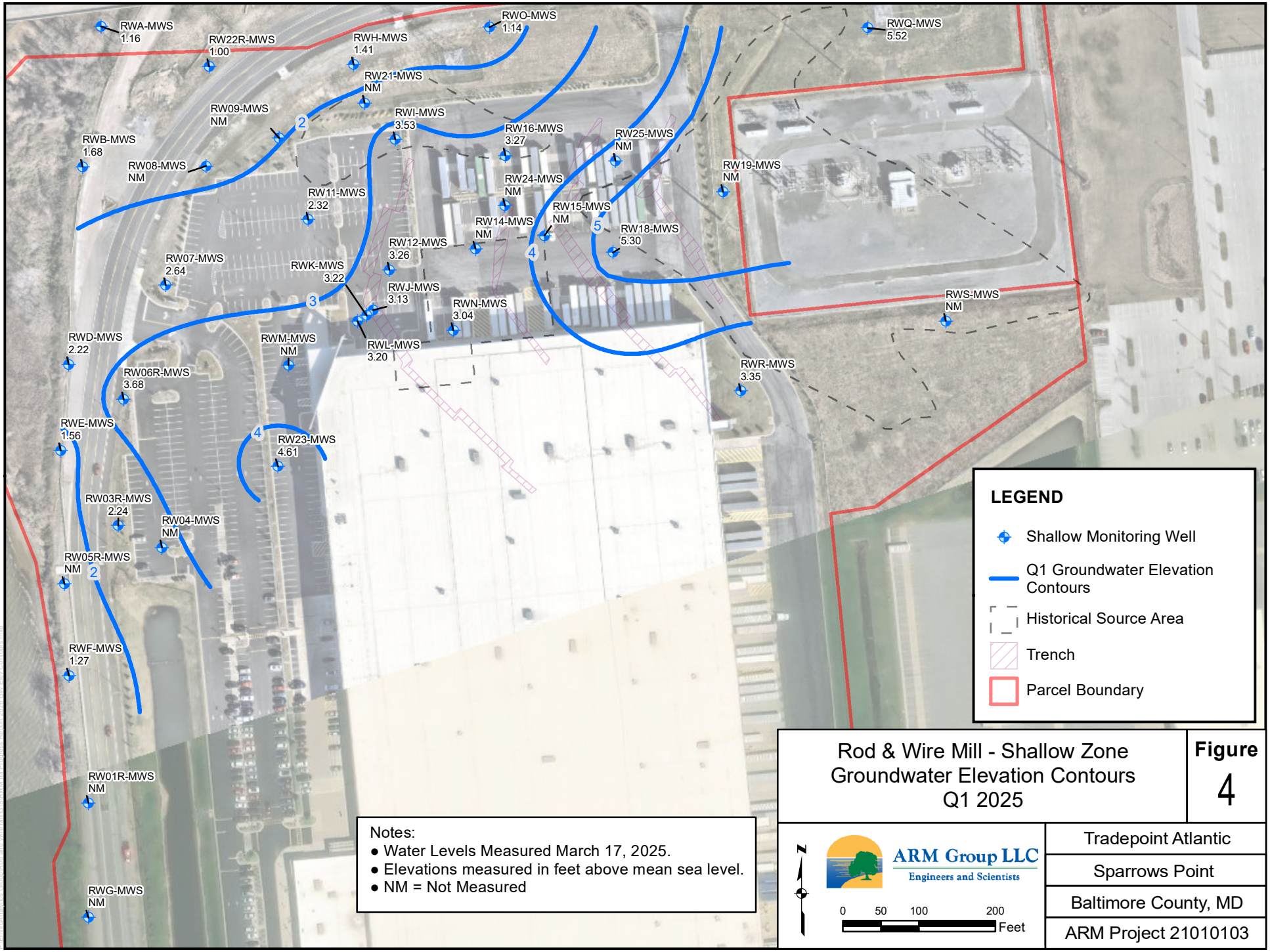


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TYPICAL TREATMENT TRENCH BACKFILL PROFILE SECTION VIEW

FORMER ROD AND WIRE MILL AREA

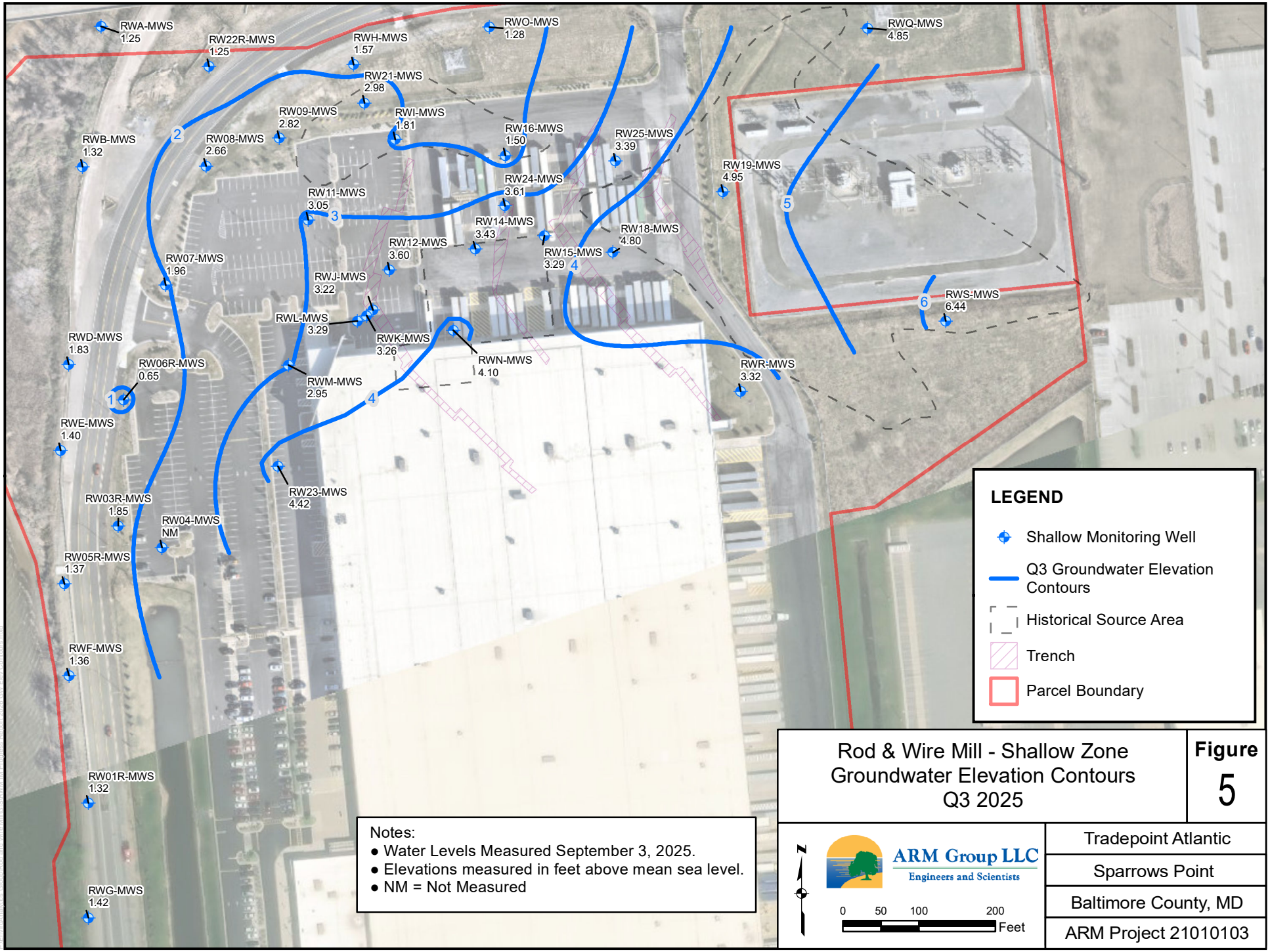
PROJECT ENGINEER:	JSD	SCALE:	1" = 8'
CHECKED BY:		PROJECT NUMBER:	2016-3421
DRAWN BY:	EEE	DATE: 3/23/2017	FIGURE: 3



Rod & Wire Mill - Shallow Zone Groundwater Elevation Contours Q1 2025

Figure 4

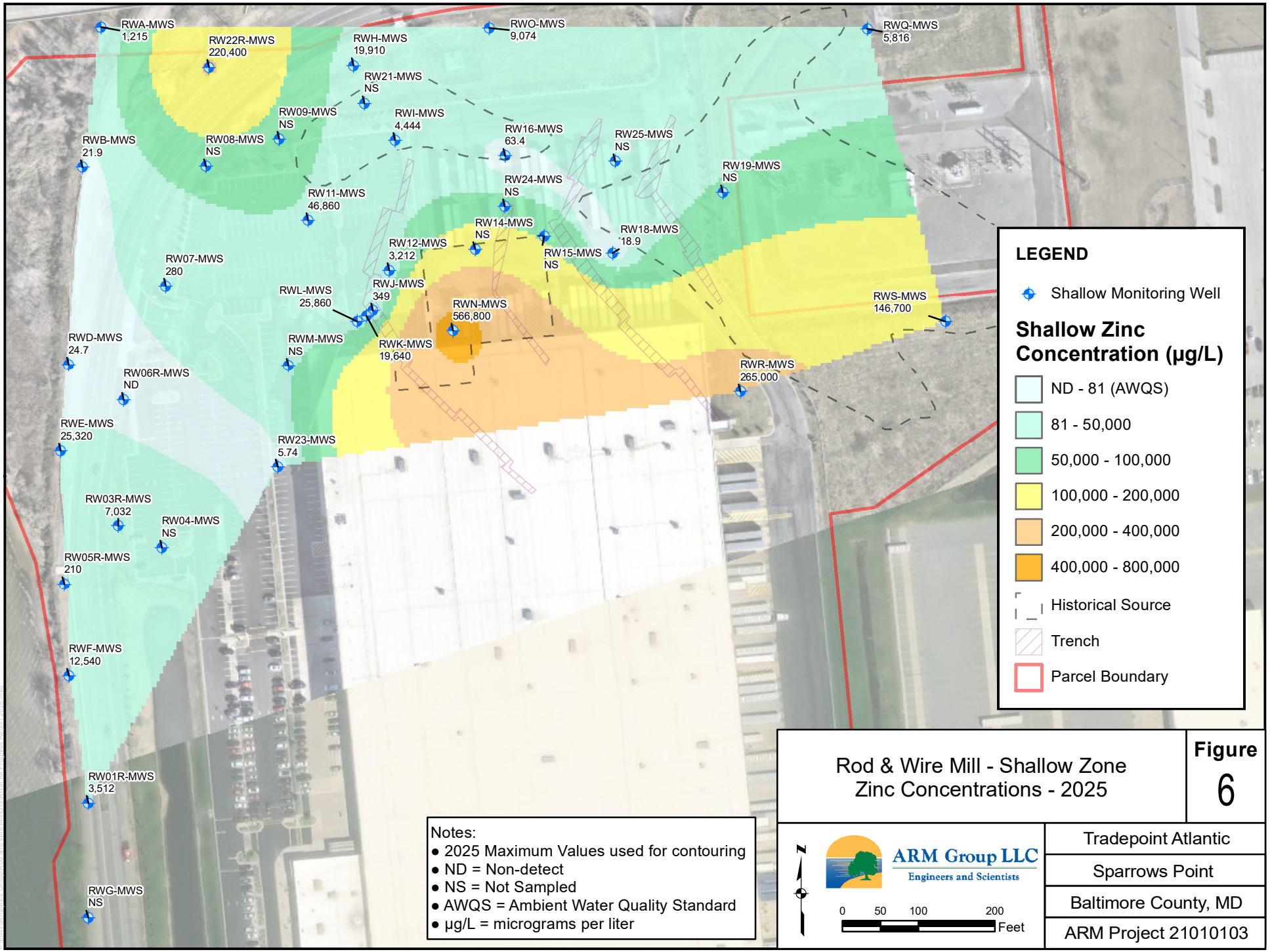
Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 21010103



Rod & Wire Mill - Shallow Zone Groundwater Elevation Contours Q3 2025

Figure 5

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Sparrows Point
Baltimore County, MD
ARM Project 21010103

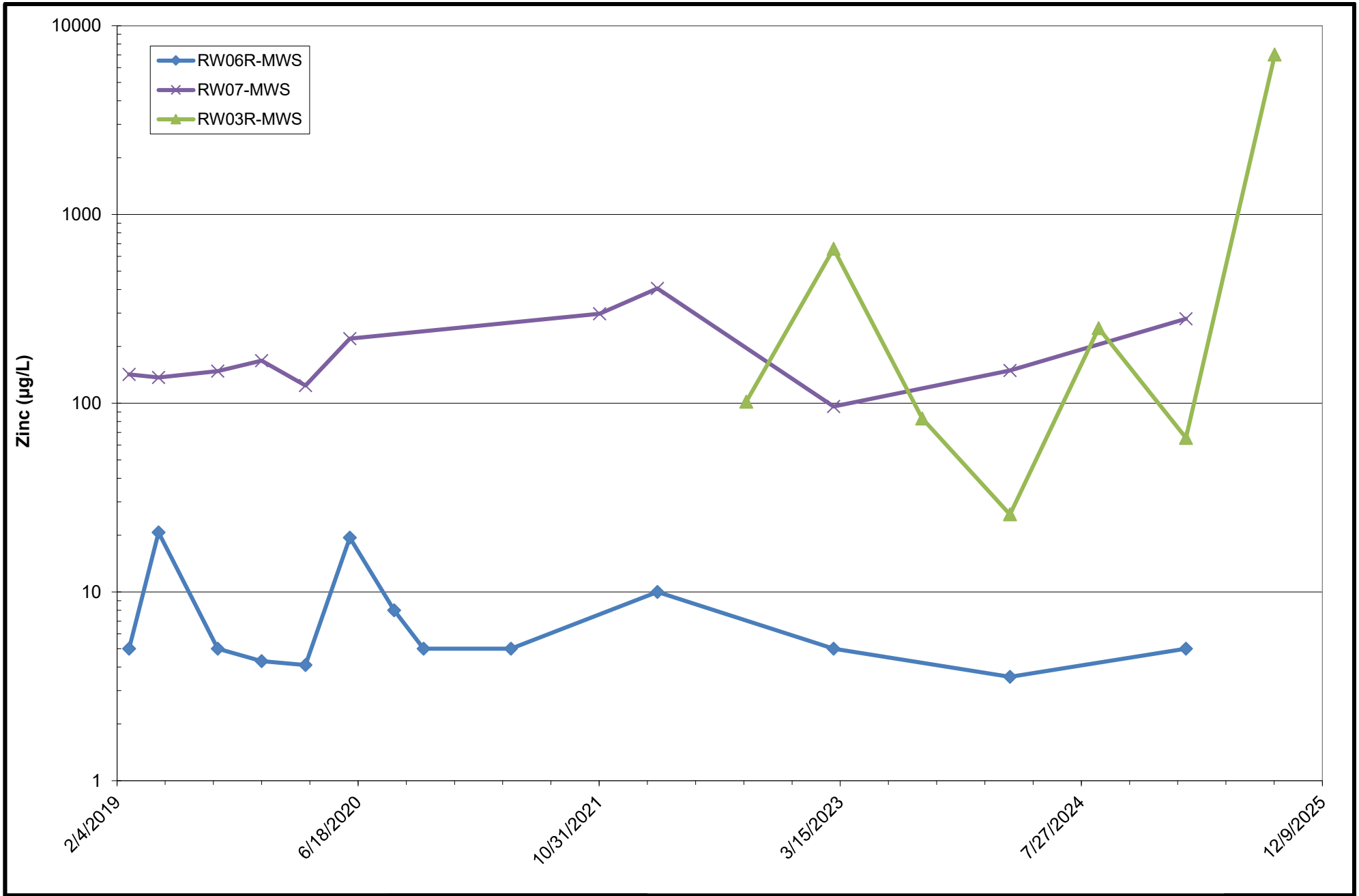


Rod & Wire Mill - Shallow Zone
Zinc Concentrations - 2025

Figure 6

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Sparrows Point
Baltimore County, MD
ARM Project 21010103



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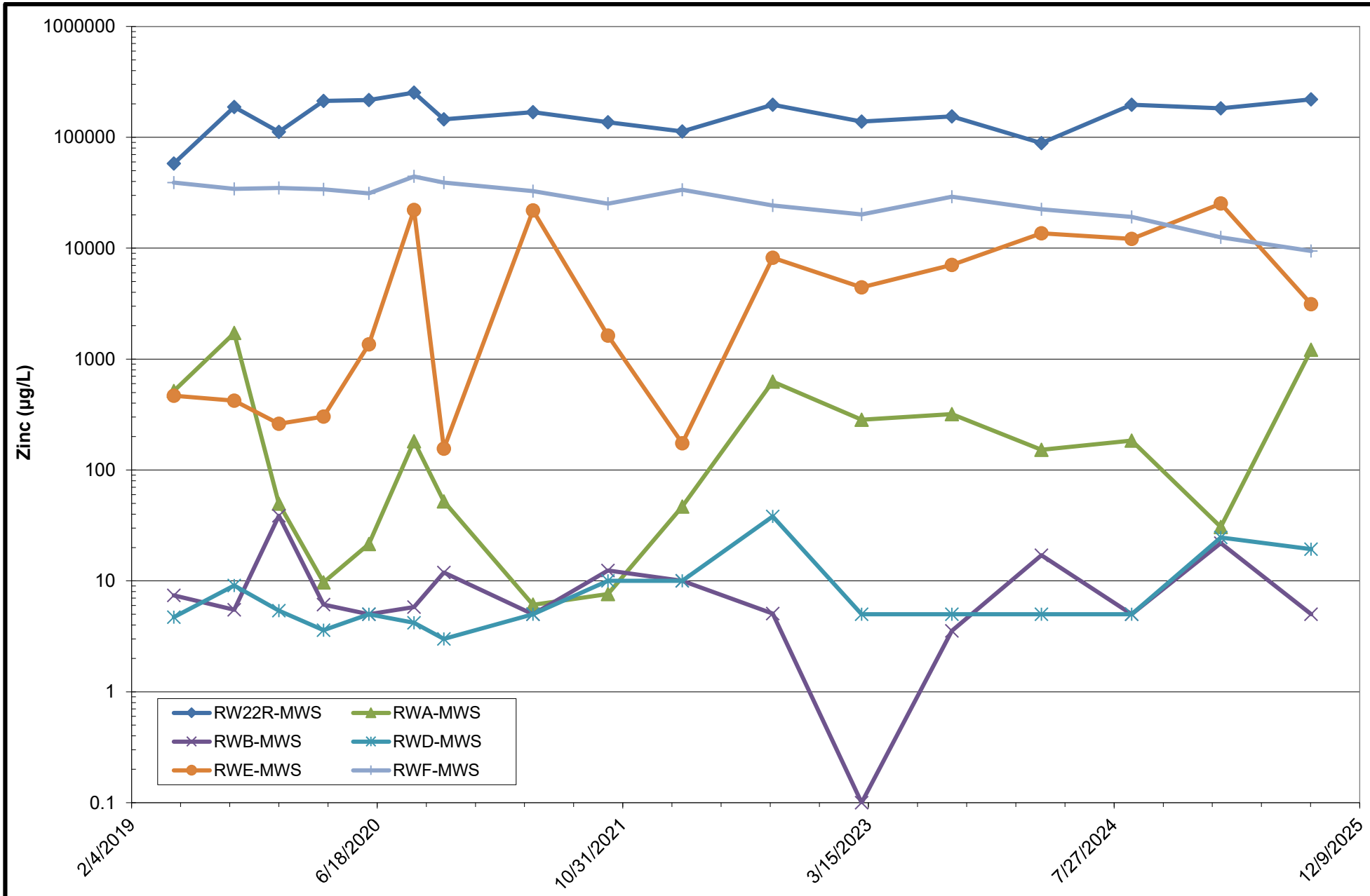
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Shallow Downgradient Perimeter Zinc Concentrations (Original Wells)

December 2025

Figure 7



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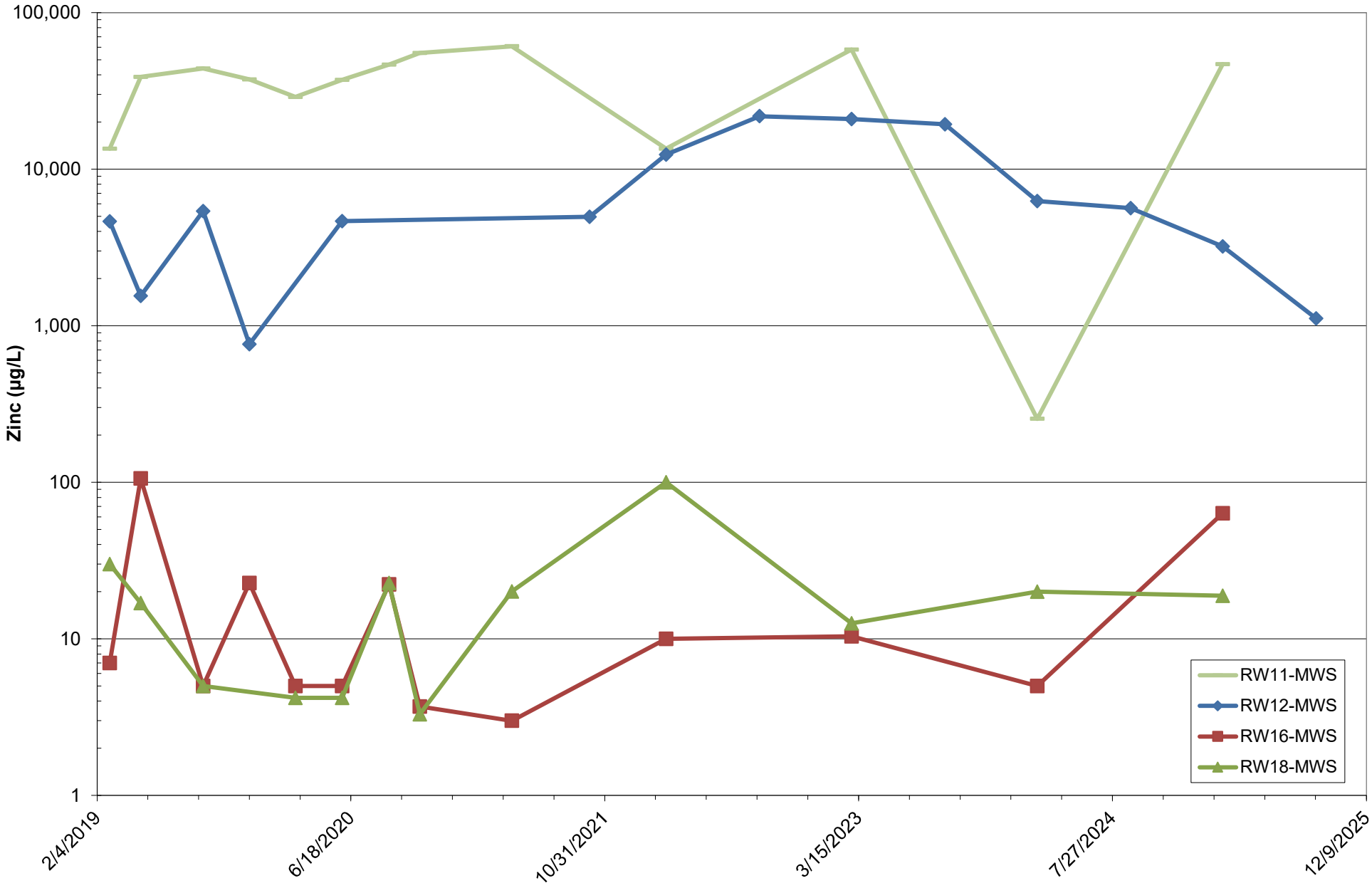
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Shallow Downgradient Perimeter Zinc Concentrations (Supplemental Wells)

December 2025

Figure 8



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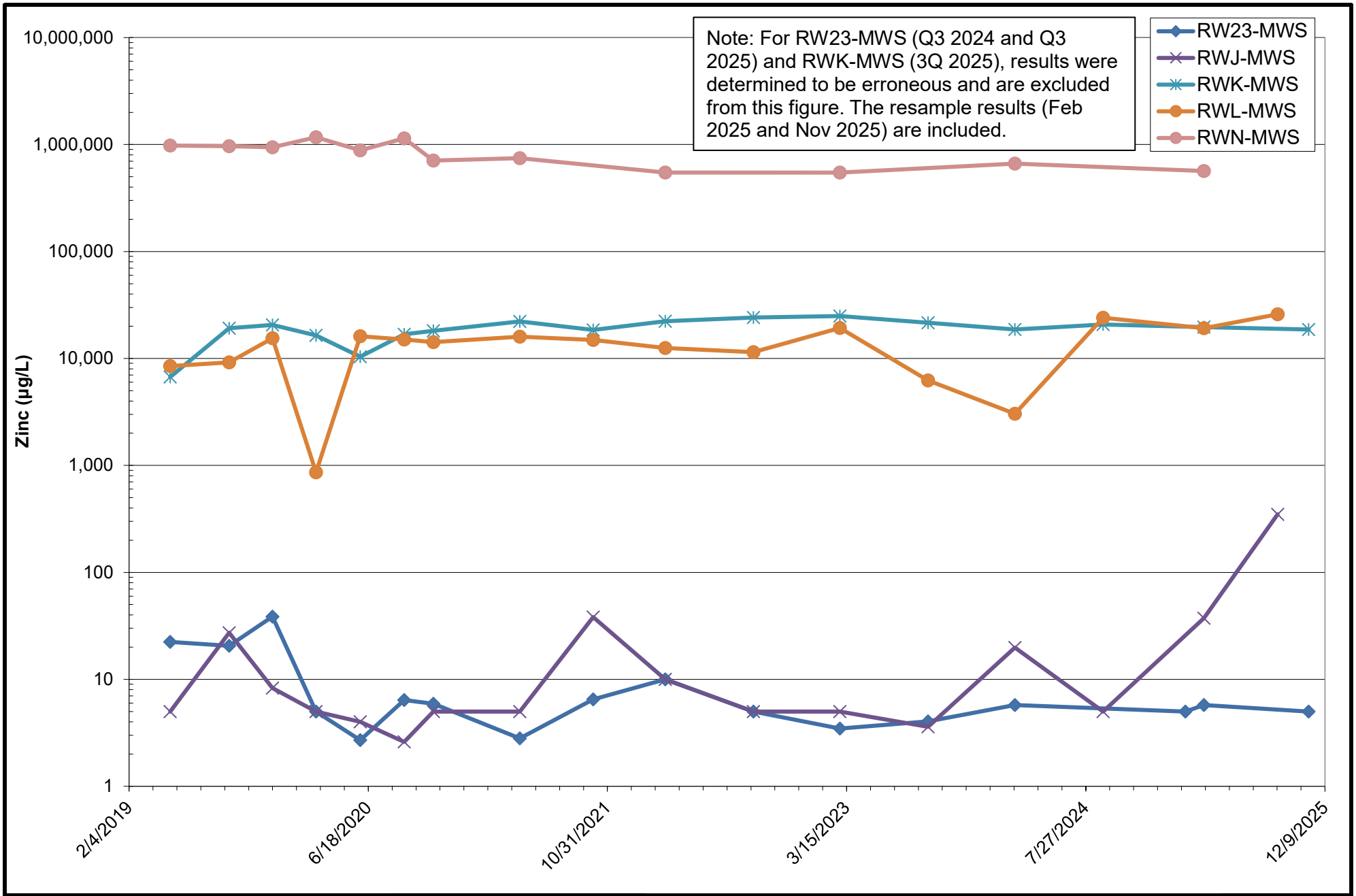
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Shallow Interior Zinc Concentrations (Original Wells)

December 2025

Figure 9



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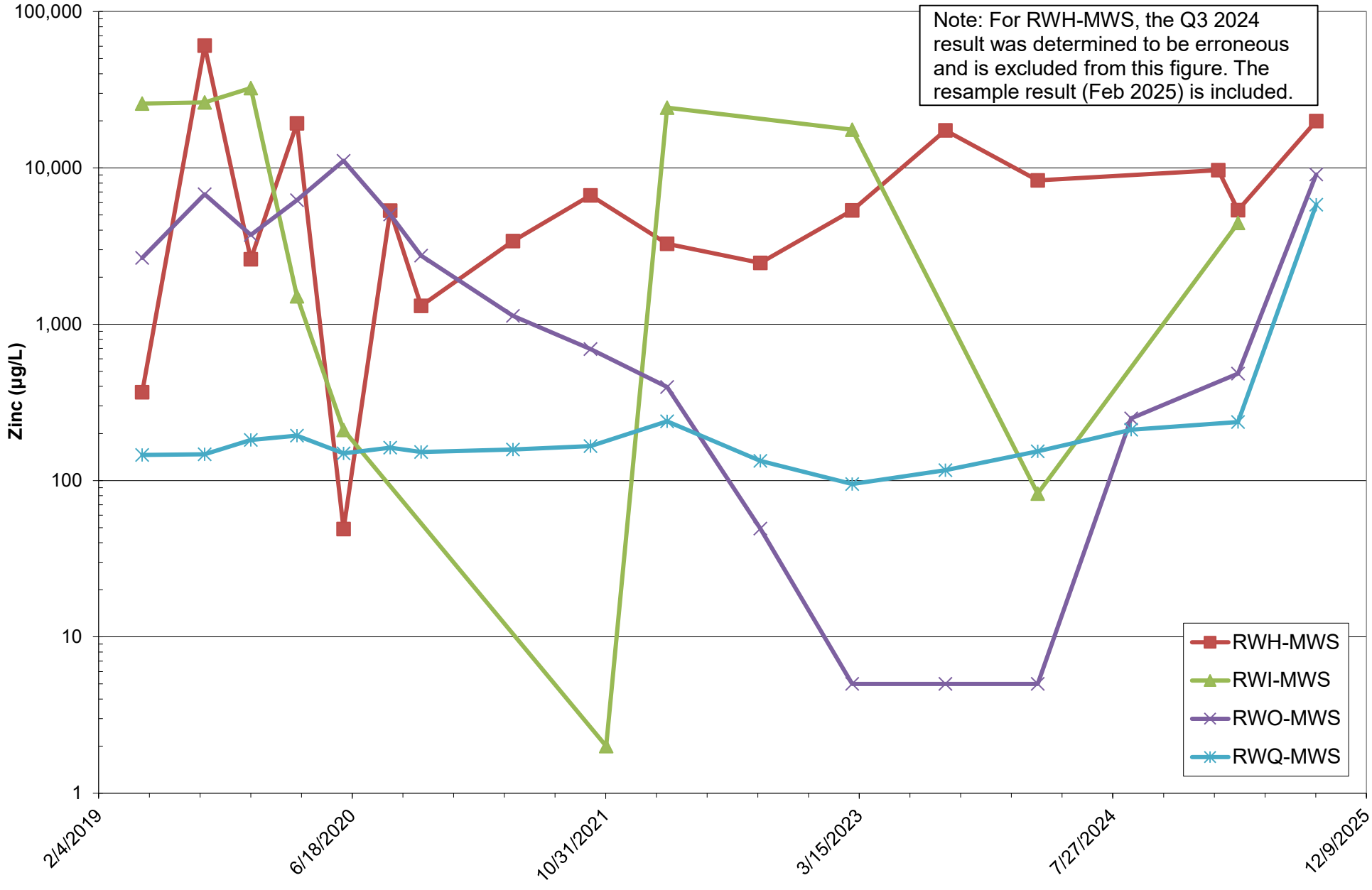
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Shallow Interior Zinc Concentrations (Supplemental Wells)

December 2025

Figure 10



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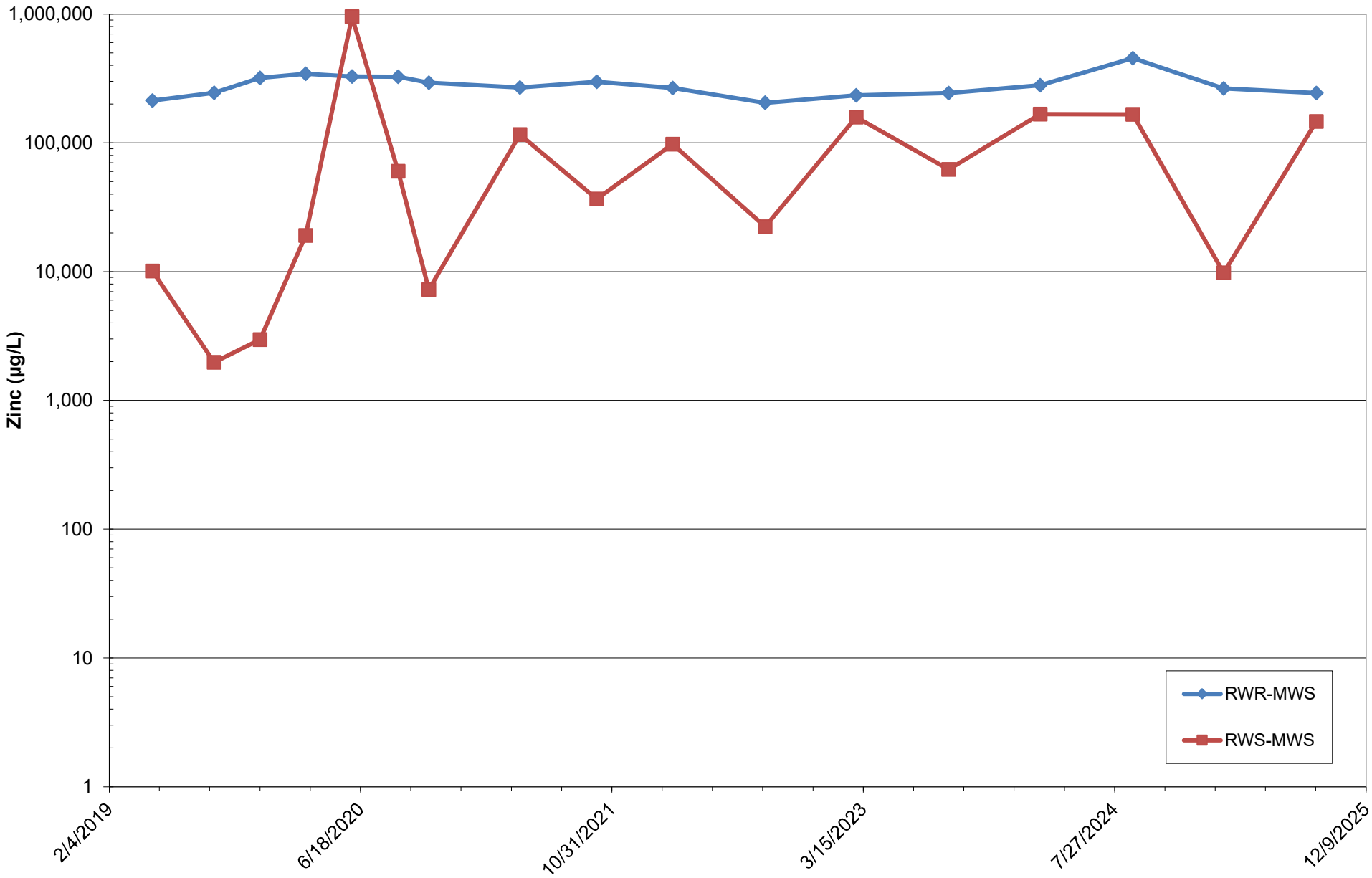
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Shallow Delineation Wells Zinc Concentrations

December 2025

Figure 11



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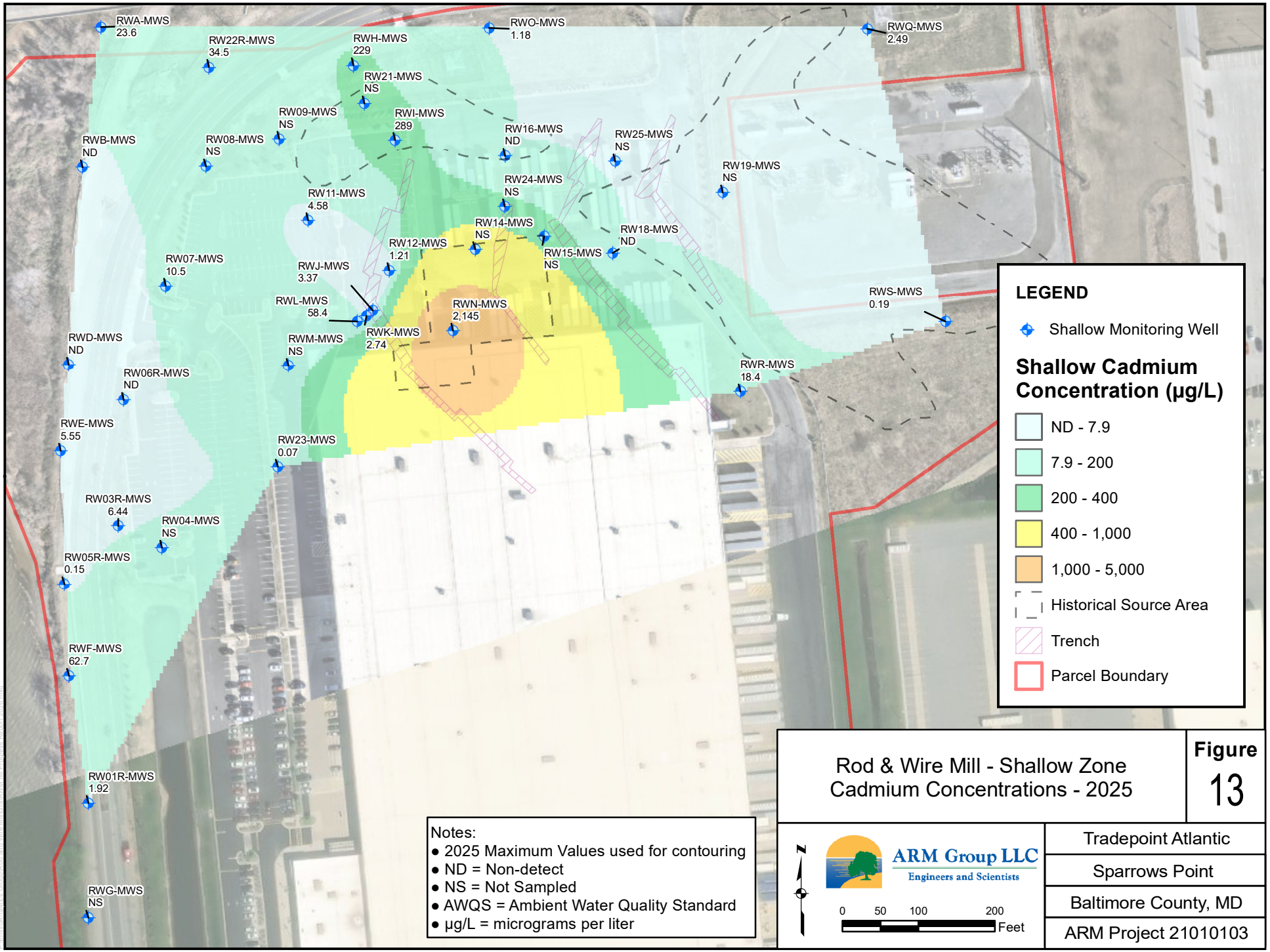
Rod and Wire Mill
Tradepoint Atlantic

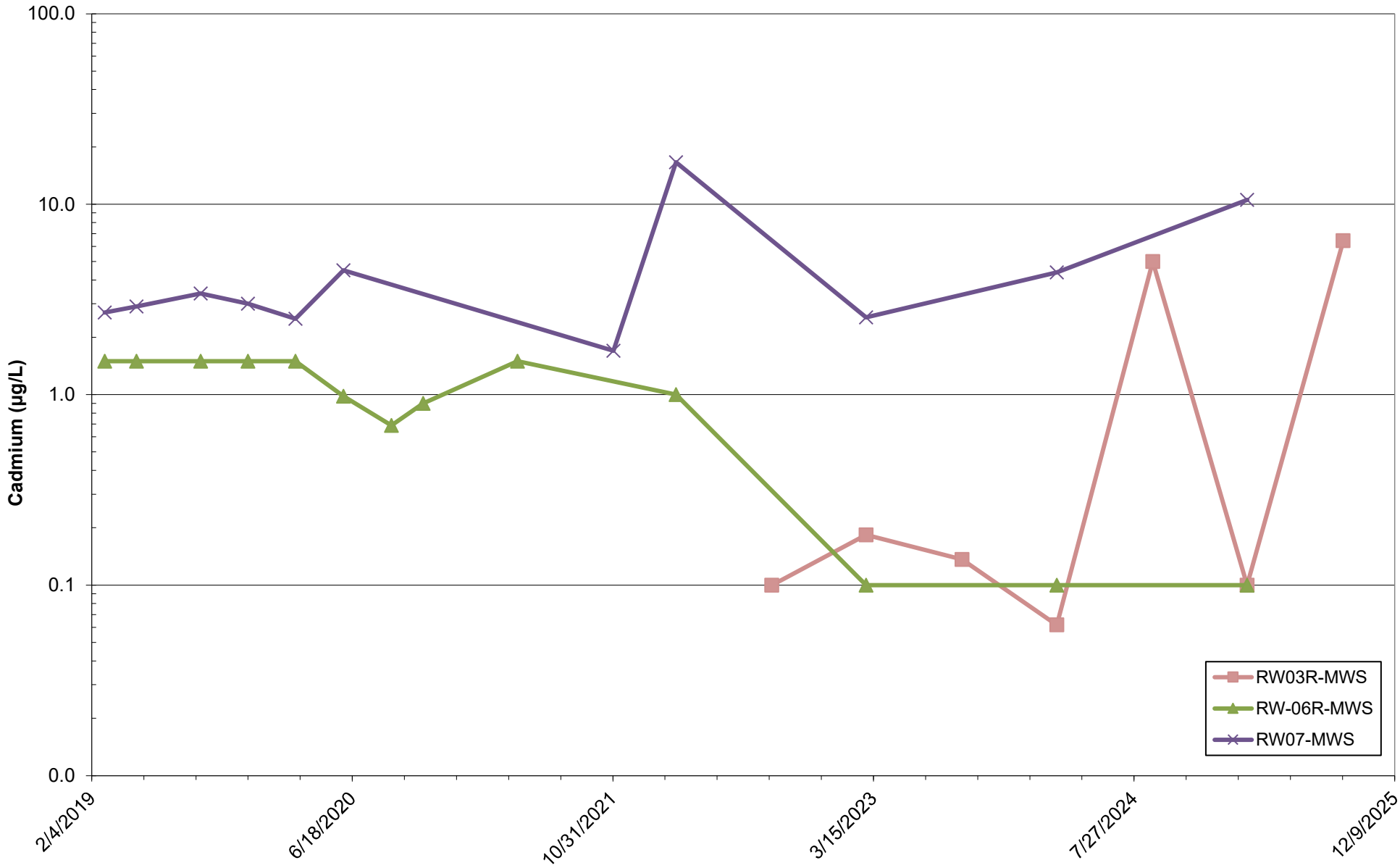
Sparrows Point, Maryland

Shallow Upgradient Zinc Concentrations

December 2025

Figure 12


RWA-MWS 23.6
RW22R-MWS 34.5
RWH-MWS 229
RWO-MWS 1.18
RWQ-MWS 2.49
RW21-MWS NS
RW09-MWS NS
RWI-MWS 289
RW16-MWS ND
RW25-MWS NS
RWB-MWS ND
RW08-MWS NS
RW19-MWS NS
RW24-MWS NS
RW11-MWS 4.58
RW14-MWS NS
RW18-MWS ND
RW12-MWS 1.21
RW15-MWS NS
RW07-MWS 10.5
RWJ-MWS 3.37
RWS-MWS 0.19
RWL-MWS 58.4
RWN-MWS 2,145
RWK-MWS 2.74
RWD-MWS ND
RWM-MWS NS
RW06R-MWS ND
RWR-MWS 18.4
RWE-MWS 5.55
RW23-MWS 0.07
RW03R-MWS 6.44
RW04-MWS NS
RW05R-MWS 0.15
RWF-MWS 62.7
RW01R-MWS 1.92
RWG-MWS NS
LEGEND
Shallow Monitoring Well
Shallow Cadmium Concentration (µg/L)
ND - 7.9
7.9 - 200
200 - 400
400 - 1,000
1,000 - 5,000
Historical Source Area
Trench
Parcel Boundary
Notes:
• 2025 Maximum Values used for contouring
• ND = Non-detect
• NS = Not Sampled
• AWQS = Ambient Water Quality Standard
• µg/L = micrograms per liter
Rod & Wire Mill - Shallow Zone
Cadmium Concentrations - 2025
Figure
13
ARM Group LLC
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0 50 100 200
Feet
Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 21010103



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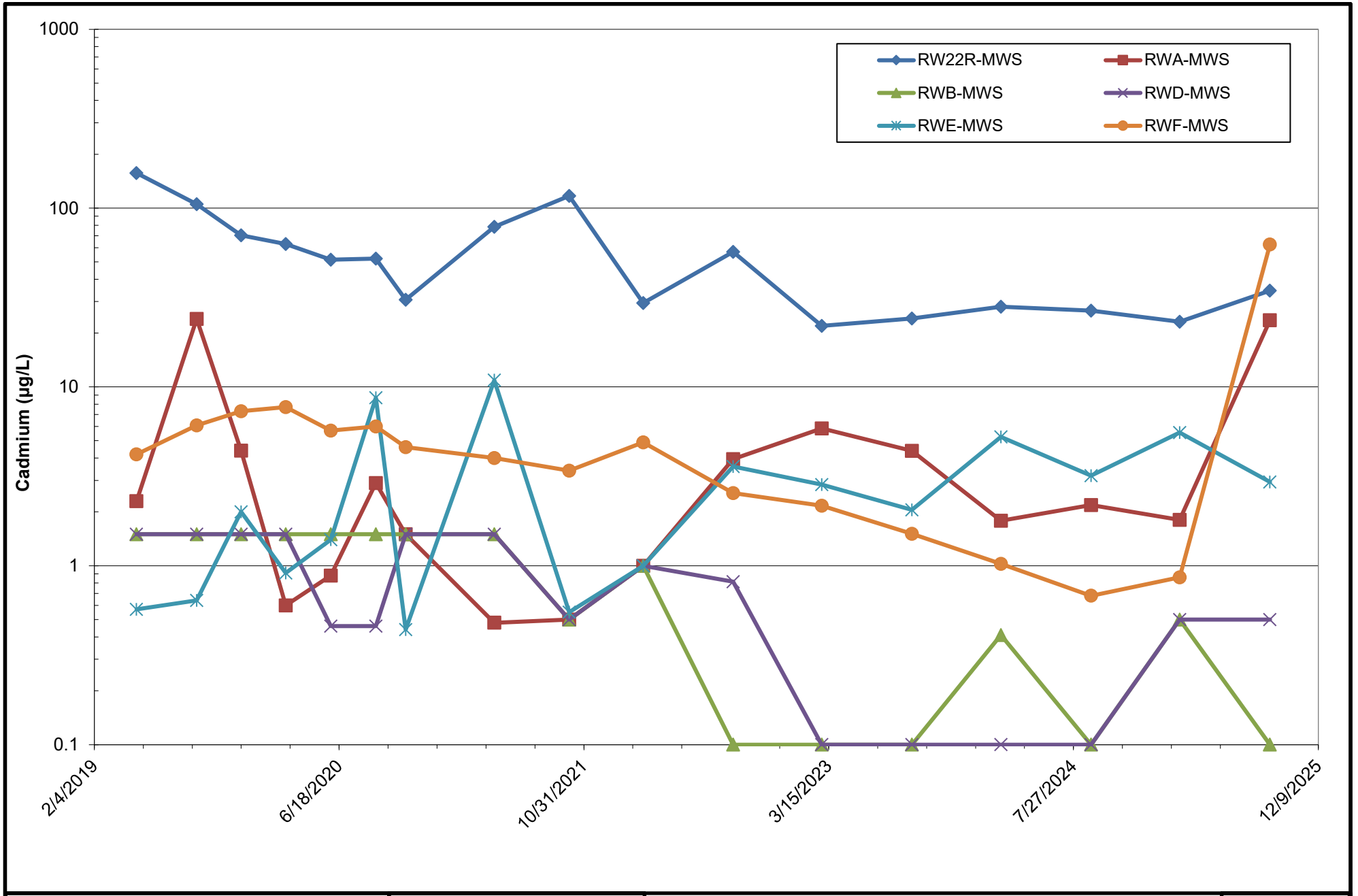
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Shallow Downgradient Perimeter Cadmium Concentrations (Original Wells)

December 2025

Figure 14



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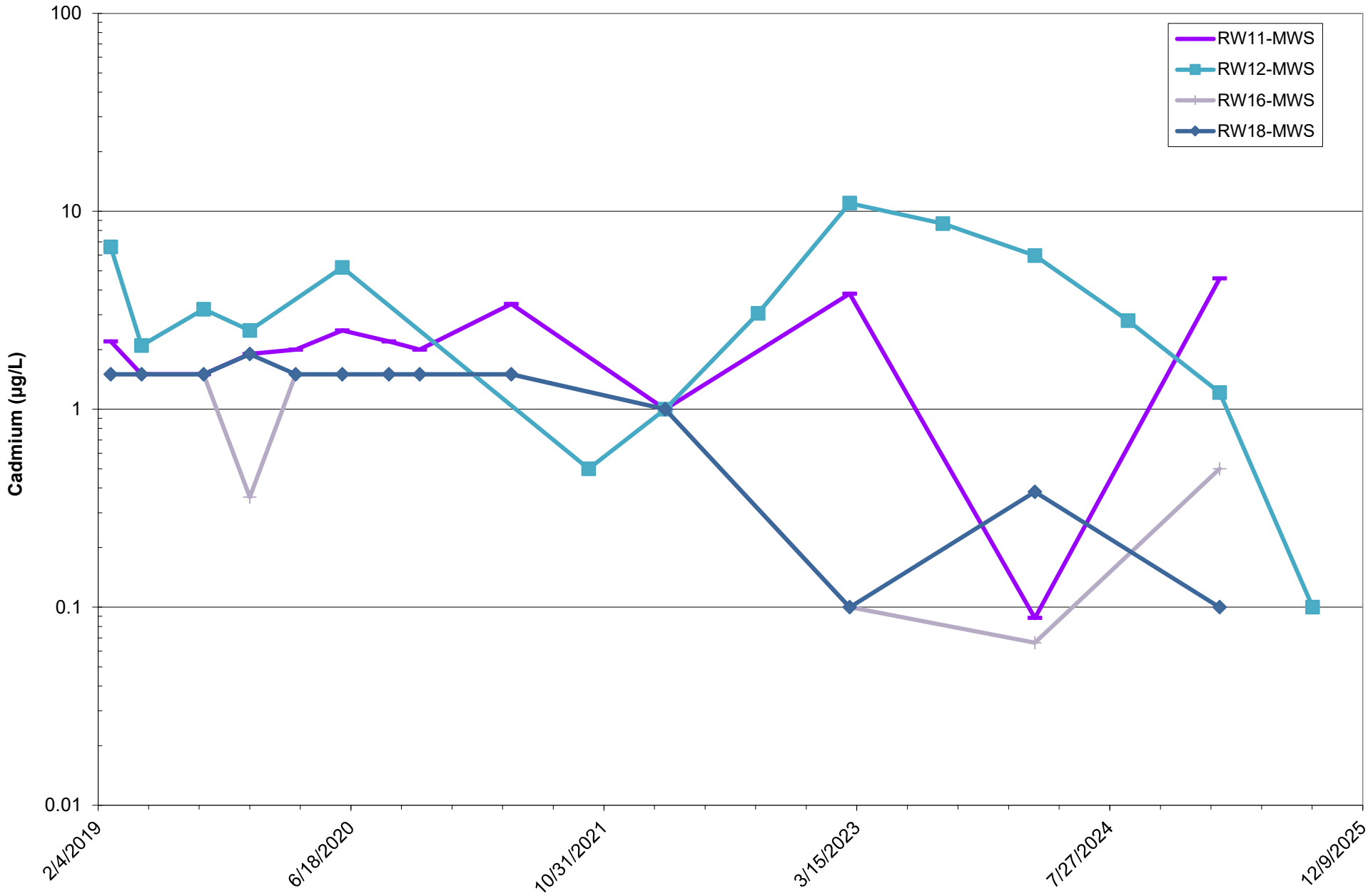
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Shallow Downgradient Perimeter Cadmium Concentrations (Supplemental Wells)

December 2025

Figure 15



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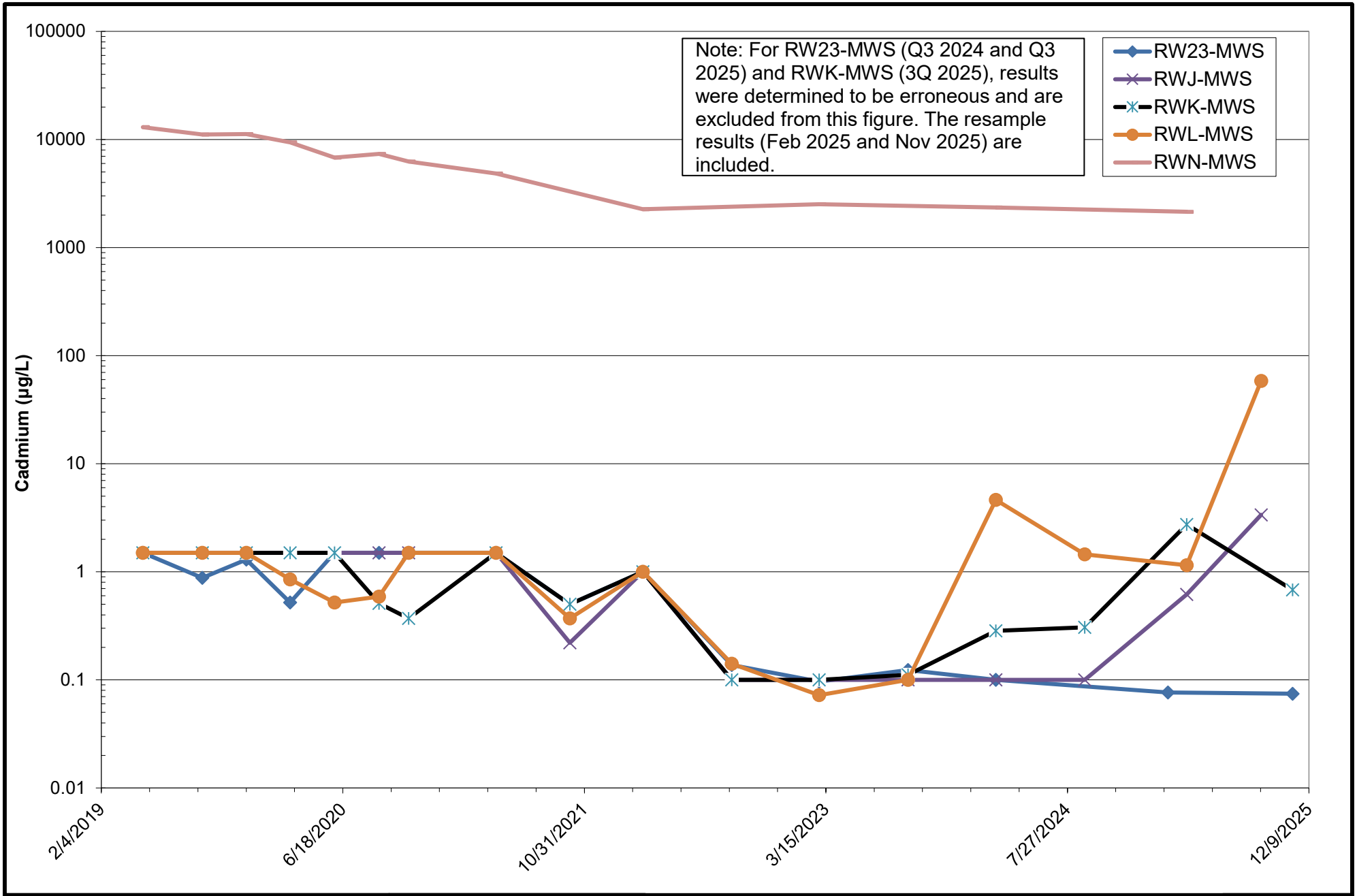
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Shallow Interior Cadmium Concentrations (Original Wells)

December 2025

Figure 16



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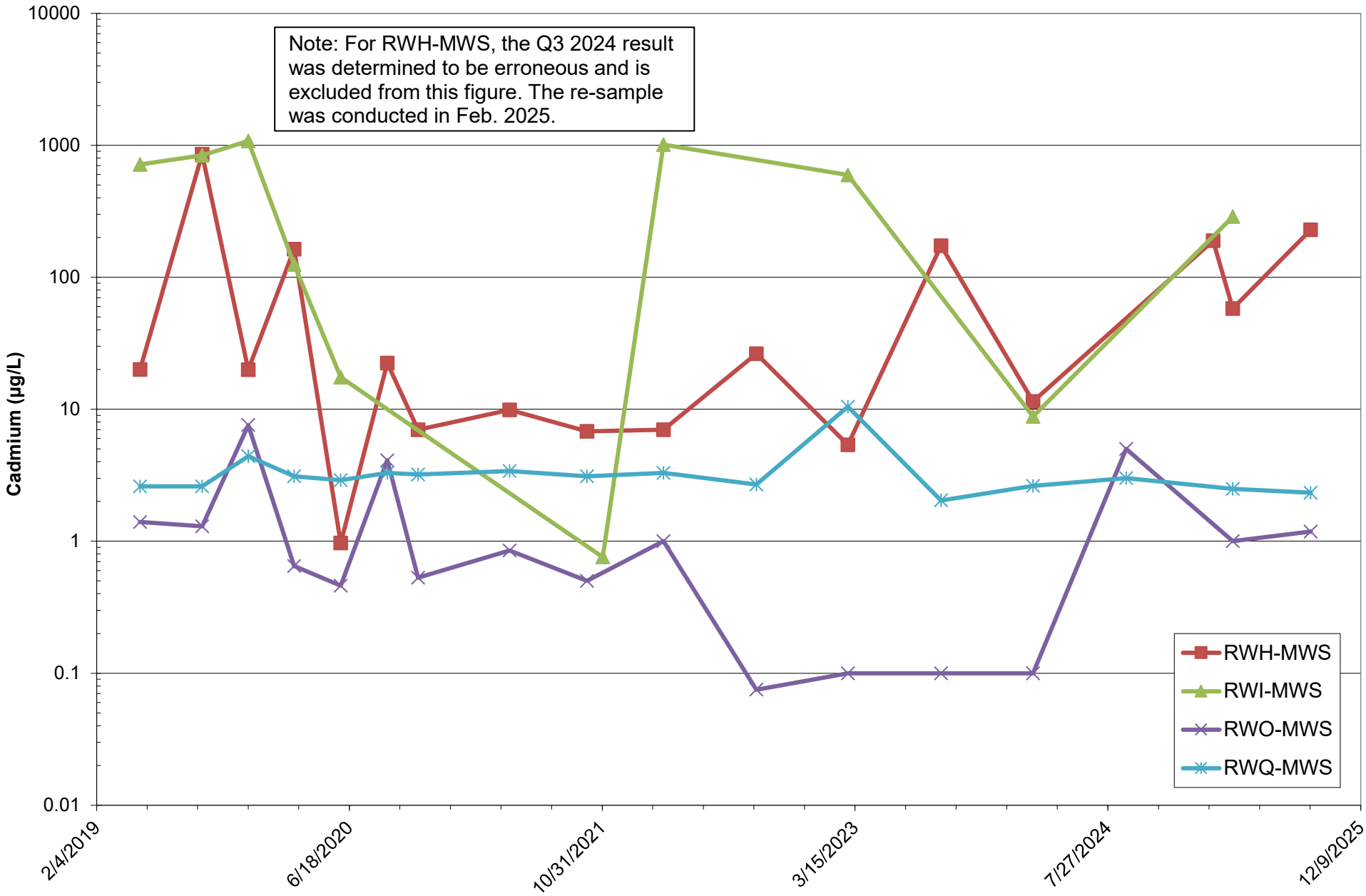
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Shallow Interior Cadmium Concentrations (Supplemental Wells)

December 2025

Figure 17



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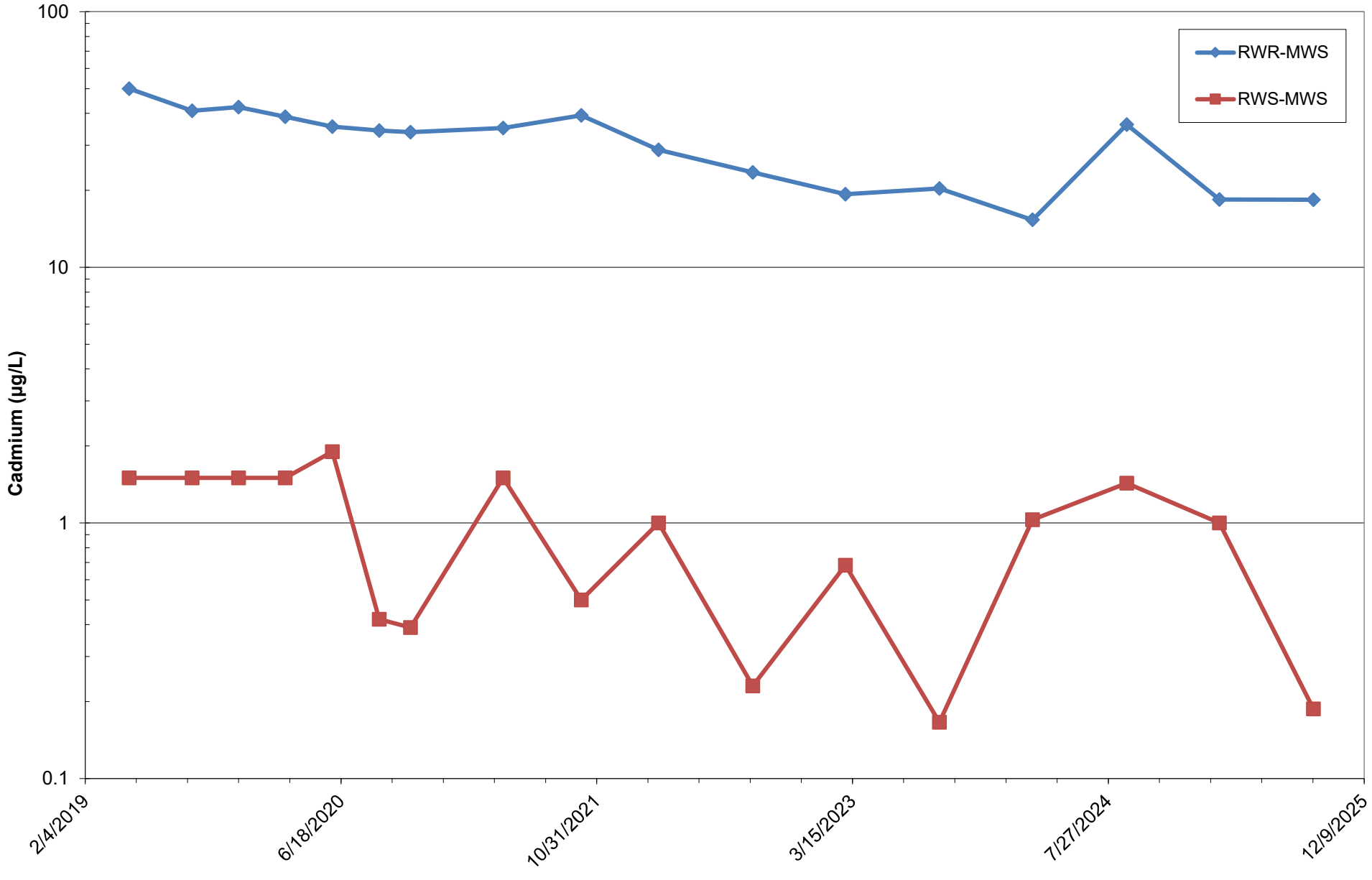
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Sparrows Point, Maryland

Shallow Delineation Wells Cadmium Concentrations

December 2025

Figure 18



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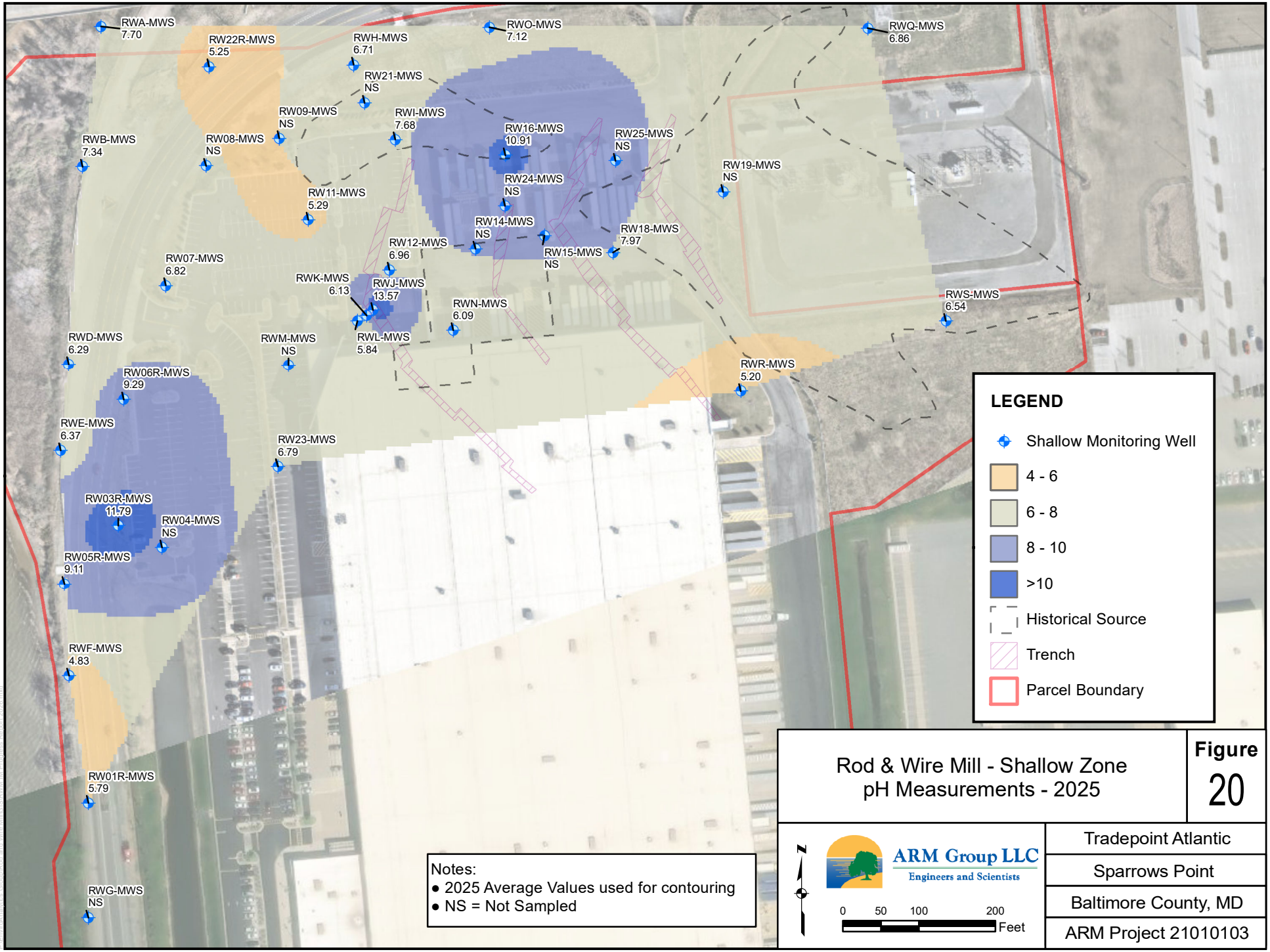
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Shallow Upgradient Cadmium Concentrations

December 2025

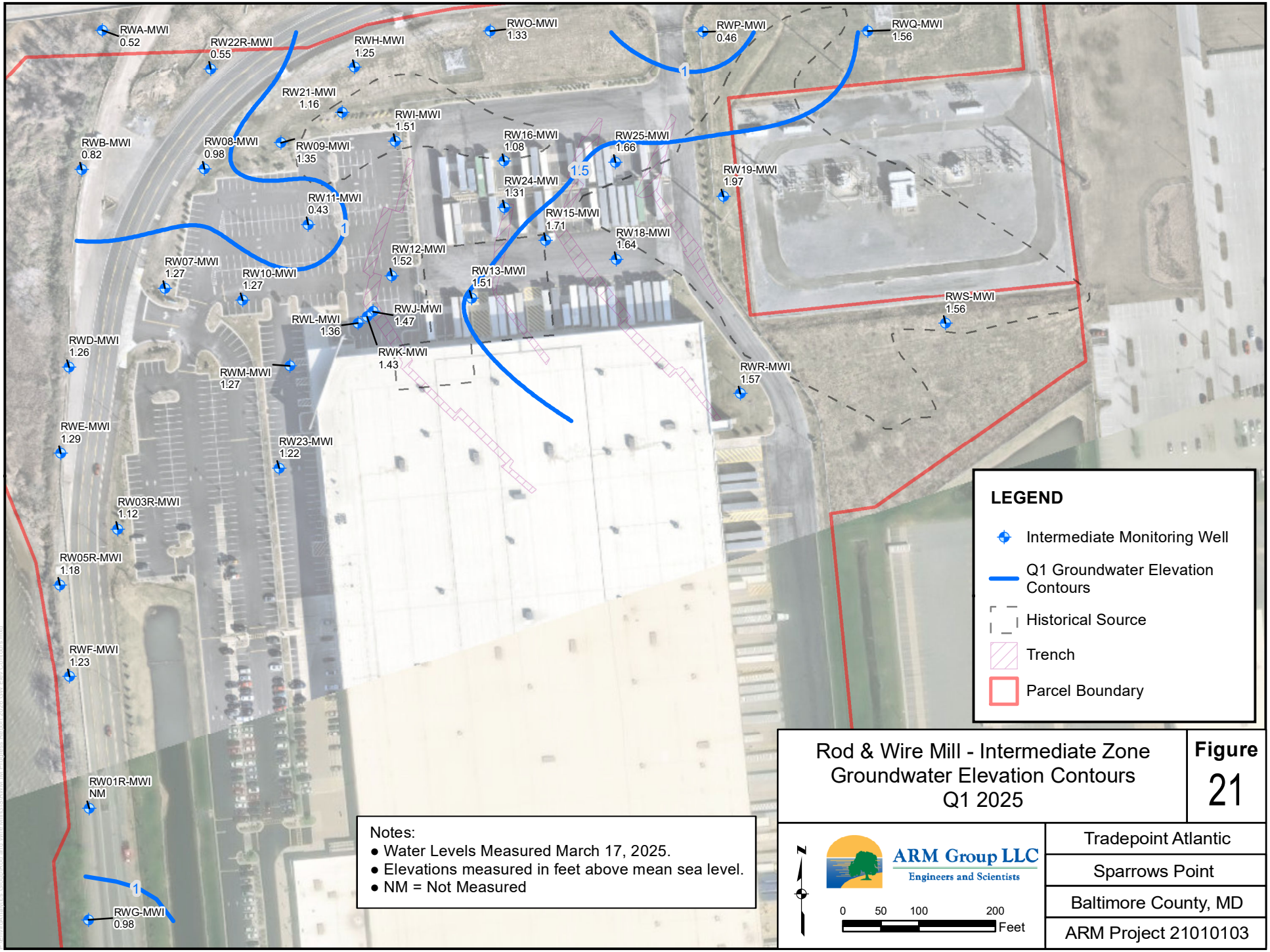
Figure 19

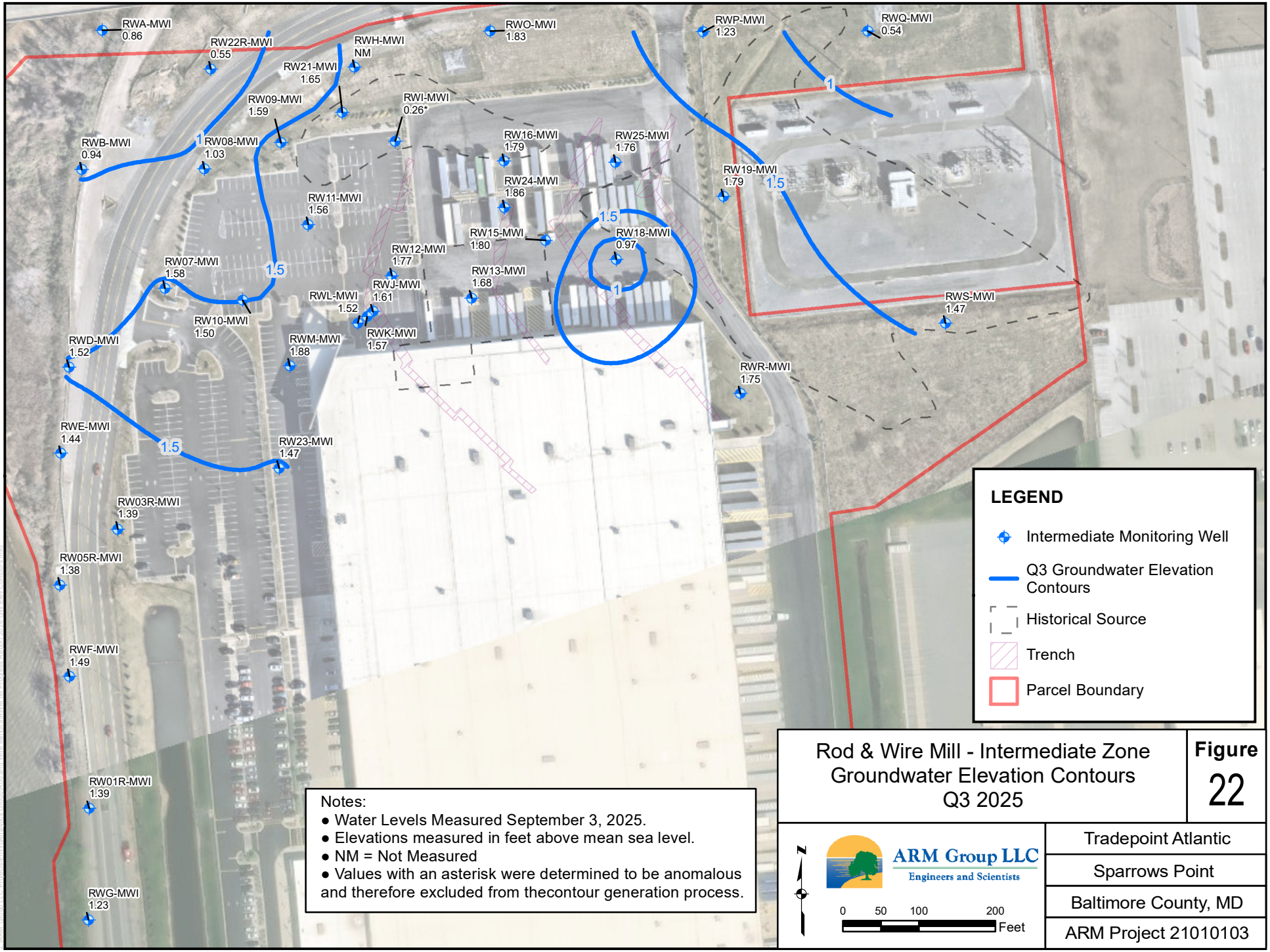


Rod & Wire Mill - Shallow Zone pH Measurements - 2025

Figure 20

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RWA-MWI 0.52
RW22R-MWI 0.55
RWH-MWI 1.25
RWO-MWI 1.33
RWP-MWI 0.46
RWQ-MWI 1.56
RW21-MWI 1.16
RWI-MWI 1.51
RWB-MWI 0.82
RW08-MWI 0.98
RW09-MWI 1.35
RW16-MWI 1.08
RW25-MWI 1.66
RW19-MWI 1.97
RW24-MWI 1.31
RW11-MWI 0.43
RW15-MWI 1.71
RW18-MWI 1.64
RW07-MWI 1.27
RW12-MWI 1.52
RW10-MWI 1.27
RW13-MWI 1.51
RWS-MWI 1.56
RWL-MWI 1.36
RWJ-MWI 1.47
RWD-MWI 1.26
RWK-MWI 1.43
RWM-MWI 1.27
RWR-MWI 1.57
RWE-MWI 1.29
RW23-MWI 1.22
RW03R-MWI 1.12
RW05R-MWI 1.18
RWF-MWI 1.23
RW01R-MWI NM
RWG-MWI 0.98
1
1.5
LEGEND
Intermediate Monitoring Well
Q1 Groundwater Elevation Contours
Historical Source
Trench
Parcel Boundary
Notes:
• Water Levels Measured March 17, 2025.
• Elevations measured in feet above mean sea level.
• NM = Not Measured
Rod & Wire Mill - Intermediate Zone
Groundwater Elevation Contours
Q1 2025
Figure
21
N
ARM Group LLC
Engineers and Scientists
0 50 100 200
Feet
Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 21010103



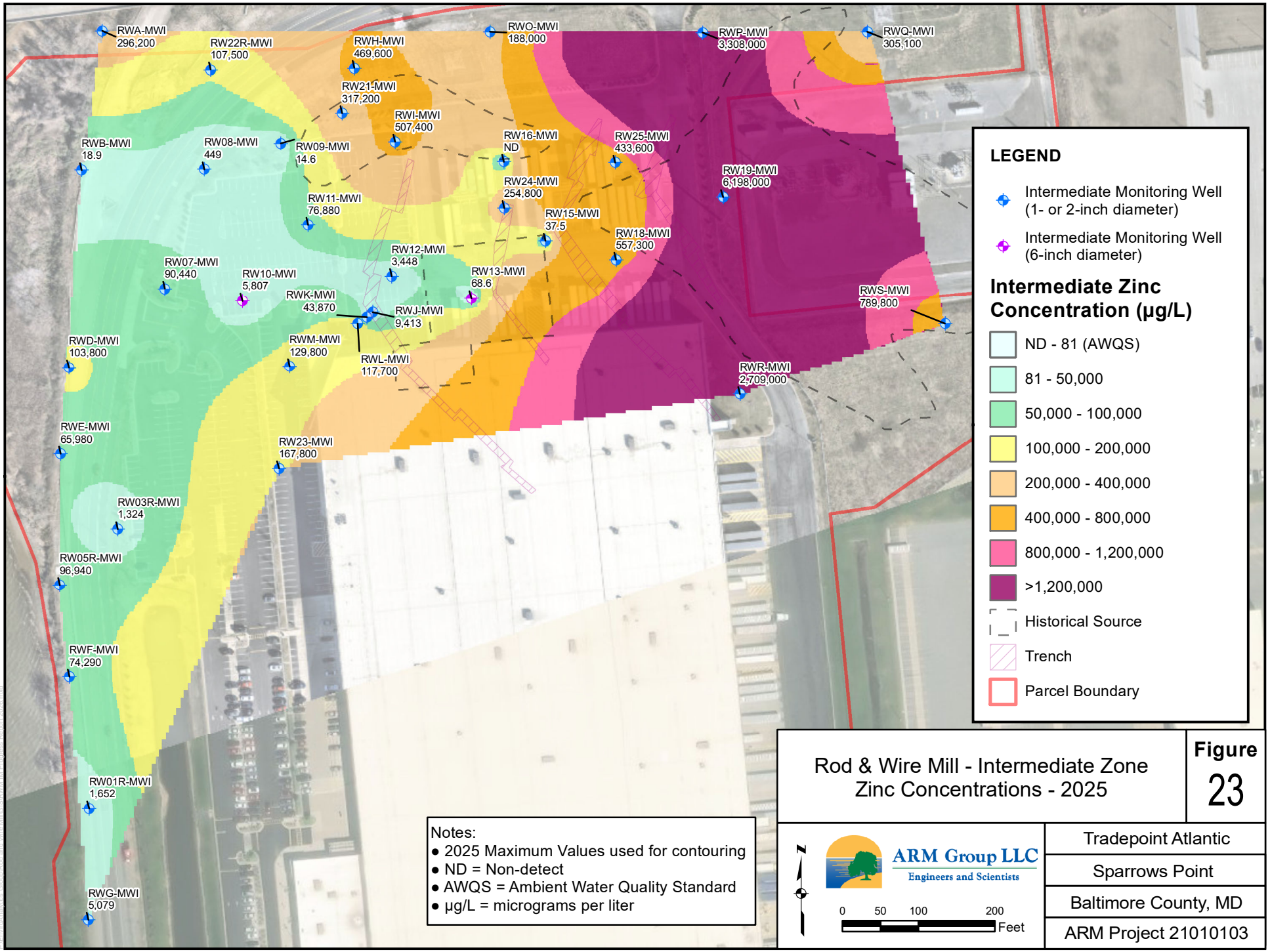
Notes:
- Water Levels Measured September 3, 2025.
- Elevations measured in feet above mean sea level.
- NM = Not Measured
- Values with an asterisk were determined to be anomalous and therefore excluded from thecontour generation process.

Rod & Wire Mill - Intermediate Zone Groundwater Elevation Contours Q3 2025

Figure 22

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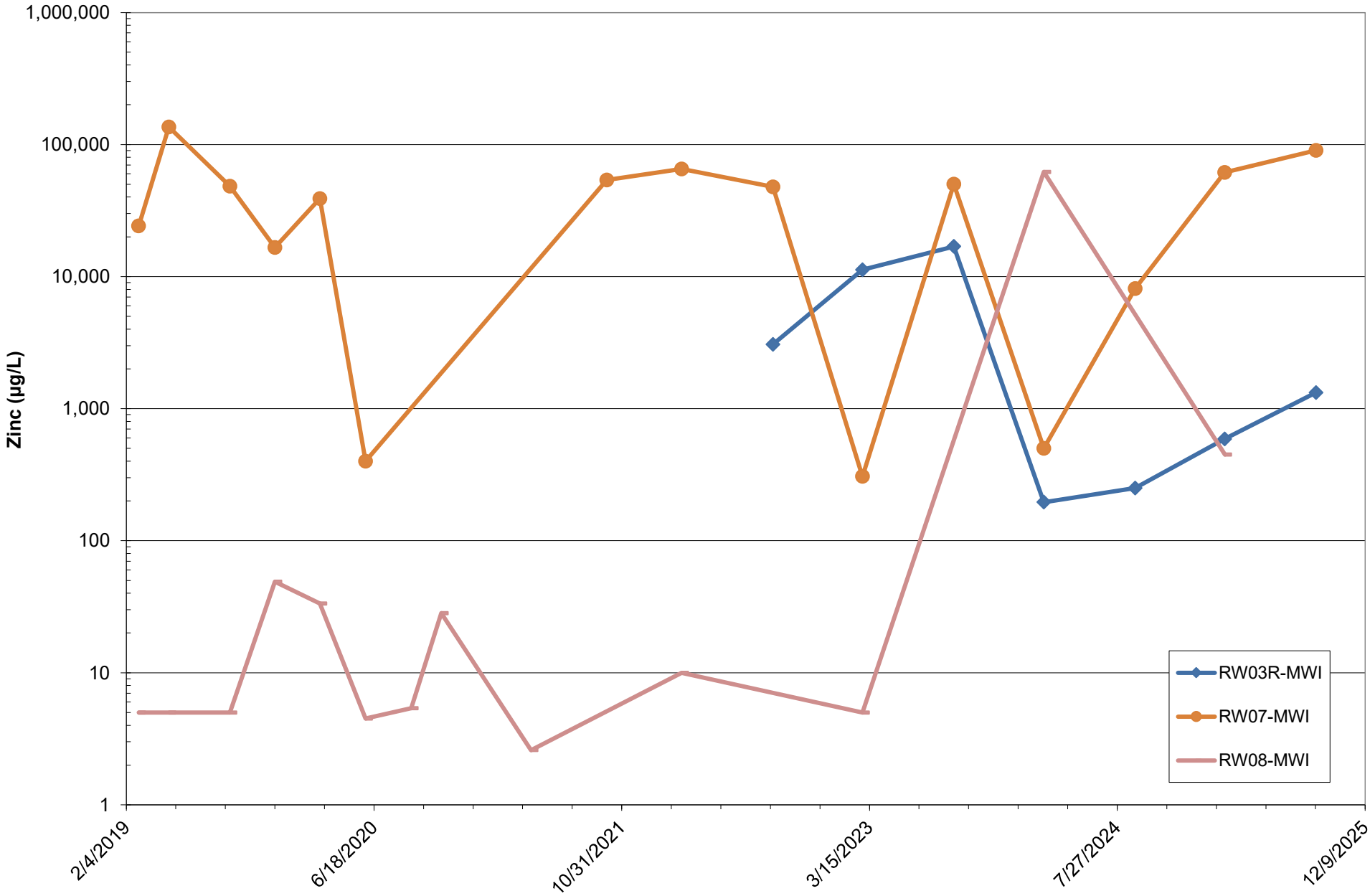
Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 21010103



Rod & Wire Mill - Intermediate Zone Zinc Concentrations - 2025

Figure 23

Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 21010103



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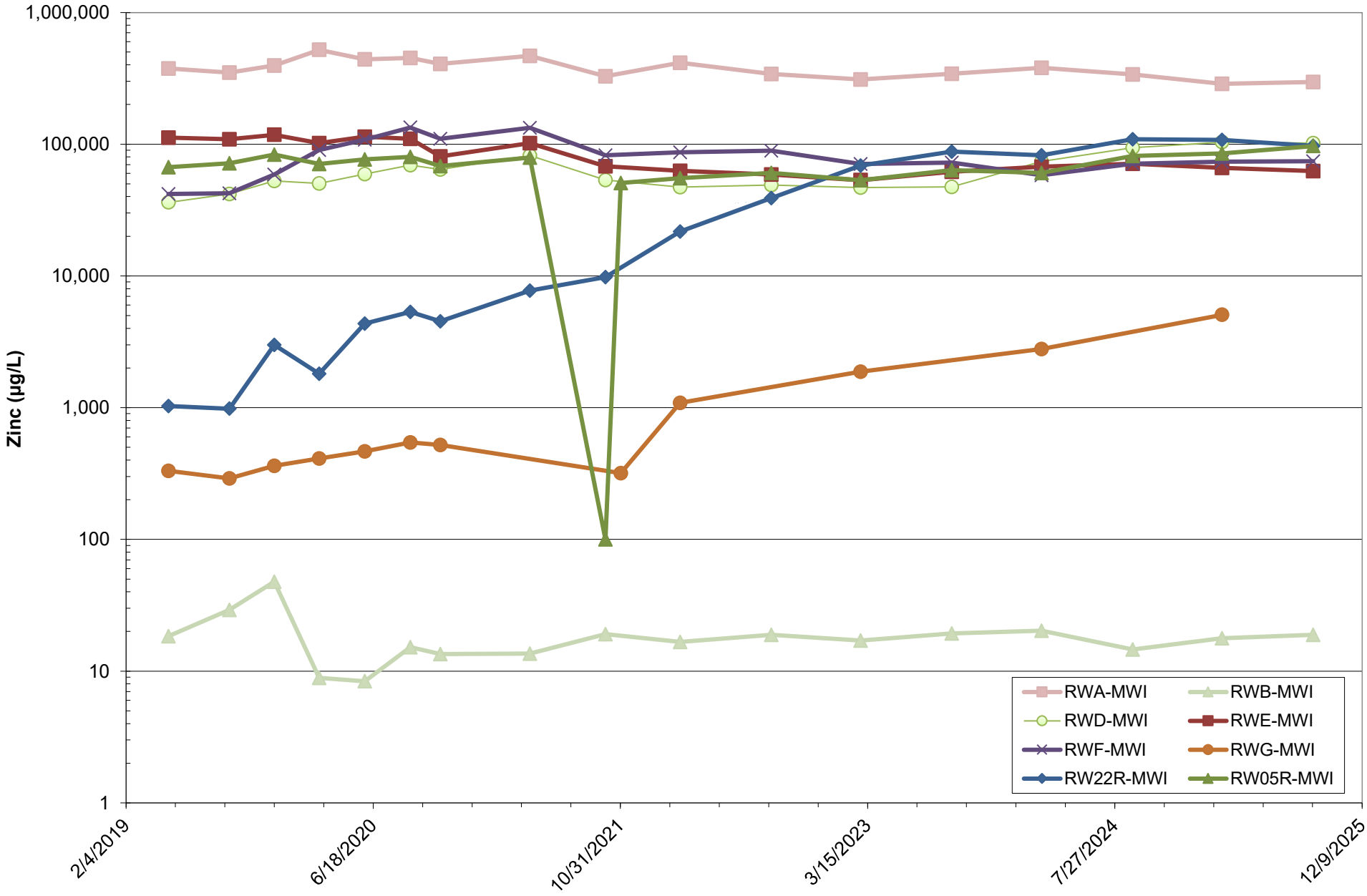
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Perimeter Zinc Concentrations (Original Wells)

December 2025

Figure 24



ARM Group LLC
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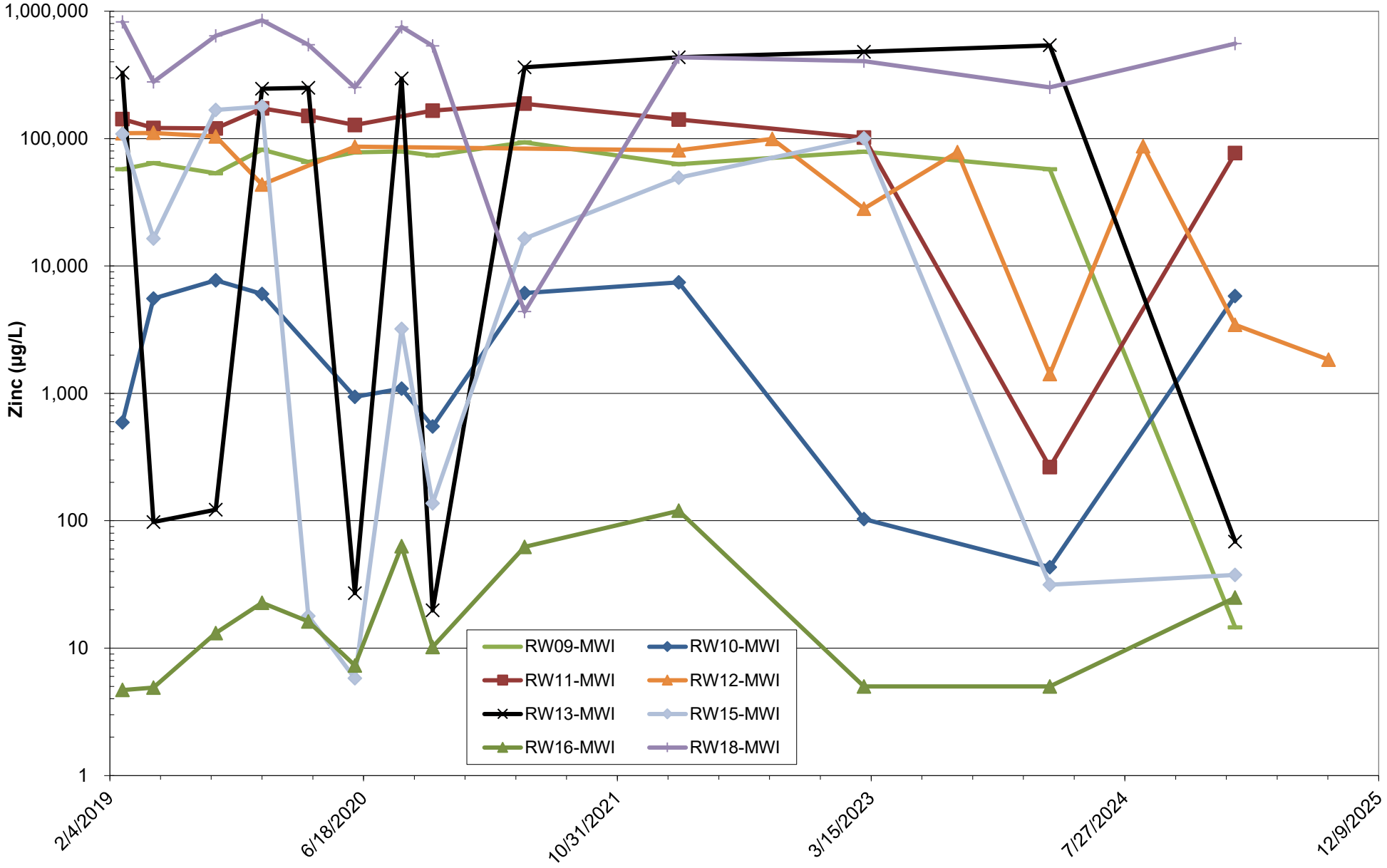
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Perimeter Zinc Concentrations (Supplemental Wells)

December 2025

Figure 25



ARM Group LLC
Engineers and Scientists

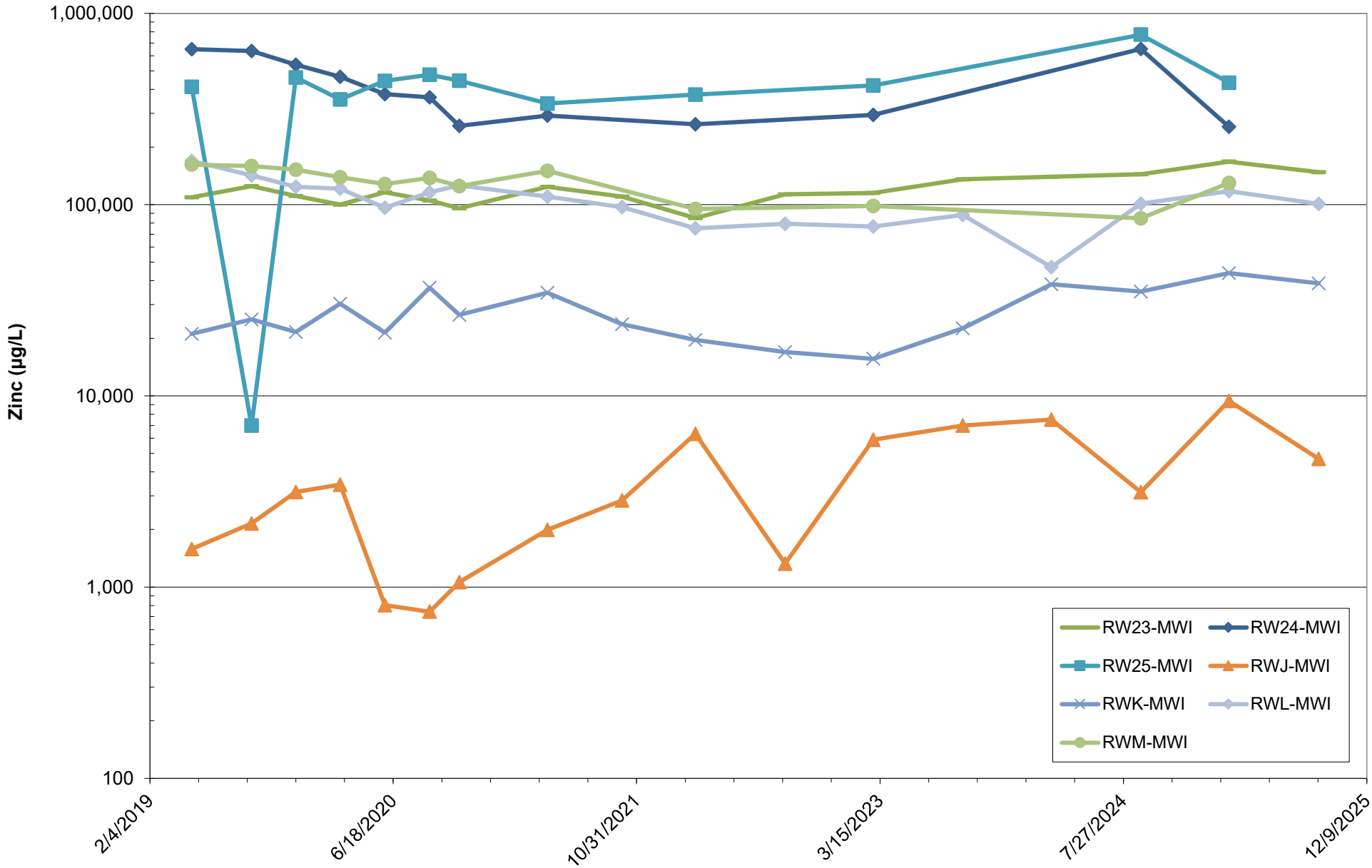
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Interior Zinc Concentrations (Original Wells)

December 2025

Figure 26



ARM Group LLC
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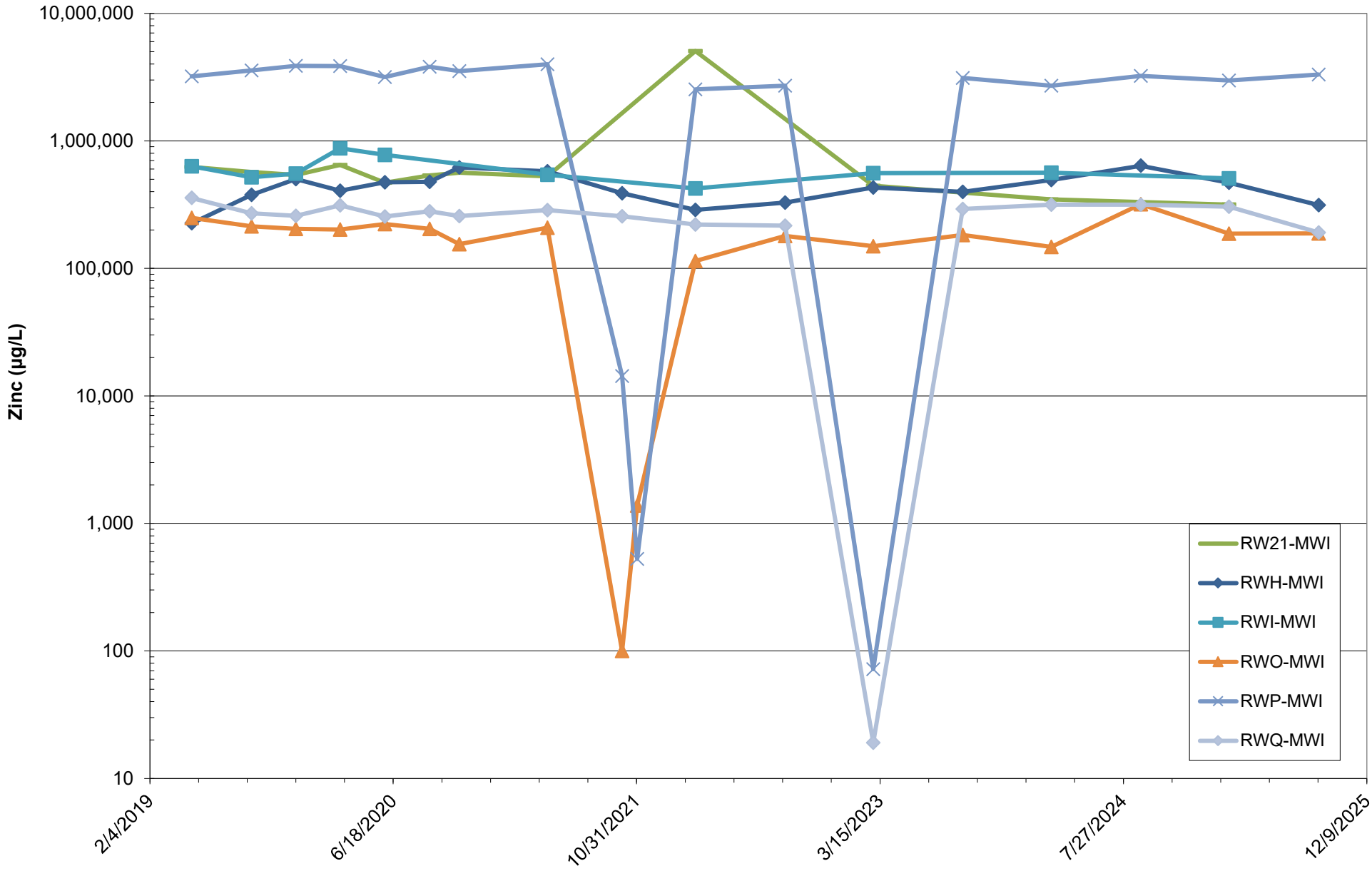
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Interior Zinc Concentrations (Supplemental Wells)

December 2025

Figure 27



ARM Group LLC
Engineers and Scientists

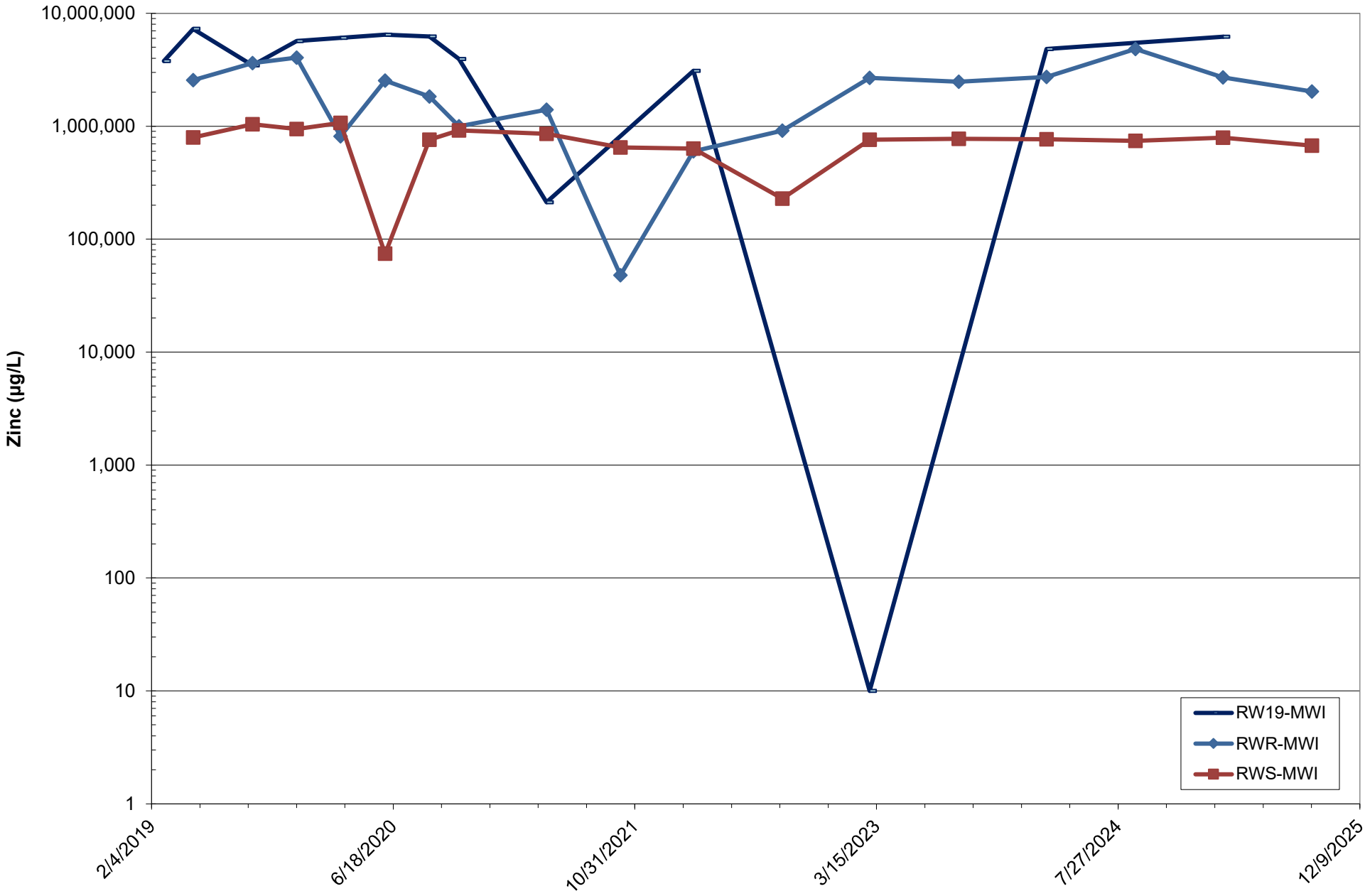
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Delineation Wells Zinc Concentrations

December 2025

Figure 28



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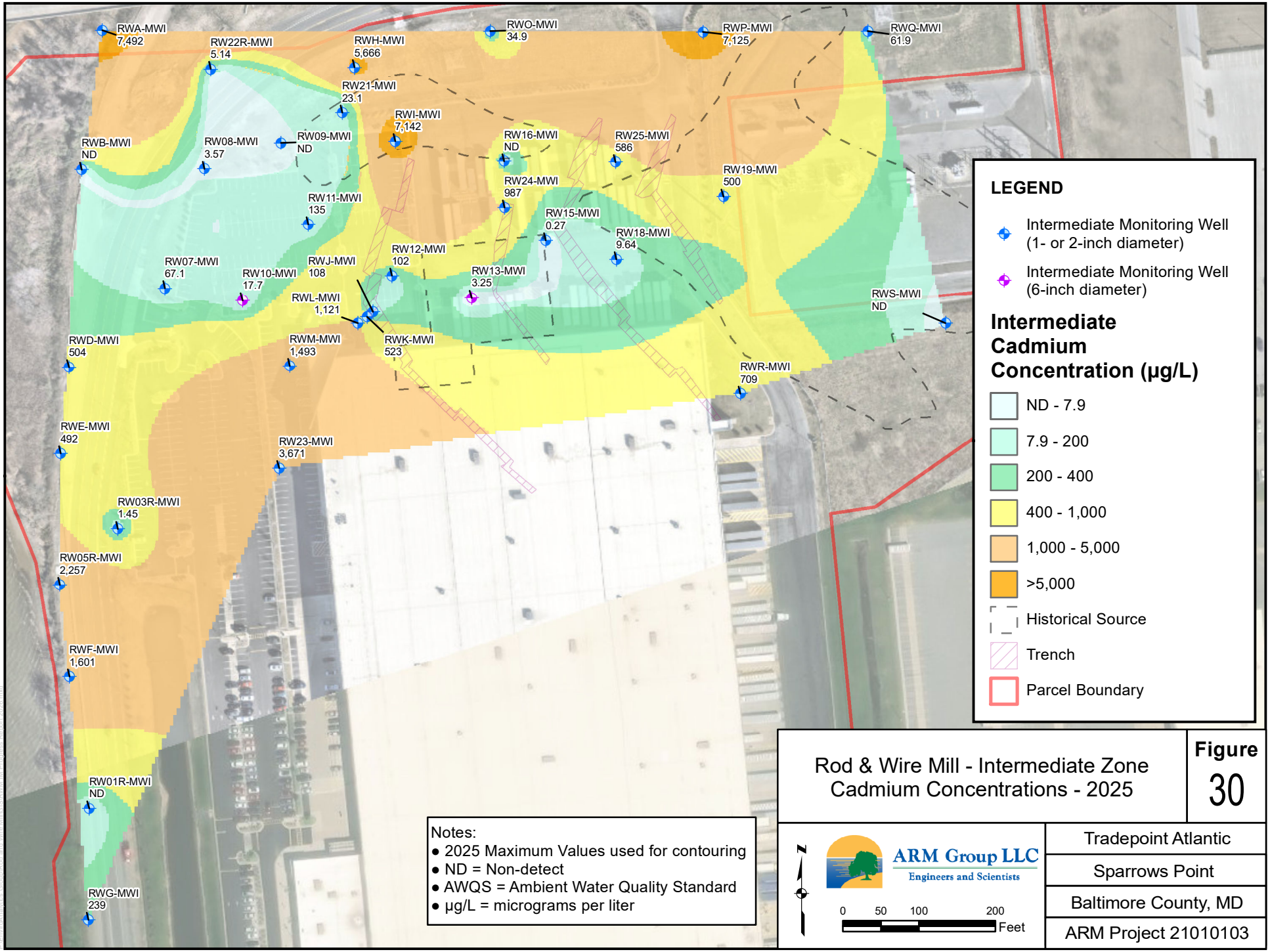
Rod and Wire Mill
Tradepoint Atlantic

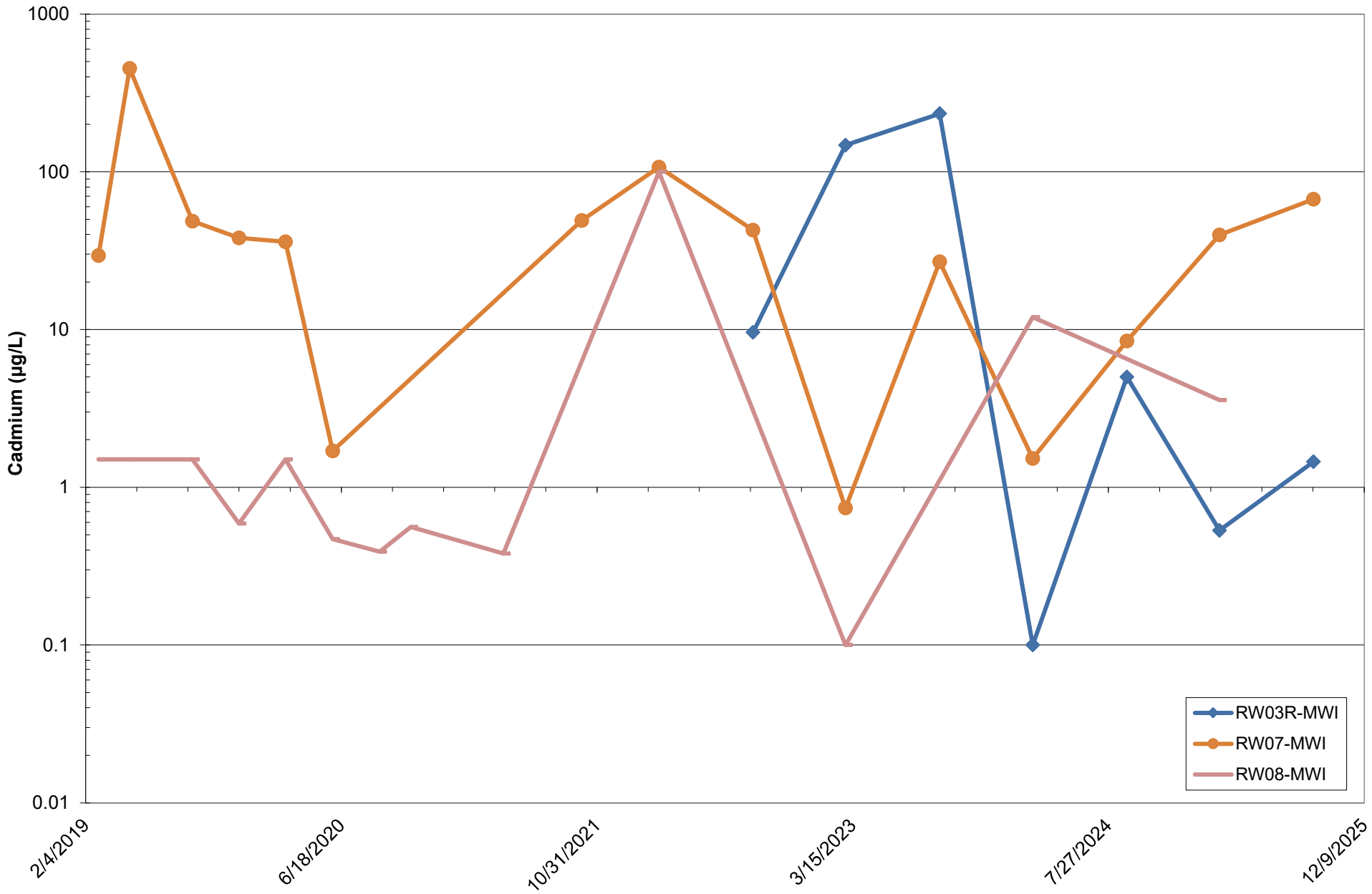
Sparrows Point, Maryland

Intermediate Upgradient Zinc Concentrations

December 2025

Figure 29


RWA-MWI 7,492
RW22R-MWI 5.14
RWH-MWI 5,666
RWO-MWI 34.9
RWP-MWI 7,125
RWQ-MWI 61.9
RW21-MWI 23.1
RWI-MWI 7,142
RWB-MWI ND
RW08-MWI 3.57
RW09-MWI ND
RW16-MWI ND
RW25-MWI 586
RW19-MWI 500
RW24-MWI 987
RW11-MWI 135
RW15-MWI 0.27
RW18-MWI 9.64
RW12-MWI 102
RW07-MWI 67.1
RWJ-MWI 108
RW10-MWI 17.7
RW13-MWI 3.25
RWS-MWI ND
RWL-MWI 1,121
RWD-MWI 504
RWM-MWI 1,493
RWK-MWI 523
RWR-MWI 709
RWE-MWI 492
RW23-MWI 3,671
RW03R-MWI 1.45
RW05R-MWI 2,257
RWF-MWI 1,601
RW01R-MWI ND
RWG-MWI 239
LEGEND
Intermediate Monitoring Well (1- or 2-inch diameter)
Intermediate Monitoring Well (6-inch diameter)
Intermediate Cadmium Concentration (µg/L)
ND - 7.9
7.9 - 200
200 - 400
400 - 1,000
1,000 - 5,000
>5,000
Historical Source
Trench
Parcel Boundary
Notes:
• 2025 Maximum Values used for contouring
• ND = Non-detect
• AWQS = Ambient Water Quality Standard
• µg/L = micrograms per liter
Rod & Wire Mill - Intermediate Zone Cadmium Concentrations - 2025
Figure 30
ARM Group LLC
Engineers and Scientists
0 50 100 200
Feet
Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 21010103



ARM Group LLC
Engineers and Scientists

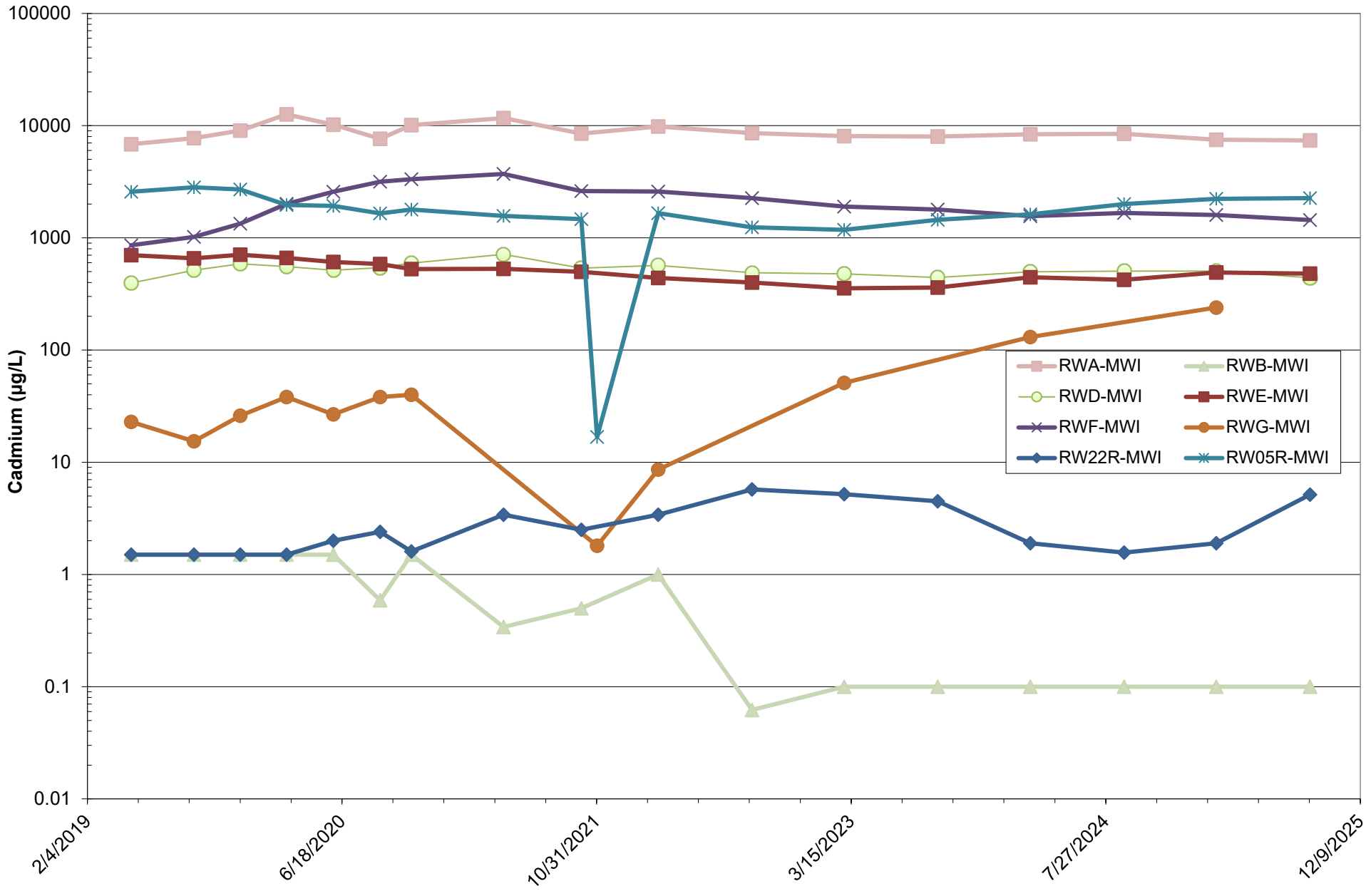
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Perimeter Cadmium Concentrations (Orginal Wells)

December 2025

Figure 31



ARM Group LLC
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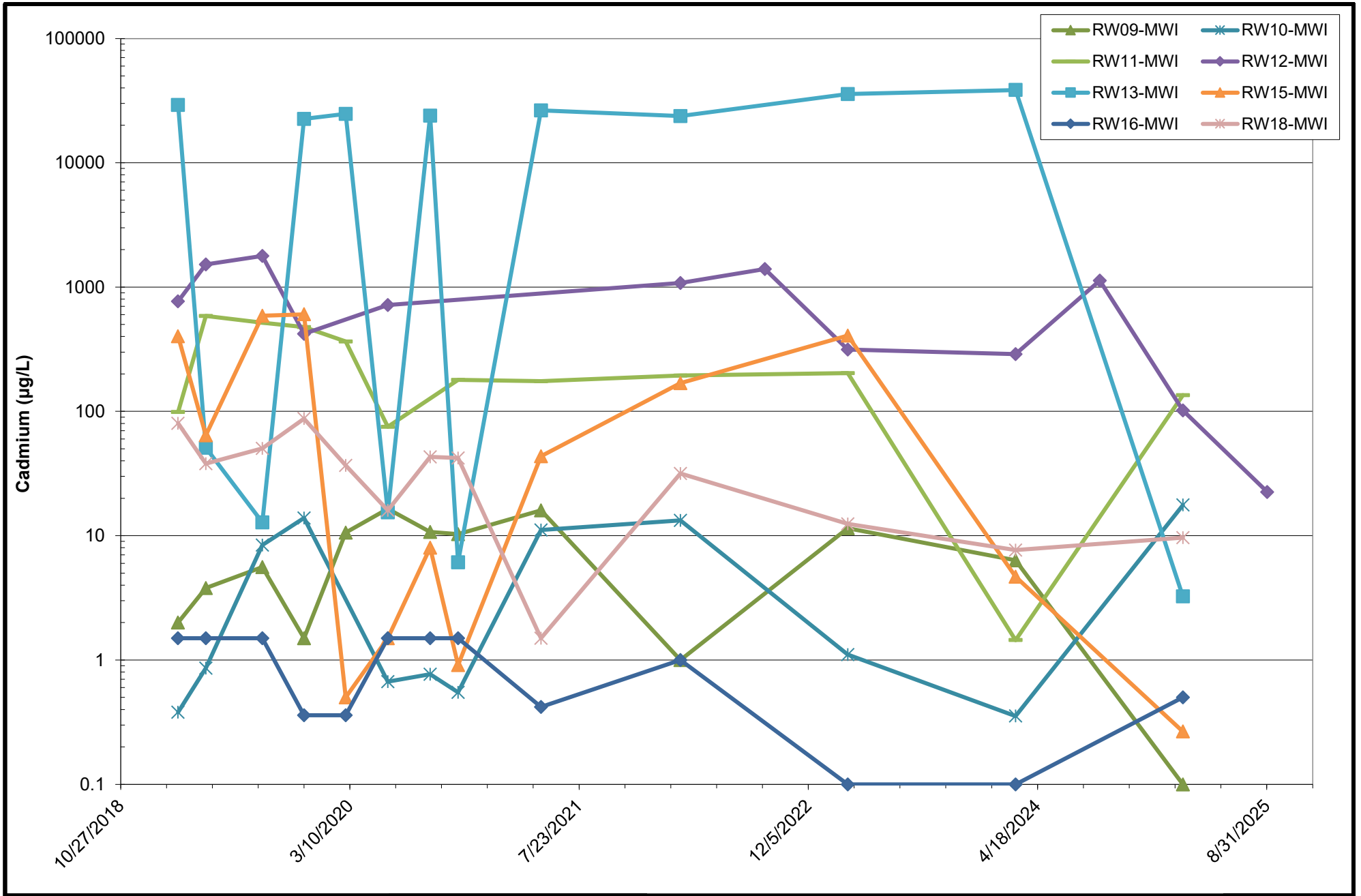
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Perimeter Cadmium Concentrations (Supplemental Wells)

December 2025

Figure 32



ARM Group LLC
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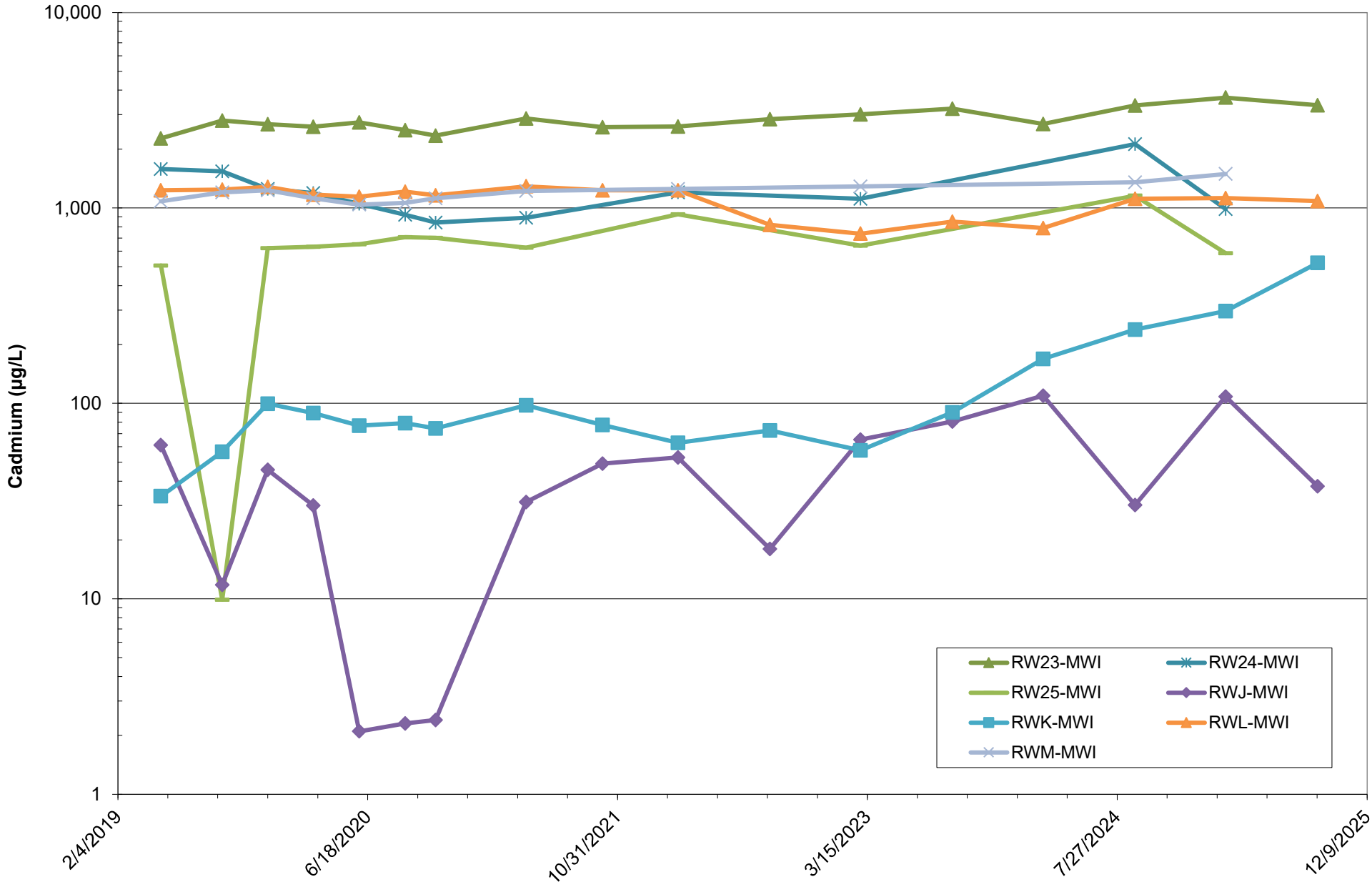
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Interior Cadmium Concentrations (Original Wells)

December 2025

Figure 33



ARM Group LLC
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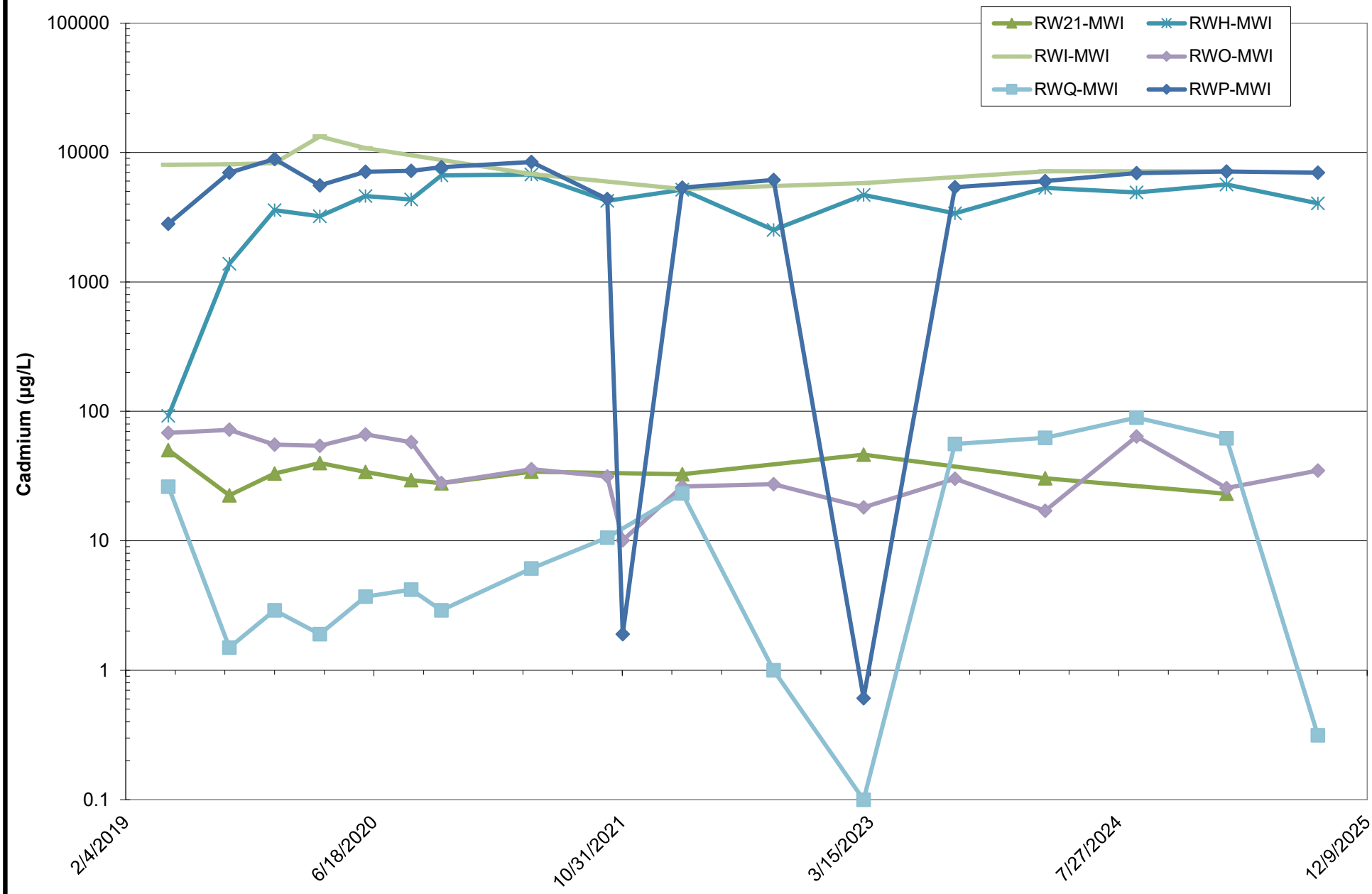
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Interior Cadmium Concentrations (Supplemental Wells)

December 2025

Figure 34



ARM Group LLC
Engineers and Scientists

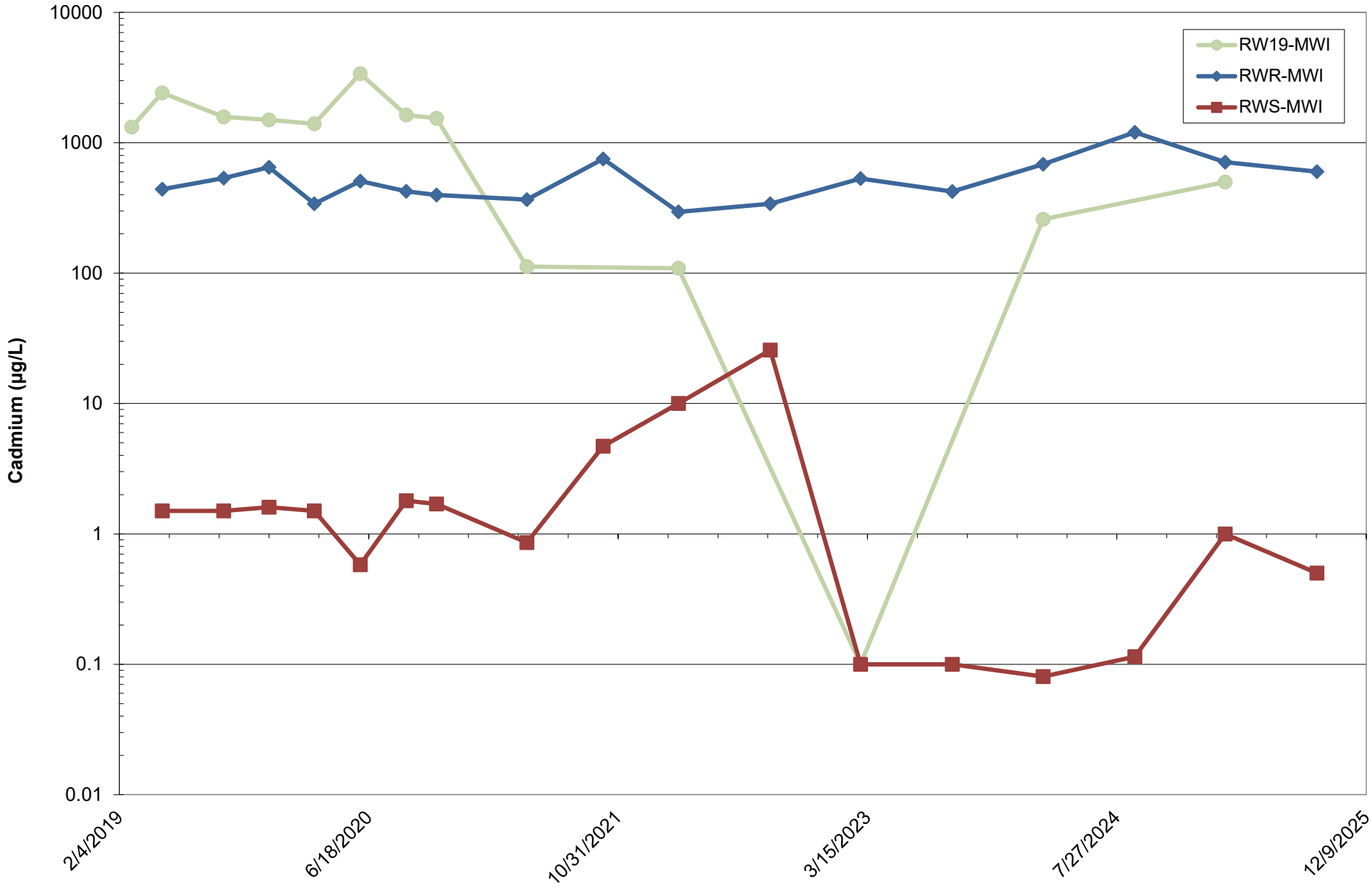
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Delineation Wells Cadmium Concentrations

December 2025

Figure 35



ARM Group LLC
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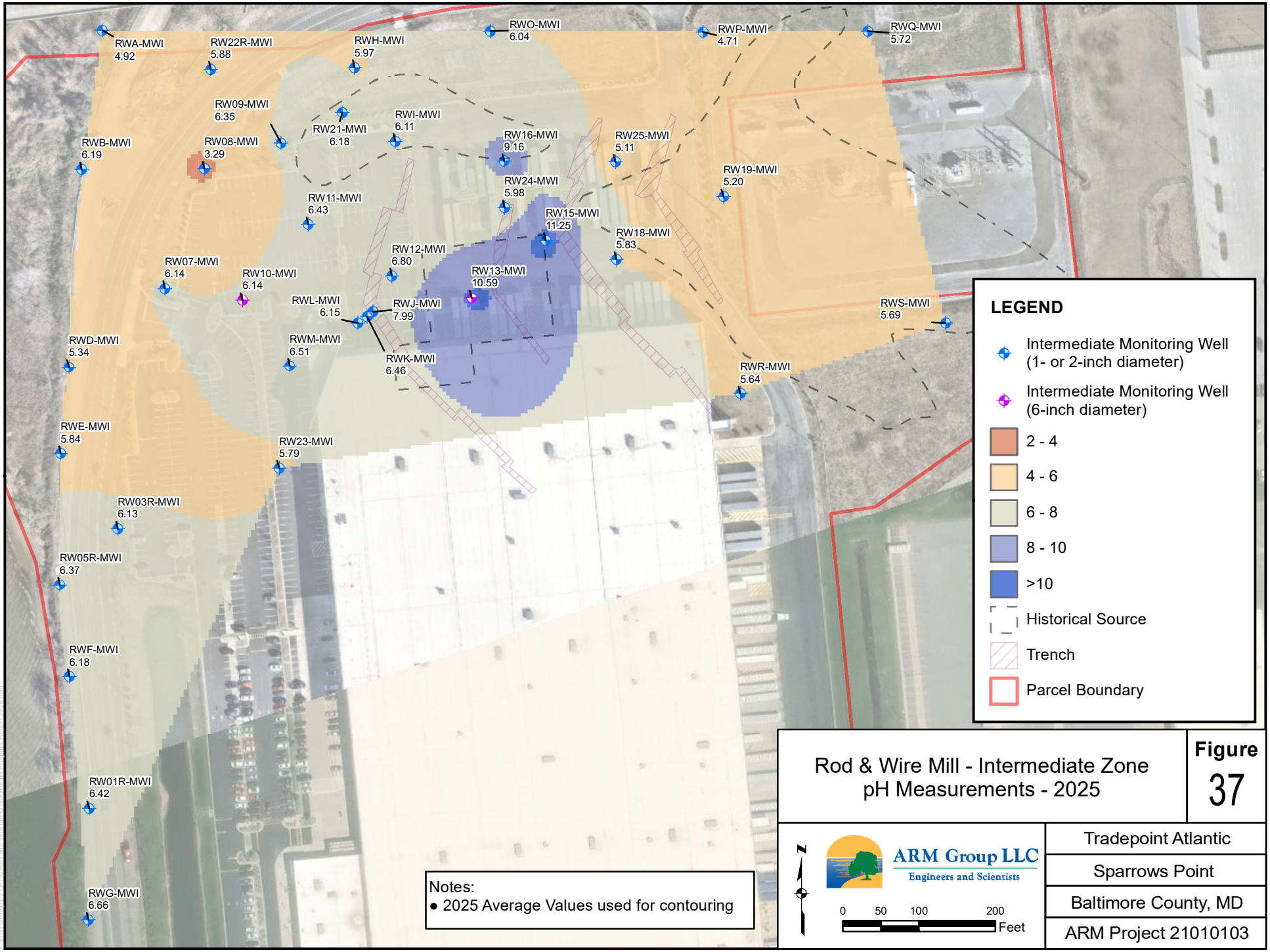
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

Intermediate Upgradient Cadmium Concentrations

December 2025

Figure 36

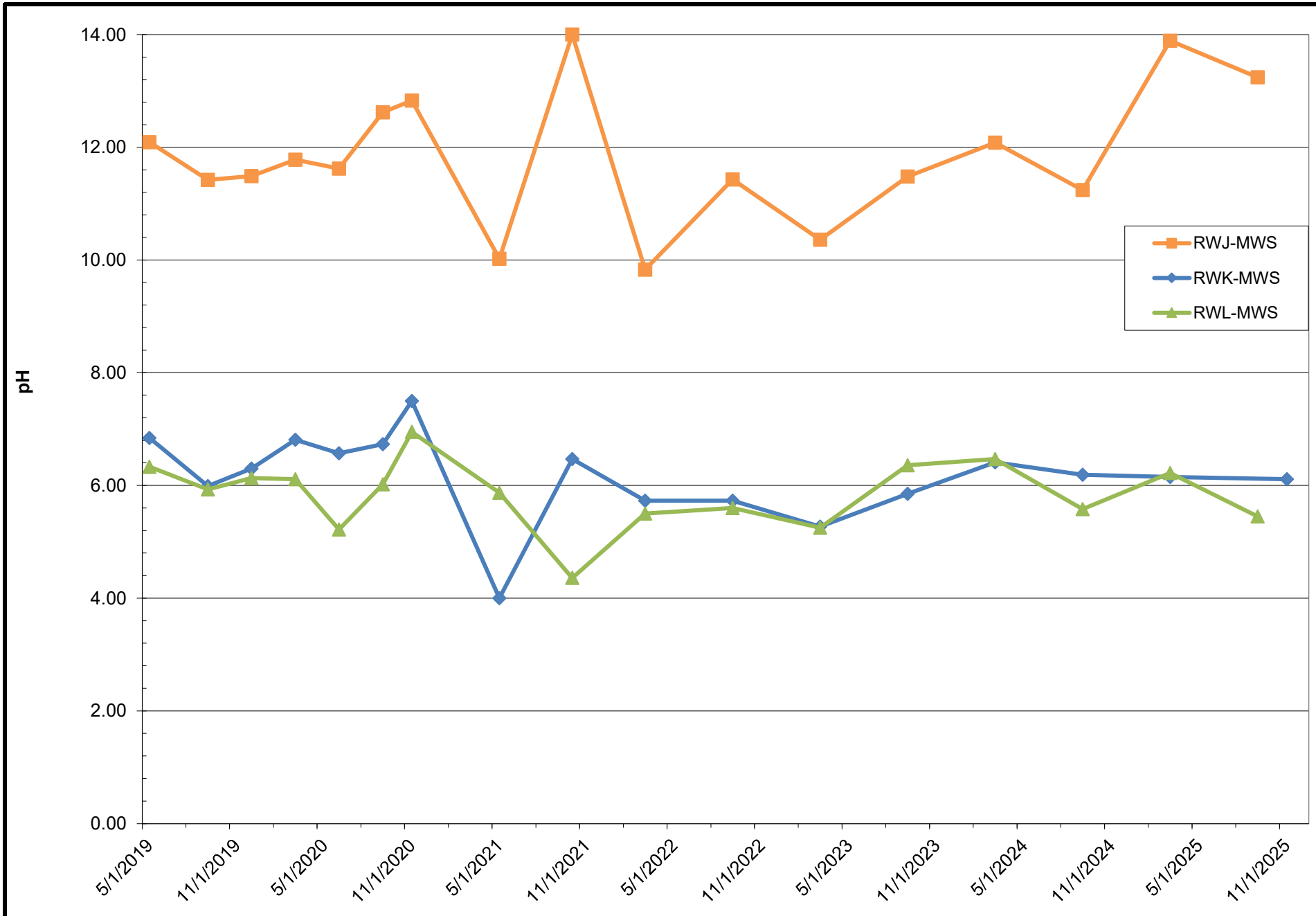


Rod & Wire Mill - Intermediate Zone
pH Measurements - 2025

Figure 37

ARM Group LLC
Engineers and Scientists

Tradepoint Atlantic
Sparrows Point
Baltimore County, MD
ARM Project 21010103



ARM Group LLC
Engineers and Scientists

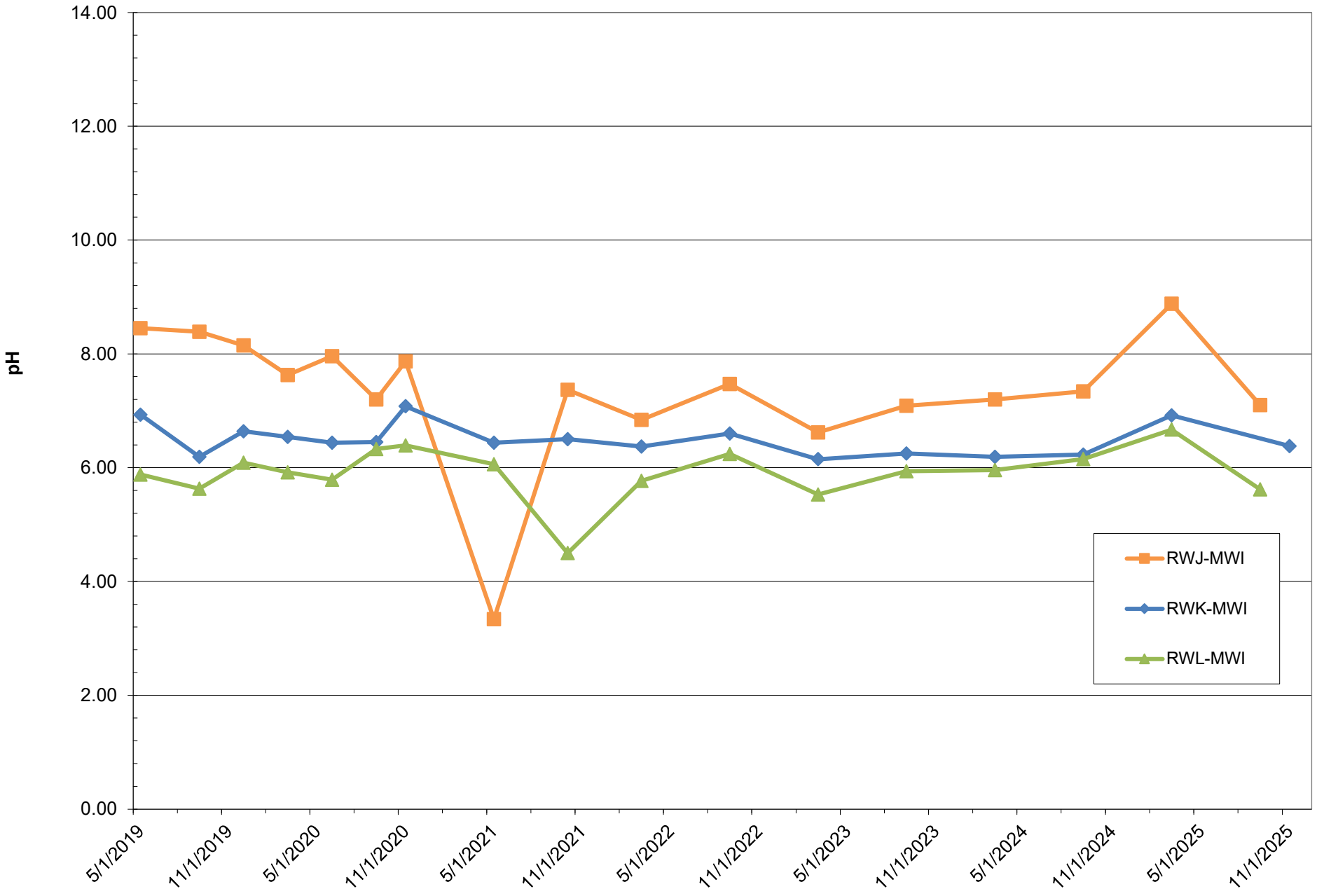
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

RWJ-MWS, RWK-MWS, RWL-MWS pH Measurements

December 2025

Figure 38



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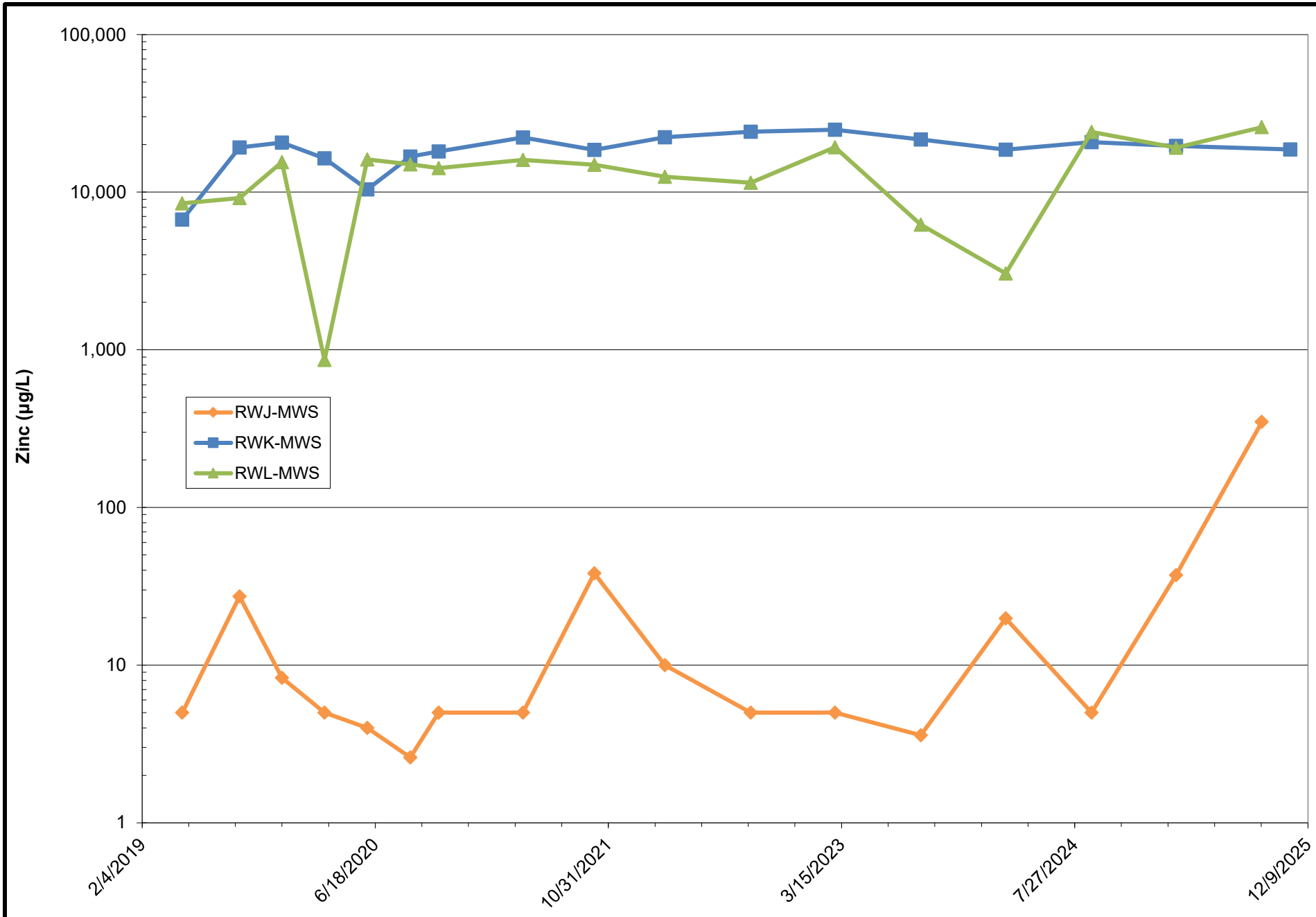
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

RWJ-MWI, RWK-MWI, and RWL-MWI pH Measurements

December 2025

Figure 39



ARM Group LLC
Engineers and Scientists

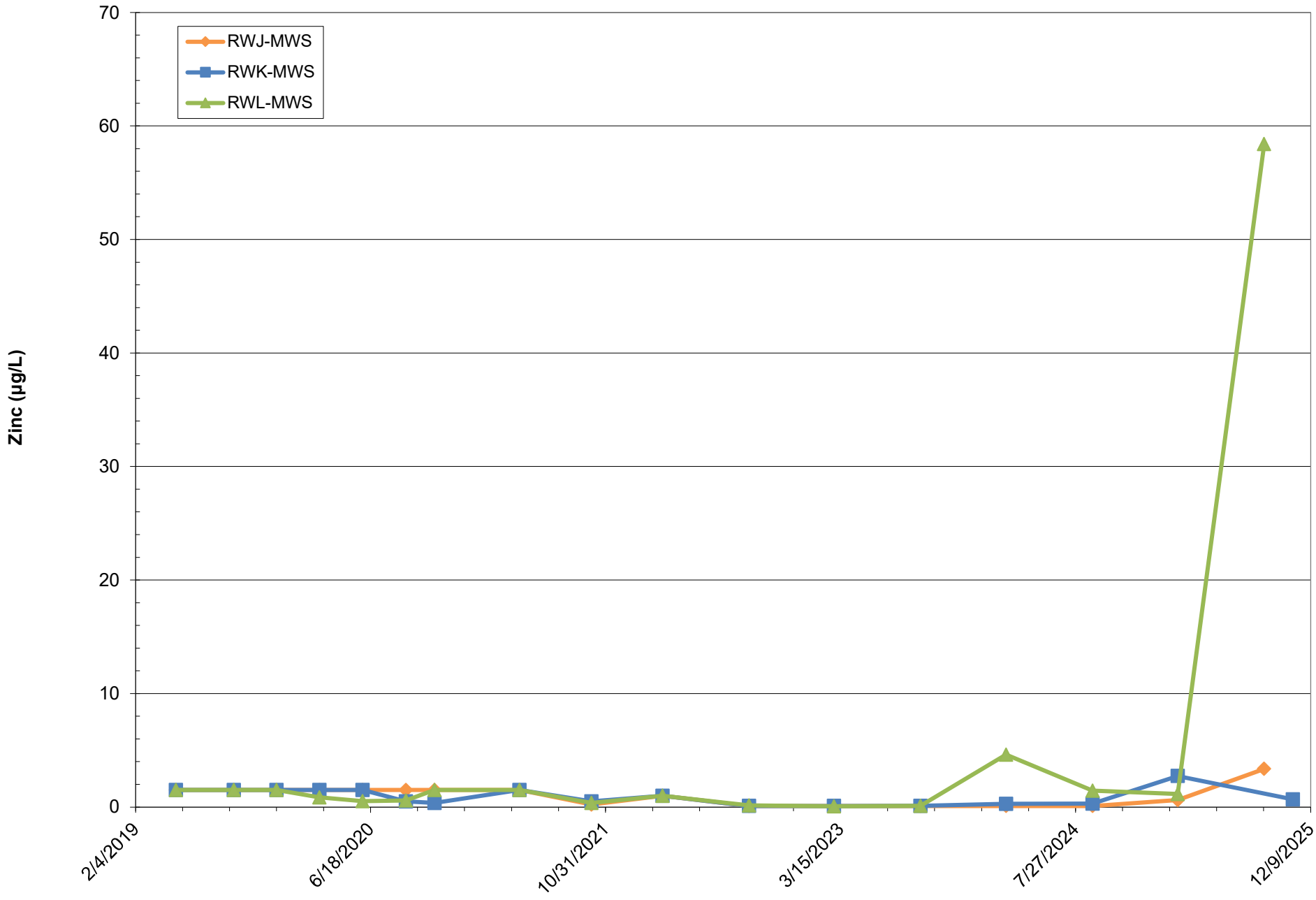
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

RWJ-MWS, RWK-MWS, and RWL-MWS Zinc Concentrations

December 2025

Figure 40



ARM Group LLC
Engineers and Scientists

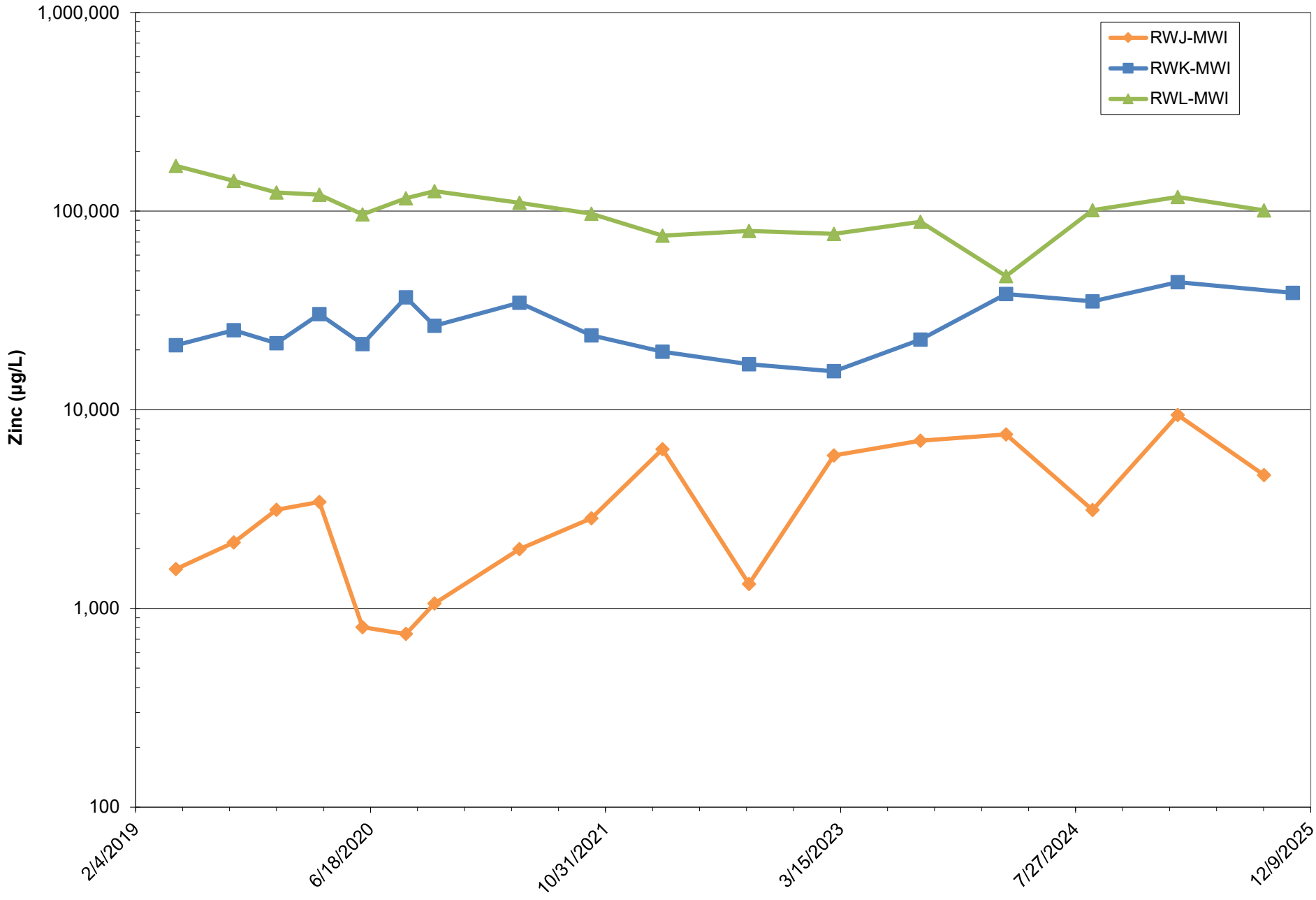
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

RWJ-MWS, RWK-MWS, and RWL-MWS Cadmium Concentrations

December 2025

Figure 41



ARM Group LLC
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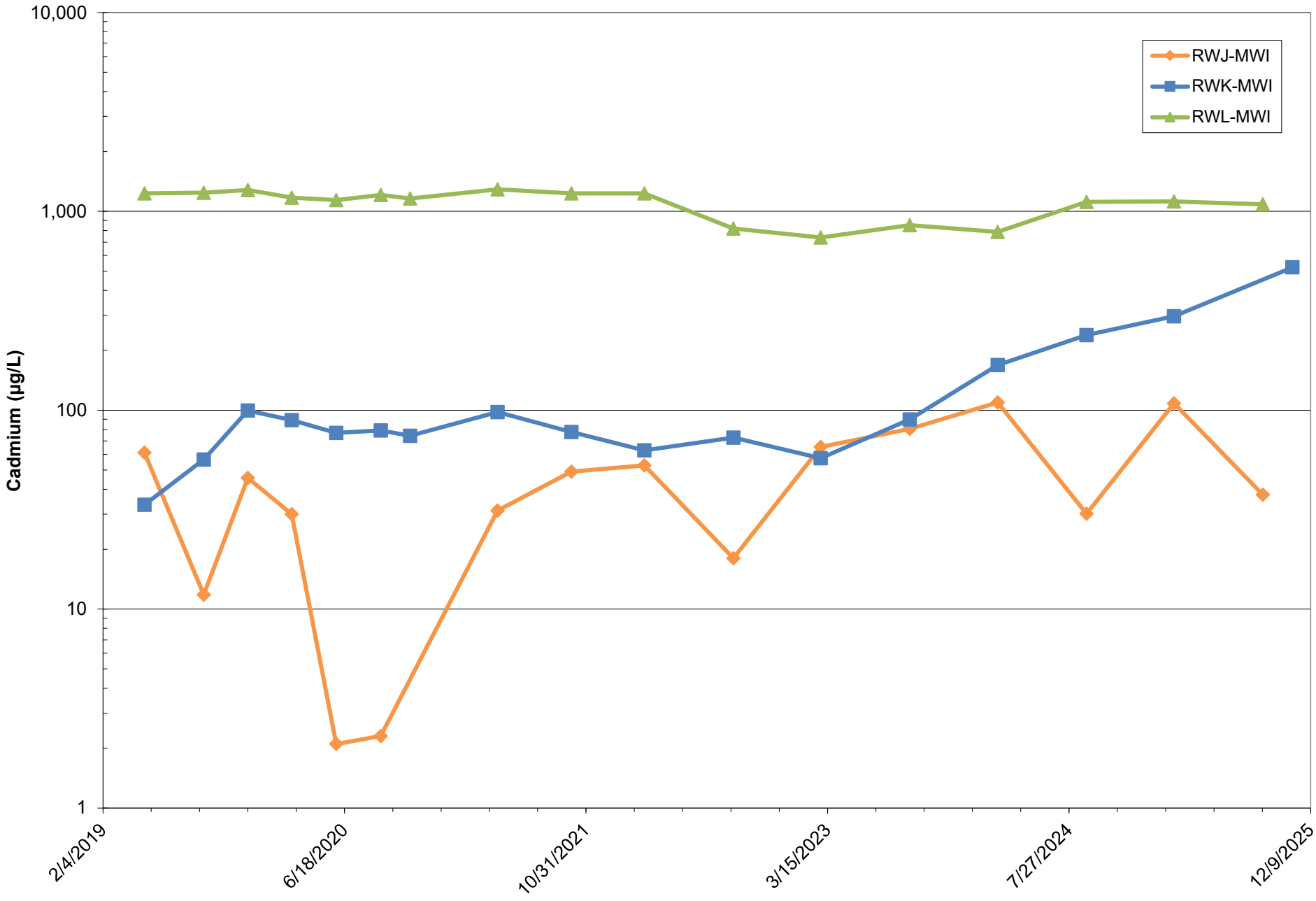
Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

RWJ-MWI, RWK-MWI, and RWL-MWI Zinc Concentrations

December 2025

Figure 42



ARM Group LLC
Engineers and Scientists

Rod and Wire Mill
Tradepoint Atlantic

Sparrows Point, Maryland

RWJ-MWI, RWK-MWI, and RWL-MWI Cadmium Concentrations

December 2025

Figure 43

TABLES

TABLE 1
Monitoring Well Construction Summary
Rod and Wire Mill Interim Measure Progress Report

Well Name	Monitoring Area	Installation Date	Abandonment Date	Northing	Easting	Surface Completion	TOC Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	Total Well Depth (feet)	Screen Length (feet)	Well Diameter (inch)
RW01R-MWI	Intermediate	8/27/25		571439.35	1455915.31	Stick-up Steel Casing	14.47	11.89	22.7	10	2
RW01R-MWS	Shallow	8/27/25		571446.28	1455914.66	Stick-up Steel Casing	15.05	11.75	43.4	10	2
RW03R-MWI	Shallow	5/3/22		571809.75	1455953.37	Stick-up Steel Casing	13.8	11.63	20	8	2
RW03R-MWS	Intermediate	5/3/22		571805.64	1455953.19	Stick-up Steel Casing	13.78	11.52	40	10	2
RW04-MWS	Shallow	8/11/00		571781.31	1456010.85	Flush Mount	8.89	9.20	15	unknown	2
RW05R-MWS	Shallow	8/27/25		571733.53	1455882.84	Stick-up Steel Casing	13.65	10.64	22.7	10	2
RW05R-MWI	Intermediate	4/23/19		571732.44	1455877.00	Stick-up Steel Casing	12.95	10.56	40	10	1
RW06R-MWD	Deep	5/1/18		571962.53	1455966.19	Flush mount	11.84	12.07	62	10	2
RW06R-MWS	Shallow	4/30/18		571966.85	1455965.71	Flush mount	11.44	11.95	10	5	2
RW07-MWI	Intermediate	12/14/16		572120.74	1456014.51	Flush mount	12.87	13.16	40	10	2
RW07-MWS	Shallow	12/14/16		572124.67	1456015.62	Flush mount	13.01	13.31	20	10	2
RW08-MWI	Intermediate	12/13/16		572277.42	1456066.32	Flush mount	12.27	12.71	40	10	2
RW08-MWS	Shallow	12/13/16		572281.23	1456068.36	Flush mount	12.32	12.47	20	10	2
RW09-MWI	Intermediate	12/15/16		572311.30	1456166.67	Flush mount	12.75	12.95	40	10	2
RW09-MWS	Shallow	12/16/16		572317.20	1456164.58	flush mount	12.81	13.07	20	10	2
RW10-MWI	Intermediate	12/22/16		572105.17	1456116.25	Vault	13.44	NM	40	10	6
RW11-MWI	Intermediate	8/30/01		572204.53	1456202.56	Flush mount	12.34	12.64	30	unknown	2
RW11-MWS	Shallow	12/19/16		572210.58	1456202.67	Flush mount	12.16	12.63	20	10	2
RW12-MWI	Intermediate	9/12/85		572137.28	1456311.81	Flush mount	13.43	13.6	30	unknown	2
RW12-MWS	Shallow	8/28/01		572145.26	1456308.73	Flush mount	13.15	13.5	14	unknown	2
RW13-MWI	Intermediate	7/21/17		572108.39	1456416.36	Vault	13.69	14.51	38	10	6
RW14-MWS	Shallow	7/27/17		572172.66	1456421.30	Flush mount	12.64	13.13	20.5	10	2
RW15-MWI	Intermediate	7/24/17		572183.92	1456513.58	Flush mount	13.33	13.58	36.5	10	2
RW15-MWS	Shallow	7/21/17		572189.65	1456512.04	Flush mount	13.22	13.52	18.3	10	2
RW16-MWI	Intermediate	8/22/17		572286.93	1456459.18	Flush mount	12.18	12.38	40	10	2
RW16-MWS	Shallow	8/22/17		572294.99	1456460.62	Flush mount	12.02	12.24	20	10	2
RW18-MWI	Intermediate	9/12/85		572158.81	1456606.20	Flush mount	13.8	14.04	30	unknown	2
RW18-MWS	Shallow	9/13/85		572167.73	1456601.82	Flush mount	13.68	13.92	10	unknown	2
RW19-MWI	Intermediate	12/19/16		572241.00	1456746.13	Flush mount	12.64	NM	40	10	2
RW19-MWS	Shallow	12/20/16		572247.13	1456745.98	Flush mount	12.97	NM	20	10	2
RW21-MWI	Intermediate	4/9/19		572350.77	1456246.88	Flush mount	14.46	14.63	40	10	1
RW21-MWP	Perched	1/28/20		572363.83	1456276.03	Flush mount	13.52	13.87	14	10	2
RW21-MWS	Shallow	8/25/17		572363.83	1456276.02	Flush mount	13.51	13.91	28	5	2
RW22R-MWI	Intermediate	4/11/19		572408.18	1456074.57	Stick-up Steel Casing	16.63	14.02	40	10	1
RW22R-MWS	Shallow	4/10/19		572411.57	1456072.49	Stick-up Steel Casing	16.56	14.02	20	10	1
RW23-MWI	Intermediate	4/3/19		571885.07	1456164.16	Flush Mount	14.36	14.6	40	10	1
RW23-MWS	Shallow	4/4/19		571887.29	1456162.57	Flush Mount	14.24	14.5	20	10	1
RW24-MWI	Intermediate	4/12/19		572226.48	1456459.75	Flush Mount	12.57	12.74	40	10	1
RW24-MWS	Shallow	4/12/19		572228.54	1456459.90	Flush Mount	12.55	12.78	20	10	1
RW25-MWI	Intermediate	4/15/19		572285.81	1456604.80	Flush Mount	12.08	12.28	40	10	1

TABLE 1
Monitoring Well Construction Summary
Rod and Wire Mill Interim Measure Progress Report

Well Name	Monitoring Area	Installation Date	Abandonment Date	Northing	Easting	Surface Completion	TOC Elevation (ft AMSL)	Ground Surface Elevation (ft AMSL)	Total Well Depth (feet)	Screen Length (feet)	Well Diameter (inch)
RW25-MWS	Shallow	4/12/19		572287.97	1456604.76	Flush Mount	11.94	12.16	20	10	1
RWA-MWI	Intermediate	4/10/19		572458.87	1455932.71	Stick-up Steel Casing	10.2	7.52	20.3	5	1
RWA-MWS	Shallow	4/10/19		572463.99	1455931.14	Stick-up Steel Casing	10.59	7.74	14	10	1
RWB-MWI	Intermediate	4/15/19		572276.38	1455905.79	Stick-up Steel Casing	19.73	17.57	40	10	1
RWB-MWS	Shallow	4/16/19		572280.06	1455907.00	Stick-up Steel Casing	20.17	17.66	20.5	10	1
RWD-MWI	Intermediate	4/22/19		572017.60	1455888.92	Stick-up Steel Casing	14.87	12.72	40	10	1
RWD-MWS	Shallow	4/22/19		572021.30	1455888.64	Stick-up Steel Casing	14.93	12.68	19.5	10	1
RWE-MWI	Intermediate	4/23/19		571904.52	1455877.95	Stick-up Steel Casing	13.92	11.43	40	10	1
RWE-MWS	Shallow	4/22/19		571908.56	1455878.19	Stick-up Steel Casing	13.96	11.57	20	10	1
RWF-MWI	Intermediate	4/24/19		571612.16	1455889.58	Stick-up Steel Casing	12.31	10.3	40	10	1
RWF-MWS	Shallow	4/24/19		571613.49	1455888.93	Stick-up Steel Casing	12.74	10.24	20	10	1
RWG-MWI	Intermediate	4/25/19		571293.31	1455914.68	Flush Mount	9.45	9.62	40	10	1
RWG-MWS	Shallow	4/24/19		571296.37	1455914.22	Flush mount	9.64	9.55	20	10	1
RWH-MWI	Intermediate	4/9/19		572410.31	1456262.81	Flush Mount	12.03	12.4	33.5	10	1
RWH-MWS	Shallow	4/8/19		572413.92	1456262.00	Flush Mount	11.83	12.29	20	10	1
RWI-MWI	Intermediate	4/8/19		572313.56	1456316.52	Flush Mount	12.95	13.23	40	10	1
RWI-MWS	Shallow	4/8/19		572315.80	1456316.34	Flush Mount	12.89	13.23	20	10	1
RWJ-MWI	Intermediate	4/29/19		572090.21	1456287.00	Flush Mount	14.1	14.4	40	10	1
RWJ-MWS	Shallow	4/29/19		572092.22	1456287.23	Flush Mount	13.81	14.31	20.5	10	1
RWK-MWI	Intermediate	4/2/19		572083.36	1456279.40	Flush Mount	14.22	14.54	40	10	1
RWK-MWS	Shallow	4/1/19		572085.02	1456279.04	Flush Mount	14.24	14.5	20	10	1
RWL-MWI	Intermediate	4/2/19		572075.22	1456267.26	Flush Mount	14.36	14.6	40	10	1
RWL-MWS	Shallow	4/2/19		572078.20	1456266.56	Flush Mount	14.26	14.55	20	10	1
RWM-MWI	Intermediate	4/4/19		572018.78	1456178.19	Flush Mount	14.92	15.2	40	10	1
RWM-MWS	Shallow	4/4/19		572019.86	1456176.58	Flush Mount	14.97	15.21	20	10	1
RWN-MWS	Shallow	4/11/19		572065.84	1456392.38	Flush Mount	14.84	15.16	25	10	1
RWO-MWI	Intermediate	4/29/19		572457.77	1456441.04	Flush Mount	11.67	11.99	40	10	1
RWO-MWS	Shallow	4/29/19		572462.53	1456439.69	Flush Mount	11.59	11.93	20	10	1
RWP-MWI	Intermediate	4/17/19		572456.88	1456719.18	Stick-up Steel Casing	14.32	11.62	40	10	1
RWQ-MWI	Intermediate	4/18/19		572457.96	1456935.25	Stick-up Steel Casing	17.07	14.87	40	10	1
RWQ-MWS	Shallow	4/17/19		572461.93	1456935.29	Stick-up Steel Casing	17.11	14.64	20	10	1
RWR-MWI	Intermediate	4/25/19		571982.59	1456768.61	Flush Mount	13.7	14.04	40	10	1
RWR-MWS	Shallow	4/25/19		571986.17	1456769.12	Flush Mount	13.68	14.07	20	10	1
RWS-MWI	Intermediate	4/18/19		572075.05	1457037.28	Stick-up Steel Casing	17.6	15.06	45	10	1
RWS-MWS	Shallow	4/18/19		572077.76	1457037.43	Stick-up Steel Casing	17.6	15.25	20	10	1

NM = not mearsured
TOC = top of casing
AMSL = above mean sea level

TABLE 2
Shallow Zone Sampling Frequency
Rod and Wire Mill Interim Measure Progress Report

Well Name	Monitoring Area	Sample Frequency	Sampling Rationale
RWA-MWS	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RWB-MWS	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RWD-MWS	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RWE-MWS	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RWF-MWS	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RWG-MWS	Downgradient Perimeter	Not Sampled	Outside the area of concern (south) and do not expect to see any changes
RWH-MWS	Delineation	Semi-Annually	Monitor northern perimeter concentrations
RWI-MWS	Delineation	Annually	Monitor the northwest pond
RWJ-MWS	Interior	Semi-Annually	Compare to the intermediate well to assess potential vertical migration
RWK-MWS	Interior	Semi-Annually	Compare to the intermediate well to assess potential vertical migration
RWL-MWS	Interior	Semi-Annually	Compare to the intermediate well to assess potential vertical migration
RWM-MWS	Interior	Not Sampled	Not monitoring the perimeter
RWN-MWS	Interior	Annually	Monitor effect on former sludge storage area and any southern direction impacts before the operational building
RWO-MWS	Delineation	Semi-Annually	Monitor northern perimeter concentrations
RWQ-MWS	Delineation	Semi-Annually	Monitor northern perimeter concentrations
RWR-MWS	Upgradient	Semi-Annually	Monitor eastern perimeter concentrations
RWS-MWS	Upgradient	Semi-Annually	Monitor eastern perimeter concentrations
RW01R-MWS	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RW03R-MWS	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RW04-MWS	Downgradient Perimeter	Not Sampled	In close proximity to RW03-MWS; not needed to monitor the perimeter
RW05R-MWS	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RW06R-MWS	Downgradient Perimeter	Annually	In close proximity to RWD and RWE-MWS; not needed to monitor the perimeter
RW07-MWS	Downgradient Perimeter	Annually	In close proximity to RWB; not needed to monitor the perimeter
RW08-MWS	Downgradient Perimeter	Not Sampled	Not monitoring the perimeter
RW09-MWS	Interior	Not Sampled	Not monitoring the perimeter
RW11-MWS	Interior	Annually	Provide spatial coverage in central area
RW12-MWS	Interior	Semi-Annually	Compare to the intermediate well to assess potential vertical migration
RW14-MWS	Interior	Not Sampled	Redundant with other wells monitoring central area
RW15-MWS	Interior	Not Sampled	Redundant with other wells monitoring central area
RW16-MWS	Interior	Annually	Within the area of the northwest disposal pond; provide spatial coverage in central area
RW18-MWS	Interior	Annually	Monitor any southern direction impacts before the operational building; provide spatial coverage in central area
RW19-MWS	Upgradient	Not Sampled	Do not expect to see changes in conditions
RW21-MWP	Delineation	Not Sampled	Installed for NAPL monitoring
RW21-MWS	Delineation	Not Sampled	Redundant with other monitoring wells in the central area
RW22R-MWS	Downgradient Perimeter	Semi-Annually	Monitor downgradient of northwest pond area; monitor northern perimeter concentrations
RW23-MWS	Interior	Semi-Annually	Monitor southern perimeter and immediately downgradient of operational building concentrations
RW24-MWS	Interior	Not Sampled	Redundant with other monitoring wells in the central area
RW25-MWS	Interior	Not Sampled	Redundant with other monitoring wells in the central area

TABLE 3
Intermediate Zone Sampling Frequency
Rod and Wire Mill Interim Measure Progress Report

Well Name	Monitoring Area	Sample Frequency	Sampling Rationale
RWA-MWI	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RWB-MWI	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RWD-MWI	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RWE-MWI	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RWF-MWI	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RWG-MWI	Downgradient Perimeter	Annually	Monitor for changes in perimeter concentrations
RWH-MWI	Delineation	Semi-Annually	Monitor northern perimeter conditions
RWI-MWI	Delineation	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RWJ-MWI	Interior	Semi-Annually	Near field wells to monitor trench effectiveness; inside final treatment trench
RWK-MWI	Interior	Semi-Annually	Near field wells to monitor trench effectiveness; immediate well downgradient after final treatment trench
RWL-MWI	Interior	Semi-Annually	Near field wells to monitor trench effectiveness; delineation of final treatment trench
RWM-MWI	Interior	Annually	Trench effectiveness is already being monitored closer to the area of concern
RWO-MWI	Delineation	Semi-Annually	Monitor northern perimeter conditions
RWP-MWI	Delineation	Semi-Annually	Monitor northern perimeter conditions
RWQ-MWI	Delineation	Semi-Annually	Monitor northern perimeter conditions
RWR-MWI	Upgradient	Semi-Annually	Monitor eastern perimeter conditions; monitor concentrations proximal to the operational building
RWS-MWI	Upgradient	Semi-Annually	Monitor eastern perimeter conditions
RW01R-MWI	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RW03R-MWI	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RW05R-MWI	Downgradient Perimeter	Semi-Annually	Monitor for changes in perimeter concentrations
RW06R-MWD	Downgradient Perimeter	Annually	Monitor any vertical movement of groundwater into deep hydrogeologic zone
RW07-MWI	Downgradient Perimeter	Semi-Annually	Monitor western perimeter
RW08-MWI	Downgradient Perimeter	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RW09-MWI	Interior	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RW10-MWI	Interior	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RW11-MWI	Interior	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RW12-MWI	Interior	Semi-Annually	Near field wells to monitor trench effectiveness; well immediate upgradient to final treatment trench
RW13-MWI	Interior	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RW15-MWI	Interior	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RW16-MWI	Interior	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RW18-MWI	Interior	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RW19-MWI	Upgradient	Annually	Do not expect to see changing conditions because it is upgradient of all treatment trenches
RW21-MWI	Delineation	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RW22R-MWI	Downgradient Perimeter	Semi-Annually	Monitor downgradient of northwest pond area; monitor northern perimeter concentrations
RW23-MWI	Interior	Semi-Annually	Monitor the concentrations along the southern perimeter and immediately downgradient of operational building
RW24-MWI	Interior	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater
RW25-MWI	Interior	Annually	Do not expect to see rapid changing conditions due to passive condition and slow migration of groundwater

TABLE 4
Shallow Zinc Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RW01-MWS	RW01R-MWS	RW02-MWS	RW03-MWS	RW03R-MWS	RW04-MWS	RW05-MWS	RW05R-MWS	RW06R-MWS	RW07-MWS	RW08-MWS	RW09-MWS	RW11-MWS	RW12-MWS
2025 Sampling Frequency		Semiannually	Semiannually	Semiannually	NA	Semiannually	Not Sampled	Semiannually	Semiannually	Annually	Annually	Not Sampled	Not Sampled	Annually	Semiannually
5/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**2,330**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**4,290**
11/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**925**
2/10/2017-2/14/2017	µg/L	*DNE*	*DNE*	*DNE*	**6,200**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	**81.6**	**1,080**	**14,500**	**8,790**	*NS*
3/28/2017-3/29/2017	µg/L	*DNE*	*DNE*	*DNE*	**6,510**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	**74.8**	**8,710**	**12,400**	**10,500**	*NS*
4/25/2017-4/27/2017	µg/L	*DNE*	*DNE*	*DNE*	**4,860**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	**86.4**	**9,520**	**12,900**	**13,100**	*NS*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	*DNE*	**5,380**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	**102**	**2,680**	**11,900**	**12,500**	*NS*
6/5/2017-6/8/2017	µg/L	*DNE*	*DNE*	*DNE*	**5,500**	*DNE*	**58.2**	*DNE*	*DNE*	*DNE*	**107**	**1,870**	**13,000**	**13,500**	**11,400**
7/10/2017-7/12/2017	µg/L	*DNE*	*DNE*	*DNE*	**8,460**	*DNE*	**179**	*DNE*	*DNE*	*DNE*	**114**	**968**	**11,500**	**10,900**	**9,090**
8/7/2017-8/10/2017	µg/L	**12,200**	*DNE*	**6,290**	**7,730**	*DNE*	**74.7**	**550**	*DNE*	*DNE*	**127**	**3,190**	**9,700**	**10,800**	**5,090**
9/1/2017-9/8/2017	µg/L	**5,730**	*DNE*	**3,220**	**16,300**	*DNE*	**163**	**184**	*DNE*	*DNE*	**165**	**4,460**	**8,750**	**10,600**	**3,980**
10/2/2017-10/6/2017	µg/L	**7,730**	*DNE*	**5,490**	**32,100**	*DNE*	**137**	**1,410**	*DNE*	*DNE*	**144**	**1,950**	**8,310 ML**	**9,270**	**3,790**
11/3/2017-11/13/2017	µg/L	**25,200**	*DNE*	**1,460**	**14,100**	*DNE*	**123**	**503**	*DNE*	*DNE*	**227**	**1,600**	**9,290**	**18,300**	**235,000**
12/4/2017-12/8/2017	µg/L	**7,300**	*DNE*	**79.3**	**46,400**	*DNE*	**279**	**5,440**	*DNE*	*DNE*	**216**	**1,770**	**8,550**	**24,000**	**2,980**
1/2/2018-1/9/2018	µg/L	**35,200**	*DNE*	**2,210**	**31,500**	*DNE*	**384**	**35.7**	*DNE*	*DNE*	**276**	**2,600**	**9,310**	**27,700**	**10,100**
4/8/2018-4/13/2018	µg/L	**52,000**	*DNE*	**5,320**	**44,000**	*DNE*	**300**	**75.3**	*DNE*	*DNE*	**204**	**13,200**	**8,980**	**37,100**	**10,600**
7/30/2018-8/3/2018	µg/L	**24,100**	*DNE*	**5,470**	**25,600**	*DNE*	**7.9 J**	**32.6**	*DNE*	**22**	**248**	**6,640**	**10,700**	**109,000**	**2,900**
10/1/2018-10/5/2018	µg/L	**37,000**	*DNE*	**5,930**	**14,900**	*DNE*	**168**	**21.7**	*DNE*	**3.7 J**	**223**	**13,300**	**10,800**	**29,500**	**1,140**
12/10/2018-12/14/2018*	µg/L	**13,700**	*DNE*	**27,400**	**23,300**	*DNE*	**23.5**	*10 U*	*DNE*	*10 U*	**176**	**931**	**9,200**	**28,900**	**8,570**
3/12/2019-3/19/2019*	µg/L	**16,500**	*DNE*	**13,100**	**9,570**	*DNE*	**33.6**	*10 U*	*DNE*	*10 U*	**142**	**14,600**	**11,300**	**13,500**	**4,640**
5/3/2019-6/7/2019*	µg/L	**16,300**	*DNE*	**21,900**	**18,700**	*DNE*	*10 U*	*10 U*	*DNE*	**20.7**	**137**	**11,300**	**14,100**	**38,900**	**1,550**
9/10/2019-9/23/2019*	µg/L	**16,300**	*DNE*	**27,400**	**19,200**	*DNE*	**313**	*8.3 B*	*DNE*	*4.1 B*	**148**	**1,350**	**19,600**	**44,000**	**5,390**
12/3/2019-12/11/2019	µg/L	**10,400**	*DNE*	**594**	**19,200**	*DNE*	**604**	**41.6**	*DNE*	**4.3 J**	**168**	**1,250**	**20,600**	**37,500**	**763**
3/11/2020-3/23/2020*	µg/L	**9,810**	*DNE*	**269**	**16,800**	*DNE*	**37.8**	**5.4 J**	*DNE*	**4.1 J**	**124**	**10,300**	**20,700**	**28,900**	*NS*
6/8/2020-6/30/2020*	µg/L	**6,200**	*DNE*	**1,940**	**18,800**	*DNE*	**79.4**	**8.6 J**	*DNE*	**19.4**	**220**	**12,000**	**26,700**	**37,200**	**4,660**
9/9/2020-9/29/2020*	µg/L	**7,050**	*DNE*	**1,280**	*NS*	*DNE*	**75.4**	**5.9 J**	*DNE*	**8 J**	*NS*	**2,330**	**39,900**	**46,600**	*NS*
11/5/2020-11/19/2020*	µg/L	**4,140**	*DNE*	**9,950**	*NS*	*DNE*	**54.6**	**9.8 J**	*DNE*	*10 U*	*NS*	**1,600**	**45,200**	**55,200**	*NS*
5/26/2021-6/18/2021*	µg/L	**3,620**	*DNE*	**472**	*NS*	*DNE*	*NS*	**7.0 J**	*DNE*	*10 U*	*NS*	*NS*	*NS*	**61,000**	*NS*
10/4/2021-10/18/2021*	µg/L	**5,660**	*DNE*	**3.1 J**	*NS*	*DNE*	*NS*	**17.8 J**	*DNE*	*NS*	*NS*	*NS*	*NS*	*NS*	**4,960**
11/29/2021-11/30/2021*	µg/L	*NS*	*DNE*	*NS*	*NS*	*DNE*	*NS*	*NS*	*DNE*	*NS*	**298**	*NS*	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	**11,300**	*DNE*	**36,300**	*Destroyed*	*DNE*	*NS*	**56.7**	*DNE*	*20 U*	**406**	*NS*	*NS*	**13,500**	**12,400**
9/9/2022-9/15/2022*	µg/L	**6,406**	*DNE*	**7,503**	*Destroyed*	**102**	*NS*	**14.7**	*DNE*	*NS*	*NS*	*NS*	*NS*	*NS*	**21,800**
3/10/2023-4/10/2023*	µg/L	**10,390**	*DNE*	**18,640**	*Destroyed*	**658**	*NS*	**14.5**	*DNE*	*10 U*	**96.1**	*NS*	*NS*	**58,030**	**20,890**
9/08/2023-9/21/2023*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	**82.8**	*NS*	*Destroyed*	*DNE*	*NS*	*NS*	*NS*	*NS*	*NS*	**19,360**
3/19/2024-4/11/2024*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	**25.8**	*NS*	*Destroyed*	*DNE*	**3.55 J**	**149**	*NS*	*NS*	**254**	**6,243**
9/10/2024-9/19/2024*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	*500 U*	*NS*	*Destroyed*	*DNE*	*NS*	*NS*	*NS*	*NS*	*NS*	**5,627**
2/20/2025* (a)	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	*NS*	*NS*	*Destroyed*	*DNE*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/18/2025-4/4/2025*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	**65.5**	*NS*	*Destroyed*	*DNE*	*10 U*	**280**	*NS*	*NS*	**46,860**	**3,212**
9/4/2025 - 9/18/2025*	µg/L	*Abandoned*	**3,512**	*Abandoned*	*Destroyed*	**7,032**	*NS*	*Destroyed*	**210**	*NS*	*NS*	*NS*	*NS*	*NS*	**1,113**
11/5/2025* (b)	µg/L	*Abandoned*	*NS*	*Abandoned*	*Destroyed*	*NS*	*NS*	*Destroyed*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2024, concentrations in RW23-MWS and RWH-MWS were considered anomalous and were re-sampled in Feb. 2025
(b) In 3Q 2025, concentrations in RW23-MWS, RWA-MWS, and RWK-MWS were considered anomalous and were re-sampled in Nov. 2025.
(c) Anomalous results are excluded from the related figures.
(d) The relevant surface water criterion for zinc is 81 micrograms per liter (µg/L).

TABLE 4
Shallow Zinc Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RW14-MWS	RW15-MWS	RW16-MWS	RW18-MWS	RW19-MWS	RW21-MWS	RW22R-MWS	RW23-MWS	RW24-MWS	RW25-MWS	RWA-MWS	RWB-MWS	RWD-MWS	RWE-MWS	RWF-MWS
2025 Sampling Frequency		Not Sampled	Not Sampled	Annually	Annually	Not Sampled	Not Sampled	Semiannually	Semiannually	Not Sampled	Not Sampled	Semiannually	Semiannually	Semiannually	Semiannually	Semiannually
5/1/2015	µg/L	*DNE*	*DNE*	*DNE*	**6,470**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	*DNE*	**912**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
2/10/2017-2/14/2017	µg/L	*DNE*	*DNE*	*DNE*	*NS*	**10,100**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/28/2017-3/29/2017	µg/L	*DNE*	*DNE*	*DNE*	*NS*	**7,100**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/25/2017-4/27/2017	µg/L	*DNE*	*DNE*	*DNE*	*NS*	**6,260**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	*DNE*	*NS*	**4,860**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/5/2017-6/8/2017	µg/L	*DNE*	*DNE*	*DNE*	**25,500**	**3,720**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/10/2017-7/12/2017	µg/L	*DNE*	*DNE*	*DNE*	**13,300**	**3,700**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
8/7/2017-8/10/2017	µg/L	**42,000**	**276**	*NS*	**964**	**3,360**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
9/1/2017-9/8/2017	µg/L	**43,500**	**1,080**	**25.6**	**6,160**	**2,990**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/2/2017-10/6/2017	µg/L	**28,900**	**900**	**26.2**	**14,500**	**18,700**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/3/2017-11/13/2017	µg/L	**28,100**	**8,800**	**48.6**	**10,700**	**2,730**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/4/2017-12/8/2017	µg/L	**49,200**	**7,630**	**27.7**	**23,400**	**3,380**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
1/2/2018-1/9/2018	µg/L	**61,800**	**5,150**	**31.2**	**11,600**	**10,200**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/8/2018-4/13/2018	µg/L	**62,100**	**5,940**	**25**	**25,900**	**7,060**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/30/2018-8/3/2018	µg/L	**64,100**	**1,320**	**35.9**	**439**	**10,100**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2018-10/5/2018	µg/L	**80,100**	**2,950**	**30.0**	**44.9**	**10,500**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/10/2018-12/14/2018*	µg/L	**79,200**	**4,380**	**5.5 J**	**12.7**	**3,390**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/12/2019-3/19/2019*	µg/L	**65,700**	**499**	**7 J**	**30**	**4,680**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/3/2019-6/7/2019*	µg/L	**69,600**	**684**	**106**	**16.9**	**3,180**	**282,000**	**58,100**	**22.4**	**5 J**	**70,500**	**516**	**7.4 J**	**4.7 J**	**468**	**39,100**
9/10/2019-9/23/2019*	µg/L	**70,500**	**134**	*10.0 U*	*4.3 B*	**2,260**	**330,000**	**188,000**	**20.6**	**8.2 J**	**437,000**	**1,720**	**5.5 J**	**9.1 J**	**422**	**34,300**
12/3/2019-12/11/2019	µg/L	**77,500**	**378**	**22.7**	**15.2**	**2,640**	**368,000**	**112,000**	**38.6**	**6.7 J**	**11,900**	**49.7**	**38.7**	**5.4 J**	**261**	**35,000**
3/11/2020-3/23/2020*	µg/L	**70,800**	**105**	*10 U*	**4.2 J**	**5,300**	**301,000**	**213,000**	**5 J**	**3.5 J**	**2,570**	**9.7 J**	**6.1 J**	**3.6 J**	**303**	**33,900**
6/8/2020-6/30/2020*	µg/L	**71,900**	**2.7 J**	*10 U*	**4.2 J**	**2,710**	**268,000**	**217,000**	**2.7 J**	**3.4 J**	**5,720**	**21.5**	*10 U*	*10 U*	**1,360**	**31,200**
9/9/2020-9/29/2020*	µg/L	**56,600**	**9.4 J**	**22.3**	**22.7**	**22,600**	**298,000**	**253,000**	**6.4 J**	**16.4**	**2,780**	**182**	**5.8 J**	**4.2 J**	**22,100**	**44,400**
11/5/2020-11/19/2020*	µg/L	**50,200**	**3.3 J**	**3.7 J**	**3.3 J**	**6,190**	**325,000**	**145,000**	**5.9 J**	*10 U*	**9,930**	**52.1**	**11.9**	**3 J**	**156**	**39,000**
5/26/2021-6/18/2021*	µg/L	*NS*	*NS*	**3.0 J**	**20.1**	*NS*	*NS*	**169,000**	**2.8 J**	*NS*	*NS*	**6.1 J**	*10 U*	*10 U*	**21,900**	**32,800**
10/4/2021-10/18/2021*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**137,000**	**6.5 J**	*NS*	*NS*	**7.6 J**	**12.4 J**	**10 J**	**1,630**	**25,200**
11/29/2021-11/30/2021*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	*NS*	*NS*	*20 U*	*200 U*	*NS*	*NS*	**113,000**	*20 U*	*NS*	*NS*	**46.8**	*20 U*	*20 U*	**174**	**33,600**
9/9/2022-9/15/2022*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**197,000**	*10 U*	*NS*	*NS*	**628**	**5.07 J**	**38.2**	**8,214**	**24,250**
3/10/2023-4/10/2023*	µg/L	*NS*	*NS*	**10.4**	**12.6**	*NS*	*NS*	**138,800**	**3.47 J**	*NS*	*NS*	**284**	*0.2 U*	*10 U*	**4,432**	**20,160**
9/08/2023-9/21/2023*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**154,200**	**4.05 J**	*NS*	*NS*	**319**	**3.55 J**	*10 U*	**7,079**	**29,160**
3/19/2024-4/11/2024*	µg/L	*NS*	*NS*	*10 U*	**20.0**	*NS*	*NS*	**88,690**	**5.74 J**	*NS*	*NS*	**152**	**17.0**	*10 U*	**13,660**	**22,400**
9/10/2024-9/19/2024*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**196,900**	**539**	*NS*	*NS*	**184**	*10 U*	*10 U*	**12,150**	**19,130**
2/20/2025* (a)	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*10 U*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/18/2025-4/4/2025*	µg/L	*NS*	*NS*	**63.4**	**18.9**	*NS*	*NS*	**182,800**	**5.74 J**	*NS*	*NS*	**30.7**	**21.9 J**	**24.7 J**	**25,320**	**12,540**
9/4/2025 - 9/18/2025*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**220,400**	**19,010**	*NS*	*NS*	**3,456**	*10 U*	**19.31 J**	**3,134**	**9,442**
11/5/2025* (b)	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*10 U*	*NS*	*NS*	**1,215**	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2024, concentrations in RW23-MWS and RWH-MWS were considered anomalous and were re-sampled in Feb. 2025
(b) In 3Q 2025, concentrations in RW23-MWS, RWA-MWS, and RWK-MWS were considered anomalous and were re-sampled in Nov. 2025.
(c) Anomalous results are excluded from the related figures.
(d) The relevant surface water criterion for zinc is 81 micrograms per liter (µg/L).

TABLE 4
Shallow Zinc Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RWG-MWS	RWH-MWS	RWI-MWS	RWJ-MWS	RWK-MWS	RWL-MWS	RWM-MWS	RWN-MWS	RWO-MWS	RWQ-MWS	RWR-MWS	RWS-MWS
2025 Sampling Frequency		Not Sampled	Semiannually	Annually	Semiannually	Semiannually	Semiannually	Not Sampled	Annually	Semiannually	Semiannually	Semiannually	Semiannually
5/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
2/10/2017-2/14/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/28/2017-3/29/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/25/2017-4/27/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/5/2017-6/8/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/10/2017-7/12/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
8/7/2017-8/10/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
9/1/2017-9/8/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/2/2017-10/6/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/3/2017-11/13/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/4/2017-12/8/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
1/2/2018-1/9/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/8/2018-4/13/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/30/2018-8/3/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2018-10/5/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/10/2018-12/14/2018*	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/12/2019-3/19/2019*	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/3/2019-6/7/2019*	µg/L	*10 U*	**367**	**25,800**	*10 U*	**6,710**	**8,480**	**6 J**	**978,000**	**2,660**	**146**	**213,000**	**10,100**
9/10/2019-9/23/2019*	µg/L	*10.0 U*	**60,600**	**26,200**	**27**	**19,200**	**9,180**	**4.0 J**	**964,000**	**6,790**	**147**	**245,000**	**1,980**
12/3/2019-12/11/2019	µg/L	**194**	**2,600**	**32,400**	**8.3 J**	**20,600**	**15,500**	**11.6**	**943,000**	**3,720**	**182**	**320,000**	**2,970**
3/11/2020-3/23/2020*	µg/L	**2.9 J**	**19,300**	**1,510**	*10 U*	**16,400**	**861**	**4.8 J**	**1,170,000**	**6,220**	**194**	**344,000**	**19,100**
6/8/2020-6/30/2020*	µg/L	**9.8 J**	**48.9**	**211**	**4 J**	**10,400**	**16,100**	**21.8**	**884,000**	**11,100**	**149**	**327,000**	**954,000**
9/9/2020-9/29/2020*	µg/L	*10 U*	**5,330**	*NS*	**2.6 J**	**16,800**	**15,000**	**7.8 J**	**1,140,000**	**5,030**	**162**	**326,000**	**60,300**
11/5/2020-11/19/2020*	µg/L	*10 U*	**1,310**	*NS*	*10 U*	**18,100**	**14,200**	**10.6**	**709,000**	**2,750**	**152**	**293,000**	**7,260**
5/26/2021-6/18/2021*	µg/L	*NS*	**3,400**	*NS*	*10 U*	**22,200**	**16,000**	*NS*	**745,000**	**1,130**	**158**	**269,000**	**116,000**
10/4/2021-10/18/2021*	µg/L	*NS*	**6,670**	*NS*	**38.2**	**18,500**	**14,900**	*NS*	*NS*	**694**	**166**	**298,000**	**36,700**
11/29/2021-11/30/2021*	µg/L	*NS*	*NS*	**2.0 J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	*NS*	**3,270**	**24,300**	*20 U*	**22,300**	**12,500**	*NS*	**548,000**	**397**	**239**	**267,000**	**97,500**
9/9/2022-9/15/2022*	µg/L	*NS*	**2,468**	*NS*	*10 U*	**24,170**	**11,470**	*NS*	*NS*	**49.3**	**134**	**205,000**	**22,290**
3/10/2023-4/10/2023*	µg/L	*NS*	**5,340**	**17,540**	*10 U*	**24,920**	**19,240**	*NS*	**546,700**	*10 U*	**94.5**	**233,900**	**158,800**
9/08/2023-9/21/2023*	µg/L	*NS*	**17,390**	*NS*	**3.54 J**	**21,550**	**6,219**	*NS*	*NS*	*10 U*	**117**	**243,900**	**62,160**
3/19/2024-4/11/2024*	µg/L	*NS*	**8,314**	**82.6**	**19.8**	**18,610**	**3,047**	*NS*	**662,200**	*10 U*	**154**	**280,800**	**167,200**
9/10/2024-9/19/2024*	µg/L	*NS*	**153,900**	*NS*	*10 U*	**20,750**	**24,050**	*NS*	*NS*	*500 U*	**212**	**455,600**	**166,800**
2/20/2025* (a)	µg/L	*NS*	**9,659**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/18/2025-4/4/2025*	µg/L	*NS*	**5,368**	**4,444**	**37.3 J**	**19,640**	**19,160**	*NS*	**566,800**	**484**	**237**	**265,000**	**9,783**
9/4/2025 - 9/18/2025*	µg/L	*NS*	**19,910**	*NS*	**349**	*10 U*	**25,860**	*NS*	*NS*	**9,074**	**5,816**	**243,900**	**146,700**
11/5/2025* (b)	µg/L	*NS*	*NS*	*NS*	*NS*	**18,670**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2024, concentrations in RW23-MWS and RWH-MWS were considered anomalous and were re-sampled in Feb. 2025
(b) In 3Q 2025, concentrations in RW23-MWS, RWA-MWS, and RWK-MWS were considered anomalous and were re-sampled in Nov. 2025.
(c) Anomalous results are excluded from the related figures.
(d) The relevant surface water criterion for zinc is 81 micrograms per liter (µg/L).

TABLE 5
Shallow Cadmium Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RW01-MWS	RW01R-MWS	RW02-MWS	RW03-MWS	RW03R-MWS	RW04-MWS	RW05-MWS	RW05R-MWS	RW06R-MWS	RW07-MWS	RW08-MWS	RW09-MWS	RW11-MWS	RW12-MWS	RW14-MWS
2025 Sampling Frequency		Semiannually	Semiannually	Semiannually	NA	Semiannually	Not Sampled	Semiannually	Semiannually	Annually	Annually	Not Sampled	Not Sampled	Annually	Semiannually	Not Sampled
5/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**2.8**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**4.4**	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**3.2**	*DNE*
2/10/2017-2/14/2017	µg/L	*DNE*	*DNE*	*DNE*	**7.9**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	**1.8 J**	**3.8**	**22.3**	**0.78 J**	*NS*	*DNE*
3/28/2017-3/29/2017	µg/L	*DNE*	*DNE*	*DNE*	**4.7**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	**1.7 J**	**11.0**	**17.5**	**1.8 J**	*NS*	*DNE*
4/25/2017-4/27/2017	µg/L	*DNE*	*DNE*	*DNE*	**3.2**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	**1.4 J**	**7.8**	**16.6**	**5.3**	*NS*	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	*DNE*	**3.9**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	**1.9 J**	**3.2**	**14.9**	**1.8 J**	*NS*	*DNE*
6/5/2017-6/8/2017	µg/L	*DNE*	*DNE*	*DNE*	**4**	*DNE*	**0.7 J**	*DNE*	*DNE*	*DNE*	**2.3 J**	**1.7 J**	**13.9**	**0.94 J**	**29.7**	*DNE*
7/10/2017-7/12/2017	µg/L	*DNE*	*DNE*	*DNE*	**4.6**	*DNE*	**1.2 J**	*DNE*	*DNE*	*DNE*	**2.8 J**	**0.74 J**	**13.4**	**0.84 J**	**12.6**	*DNE*
8/7/2017-8/10/2017	µg/L	**1.6 J**	*DNE*	**12**	**5.1**	*DNE*	*3 U*	**4.9**	*DNE*	*DNE*	**3.1**	**2.7 J**	**12.5**	**1.3 J**	**7.0**	**1,780**
9/1/2017-9/8/2017	µg/L	**1.2 J**	*DNE*	**11.8**	**8.4**	*DNE*	**0.71 J**	**0.37 J**	*DNE*	*DNE*	**3.6**	**2.5 J**	**12.3**	**0.81 J**	**5.1**	**1,700**
10/2/2017-10/6/2017	µg/L	**1.7 J**	*DNE*	**9.1**	**11**	*DNE*	*3 U*	**1.2 J**	*DNE*	*DNE*	**3.2**	**0.96 J**	**10.6**	*3 U*	**11.3**	**1,750**
11/3/2017-11/13/2017	µg/L	**21.7**	*DNE*	**7.7**	**8.5**	*DNE*	**1.1 J**	*3 U*	*DNE*	*DNE*	**5.8**	*3 U*	**10.5**	**2.1 J**	**193**	**2,390**
12/4/2017-12/8/2017	µg/L	**98**	*DNE*	*3 U*	**11.4**	*DNE*	**1.1 J**	**8.4**	*DNE*	*DNE*	**6.0**	*3 U*	**9.2**	**2.9 J**	**4.2**	**2,820**
1/2/2018-1/9/2018	µg/L	**23.9**	*DNE*	**13.1**	**9.9**	*DNE*	*3 U*	*3 U*	*DNE*	*DNE*	**4.8**	*3 U*	**9.9**	**2.2 J**	**11.7**	**2,800**
4/8/2018-4/13/2018	µg/L	**7.6**	*DNE*	**16.7**	**11.8**	*DNE*	*3 U*	*3 U*	*DNE*	*DNE*	**4.6**	**2.2 J**	**9.8**	**4.1**	**11.0**	**3,220**
7/30/2018-8/3/2018	µg/L	**1.6 J**	*DNE*	**5.2**	**10.8**	*DNE*	*3 U*	*3 U*	*DNE*	*3 U*	**4.8**	*3 U*	**13.1**	**66.3**	**5.2**	**3,630**
10/1/2018-10/5/2018	µg/L	**0.97 J**	*DNE*	**3.4**	**8.7**	*DNE*	*3 U*	*3 U*	*DNE*	*3 U*	**4.7**	*3 U*	**22.3**	**1.2 J**	**2.3 J**	**3,840**
12/10/2018-12/14/2018*	µg/L	**1.8 J**	*DNE*	**9.0**	**24**	*DNE*	*3 U*	*3 U*	*DNE*	**0.56 J**	**4.1**	*3 U*	**9.30**	**0.81 J**	**15.30**	**3,730**
3/12/2019-3/19/2019*	µg/L	**2.3 J**	*DNE*	**3.8**	**7.7**	*DNE*	*3 U*	*3 U*	*DNE*	*3 U*	**2.7 J**	**2.0 J**	**10.20**	**2.2 J**	**6.60**	**2,960**
5/3/2019-6/7/2019*	µg/L	**4.7**	*DNE*	**1.7 J**	**17.9**	*DNE*	*3 U*	*3 U*	*DNE*	*3 U*	**2.9 J**	**0.86 J**	**12.00**	*1.1 B*	**2.1 J**	**3,000**
9/10/2019-9/23/2019*	µg/L	**4.3**	*DNE*	**1.1 J**	**16.3**	*DNE*	**0.55 J**	*3.0 U*	*DNE*	*3.0 U*	**3.4**	**0.39 J**	**16.7**	*3.0 U*	**3.2**	**3,450**
12/3/2019-12/11/2019	µg/L	*3.9 B*	*DNE*	*0.55 B*	**18.8**	*DNE*	**1.8 J**	*3.0 U*	*DNE*	*3.0 U*	**3.0 J**	*3.0 U*	**14.3**	**1.9 J**	**2.5 J**	**3,990**
3/11/2020-3/23/2020*	µg/L	**4.4**	*DNE*	**0.97 J**	**18.8**	*DNE*	**1.7 J**	**0.52 J**	*DNE*	*3 U*	**2.5 J**	**2.7 J**	**16.9**	**2.0 J**	*NS*	**3,020**
6/8/2020-6/30/2020*	µg/L	**1.6 J**	*DNE*	**0.61 J**	**14.5**	*DNE*	**0.99 J**	**0.53 J**	*DNE*	**0.98 J**	**4.5**	**0.67 J**	**15.2**	**2.5 J**	**5.2**	**3,590**
9/9/2020-9/29/2020*	µg/L	**1.3 J**	*DNE*	**0.43 J**	*NS*	*DNE*	**0.62 J**	*3 U*	*DNE*	**0.69 J**	*NS*	*3 U*	**17.0**	**2.2 J**	*NS*	**3,240**
11/5/2020-11/19/2020*	µg/L	**1.1 J**	*DNE*	**0.58 J**	*NS*	*DNE*	**0.38 J**	*3 U*	*DNE*	**0.9 J**	*NS*	**0.37 J**	**16.0**	**2.0 J**	*NS*	**3,020**
5/26/2021-6/18/2021*	µg/L	**0.40 J**	*DNE*	*3 U*	*NS*	*DNE*	*NS*	*3 U*	*DNE*	*3 U*	*NS*	*NS*	*NS*	**3.4**	*NS*	*NS*
10/4/2021-10/18/2021*	µg/L	*1 U*	*DNE*	*1 U*	*NS*	*DNE*	*NS*	*1 U*	*DNE*	*NS*	*NS*	*NS*	*NS*	*NS*	*1 U*	*NS*
11/29/2021-11/30/2021*	µg/L	*NS*	*DNE*	*NS*	*NS*	*DNE*	*NS*	*NS*	*DNE*	*NS*	**1.7**	*NS*	*NS*	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	*2 U*	*DNE*	*2 U*	*Destroyed*	*DNE*	*NS*	*2 U*	*DNE*	*2 U*	**16.6**	*NS*	*NS*	*2 U*	*2 U*	*NS*
9/9/2022-9/15/2022*	µg/L	**0.552**	*DNE*	**0.13 J**	*Destroyed*	*0.2 U*	*NS*	**0.12 J**	*DNE*	*NS*	*NS*	*NS*	*NS*	*NS*	**3.05**	*NS*
3/10/2023-4/10/2023*	µg/L	**0.537**	*DNE*	*0.2 U*	*Destroyed*	**0.18 J**	*NS*	**0.19 J**	*DNE*	*0.2 U*	**2.54**	*NS*	*NS*	**3.84**	**11.0**	*NS*
9/08/2023-9/21/2023*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	**0.14 J**	*NS*	*Destroyed*	*DNE*	*NS*	*NS*	*NS*	*NS*	*NS*	**8.66**	*NS*
3/19/2024-4/11/2024*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	**0.062 J**	*NS*	*Destroyed*	*DNE*	*0.2 U*	**4.38**	*NS*	*NS*	**0.088 J**	**5.97**	*NS*
9/10/2024-9/19/2024*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	*10 U*	*NS*	*Destroyed*	*DNE*	*NS*	*NS*	*NS*	*NS*	*NS*	**2.80**	*NS*
2/20/2025* (a)	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	*NS*	*NS*	*Destroyed*	*DNE*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/18/2025-4/4/2025*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	*0.2 U*	*NS*	*Destroyed*	*DNE*	*0.2 U*	**10.5**	*NS*	*NS*	**4.58**	**1.21 J**	*NS*
9/4/2025 - 9/18/2025*	µg/L	*Abandoned*	**1.92**	*Abandoned*	*Destroyed*	**6.44**	*NS*	*Destroyed*	**0.15 J**	*NS*	*NS*	*NS*	*NS*	*NS*	*0.2 U*	*NS*
11/5/2025* (b)	µg/L	*Abandoned*	*NS*	*Abandoned*	*Destroyed*	*NS*	*NS*	*Destroyed*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2024, concentrations in RW23-MWS and RWH-MWS were considered anomalous and were re-sampled in Feb. 2025
(b) In 3Q 2025, concentrations in RW23-MWS, RWA-MWS, and RWK-MWS were considered anomalous and were re-sampled in Nov. 2025.
(c) Anomalous results are excluded from the related figures.
(d) The relevant surface water criterion for cadmium is 7.9 micrograms per liter (µg/L).

TABLE 5
Shallow Cadmium Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RW15-MWS	RW16-MWS	RW18-MWS	RW19-MWS	RW21-MWS	RW22R-MWS	RW23-MWS	RW24-MWS	RW25-MWS	RWA-MWS	RWB-MWS	RWD-MWS	RWE-MWS	RWF-MWS	RWG-MWS
2025 Sampling Frequency		Not Sampled	Annually	Annually	Not Sampled	Not Sampled	Semiannually	Semiannually	Not Sampled	Not Sampled	Semiannually	Semiannually	Semiannually	Semiannually	Semiannually	Not Sampled
5/1/2015	µg/L	*DNE*	*DNE*	**168**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	**31.3**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
2/10/2017-2/14/2017	µg/L	*DNE*	*DNE*	*NS*	**14.8**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/28/2017-3/29/2017	µg/L	*DNE*	*DNE*	*NS*	**6.9**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/25/2017-4/27/2017	µg/L	*DNE*	*DNE*	*NS*	**8.5**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	*NS*	**3.6**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/5/2017-6/8/2017	µg/L	*DNE*	*DNE*	**356**	**2.4 J**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/10/2017-7/12/2017	µg/L	*DNE*	*DNE*	**240**	**9.7**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
8/7/2017-8/10/2017	µg/L	**12.2**	*NS*	**34.9**	**7.2**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
9/1/2017-9/8/2017	µg/L	**29.9**	*3 U*	**156**	**2.6 J**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/2/2017-10/6/2017	µg/L	**25.3**	*3 U*	**306**	**5.2**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/3/2017-11/13/2017	µg/L	**63**	*3 U*	**208**	**4.4**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/4/2017-12/8/2017	µg/L	**55**	*3 U*	**410**	**4.6**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
1/2/2018-1/9/2018	µg/L	**40.7**	*3 U*	**218**	**4.8**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/8/2018-4/13/2018	µg/L	**41.2**	*3 U*	**448**	**6.6**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/30/2018-8/3/2018	µg/L	**38.5**	*3 U*	**7.1**	**1.2 J**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2018-10/5/2018	µg/L	**78.1**	*3 U*	**1.2 J**	**3.6**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/10/2018-12/14/2018*	µg/L	**94.40**	*3 U*	**1.5 J**	*3 U*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/12/2019-3/19/2019*	µg/L	**15.40**	*3 U*	*3 U*	*3 U*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/3/2019-6/7/2019*	µg/L	**19.10**	*3 U*	*3 U*	*3 U*	**483**	**157**	*3 U*	*3 U*	**491**	**2.3 J**	*3 U*	*3 U*	**0.57 J**	**4.2**	*3 U*
9/10/2019-9/23/2019*	µg/L	**7.4**	*3.0 U*	*3.0 U*	*3.0 U*	**354**	**105**	**0.88 J**	*3.0 U*	**599**	**24**	*3.0 U*	*3.0 U*	**0.64 J**	**6.1**	*3.0 U*
12/3/2019-12/11/2019	µg/L	**8.5**	**0.36 J**	**1.9 J**	**1.2 J**	**433**	**70.4**	**1.3 J**	**0.43 J**	**9.9**	**4.4**	*3.0 U*	*3.0 U*	**2.0 J**	**7.3**	*3.0 U*
3/11/2020-3/23/2020*	µg/L	**4.3**	*3 U*	*3 U*	**0.66 J**	**378**	**62.9**	**0.52 J**	*3 U*	**2.7 J**	**0.6 J**	*3 U*	*3 U*	**0.91 J**	**7.7**	*3 U*
6/8/2020-6/30/2020*	µg/L	*3 U*	*3 U*	*3 U*	**0.77 J**	**322**	**51.4**	*3 U*	*3 U*	**4.6**	**0.88 J**	*3 U*	**0.46 J**	**1.4 J**	**5.7**	**0.63 J**
9/9/2020-9/29/2020*	µg/L	**0.51 J**	*3 U*	*3 U*	**4.3**	**294**	**52.1**	*3 U*	*3 U*	**7.0**	**2.9 J**	*3 U*	**0.46 J**	**8.7**	**6.0**	*3 U*
11/5/2020-11/19/2020*	µg/L	*3 U*	*3 U*	*3 U*	**1.3 J**	**367**	**30.7**	*3 U*	*3 U*	**8.6**	**1.5 J**	*3 U*	*3 U*	**0.44 J**	**4.6**	*3 U*
5/26/2021-6/18/2021*	µg/L	*NS*	*3 U*	*3 U*	*NS*	*NS*	**78.5**	*3 U*	*NS*	*NS*	**0.48 J**	*3 U*	*3 U*	**10.9**	**4.0**	*NS*
10/4/2021-10/18/2021*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	**117**	*1 U*	*NS*	*NS*	*1 U*	*1 U*	*1 U*	**0.55 J**	**3.4**	*NS*
11/29/2021-11/30/2021*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	*NS*	*2 U*	*2 U*	*NS*	*NS*	**29.4**	*2 U*	*NS*	*NS*	*2 U*	*2 U*	*2 U*	*2 U*	**4.9**	*NS*
9/9/2022-9/15/2022*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	**56.9**	**0.137**	*NS*	*NS*	**3.94**	*0.2 U*	**0.814**	**3.58**	**2.55**	*NS*
3/10/2023-4/10/2023*	µg/L	*NS*	*0.2 U*	*0.2 U*	*NS*	*NS*	**22.0**	**0.097 J**	*NS*	*NS*	**5.86**	*0.2 U*	*0.2 U*	**2.85**	**2.17**	*NS*
9/08/2023-9/21/2023*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	**24.1**	**0.12 J**	*NS*	*NS*	**4.39**	*0.2 U*	*0.2 U*	**2.06**	**1.51**	*NS*
3/19/2024-4/11/2024*	µg/L	*NS*	**0.066 J**	**0.382**	*NS*	*NS*	**28.1**	*0.2 U*	*NS*	*NS*	**1.78**	**0.409**	*0.2 U*	**5.26**	**1.02**	*NS*
9/10/2024-9/19/2024*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	**26.7**	**8.46**	*NS*	*NS*	**2.19**	*0.2 U*	*0.2 U*	**3.18**	**0.680**	*NS*
2/20/2025* (a)	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**0.0766 J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/18/2025-4/4/2025*	µg/L	*NS*	*1 U*	*0.2 U*	*NS*	*NS*	**23.1**	*0.2 U*	*NS*	*NS*	**1.81**	*1 U*	*1 U*	**5.55**	**0.862**	*NS*
9/4/2025 - 9/18/2025*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	**34.5**	**414**	*NS*	*NS*	**52.8**	*0.2 U*	*1 U*	**2.94**	**62.7**	*NS*
11/5/2025* (b)	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**0.07 J**	*NS*	*NS*	**23.6**	*NS*	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2024, concentrations in RW23-MWS and RWH-MWS were considered anomalous and were re-sampled in Feb. 2025
(b) In 3Q 2025, concentrations in RW23-MWS, RWA-MWS, and RWK-MWS were considered anomalous and were re-sampled in Nov. 2025.
(c) Anomalous results are excluded from the related figures.
(d) The relevant surface water criterion for cadmium is 7.9 micrograms per liter (µg/L).

TABLE 5
Shallow Cadmium Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RWH-MWS	RWI-MWS	RWJ-MWS	RWK-MWS	RWL-MWS	RWM-MWS	RWN-MWS	RWO-MWS	RWQ-MWS	RWR-MWS	RWS-MWS
2025 Sampling Frequency		Semiannually	Annually	Semiannually	Semiannually	Semiannually	Not Sampled	Annually	Semiannually	Semiannually	Semiannually	Semiannually
5/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
2/10/2017-2/14/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/28/2017-3/29/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/25/2017-4/27/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/5/2017-6/8/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/10/2017-7/12/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
8/7/2017-8/10/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
9/1/2017-9/8/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/2/2017-10/6/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/3/2017-11/13/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/4/2017-12/8/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
1/2/2018-1/9/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/8/2018-4/13/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/30/2018-8/3/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2018-10/5/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/10/2018-12/14/2018*	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/12/2019-3/19/2019*	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/3/2019-6/7/2019*	µg/L	**20**	**714**	*3 U*	*3 U*	*3 U*	*3 U*	**13,000**	**1.4 J**	**2.6 J**	**50**	*3 U*
9/10/2019-9/23/2019*	µg/L	**856**	**840**	*3.0 U*	*3.0 U*	*3.0 U*	*3.0 U*	**11,100**	**1.3 J**	**2.6 J**	**41**	*3.0 U*
12/3/2019-12/11/2019	µg/L	**19.9**	**1,080**	*3.0 U*	*3.0 U*	*3.0 U*	**0.36 J**	**11,200**	**7.6**	**4.4**	**42.3**	*3.0 U*
3/11/2020-3/23/2020*	µg/L	**163**	**125**	*3 U*	*3 U*	**0.85 J**	*3 U*	**9,420**	**0.65 J**	**3.1**	**38.8**	*3 U*
6/8/2020-6/30/2020*	µg/L	**0.97 J**	**17.5**	*3 U*	*3 U*	**0.52 J**	*3 U*	**6,810**	**0.46 J**	**2.9 J**	**35.5**	**1.9 J**
9/9/2020-9/29/2020*	µg/L	**22.4**	*NS*	*3 U*	**0.51 J**	**0.59 J**	*3 U*	**7,350**	**4.1**	**3.3**	**34.3**	**0.42 J**
11/5/2020-11/19/2020*	µg/L	**7.0**	*NS*	*3 U*	**0.37 J**	*3 U*	*3 U*	**6,260**	**0.53 J**	**3.2**	**33.8**	**0.39 J**
5/26/2021-6/18/2021*	µg/L	**9.9**	*NS*	*3 U*	*3 U*	*3 U*	*NS*	**4,850**	**0.85 J**	**3.4**	**35.1**	*3 U*
10/4/2021-10/18/2021*	µg/L	**6.8**	*NS*	**0.22 J**	*1 U*	**0.37 J**	*NS*	*NS*	*1 U*	**3.1**	**39.3**	*10 U*
11/29/2021-11/30/2021*	µg/L	*NS*	**0.76 J**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	**7.0**	**1,010**	*2 U*	*2 U*	*2 U*	*NS*	**2,260**	*2 U*	**3.3**	**28.8**	*2 U*
9/9/2022-9/15/2022*	µg/L	**26.3**	*NS*	*0.2 U*	*0.2 U*	**0.141**	*NS*	*NS*	**0.0752**	**2.69**	**23.5**	**0.230**
3/10/2023-4/10/2023*	µg/L	**5.37**	**596**	*0.2 U*	*0.2 U*	**0.072 J**	*NS*	**2,517**	*0.2 U*	**10.5**	**19.3**	**0.68**
9/08/2023-9/21/2023*	µg/L	**173**	*NS*	*0.2 U*	**0.11 J**	*0.2 U*	*NS*	*NS*	*0.2 U*	**2.04**	**20.3**	**0.17**
3/19/2024-4/11/2024*	µg/L	**11.5**	**8.83**	*0.2 U*	**0.284**	**4.63**	*NS*	**2,350**	*0.2 U*	**2.62**	**15.3**	**1.03**
9/10/2024-9/19/2024*	µg/L	**2,316**	*NS*	*0.2 U*	**0.306**	**1.45**	*NS*	*NS*	*10 U*	**3.01**	**36.2**	**1.43**
2/20/2025* (a)	µg/L	**189**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/18/2025-4/4/2025*	µg/L	**58.0**	**289**	**0.62 J**	**2.74**	**1.15**	*NS*	**2,145**	*2 U*	**2.49**	**18.4**	*2 U*
9/4/2025 - 9/18/2025*	µg/L	**229**	*NS*	**3.37**	*0.2 U*	**58.4**	*NS*	*NS*	**1.18**	**2.33**	**18.4**	**0.19 J**
11/5/2025* (b)	µg/L	*NS*	*NS*	*NS*	**0.681**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2024, concentrations in RW23-MWS and RWH-MWS were considered anomalous and were re-sampled in Feb. 2025
(b) In 3Q 2025, concentrations in RW23-MWS, RWA-MWS, and RWK-MWS were considered anomalous and were re-sampled in Nov. 2025.
(c) Anomalous results are excluded from the related figures.
(d) The relevant surface water criterion for cadmium is 7.9 micrograms per liter (µg/L).

TABLE 6
2025 Shallow Field Parameter Data
Rod and Wire Mill Interim Measure Progress Report

		RW01R-MWS		RW03R-MWS		RW05R-MWS		RW06R-MWS		RW07-MWS		RW11-MWS		RW12-MWS		RW16-MWS	
Parameters	**Units**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**
pH	s.u.	DNE	5.79	12.09	11.49	DNE	9.11	9.29	NS	6.82	NS	5.29	NS	7.07	6.84	10.91	NS
Specific Conductance	ms/cm	DNE	1.76	1.39	2.74	DNE	2.8	5.02	NS	5.83	NS	4.25	NS	5.01	2.63	10.9	NS
Dissolved Oxygen	mg/L	DNE	2.45	0.83	1.97	DNE	1.82	3.96	NS	2.37	NS	0.31	NS	0.35	2.37	4.78	NS
ORP	mV	DNE	93	-79	-169	DNE	-25	142	NS	251	NS	117	NS	-68	-72	-143	NS
Turbidity	NTU	DNE	184	106	0.6	DNE	67.0	183	NS	47.1	NS	32.1	NS	28.1	13.0	24	NS
Depth To Water	ft	DNE	13.73	11.5	11.96	DNE	12.28	7.65	10.79	10.23	10.93	8.88	9.09	9.11	9.48	8.72	10.52

		RW18-MWS		RW22R-MWS		RW23-MWS			RWA-MWS			RWB-MWS		RWD-MWS		RWE-MWS	
Parameters	**Units**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Nov-25**	**Mar-25**	**Sep-25**	**Nov-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**
pH	s.u.	7.97	NS	5.62	4.88	NS	7.00	6.79	7.62	7.57	7.78	6.79	7.88	6.2	6.38	6.79	5.95
Specific Conductance	ms/cm	13.9	NS	2.83	2.76	NS	0.452	0.490	2.14	2.56	3.05	0.715	0.751	1.81	2.01	3.27	1.12
Dissolved Oxygen	mg/L	6.67	NS	0.0	2.08	NS	1.91	2.84	0.53	1.86	3.01	0.0	2.12	0.0	2.62	0.0	1.54
ORP	mV	-123	NS	26	155	NS	-44	85	-73	-110	-112	-173	-81	-27	-55	-11	39
Turbidity	NTU	125	NS	38.4	2.0	NS	0.02	4.9	1.10	1.2	3.4	14.5	1.3	3.6	2.7	187	4.9
Depth To Water	ft	8.97	8.9	15.62	15.23	NS	9.86	9.90	9.71	9.38	9.50	18.52	18.81	12.73	13.12	12.50	12.61

		RWF-MWS		RWG-MWS		RWH-MWS		RWI-MWS		RWJ-MWS		RWK-MWS			RWL-MWS	
Parameters	**Units**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Nov-25**	**Mar-25**	**Sep-25**
pH	s.u.	4.76	4.90	NS	NS	6.89	6.52	7.68	NS	13.89	13.24	6.15	12.19	6.11	6.22	5.45
Specific Conductance	ms/cm	3.38	3.37	NS	NS	0.87	1.37	3.7	NS	12.3	4.48	1.76	4.70	2.17	0.799	1.08
Dissolved Oxygen	mg/L	0.0	2.16	NS	NS	6.77	2.19	0.0	NS	0.0	1.77	0.0	2.36	2.86	0.0	2.07
ORP	mV	242	146	NS	NS	-113	-35	-118	NS	-187	-138	-7.0	-128	42	10	76
Turbidity	NTU	15.5	15.9	NS	NS	7.3	3.7	69.8	NS	32.5	42.3	14.5	20.8	55	36.1	3.1
Depth To Water	ft	12.00	11.37	NS	NS	10.12	10.25	9.19	12.69	10.50	10.6	10.98	11.06	11.43	10.93	10.99

		RWN-MWS		RWO-MWS		RWQ-MWS		RWR-MWS		RWS-MWS	
RWG-MWS	**Units**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**
pH	s.u.	6.09	NS	6.83	7.40	6.84	6.87	5.09	5.31	6.55	6.53
Specific Conductance	ms/cm	2.98	NS	1.09	0.940	0.506	0.546	2.5	2.54	1.56	1.76
Dissolved Oxygen	mg/L	6.33	NS	0.0	1.78	0.0	2.69	7.69	2.27	0.0	2.06
ORP	mV	59	NS	-288	-260	27	-25	107	44	-77	-48
Turbidity	NTU	7.5	NS	8.6	13.2	2.9	11.2	3.6	75.1	2.2	43.5
Depth To Water	ft	11.66	10.74	10.24	10.24	11.42	12.17	10.26	10.3	10.65	11.05

NS = Not Sampled
DNE = Did Not Exist

TABLE 7
Intermediate Zinc Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RW01-MWI	RW01R-MWI	RW02-MWI	RW03-MWI	RW03R-MWI	RW05-MWI	RW05R-MWI	RW06-MWI	RW07-MWI	RW08-MWI	RW09-MWI	RW10-MWI	RW11-MWI	RW12-MWI	RW13-MWI
2025 Sampling Frequency		Semiannually	Semiannually	Semiannually	NA	Semiannually	NA	Semiannually	Semiannually	Semiannually	Annually	Annually	Annually	Annually	Semiannually	Annually
4/1/2013	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**136**	*DNE*	**2,970**	*DNE*	*DNE*	*DNE*	*DNE*	**249,000**	**263,000**	*DNE*
10/1/2013	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**247**	*DNE*	**4,720**	*DNE*	*DNE*	*DNE*	*DNE*	**284,000**	**201,000**	*DNE*
6/1/2014	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**2,180**	*DNE*	**5,480**	*DNE*	*DNE*	*DNE*	*DNE*	**229,000**	**296,000**	*DNE*
11/1/2014	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**592**	*DNE*	**7,660**	*DNE*	*DNE*	*DNE*	*DNE*	**250,000**	**295,000**	*DNE*
5/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**1,300**	*DNE*	**5,090**	*DNE*	*DNE*	*DNE*	*DNE*	**1,120,000**	**291,000**	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*NS*	*DNE*	**7,000**	*DNE*	*DNE*	*DNE*	*DNE*	*NS*	**387,000**	*DNE*
2/10/2017-2/16/2017	µg/L	*DNE*	*DNE*	*DNE*	**9,740**	*DNE*	*NS*	*DNE*	**1,900**	**944**	**178**	**51,000**	**104,000**	**368,000**	**249,000**	*DNE*
3/27/2017-3/30/2017	µg/L	*DNE*	*DNE*	*DNE*	**9,240**	*DNE*	*NS*	*DNE*	**1,680**	**1,210**	**44.6**	**51,900**	**20.4**	**301,000**	**216,000**	*DNE*
4/25/2017-4/28/2017	µg/L	*DNE*	*DNE*	*DNE*	**7,830**	*DNE*	*NS*	*DNE*	**1,420**	**364**	**85**	**57,500**	**75,800**	**288,000**	**188,000**	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	*DNE*	**2,960**	*DNE*	*NS*	*DNE*	**999**	**298**	**188**	**57,200**	**1,150**	**336,000**	**232,000**	*DNE*
6/5/2017-6/9/2017	µg/L	*DNE*	*DNE*	*DNE*	**2,440**	*DNE*	**374**	*DNE*	**876**	**432**	**71.9**	**51,900**	**34,600**	**201,000**	**226,000**	*DNE*
7/10/2017-7/13/2017	µg/L	*DNE*	*DNE*	*DNE*	**8,330**	*DNE*	**1,730**	*DNE*	**1,690**	**45.7**	**153**	**65,600**	**25,900**	**192,000**	**219,000**	*DNE*
8/7/2017-8/10/2017	µg/L	**11,600**	*DNE*	**18,200**	**10,900**	*DNE*	**1,730**	*DNE*	**1,340**	**62.7**	**49.8**	**55,500**	**79.7**	**147,000**	**156,000**	**308,000**
9/1/2017-9/8/2017	µg/L	**90**	*DNE*	**203**	**9,340**	*DNE*	**328**	*DNE*	**508**	**2,840**	**69.4**	**39,400**	**8,220**	**134,000**	**156,000**	**1,160**
10/2/2017-10/9/2017	µg/L	**13,700**	*DNE*	**290**	**1,810**	*DNE*	**349**	*DNE*	**615**	**23.4**	**16.9**	**49,700**	**31,000**	**111,000**	**150,000**	**204,000**
11/3/2017-11/13/2017	µg/L	**29**	*DNE*	**38.6**	**1,750**	*DNE*	**502**	*DNE*	**909**	**1,650**	**21.5**	**67,900**	**39,000**	**207,000**	**140,000**	**172,000**
12/4/2017-12/8/2017	µg/L	**41,000**	*DNE*	**186**	**6,270**	*DNE*	**205**	*DNE*	**1,360**	**39.8**	**21.4**	**44,500**	**158**	**197,000**	**157,000**	**237**
1/2/2018-1/9/2018	µg/L	**104**	*DNE*	**573**	**12,700**	*DNE*	**173**	*DNE*	**1,950**	**70.6**	**108**	**54,700**	**26.5**	**225,000**	**117,000**	**8,600**
4/8/2018-4/13/2018	µg/L	**576**	*DNE*	**452**	**6,920**	*DNE*	**402**	*DNE*	**27,900**	**756**	**1,050**	**38,400**	**13,500**	**215,000**	**103,000**	**201,000**
7/30/2018-8/3/2018	µg/L	**9,710**	*DNE*	**5,030**	**9,710**	*DNE*	**282**	*DNE*	**191**	**26,300**	**2,540**	**54,700**	**17,600**	**15,700**	**2,410**	**274,000**
10/1/2018-10/5/2018	µg/L	**143**	*DNE*	**3,240**	**13,000**	*DNE*	**110**	*DNE*	**90,100**	**12,200**	**256**	**53,800**	**16,600**	**174,000**	**14,300**	**33.4**
12/10/2018-12/14/2018*	µg/L	**3,880**	*DNE*	**25,300**	**14,900**	*DNE*	**177**	*DNE*	**99,600**	**86,000**	**11**	**66,600**	**2,520**	**176,000**	**109,000**	**116**
3/12/2019-3/19/2019*	µg/L	**2,460**	*DNE*	**21,500**	**6,720**	*DNE*	**7.5 J**	*DNE*	**122,000**	**24,200**	*10 U*	**57,500**	**591**	**142,000**	**110,000**	**328,000**
5/3/2019-6/7/2019*	µg/L	**5,670**	*DNE*	**56,600**	**13,300**	*DNE*	*Abandoned*	**66,800**	**108,000**	**136,000**	*10 U*	**64,200**	**5,560**	**121,000**	**111,000**	**97.7**
9/10/2019-9/23/2019*	µg/L	**5,940**	*DNE*	**72,000**	**10,500**	*DNE*	*Abandoned*	**71,700**	**122,000**	**48,300**	*11.2 B*	**53,300**	**7,730**	**120,000**	**104,000**	**122**
12/3/2019-12/11/2019	µg/L	**2,060**	*DNE*	**17,200**	**16,200**	*DNE*	*Abandoned*	**83,400**	**116,000**	**16,600**	**48.9**	**82,000**	**6,020**	**173,000**	**43,500**	**246,000**
3/11/2020-3/23/2020*	µg/L	**8,120**	*DNE*	**14,100**	**12,900**	*DNE*	*Abandoned*	**70,700**	**117,000**	**39,000**	**33.4**	**65,600**	*NS*	**151,000**	*NS*	**250,000**
6/8/2020-6/30/2020*	µg/L	**13,700**	*DNE*	**34,900**	**19,400**	*DNE*	*Abandoned*	**76,600**	**94,400**	**400**	**4.5 J**	**77,800**	**940**	**128,000**	**86,400**	**27**
9/9/2020-9/29/2020*	µg/L	**3.7 J**	*DNE*	**123**	*Destroyed*	*DNE*	*Abandoned*	**80,000**	**111,000**	*NS*	**5.4 J**	**79,100**	**1,090**	*NS*	*NS*	**296,000**
11/5/2020-11/19/2020*	µg/L	**15,200**	*DNE*	**20,200**	*Destroyed*	*DNE*	*Abandoned*	**68,200**	**79.7**	*NS*	**28.3**	**73,700**	**550**	**166,000**	*NS*	**19.8**
5/26/2021-6/18/2021*	µg/L	**26,600**	*DNE*	**104**	*Destroyed*	*DNE*	*Abandoned*	**79,000**	**109,000**	*NS*	**2.6 J**	**93,600**	**6,130**	**188,000**	*NS*	**363,000**
10/4/2021-10/18/2021*	µg/L	**24,000**	*DNE*	**433**	*Destroyed*	*DNE*	*Abandoned*	*200 U*	**85,500**	**53,900**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/29/2021-11/30/2021*	µg/L	*NS*	*DNE*	*NS*	*Destroyed*	*DNE*	*Abandoned*	**50,700**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	**37,300**	*DNE*	**751**	*Destroyed*	*DNE*	*Abandoned*	**55,200**	*200 U*	**65,300**	*20 U*	**63,000**	**7,440**	**141,000**	**81,000**	**435,000**
9/9/2022-9/15/2022*	µg/L	**29,010**	*DNE*	**8,598**	*Destroyed*	**3,063**	*Abandoned*	**60,560**	**97,570**	**47,770**	*NS*	*NS*	*NS*	*NS*	**99,550**	*NS*
3/10/2023-4/10/2023*	µg/L	**30,440**	*DNE*	**41,190**	*Destroyed*	**11,250**	*Abandoned*	**53,290**	**51,260**	**307**	*10 U*	**78,950**	**103**	**101,800**	**28,220**	**479,900**
9/08/2023-9/21/2023*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	**16,920**	*Abandoned*	**63,410**	*Abandoned*	**50,180**	*NS*	*NS*	*NS*	*NS*	**78,100**	*NS*
3/19/2024-4/11/2024*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	**196**	*Abandoned*	**60,490**	*Abandoned*	**500**	**62,090**	**57,500**	**43.2**	**264**	**1,418**	**540,700**
9/10/2024-9/19/2024*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	*500 U*	*Abandoned*	**81,220**	*Abandoned*	**8,125**	*NS*	*NS*	*NS*	*NS*	**87,040**	*NS*
3/18/2025-4/4/2025*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	**590**	*Abandoned*	**85,210**	*Abandoned*	**61,380**	**449**	**14.6**	**5,807**	**76,880**	**3,448**	**68.6**
9/4/2025 - 9/19/2025*	µg/L	*Abandoned*	**1,652**	*Abandoned*	*Destroyed*	**1,324**	*Abandoned*	**96,940**	*Abandoned*	**90,440**	*NS*	*NS*	*NS*	*NS*	**1,838**	*NS*
11/5/2025* (a)	µg/L	*Abandoned*	*NS*	*Abandoned*	*Destroyed*	*NS*	*Abandoned*	*NS*	*Abandoned*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2025, concentrations in RWK-MWI were considered anomalous; it was re-sampled in Nov. 2025. Anomalous results are excluded from the related figures.
(b) The relevant surface water criterion for zinc is 81 micrograms per liter (µg/L).

TABLE 7
Intermediate Zinc Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RW15-MWI	RW16-MWI	RW18-MWI	RW19-MWI	RW21-MWI	RW22-MWI	RW22R-MWI	RW23-MWI	RW24-MWI	RW25-MWI	RWA-MWI	RWB-MWI	RWD-MWI	RWE-MWI	RWF-MWI
2025 Sampling Frequency		Annually	Annually	Annually	Annually	Annually	NA	Semiannually	Semiannually	Annually	Annually	Semiannually	Semiannually	Semiannually	Semiannually	Semiannually
4/1/2013	µg/L	*DNE*	*DNE*	**996,000**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2013	µg/L	*DNE*	*DNE*	**85,400**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/1/2014	µg/L	*DNE*	*DNE*	**2,220,000**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2014	µg/L	*DNE*	*DNE*	**1,890,000**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/1/2015	µg/L	*DNE*	*DNE*	**708,000**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	**576,000**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
2/10/2017-2/16/2017	µg/L	*DNE*	*DNE*	**728,000**	**5,900,000**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/27/2017-3/30/2017	µg/L	*DNE*	*DNE*	**592,000**	**4,650,000**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/25/2017-4/28/2017	µg/L	*DNE*	*DNE*	**633,000**	**7,010,000**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	**246,000**	**5,370,000**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/5/2017-6/9/2017	µg/L	*DNE*	*DNE*	**694,000**	**6,720,000**	*DNE*	**303**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/10/2017-7/13/2017	µg/L	*DNE*	*DNE*	**575,000**	**5,330,000**	*DNE*	**103**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
8/7/2017-8/10/2017	µg/L	**3,210**	*DNE*	**290,000**	**3,360,000**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
9/1/2017-9/8/2017	µg/L	**71.1**	**20,200**	**382,000**	**2,500,000**	*DNE*	**43,000**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/2/2017-10/9/2017	µg/L	**295**	**2,000**	**393,000**	**3,670,000**	*DNE*	**16,100**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/3/2017-11/13/2017	µg/L	**825**	**441**	**323,000**	**3,400,000**	*DNE*	**3,700**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/4/2017-12/8/2017	µg/L	**1,070**	**19,200**	**369,000**	**3,970,000**	*DNE*	**19,500**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
1/2/2018-1/9/2018	µg/L	**5,540**	**16,200**	**370,000**	**3,840,000**	*DNE*	**27,200**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/8/2018-4/13/2018	µg/L	**252**	**11,200**	**396,000**	**4,190,000**	*DNE*	**44,700**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/30/2018-8/3/2018	µg/L	**18,600**	**1,230**	**330,000**	**4,880,000**	*DNE*	**73,300**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2018-10/5/2018	µg/L	**736**	**320**	**247,000**	**5,880,000**	*DNE*	**47,100**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/10/2018-12/14/2018*	µg/L	**6,540**	**6.0 J**	**318,000**	**7,580,000**	*DNE*	**68,100**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/12/2019-3/19/2019*	µg/L	**109,000**	**4.7 J**	**822,000**	**3,770,000**	*DNE*	**81,100**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/3/2019-6/7/2019*	µg/L	**16,400**	**4.9 J**	**279,000**	**7,280,000**	**624,000**	*NS*	**1,030**	**109,000**	**650,000**	**413,000**	**375,000**	**18**	**36,200**	**112,000**	**41,900**
9/10/2019-9/23/2019*	µg/L	**168,000**	**13.1**	**640,000**	**3,460,000**	**570,000**	*NS*	**983**	**125,000**	**635,000**	**7,000**	**349,000**	**29.2**	**41,900**	**109,000**	**42,300**
12/3/2019-12/11/2019	µg/L	**179,000**	**22.7**	**849,000**	**5,690,000**	**539,000**	*NS*	**3,000**	**111,000**	**538,000**	**462,000**	**396,000**	**47.8**	**52,600**	**118,000**	**58,800**
3/11/2020-3/23/2020*	µg/L	**17.9**	**16.2**	**545,000**	**6,050,000**	**648,000**	*Abandoned*	**1,810**	**100,000**	**466,000**	**355,000**	**521,000**	**8.9 J**	**50,400**	**102,000**	**90,400**
6/8/2020-6/30/2020*	µg/L	**5.8 J**	**7.3 J**	**252,000**	**6,450,000**	**470,000**	*Abandoned*	**4,350**	**116,000**	**378,000**	**443,000**	**441,000**	**8.4 J**	**59,300**	**114,000**	**108,000**
9/9/2020-9/29/2020*	µg/L	**3,210**	**63.1**	**753,000**	**6,220,000**	**536,000**	*Abandoned*	**5,340**	**105,000**	**364,000**	**477,000**	**452,000**	**15.2**	**69,300**	**110,000**	**134,000**
11/5/2020-11/19/2020*	µg/L	**137**	**10.2**	**534,000**	**3,930,000**	**562,000**	*Abandoned*	**4,520**	**95,600**	**258,000**	**445,000**	**406,000**	**13.5**	**64,200**	**80,800**	**110,000**
5/26/2021-6/18/2021*	µg/L	**16,400**	**62.4**	**4,380**	**212,000**	**527,000**	*Abandoned*	**7,730**	**124,000**	**292,000**	**338,000**	**468,000**	**13.6**	**81,900**	**102,000**	**133,000**
10/4/2021-10/18/2021*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	**9,800**	**110,000**	*NS*	*NS*	**328,000**	**19.1 J**	**53,400**	**68,000**	**82,500**
11/29/2021-11/30/2021*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	**49,300**	**120**	**434,000**	**3,090,000**	**5,070,000**	*Abandoned*	**21,700**	**85,000**	**263,000**	**376,000**	**415,000**	**16.7**	**47,200**	**62,700**	**86,800**
9/9/2022-9/15/2022*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	**38,920**	**1,113,200**	*NS*	*NS*	**340,500**	**18.9**	**49,020**	**58,890**	**89,070**
3/10/2023-4/10/2023*	µg/L	**100,800**	*10 U*	**406,100**	**9.94**	**445,600**	*Abandoned*	**68,800**	**114,900**	**294,700**	**419,800**	**309,600**	**17.1**	**46,840**	**53,380**	**70,650**
9/08/2023-9/21/2023*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	**87,920**	**135,500**	*NS*	*NS*	**341,900**	**19.3**	**47,480**	**61,680**	**72,380**
3/19/2024-4/11/2024*	µg/L	**31.5**	*10 U*	**252,600**	**4,833,000**	**348,100**	*Abandoned*	**82,310**	**139,800**	*NS*	*NS*	**379,700**	**20.3**	**73,990**	**67,550**	**58,150**
9/10/2024-9/19/2024*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	**109,100**	**144,200**	**651,300**	**773,300**	**337,700**	**14.6**	**93,910**	**70,970**	**71,140**
3/18/2025-4/4/2025*	µg/L	**37.5**	*25 U*	**557,300**	**6,198,000**	**317,200**	*Abandoned*	**107,500**	**167,800**	**254,800**	**433,600**	**287,500**	**17.8**	**103,800**	**65,980**	**73,600**
9/4/2025 - 9/19/2025*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	**96,900**	**147,700**	*NS*	*NS*	**296,200**	**18.9**	**101,900**	**62,490**	**74,290**
11/5/2025* (a)	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2025, concentrations in RWK-MWI were considered anomalous; it was re-sampled in Nov. 2025. Anomalous results are excluded from the related figures.
(b) The relevant surface water criterion for zinc is 81 micrograms per liter (µg/L).

TABLE 7
Intermediate Zinc Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RWG-MWI	RWH-MWI	RWI-MWI	RWJ-MWI	RWK-MWI	RWL-MWI	RWM-MWI	RWO-MWI	RWP-MWI	RWQ-MWI	RWR-MWI	RWS-MWI
2025 Sampling Frequency		Annually	Semiannually	Annually	Semiannually	Semiannually	Semiannually	Annually	Semiannually	Semiannually	Semiannually	Semiannually	Semiannually
4/1/2013	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2013	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/1/2014	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2014	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
2/10/2017-2/16/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/27/2017-3/30/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/25/2017-4/28/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/5/2017-6/9/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/10/2017-7/13/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
8/7/2017-8/10/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
9/1/2017-9/8/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/2/2017-10/9/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/3/2017-11/13/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/4/2017-12/8/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
1/2/2018-1/9/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/8/2018-4/13/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/30/2018-8/3/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2018-10/5/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/10/2018-12/14/2018*	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/12/2019-3/19/2019*	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/3/2019-6/7/2019*	µg/L	**332**	**226,000**	**632,000**	**1,580**	**21,100**	**169,000**	**162,000**	**249,000**	**3,210,000**	**357,000**	**2,560,000**	**797,000**
9/10/2019-9/23/2019*	µg/L	**291**	**378,000**	**519,000**	**2,150**	**25,100**	**142,000**	**159,000**	**214,000**	**3,570,000**	**270,000**	**3,620,000**	**1,040,000**
12/3/2019-12/11/2019	µg/L	**362**	**502,000**	**554,000**	**3,140**	**21,600**	**124,000**	**152,000**	**204,000**	**3,880,000**	**258,000**	**4,050,000**	**946,000**
3/11/2020-3/23/2020*	µg/L	**411**	**406,000**	**875,000**	**3,430**	**30,300**	**121,000**	**139,000**	**202,000**	**3,860,000**	**312,000**	**814,000**	**1,070,000**
6/8/2020-6/30/2020*	µg/L	**465**	**474,000**	**775,000**	**805**	**21,400**	**96,300**	**128,000**	**223,000**	**3,160,000**	**255,000**	**2,530,000**	**74,300**
9/9/2020-9/29/2020*	µg/L	**545**	**477,000**	*NS*	**744**	**36,800**	**116,000**	**138,000**	**204,000**	**3,810,000**	**280,000**	**1,830,000**	**760,000**
11/5/2020-11/19/2020*	µg/L	**522**	**618,000**	*NS*	**1,060**	**26,500**	**126,000**	**125,000**	**155,000**	**3,520,000**	**257,000**	**996,000**	**919,000**
5/26/2021-6/18/2021*	µg/L	*NS*	**578,000**	**542,000**	**1,990**	**34,600**	**110,000**	**150,000**	**208,000**	**3,990,000**	**286,000**	**1,400,000**	**858,000**
10/4/2021-10/18/2021*	µg/L	*NS*	**388,000**	*NS*	**2,840**	**23,700**	**97,000**	*NS*	*200 U*	**14,300**	**256,000**	**48,000**	**649,000**
11/29/2021-11/30/2021*	µg/L	**319**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**1,380**	**526**	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	**1,090**	**287,000**	**424,000**	**6,330**	**19,600**	**75,200**	**94,900**	**114,000**	**2,530,000**	**221,000**	**599,000**	**633,000**
9/9/2022-9/15/2022*	µg/L	*NS*	**328,000**	*NS*	**1,325**	**16,940**	**79,440**	*NS*	**180,000**	**2,709,000**	**216,500**	**912,000**	**228,900**
3/10/2023-4/10/2023*	µg/L	**1,872**	**430,500**	**557,800**	**5,894**	**15,630**	**76,850**	**98,340**	**149,200**	**72.0**	**19.1**	**2,677,000**	**759,700**
9/08/2023-9/21/2023*	µg/L	*NS*	**397,700**	*NS*	**6,992**	**22,520**	**88,270**	*NS*	**182,300**	**3,118,000**	**292,800**	**2,476,000**	**773,700**
3/19/2024-4/11/2024*	µg/L	**2,787**	**494,000**	**563,700**	**7,502**	**38,260**	**47,080**	*NS*	**147,600**	**2,706,000**	**316,200**	**2,730,000**	**767,800**
9/10/2024-9/19/2024*	µg/L	*NS*	**638,300**	*NS*	**3,130**	**35,070**	**101,000**	**84,760**	**318,800**	**3,227,000**	**315,500**	**4,833,000**	**742,600**
3/18/2025-4/4/2025*	µg/L	**5,079**	**469,600**	**507,400**	**9,413**	**43,870**	**117,700**	**129,800**	**187,200**	**2,977,000**	**305,100**	**2,709,000**	**789,800**
9/4/2025 - 9/19/2025*	µg/L	*NS*	**313,000**	*NS*	**4,684**	**2,815**	**100,800**	*NS*	**188,000**	**3,308,000**	**191,500**	**2,029,000**	**672,600**
11/5/2025* (a)	µg/L	*NS*	*NS*	*NS*	*NS*	**38,780**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

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DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2025, concentrations in RWK-MWI were considered anomalous; it was re-sampled in Nov. 2025. Anomalous results are excluded from the related figures.
(b) The relevant surface water criterion for zinc is 81 micrograms per liter (µg/L).

TABLE 8
Intermediate Cadmium Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RW01-MWI	RW01R-MWI	RW02-MWI	RW03-MWI	RW03R-MWI	RW05-MWI	RW05R-MWI	RW06-MWI	RW07-MWI	RW08-MWI	RW09-MWI	RW10-MWI	RW11-MWI	RW12-MWI	RW13-MWI
2025 Sampling Frequency		Semiannually	Semiannually	Semiannually	NA	Semiannually	NA	Semiannually	Semiannually	Semiannually	Annually	Annually	Annually	Annually	Semiannually	Annually
4/1/2013	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**0.75**	*DNE*	**13.1**	*DNE*	*DNE*	*DNE*	*DNE*	**438**	**4,300**	*DNE*
10/1/2013	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**1.2**	*DNE*	**24.8**	*DNE*	*DNE*	*DNE*	*DNE*	**903**	**3,500**	*DNE*
6/1/2014	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**4.1**	*DNE*	**63.2**	*DNE*	*DNE*	*DNE*	*DNE*	**361**	**4,740**	*DNE*
11/1/2014	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**1.8**	*DNE*	**40.9**	*DNE*	*DNE*	*DNE*	*DNE*	**405**	**5,090**	*DNE*
5/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	**13.3**	*DNE*	**27.6**	*DNE*	*DNE*	*DNE*	*DNE*	**25,000**	**6,000**	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*NS*	*DNE*	**41.9**	*DNE*	*DNE*	*DNE*	*DNE*	*NS*	**9,780**	*DNE*
2/10/2017-2/16/2017	µg/L	*DNE*	*DNE*	*DNE*	**189**	*DNE*	*NS*	*DNE*	**12.5**	**1.2 J**	**0.49 J**	**3.1**	**446**	**1,690**	**4,740**	*DNE*
3/27/2017-3/30/2017	µg/L	*DNE*	*DNE*	*DNE*	**196**	*DNE*	*NS*	*DNE*	**9.2**	**4.6**	**0.39 J**	**4**	*3 U*	**1,490**	**3,530**	*DNE*
4/25/2017-4/28/2017	µg/L	*DNE*	*DNE*	*DNE*	**192**	*DNE*	*NS*	*DNE*	**14**	*3 U*	*3 U*	**5**	**198**	**1,800**	**2,730**	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	*DNE*	**84**	*DNE*	*NS*	*DNE*	**20.4**	**1.1 J**	**1.5 J**	**11.1**	**2.5 J**	**2,600**	**3,820**	*DNE*
6/5/2017-6/9/2017	µg/L	*DNE*	*DNE*	*DNE*	**37.4**	*DNE*	**1.9 J**	*DNE*	**14.3**	**0.91 J**	**0.48 J**	**8.1**	**27.2**	**218**	**2,260**	*DNE*
7/10/2017-7/13/2017	µg/L	*DNE*	*DNE*	*DNE*	**138**	*DNE*	**17.5**	*DNE*	**10.2**	**1.2 J**	**1.3 J**	**12.9**	**16.3**	**518**	**2,730**	*DNE*
8/7/2017-8/10/2017	µg/L	**194**	*DNE*	**511**	**227**	*DNE*	**19.3**	*DNE*	**10.1**	**1 J**	**0.86 J**	**18.5**	*3 U*	**163**	**2,220**	**31,800**
9/1/2017-9/8/2017	µg/L	**0.51 J**	*DNE*	**3 J**	**214**	*DNE*	**3.7**	*DNE*	**4.5**	**11**	**0.77 J**	**9.1**	**17.7**	**274**	**1,820**	**66**
10/2/2017-10/9/2017	µg/L	**145**	*DNE*	**2.4 J**	**20.2**	*DNE*	**4.2**	*DNE*	**4.2**	*3 U*	*3 U*	**12**	**24.6**	**125**	**1,510**	**28,700**
11/3/2017-11/13/2017	µg/L	*3 U*	*DNE*	*3 U*	**25.2**	*DNE*	**4.9**	*DNE*	**5.4**	**5.1**	**0.88 J**	**8.8**	**63.7**	**1,460**	**1,380**	**24,500**
12/4/2017-12/8/2017	µg/L	**37.5**	*DNE*	**2.3 J**	**154**	*DNE*	**2.7 J**	*DNE*	**7.1**	**1.7 J**	**1.8 J**	**7.7**	*3 U*	**1,380**	**1,450**	**44.2**
1/2/2018-1/9/2018	µg/L	**2.4 J**	*DNE*	**14.5**	**259**	*DNE*	**2.2 J**	*DNE*	**8.4**	*3 U*	*3 U*	**2.1 J**	*3 U*	**1,400**	**1,270**	**1,240**
4/8/2018-4/13/2018	µg/L	**16.5**	*DNE*	**3**	**128**	*DNE*	**2.6 J**	*DNE*	**89.2**	**1.3 J**	**6.2**	**1.8 J**	**44.4**	**1,660**	**121**	**19,400**
7/30/2018-8/3/2018	µg/L	**250**	*DNE*	**79.9**	**236**	*DNE*	**1.3 J**	*DNE*	*3 U*	**52.9**	**14.1**	*3 U*	**44.7**	**4.7**	**134**	**21,000**
10/1/2018-10/5/2018	µg/L	*3 U*	*DNE*	**18**	**346**	*DNE*	*3 U*	*DNE*	**629**	**28.7**	**0.92 J**	**3.7**	**10.8**	**133**	**86.3**	**12.6**
12/10/2018-12/14/2018*	µg/L	**9.3**	*DNE*	**191**	**342**	*DNE*	**0.76 J**	*DNE*	**752**	**344**	*3 U*	**0.96 J**	*3 U*	**1,160**	**1,220**	**3.2**
3/12/2019-3/19/2019*	µg/L	*3 U*	*DNE*	**98.3**	**213**	*DNE*	*3 U*	*DNE*	**876**	**29.5**	*3 U*	**2 J**	**0.38 J**	**98.9**	**768**	**29,200**
5/3/2019-6/7/2019*	µg/L	**19.4**	*DNE*	**785**	**449**	*DNE*	*Abandoned*	**2,570**	**885**	**453**	*3 U*	**3.8**	**0.86 J**	**586**	**1,520**	**51.1**
9/10/2019-9/23/2019*	µg/L	**20.6**	*DNE*	**873**	**344**	*DNE*	*Abandoned*	**2,820**	**793**	**48.7**	*3.0 U*	**5.6**	**8.4**	**517**	**1,780**	**12.8**
12/3/2019-12/11/2019	µg/L	**8.8**	*DNE*	**277**	**546**	*DNE*	*Abandoned*	**2,700**	**673**	**38.1**	**0.59 J**	*4.2 B*	**13.9**	**476**	**420**	**22,500**
3/11/2020-3/23/2020*	µg/L	**49.3**	*DNE*	**136**	**451**	*DNE*	*Abandoned*	**1,960**	**690**	**36**	*3 U*	**10.6**	*NS*	**365**	*NS*	**24,700**
6/8/2020-6/30/2020*	µg/L	**117**	*DNE*	**398**	**581**	*DNE*	*Abandoned*	**1,930**	**582**	**1.7 J**	**0.47 J**	**16.5**	**0.67 J**	**75.1**	**716**	**15.4**
9/9/2020-9/29/2020*	µg/L	*3 U*	*DNE*	**0.69 J**	*Destroyed*	*DNE*	*Abandoned*	**1,650**	**530**	*NS*	**0.39 J**	**10.7**	**0.77 J**	*NS*	*NS*	**23,900**
11/5/2020-11/19/2020*	µg/L	**162**	*DNE*	**208**	*Destroyed*	*DNE*	*Abandoned*	**1,790**	**0.66 J**	*NS*	**0.56 J**	**10.3**	**0.55 J**	**179**	*NS*	**6.1**
5/26/2021-6/18/2021*	µg/L	**277**	*DNE*	**0.58 J**	*Destroyed*	*DNE*	*Abandoned*	**1,570**	**616**	*NS*	**0.38 J**	**16**	**11.1**	**175**	*NS*	**26,400**
10/4/2021-10/18/2021*	µg/L	**322**	*DNE*	*1 U*	*Destroyed*	*DNE*	*Abandoned*	**1,470**	**604**	**49.1**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
11/29/2021-11/30/2021*	µg/L	*NS*	*DNE*	*NS*	*Destroyed*	*DNE*	*Abandoned*	**16.8**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	**565**	*DNE*	*2 U*	*Destroyed*	*DNE*	*Abandoned*	**1,660**	**626**	**107**	*200 U*	*2 U*	**13.3**	**194**	**1,080**	**23,700**
9/9/2022-9/15/2022*	µg/L	**574**	*DNE*	**17.4**	*Destroyed*	**9.60**	*Abandoned*	**1,243**	**611**	**42.7**	*NS*	*NS*	*NS*	*NS*	**1,396**	*NS*
3/10/2023-4/10/2023*	µg/L	**318**	*DNE*	**193**	*Destroyed*	**148**	*Abandoned*	**1,178**	**571**	**0.738**	*0.2 U*	**11.5**	**1.11**	**203**	**315**	**35,700**
9/08/2023-9/21/2023*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	**234**	*Abandoned*	**1,451**	*Abandoned*	**26.9**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
3/19/2024-4/11/2024*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	*0.2 U*	*Abandoned*	**1,622**	*Abandoned*	**1.52**	**12.0**	**6.33**	**0.355**	**1.45**	**289**	**38,540**
9/10/2024-9/19/2024*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	*10 U*	*Abandoned*	**1,996**	*Abandoned*	**8.48**	*NS*	*NS*	*NS*	*NS*	**1,128**	*NS*
3/18/2025-4/4/2025*	µg/L	*Abandoned*	*DNE*	*Abandoned*	*Destroyed*	**0.532**	*Abandoned*	**2,222**	*Abandoned*	**39.8**	**3.57**	*0.2 U*	**17.7**	**135**	**102**	**3.25**
9/4/2025 - 9/19/2025*	µg/L	*Abandoned*	*0.2 U*	*Abandoned*	*Destroyed*	**1.45**	*Abandoned*	**2,257**	*Abandoned*	**67.1**	*NS*	*NS*	*NS*	*NS*	**22.5**	*NS*
11/5/2025*	µg/L	*Abandoned*	*NS*	*Abandoned*	*Destroyed*	*NS*	*Abandoned*	*NS*	*Abandoned*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2025, concentrations in RWK-MWI were considered anomalous; it was re-sampled in Nov. 2025. Anomalous results are excluded from the related figures.
(b) The relevant surface water criterion for cadmium is 7.9 micrograms per liter (µg/L).

TABLE 8
Intermediate Cadmium Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RW15-MWI	RW16-MWI	RW18-MWI	RW19-MWI	RW21-MWI	RW22-MWI	RW22R-MWI	RW23-MWI	RW24-MWI	RW25-MWI	RWA-MWI	RWB-MWI	RWD-MWI	RWE-MWI	RWF-MWI
2025 Sampling Frequency		Annually	Annually	Annually	Annually	Annually	NA	Semiannually	Semiannually	Annually	Annually	Semiannually	Semiannually	Semiannually	Semiannually	Semiannually
4/1/2013	µg/L	*DNE*	*DNE*	**73.1**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2013	µg/L	*DNE*	*DNE*	**59.4**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/1/2014	µg/L	*DNE*	*DNE*	**134**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2014	µg/L	*DNE*	*DNE*	**138**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/1/2015	µg/L	*DNE*	*DNE*	**113**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	**47.2**	*DNE*	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
2/10/2017-2/16/2017	µg/L	*DNE*	*DNE*	**70.3**	**3,760**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/27/2017-3/30/2017	µg/L	*DNE*	*DNE*	**63.8**	**3,450**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/25/2017-4/28/2017	µg/L	*DNE*	*DNE*	**119**	**3,380**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	**92**	**2,770**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/5/2017-6/9/2017	µg/L	*DNE*	*DNE*	**65.1**	**2,280**	*DNE*	**0.35 J**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/10/2017-7/13/2017	µg/L	*DNE*	*DNE*	**61.7**	**2,550**	*DNE*	*3 U*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
8/7/2017-8/10/2017	µg/L	**10.1**	*DNE*	**74.4**	**1,670**	*DNE*	*NS*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
9/1/2017-9/8/2017	µg/L	*3 U*	**1.7 J**	**72.2**	**1,320**	*DNE*	**2.3 J**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/2/2017-10/9/2017	µg/L	*3 U*	*3 U*	**43.7**	**1,710**	*DNE*	*3 U*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/3/2017-11/13/2017	µg/L	*3 U*	*3 U*	**66.6**	**1,770**	*DNE*	**3.8**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/4/2017-12/8/2017	µg/L	**0.97 J**	**1.9 J**	**51.5**	**1,710**	*DNE*	**15.2**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
1/2/2018-1/9/2018	µg/L	**1.6 J**	**1.2 J**	**63.5**	**1,880**	*DNE*	**4.1**	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/8/2018-4/13/2018	µg/L	*3 U*	**1.1 J**	**55.8**	**1,700**	*DNE*	*3 U*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/30/2018-8/3/2018	µg/L	**15.3**	*3 U*	**35.1**	**1,560**	*DNE*	*3 U*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2018-10/5/2018	µg/L	*3 U*	*3 U*	**14.5**	**1,610**	*DNE*	*3 U*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/10/2018-12/14/2018*	µg/L	**12.9**	*3 U*	**44.7**	**1,900**	*DNE*	*3 U*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/12/2019-3/19/2019*	µg/L	**402**	*3 U*	**80.3**	**1,320**	*DNE*	*3 U*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/3/2019-6/7/2019*	µg/L	**64.2**	*3 U*	**38.0**	**2,420**	**50.2**	*NS*	*3 U*	**2,270**	**1,580**	**507**	**6,830**	*3 U*	**395**	**700**	**859**
9/10/2019-9/23/2019*	µg/L	**589**	*3.0 U*	**50.4**	**1,580**	**23**	*NS*	*3.0 U*	**2,800**	**1,540**	**9.9**	**7,740**	*3.0 U*	**514**	**656**	**1,020**
12/3/2019-12/11/2019	µg/L	**605**	**0.36 J**	**87.6**	**1,500**	**33.1**	*NS*	*3.0 U*	**2,680**	**1,250**	**622**	**9,020**	*3.0 U*	**586**	**707**	**1,340**
3/11/2020-3/23/2020*	µg/L	**0.5 J**	**0.36 J**	**36.8**	**1,400**	**39.8**	*Abandoned*	*3 U*	**2,600**	**1,190**	**633**	**12,600**	*3 U*	**555**	**664**	**2,010**
6/8/2020-6/30/2020*	µg/L	*3 U*	*3 U*	**16**	**3,390**	**34**	*Abandoned*	**2 J**	**2,740**	**1,050**	**652**	**10,200**	*3 U*	**515**	**609**	**2,580**
9/9/2020-9/29/2020*	µg/L	**8**	*3 U*	**43.1**	**1,630**	**29.4**	*Abandoned*	**2.4 J**	**2,500**	**922**	**708**	**7,630**	**0.59 J**	**541**	**584**	**3,170**
11/5/2020-11/19/2020*	µg/L	**0.91 J**	*3 U*	**42.1**	**1,540**	**27.8**	*Abandoned*	**1.6 J**	**2,340**	**842**	**703**	**10,100**	*3 U*	**596**	**527**	**3,330**
5/26/2021-6/18/2021*	µg/L	**43.6**	**0.42 J**	*3 U*	**112**	**34.2**	*Abandoned*	**3.4**	**2,870**	**890**	**626**	**11,700**	**0.34 J**	**713**	**530**	**3,710**
10/4/2021-10/18/2021*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	**2.5 J**	**2,590**	*NS*	*NS*	**8,510**	*1 U*	**536**	**497**	**2,610**
11/29/2021-11/30/2021*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	**169**	*2 U*	**31.7**	**109**	**32.7**	*Abandoned*	**3.4**	**2,610**	**1,200**	**926**	**9,840**	*2 U*	**567**	**438**	**2,590**
9/9/2022-9/15/2022*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	**5.72**	**2,844**	*NS*	*NS*	**8,587**	**0.062 J**	**488**	**399**	**2,263**
3/10/2023-4/10/2023*	µg/L	**408**	*0.2 U*	**12.5**	*0.2 U*	**46.3**	*Abandoned*	**5.19**	**3,005**	**1,113**	**640**	**8,051**	*0.2 U*	**477**	**355**	**1,903**
9/08/2023-9/21/2023*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	**4.49**	**3,222**	*NS*	*NS*	**7,977**	*0.2 U*	**442**	**360**	**1,787**
3/19/2024-4/11/2024*	µg/L	**4.68**	*0.2 U*	**7.66**	**260**	**30.4**	*Abandoned*	**1.89**	**2,687**	*NS*	*NS*	**8,386**	*0.2 U*	**497**	**445**	**1,558**
9/10/2024-9/19/2024*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	**1.56**	**3,342**	**2,122**	**1,156**	**8,451**	*0.2 U*	**504**	**424**	**1,653**
3/18/2025-4/4/2025*	µg/L	**0.266**	*1 U*	**9.64**	**500**	**23.1**	*Abandoned*	**1.9 J**	**3,671**	**987**	**586**	**7,492**	*0.2 U*	**504**	**492**	**1,601**
9/4/2025 - 9/19/2025*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	**5.14**	**3,353**	*NS*	*NS*	**7,381**	*0.2 U*	**440**	**479**	**1,438**
11/5/2025*	µg/L	*NS*	*NS*	*NS*	*NS*	*NS*	*Abandoned*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2025, concentrations in RWK-MWI were considered anomalous; it was re-sampled in Nov. 2025. Anomalous results are excluded from the related figures.
(b) The relevant surface water criterion for cadmium is 7.9 micrograms per liter (µg/L).

TABLE 8
Intermediate Cadmium Concentrations
Rod and Wire Mill Interim Measure Progress Report

Sampling Dates	Units	RWG-MWI	RWH-MWI	RWI-MWI	RWJ-MWI	RWK-MWI	RWL-MWI	RWM-MWI	RWO-MWI	RWP-MWI	RWQ-MWI	RWR-MWI	RWS-MWI
2025 Sampling Frequency		Annually	Semiannually	Annually	Semiannually	Semiannually	Semiannually	Annually	Semiannually	Semiannually	Semiannually	Semiannually	Semiannually
4/1/2013	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2013	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/1/2014	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2014	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/1/2015	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
2/10/2017-2/16/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/27/2017-3/30/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/25/2017-4/28/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/22/2017-5/24/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
6/5/2017-6/9/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/10/2017-7/13/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
8/7/2017-8/10/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
9/1/2017-9/8/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/2/2017-10/9/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
11/3/2017-11/13/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/4/2017-12/8/2017	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
1/2/2018-1/9/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
4/8/2018-4/13/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
7/30/2018-8/3/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
10/1/2018-10/5/2018	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
12/10/2018-12/14/2018*	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
3/12/2019-3/19/2019*	µg/L	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*	*DNE*
5/3/2019-6/7/2019*	µg/L	**23**	**92**	**8,050**	**61.2**	**33.5**	**1,230**	**1,080**	**68**	**2,810**	**26.2**	**440**	*3 U*
9/10/2019-9/23/2019*	µg/L	**15.4**	**1,380**	**8,120**	**11.8**	**56.5**	**1,240**	**1,200**	**72.1**	**6,990**	*3.0 U*	**535**	*3.0 U*
12/3/2019-12/11/2019	µg/L	**26.0**	**3,580**	**8,270**	**45.7**	**99.5**	**1,280**	**1,230**	**55.4**	**8,910**	**2.9 J**	**650**	**1.6 J**
3/11/2020-3/23/2020*	µg/L	**38.2**	**3,210**	**13,300**	**30.0**	**89.1**	**1,170**	**1,120**	**54.3**	**5,560**	**1.9 J**	**340**	*3 U*
6/8/2020-6/30/2020*	µg/L	**26.7**	**4,610**	**10,800**	**2.1 J**	**76.9**	**1,140**	**1,040**	**66.2**	**7,090**	**3.7**	**508**	**0.58 J**
9/9/2020-9/29/2020*	µg/L	**38.2**	**4,330**	*NS*	**2.3 J**	**79.1**	**1,210**	**1,060**	**57.8**	**7,220**	**4.2**	**425**	**1.8 J**
11/5/2020-11/19/2020*	µg/L	**40.0**	**6,650**	*NS*	**2.4 J**	**74.4**	**1,160**	**1,120**	**27.9**	**7,700**	**2.9 J**	**398**	**1.7 J**
5/26/2021-6/18/2021*	µg/L	*NS*	**6,760**	**6,810**	**31.3**	**97.8**	**1,290**	**1,220**	**35.8**	**8,430**	**6.1**	**367**	**0.86 J**
10/4/2021-10/18/2021*	µg/L	*NS*	**4,220**	*NS*	**49.1**	**77.6**	**1,230**	*NS*	**31.4**	**4,370**	**10.6**	**753**	**4.7 J**
11/29/2021-11/30/2021*	µg/L	**1.8**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	**10.1**	**2.0**	*NS*	*NS*	*NS*
2/23/2022-3/28/2022*	µg/L	**8.6**	**5,150**	**5,230**	**52.8**	**62.8**	**1,230**	**1,250**	**26.3**	**5,340**	**23.3**	**295**	*20 U*
9/9/2022-9/15/2022*	µg/L	*NS*	**2,520**	*NS*	**18.0**	**72.7**	**819**	*NS*	**27.3**	**6,136**	*2 U*	**340**	**25.7**
3/10/2023-4/10/2023*	µg/L	**51.0**	**4,700**	**5,797**	**65.3**	**57.4**	**739**	**1,286**	**18.1**	**0.6083**	*0.2 U*	**531**	*0.2 U*
9/08/2023-9/21/2023*	µg/L	*NS*	**3,385**	*NS*	**80.6**	**89.9**	**851**	*NS*	**30.1**	**5,384**	**55.9**	**422**	*0.2 U*
3/19/2024-4/11/2024*	µg/L	**131**	**5,315**	**7,153**	**110**	**169**	**788**	*NS*	**17.1**	**6,017**	**62.4**	**685**	**0.0805**
9/10/2024-9/19/2024*	µg/L	*NS*	**4,904**	*NS*	**30.2**	**239**	**1,114**	**1,353**	**64.0**	**6,930**	**89.6**	**1,203**	**0.11 J**
3/18/2025-4/4/2025*	µg/L	**239**	**5,666**	**7,142**	**108**	**297**	**1,121**	**1,493**	**25.6**	**7,125**	**61.9**	**709**	*2 U*
9/4/2025 - 9/19/2025*	µg/L	*NS*	**4,040**	*NS*	**37.6**	**28.8**	**1,085**	*NS*	**34.9**	**6,984**	**0.31**	**599**	*1 U*
11/5/2025*	µg/L	*NS*	*NS*	*NS*	*NS*	**523**	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*	*NS*

Bold indicates detection above the reporting limit
NS = Not Sampled
DNE = Did Not Exist

Notes:
*Indicates concentrations are for dissolved metals. All other events show total metals.
(a) In 3Q 2025, concentrations in RWK-MWI were considered anomalous; it was re-sampled in Nov. 2025. Anomalous results are excluded from the related figures.
(b) The relevant surface water criterion for cadmium is 7.9 micrograms per liter (µg/L).

TABLE 9
2025 Intermediate and Deep Field Parameter Data
Rod and Wire Mill Interim Measure Progress Report

		RW01R-MWI		RW03R-MWI		RW05R-MWI		RW06R-MWD		RW07-MWI		RW08-MWI		RW09-MWI	
Parameters	**Units**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**
pH	s.u.	DNE	6.42	6.10	6.16	6.33	6.40	6.93	NS	6.10	6.17	3.29	NS	6.35	NS
Specific Conductance	ms/cm	DNE	7.83	5.83	5.49	3.00	2.85	0.327	NS	3.07	2.34	1.11	NS	1.08	NS
Dissolved Oxygen	mg/L	DNE	1.73	0.0	1.64	1.80	1.38	3.38	NS	0.0	1.64	1.60	NS	0.0	NS
ORP	mV	DNE	-96	25	-4	-13	-42	65	NS	-69	-61	514	NS	-105	NS
Turbidity	NTU	DNE	270	272	8.0	18.1	4.0	10.9	NS	1.8	43.5	0.0	NS	3.1	NS
Depth To Water	ft	DNE	13.08	13.15	12.39	12.00	11.57	11.02	8.24	12.05	11.29	11.29	11.24	11.40	11.16

		RW10-MWI		RW11-MWI		RW12-MWI		RW13-MWI		RW15-MWI		RW16-MWI		RW18-MWI	
Parameters	**Units**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**
pH	s.u.	6.14	NS	6.43	NS	6.66	6.94	10.59	NS	11.25	NS	9.16	NS	5.83	NS
Specific Conductance	ms/cm	1.23	NS	0.507	NS	4.84	3.31	1.25	NS	3.19	NS	1.57	NS	4.26	NS
Dissolved Oxygen	mg/L	5.47	NS	4.75	NS	0.0	2.44	8.97	NS	0.16	NS	2.70	NS	5.88	NS
ORP	mV	-73	NS	79	NS	39	-52	65	NS	-44	NS	-151	NS	29	NS
Turbidity	NTU	18.4	NS	6.3	NS	37.1	0.0	0.6	NS	4.40	NS	5.90	NS	26.3	NS
Depth To Water	ft	15.52	11.94	11.15	9.09	12.06	11.66	12.13	12.01	12.70	11.53	10.82	10.39	13.15	12.83

		RW19-MWI		RW21-MWI		RW22R-MWI		RW23-MWI		RW24-MWI		RW25-MWI		RWA-MWI	
Parameters	**Units**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**
pH	s.u.	5.20	NS	6.18	NS	5.87	5.88	5.45	6.13	5.98	NS	5.11	NS	4.92	4.91
Specific Conductance	ms/cm	12.2	NS	4.00	NS	6.37	6.55	2.55	2.59	3.38	NS	2.09	NS	2.80	2.76
Dissolved Oxygen	mg/L	4.66	NS	3.62	NS	0.14	1.90	0.0	2.08	6.41	NS	7.62	NS	1.64	3
ORP	mV	68	NS	-57	NS	-38	-24	39	-37	38	NS	141	NS	183	123
Turbidity	NTU	7.5	NS	60.5	NS	25.4	2.9	198	74.1	57.3	NS	19.9	NS	68.1	163
Depth To Water	ft	11.65	10.85	12.30	12.81	16.81	16.08	13.62	12.89	10.80	10.71	11.34	10.32	9.60	9.34

		RWB-MWI		RWD-MWI		RWE-MWI		RWF-MWI		RWG-MWI		RWH-MWI		RWI-MWI	
RWG-MWS	**Units**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**
pH	s.u.	6.19	6.19	5.36	5.32	6.05	5.63	6.55	5.81	6.66	NS	5.92	6.02	6.11	NS
Specific Conductance	ms/cm	0.822	0.956	2.99	2.89	3.01	3.22	4.98	4.48	7.26	NS	4.18	3.94	3.7	NS
Dissolved Oxygen	mg/L	5.78	2.27	2.77	2.29	0.0	1.78	0.11	2.16	0.84	NS	4.37	2.19	0.0	NS
ORP	mV	7	-8	78	85	36	49	-28	-6	-62	NS	-35	-14	-97	NS
Turbidity	NTU	18.5	29.5	263	13.9	3.4	12.00	23.6	63.6	169	NS	9.8	5.2	29.8	NS
Depth To Water	ft	19.25	18.79	14.24	13.35	12.49	12.48	11.45	10.82	9.58	8.22	10.75	NM	11.33	12.69

TABLE 9
2025 Intermediate and Deep Field Parameter Data
Rod and Wire Mill Interim Measure Progress Report

		RWJ-MWI		RWK-MWI			RWL-MWI		RWM-MWI		RWO-MWI		RWP-MWI	
RWG-MWS	**Units**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Nov-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**
pH	s.u.	8.88	7.10	6.92	5.99	6.38	6.67	5.62	6.51	NS	6.09	5.99	4.68	4.74
Specific Conductance	ms/cm	2.5	2.78	2.18	2.82	2.64	2.5	2.66	2.16	NS	2.87	2.77	9.45	9.10
Dissolved Oxygen	mg/L	0.0	1.70	0.0	2.29	2.75	0.87	2.15	0.0	NS	0.0	2.01	0.0	2.56
ORP	mV	-300	-128	-78	-28	-6	-76	15	-66	NS	-106	11	219	231
Turbidity	NTU	2.8	345	2.1	19.1	0.1	NA	4.3	4.8	NS	19.5	39.2	70.6	92.8
Depth To Water	ft	12.36	12.49	12.48	12.65	24.22	13.46	12.84	13.83	13.4	10.40	9.84	12.45	13.09

		RWQ-MWI		RWR-MWI		RWS-MWI	
RWG-MWS	**Units**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**	**Mar-25**	**Sep-25**
pH	s.u.	5.54	5.90	5.79	5.48	5.44	5.94
Specific Conductance	ms/cm	3.34	3.17	8.03	8.14	7.61	7.37
Dissolved Oxygen	mg/L	0.0	2.95	0.0	1.73	0.0	1.89
ORP	mV	-10	-2	64	23	-9	-4
Turbidity	NTU	1.0	0.0	44.2	36.2	5.0	25.9
Depth To Water	ft	15.61	16.53	11.78	11.95	16.34	16.13

NS = Not Sampled
DNE = Did Not Exist
NM = Not Measured

TABLE 10
Statistically Significant Trends
Rod and Wire Mill Interim Measure Progress Report

Zone	Monitoring Area	Well ID	Parameter Name	Statistical Trend
Shallow	Upgradient	RWR-MWS	Cadmium	Downward
		RWS-MWS	Zinc	Upward
	Delineation	RWH-MWS	Zinc	Upward
		RWO-MWS	Zinc	Downward
	Interior	RW11-MWS	Zinc	Upward
		RW23-MWS	Cadmium	Downward
		RWN-MWS	Cadmium	Downward
			Zinc	Downward
	Focused	RWK-MWS	Zinc	Upward
	Downgradient Perimeter	RW07-MWS	Cadmium	Upward
			Zinc	Upward
		RW22R-MWS	Cadmium	Downward
		RWE-MWS	Zinc	Upward
		RWF-MWS	Cadmium	Downward
			Zinc	Downward

TABLE 10
Statistically Significant Trends
Rod and Wire Mill Interim Measure Progress Report

Zone	Monitoring Area	Well ID	Parameter Name	Statistical Trend
Intermediate	Upgradient	RW19-MWI	Cadmium	Downward
	Delineation	RW21-MWI	Zinc	Downward
		RWH-MWI	Cadmium	Upward
		RWO-MWI	Cadmium	Downward
	Interior	RW09-MWI	Zinc	Upward
		RW10-MWI	Cadmium	Downward
			Zinc	Downward
		RW11-MWI	Cadmium	Downward
			Zinc	Downward
		RW12-MWI	Cadmium	Downward
			Zinc	Downward
		RW18-MWI	Cadmium	Downward
		RW23-MWI	Cadmium	Upward
			Zinc	Upward
		RW24-MWI	Zinc	Downward
		RW25-MWI	Cadmium	Upward
		RWM-MWI	Cadmium	Upward
			Zinc	Downward
	Focused	RWJ-MWI	Cadmium	Upward
			Zinc	Upward
		RWK-MWI	Cadmium	Upward
		RWL-MWI	Cadmium	Downward
			Zinc	Downward
	Downgradient Perimeter	RW07-MWI	Cadmium	Upward
			Zinc	Upward
		RW08-MWI	Zinc	Downward
		RW22R-MWI	Zinc	Upward
		RWA-MWI	Zinc	Downward
		RWD-MWI	Zinc	Upward
		RWE-MWI	Cadmium	Downward
			Zinc	Downward
		RWG-MWI	Cadmium	Upward
			Zinc	Upward

Note: Trend analysis conducted for existing wells with cadmium or zinc above the relevant surface water criterion. If the result of the testing was that no upward or downward trend was identified for a parameter at a particular well, it was not included in this table.

APPENDIX A

ARM Group LLC
Engineers and Scientists

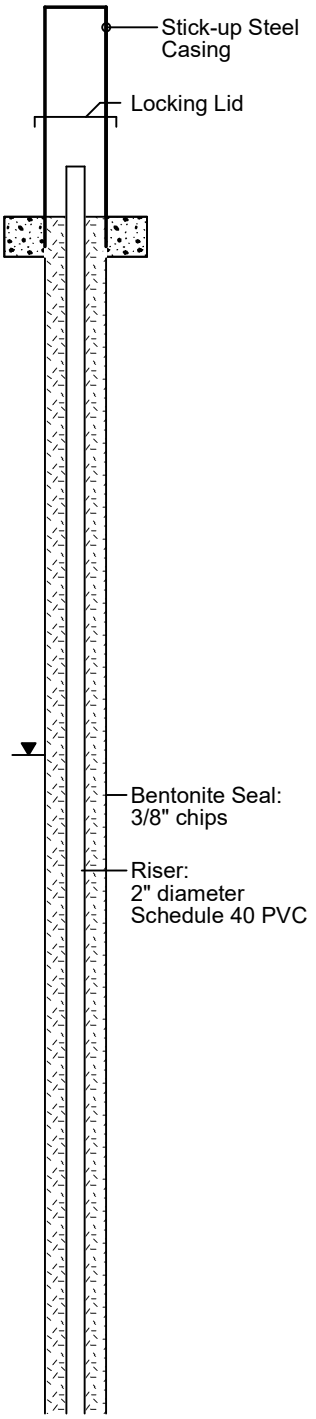
Well ID: RW01R-MWI

(page 1 of 2)

Project Name	: A3 Well Reinstallation
Project Number	: 21010103
Client	: Tradepoint Atlantic
Site	: Sparrows Point
Borehole Location	: A3
ARM Representative	: T. Palank and C. Norris
Checked by	: S. Lowe
Drilling Company	: Odyssey
Driller	: Jeff and Will
Drilling Equipment	: Geoprobe

Northing (ft)	: 571440.404
Easting (ft)	: 1455912.889
Date Completed	: 08/27/25
PVC Stick-up (ft)	: 2.70' ags
Total Well Depth (ft)	: 43.39' TOC
Depth to Water (ft)	: 0 hr: 13.82' TOC
Borehole Diameter (in.)	: 8"

Depth (ft.)	%Recovery	PID (ppm)	DESCRIPTION	REMARKS
0–1		0.0	(0-2') FILL Brown to to tan/ gray SANDY GRAVEL SLAG, top soil with roots observed within the first (6"), loose (DRY)	
1–2		0.0		
2–3	40	0.3	(2-5') NO RECOVERY	
3–4		-		
4–5		0.4		
5–6		0.3	(5-9.5') FILL Dark brown to black SANDY GRAVEL SLAG, loose to hard (DRY/DAMP)	
6–7		1.4		
7–8	90	4.2		
8–9		0.2		
9–10		0.2		
10–11		0.0	(9.5-10') NO RECOVERY (10-12') FILL Dark brown SANDY GRAVEL SLAG (DRY)	
11–12		0.0		
12–13	70	0.0	(12-14') NATIVE Grey CLAY, high plasticity, high cohesion (DAMP)	
13–14		0.0		
14–15		0.0	(14-15') NO RECOVERY	
15–16		0.0	(15-19') NATIVE Tan/ reddish brown SAND, coarsening downwards (DAMP/WET)	
16–17		0.0		
17–18	70	0.0		Wet at 17' bgs
18–19		0.0		
19–20		0.0	(19-20') NO RECOVERY	



TOC - Top of PVC Casing
ags - above ground surface
bgs - below ground surface

Bentonite seal: 0-10' bgs
Filter pack: 10-40' bgs
Well riser: 2.70' ags to 20' bgs
Well screen: 30-40' bgs

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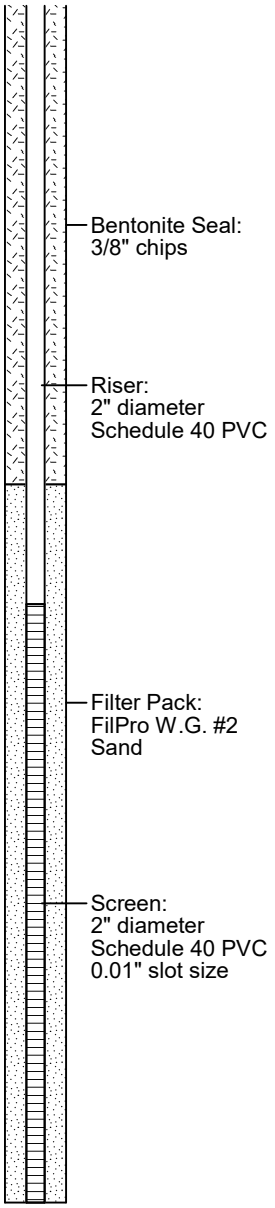
Well ID: RW01R-MWI

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Project Name	: A3 Well Reinstallation
Project Number	: 21010103
Client	: Tradepoint Atlantic
Site	: Sparrows Point
Borehole Location	: A3
ARM Representative	: T. Palank and C. Norris
Checked by	: S. Lowe
Drilling Company	: Odyssey
Driller	: Jeff and Will
Drilling Equipment	: Geoprobe

Northing (ft)	: 571440.404
Easting (ft)	: 1455912.889
Date Completed	: 08/27/25
PVC Stick-up (ft)	: 2.70' ags
Total Well Depth (ft)	: 43.39' TOC
Depth to Water (ft)	: 0 hr: 13.82' TOC
Borehole Diameter (in.)	: 8"

Depth (ft.)	%Recovery	PID (ppm)	DESCRIPTION	REMARKS
20		0.0	(20-21') NATIVE Red to tan SAND (WET)	
21		0.0	(21-22') NATIVE Grey SANDYSILT with some CLAY, no plasticity, moderate cohesion (WET)	
22	100	0.0	(22-25') NATIVE Grey CLAY, high plasticity, high cohesion (WET)	
23		0.0		
24		0.0		
25		0.0	(25-26') NATIVE Grey SANDY SILT (WET)	
26		0.0	(26-26.5') NATIVE Grey CLAY, high plasticity, high cohesion (WET)	
27	100	0.0	(26.5-27') NATIVE Reddish brown SANDY SILT (WET)	
28		0.0	(27-29') NATIVE CLAY, moderate cohesion, moderate plasticity (WET)	
29		0.0		
30		0.0	(29-30') NATIVE Tan SAND, coarse grained (WET)	
31		0.0	(30-33') NATIVE Tan to light brown SAND, coarsening downwards (WET)	
32	100	0.0		
33		0.0	(33-33.5') NATIVE Tan SANDY GRAVEL with some pebble sized clasts, loose (WET)	
34		0.0	(33.5-35') NATIVE SILTY CLAY, moderate cohesion, no plasticity, hard (WET)	
35		-	(35-37.5') NATIVE Light grey SILT with minor CLAY, low cohesion, no plasticity, hard (WET)	
36		-		
37	100	-	(37.5-40') NATIVE SILTY SAND, soft (WET)	
38		-		
39		0.0		
40				



TOC - Top of PVC Casing
ags - above ground surface
bgs - below ground surface

Bentonite seal: 0-10' bgs
Filter pack: 10-40' bgs
Well riser: 2.70' ags to 20' bgs
Well screen: 30-40' bgs

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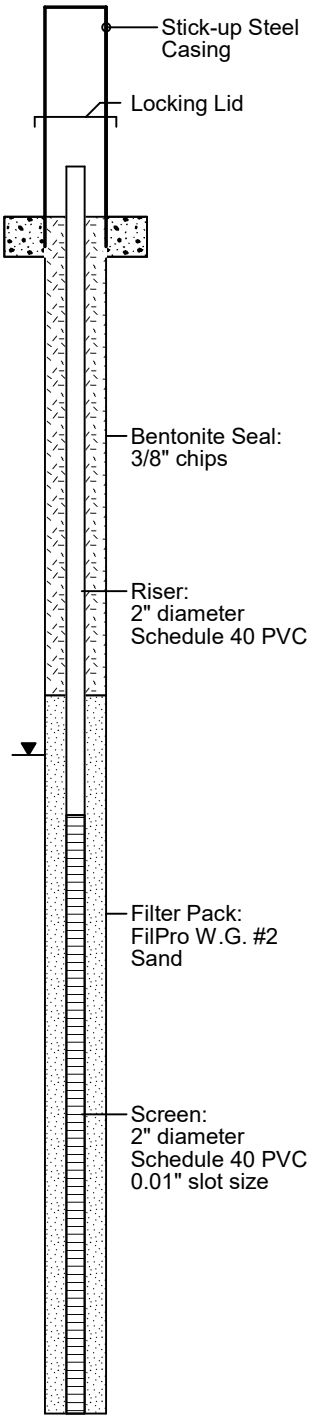
Well ID: RW01R-MWS

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Project Name	: A3 Well Reinstallation
Project Number	: 21010103
Client	: Tradepoint Atlantic
Site	: Sparrows Point
Borehole Location	: A3
ARM Representative	: T. Palank, GIT
Checked by	: J. Barna, PG
Drilling Company	: Odyssey
Driller	: Jeff and Will
Drilling Equipment	: Geoprobe

Northing (ft)	: 571449.428
Easting (ft)	: 1455913.256
Date/Time Completed	: 08/27/25
PVC Stick-up (ft)	: 3.46' ags
Total Well Depth (ft)	: 22.70' TOC
Depth to Water (ft)	: 0 hr: 14.32' TOC
Borehole Diameter (in.)	: 8"

Depth (ft.)	%Recovery	PID (ppm)	DESCRIPTION	REMARKS
0				
1		0.0	(0-0.33') FILL Top soil with some SANDY SLAG (DAMP/DRY)	
2		-	(0.33-2') FILL GRAVEL SLAG (DRY)	
3	40	0.1	(2-5') NO RECOVERY	
4		-		
5		0.3		
6		0.4	(5-8.5') FILL Tan to dark grey GRAVEL SLAG (DRY)	
7		1.7		
8	70	7.7		
9		1.1	(8.5-10') NO RECOVERY	
10		-		
11		0.3	(10-11.5') FILL Tan to dark grey GRAVEL SLAG (DRY)	
12		0.1	(11.5-12') NATIVE Black SILTY CLAY, low cohesion, no plasticity (DAMP)	Wet at 12 bgs
13	60	0.0	(12-13') NATIVE CLAY with minor SILT, low plasticity, low cohesion (WET)	
14		0.9	(13-15') NO RECOVERY	
15		-		
16		0.0	(15-16') NATIVE CLAY with minor SILT, low plasticity, low cohesion (WET)	
17		0.0	(16-17') NATIVE Grey SILT, moderate cohesion, no plasticity (WET)	
18	60	-	(17-19') NO RECOVERY	
19		-		
20		0.0	(19-20') NATIVE Tan SAND (WET)	



TOC - Top of PVC Casing
ags - above ground surface
bgs - below ground surface

Bentonite seal: 0-8' bgs
Filter pack: 8-20' bgs
Well riser: 3.48' ags to 10' bgs
Well screen: 10-20' bgs

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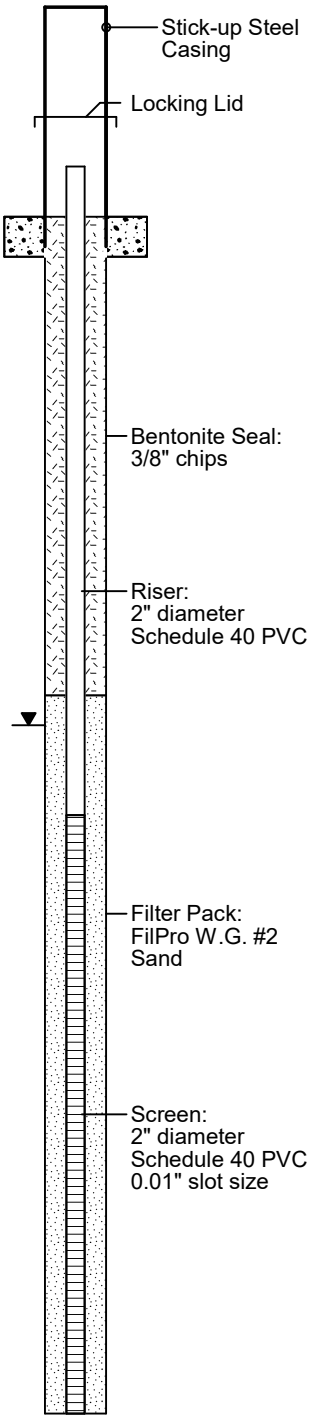
Well ID: RW05R-MWS

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Project Name	: A3 Well Reinstallation
Project Number	: 21010103
Client	: Tradepoint Atlantic
Site	: Sparrows Point
Borehole Location	: A3
ARM Representative	: C. Norris
Checked by	:
Drilling Company	: Odyssey
Driller	: Jeff and Will
Drilling Equipment	: Geoprobe

Northing (ft)	: 571723.774
Easting (ft)	: 1455892.086
Date/Time Completed	: 08/27/25
PVC Stick-up (ft)	: 2.92' ags
Total Well Depth (ft)	: 22.70' TOC
Depth to Water (ft)	: 0 hr: 12.56' TOC
Borehole Diameter (in.)	: 8"

Depth (ft.)	%Recovery	PID (ppm)	DESCRIPTION	REMARKS
0–6.5	*	0 - - - - 0 -	(0-6.5') FILL Topsoil with GRAVEL SLAG (DAMP)	
6.5–11.5	*	- - - - 0 -	(6.5-11.5') FILL Dark brown topsoil with GRAVEL SLAG (DAMP)	Wet at 11.5' bgs
11.5–15	*	- - - - -	(11.5-17') NATIVE Red to tan SANDY SILTY CLAY, fine to medium grained, low plasticity, low cohesion (DAMP/ WET)	
15–20	*	- - - - -	(17-20') NATIVE Light to dark brown SAND, fine to medium grained (WET)	



TOC - Top of PVC Casing
ags - above ground surface
bgs - below ground surface
*Descriptions based on soil cuttings, % Recovery not applicable.

Bentonite seal: 0-8' bgs
Filter pack: 8-20' bgs
Well riser: 2.92' ags to 10' bgs
Well screen: 10-20' bgs

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