

**Groundwater Monitoring Operation and Maintenance
Inspection Report**
Al Tech Specialty Steel, Site No. 401003
OU2 – Waste Management Area



Watervliet, NY

Prepared by New York State Department of Environmental Conservation

November 2025

Contents

Background	2
Hydrogeology	2
Landfill Inspection.....	3
Groundwater sampling activities	3
Findings/Conclusions.....	3
Figures	
Photos	

Groundwater Operation and Maintenance Inspection Report

Facility: Al Tech Specialty Steel, Site No. 401003, Waste Management Area, Operable Unit 2

Inspection Date: February 3, 4, and June 9 2025

Purpose: Inspect Landfill, monitoring wells, and observe groundwater sampling

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Background

The Waste Management Area (WMA) at the AL Tech Site is situated on a hillside along the north side of Spring Street Road and is comprised of 33 acres including a 12-acre Hazardous Waste Landfill. The remaining property contains wooded areas, former parking facilities and the unoccupied leachate storage building. Fencing is currently in-place on the eastern, southern, and western property boundaries and the Kromma Kill (a stream) is on the northern property border. Within the property, the landfill is surrounded entirely by chain-link fencing with two locked gates. Two unpaved roads are maintained to provide access to the landfill for inspection and maintenance. A second inactive hazardous waste disposal site, Former Bearoff Metallurgical (401069) is adjacent to the south of the landfill. See Figure 1 for a site location map, and Figure 2 for site features.

Hydrogeology

The site is mostly flat and is situated on layers of fill, alluvial sediments, clay till and bedrock (Snake Hill Shale). Bedrock is found between 1 to 42 feet below ground surface (bgs). There are two groundwater bearing zones, overburden and bedrock. The first continuous water-bearing zone can be as shallow as 5 feet bgs but typically is about 10 to 15 feet bgs. Flow direction in both zones is to the east. See Figure 3 for overburden and bedrock groundwater flow gradients across the site.

Landfill Inspection

WSP failed to notify NYSDEC of the planned April 2024 WMA inspection and monitoring event. To address this deficiency, the Al Tech Specialty Steel landfill (Al Tech landfill) was inspected by New York State Department of Environmental Conservation (NYSDEC) staff on February 3,4 and June 9, 2025. The landfill cover, all drainage swales, and rip-rap was inspected and found to be in good condition. The northern portion of the landfill fence has a significant lean that has become worse over the last few years. Silt fence was found to be exposed outside of the fence line and some fissures were identified along the northeastern ravine side of the landfill. Manholes over former leachate line structures were identified for cover replacement with locking panels. Erosion control failure was identified along Bearoff Property, to be addressed as part of the Bearoff Remedial Action. These identified deficiencies will be addressed by WSP. Yearly mowing of the landfill occurs in October of each year.

The monitoring wells were also inspected and appear to be in good condition. WW-27B has a damaged concrete collar, but NYSDEC and their contractor will continue to inspect this well on an annual basis and repair the collar if needed.

Groundwater sampling activities

Groundwater sampling was performed by NYSDEC's contractor, Wood, in accordance with the site-specific Site Management Plan. Sampling began during the week of February 3, 2021 and NYSDEC performed an inspection of the landfill and sampling activities on February 3,4 and a follow up conditions inspection on June 9, 2025.

During the February 3, 2025 inspection, wells WW-1I, WW-24B, and WW-29 were being sampled with a peristaltic pump. A flow through cell was used during the sampling of all wells to measure dissolved oxygen, oxidation reduction potential, pH, specific conductance, temperature, and turbidity. Groundwater samples were analyzed for TAL metals via EPA Method 6010, hexavalent chromium via EPA Method 7199, and sulfate/fluoride via EPA Method 300. All well purging, sampling, and equipment decontamination was performed in accordance with site's Quality Assurance Project Plan.

Findings/Conclusions

The landfill and its monitoring wells appear to be well maintained and in generally good condition. The concrete collar around WW-27B will continue to be inspected on a yearly basis and repaired if deemed necessary.

The inspection of the landfill did not reveal any deficiencies with the cover, drainage swales, rip rap, or issues with burrowing or nesting animals within the soil cover.

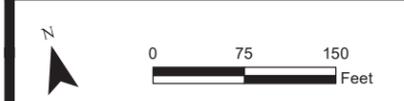
Issues in need of action is the repair of the fence along the northern portion of the landfill, fissures along the ravine, and installation of locking covers. WSP will hire sub contractors to address these issues.

Figures



- Legend**
- ◆ Overburden Monitoring Well
 - ◆ Bedrock Monitoring Well
 - ▼ Surface Water Sample Location
 - Manhole
 - 2 Foot Contour
 - 10 Foot Contour
 - ▭ Building
 - Approximate Consolidated Landfill Area
 - - - Property Line
 - ▬ Paved Road
 - Stream
 - × × Fence Line

Prepared/Date: BRP 02/10/16
 Checked/Date: JMF 02/10/16

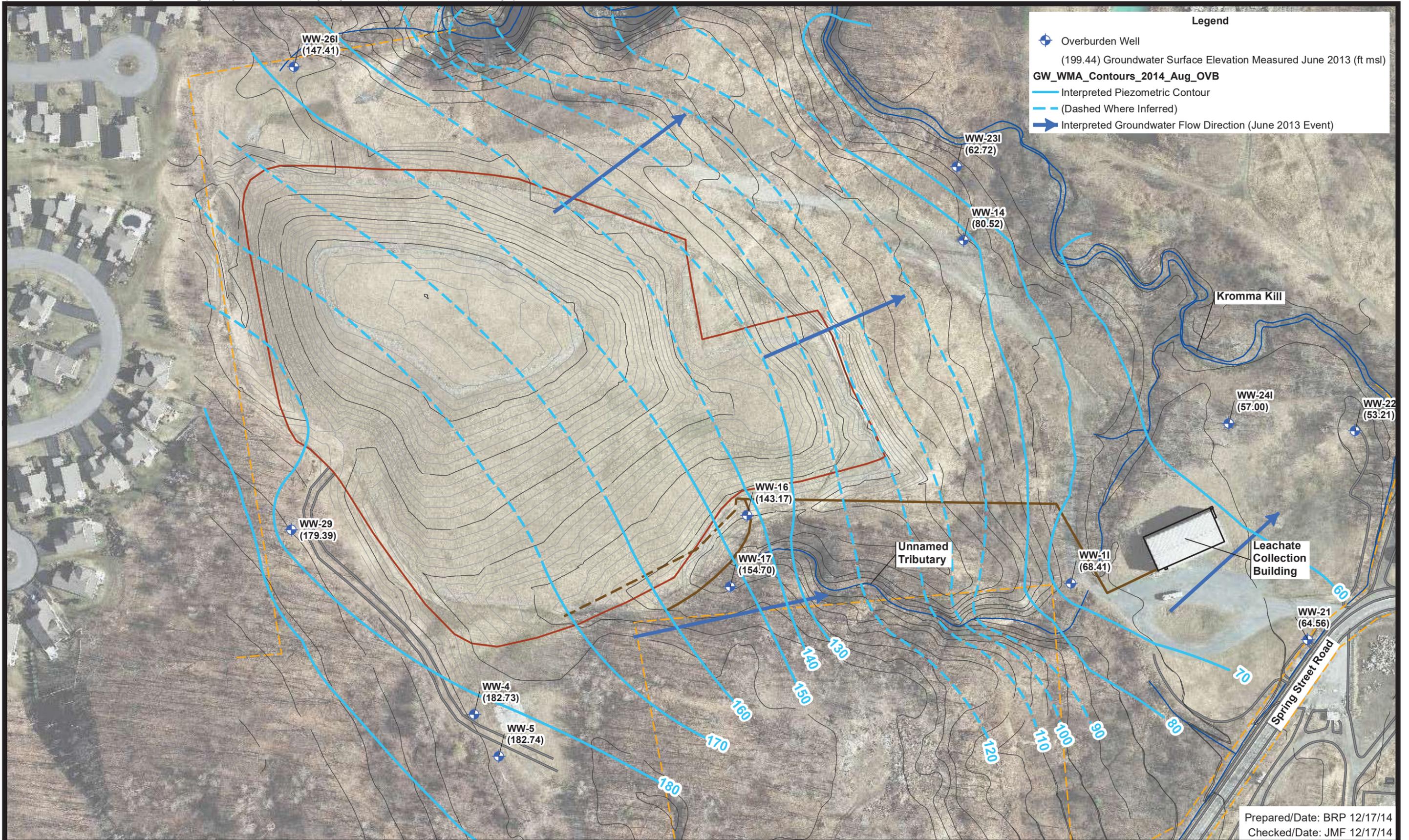


Albany County color digital orthoimagery (2011) obtained from New York State GIS Clearinghouse at: gis.ny.gov

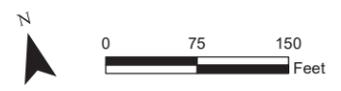
Interim Site Management Plan
 AI Tech Specialty Steel
 Colonie, New York



Waste Management Area
 Site Features
 Project 3612112222
 Figure 2



Prepared/Date: BRP 12/17/14
 Checked/Date: JMF 12/17/14

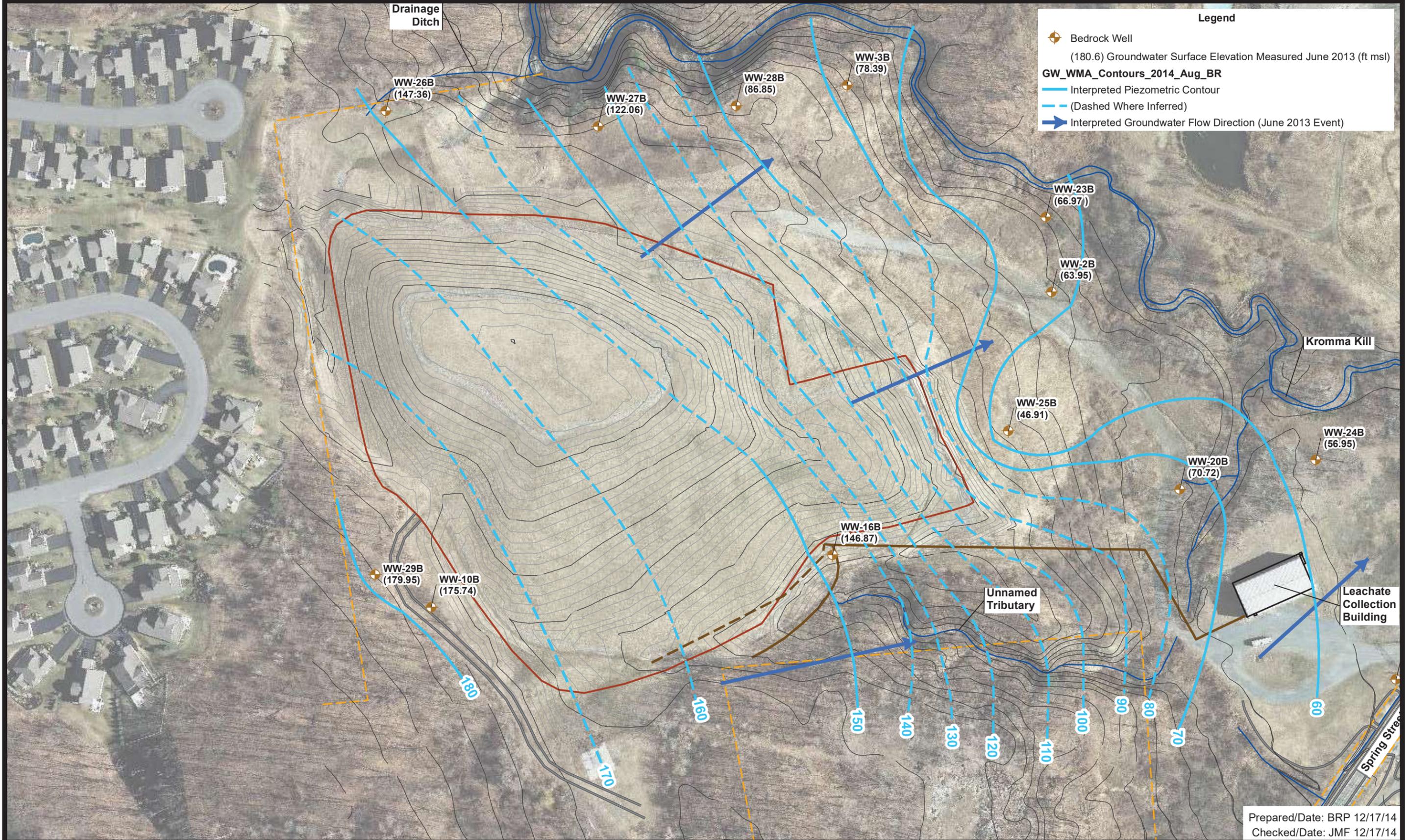


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 AL Tech Specialty Steel WMA
 Colonie, New York



Waste Management Area (2014)
 Potentiometric Surface Map - Overburden
 Project 3612112222
 Figure 3



Legend

- Bedrock Well
- (180.6) Groundwater Surface Elevation Measured June 2013 (ft msl)
- GW_WMA_Contours_2014_Aug_BR**
- Interpreted Piezometric Contour
- (Dashed Where Inferred)
- Interpreted Groundwater Flow Direction (June 2013 Event)

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Waste Management Area (2014)
 Potentiometric Surface Map - Bedrock
 Project 3612112222
 Figure 1.7

Photos

Site Photographs (Descriptions Below)	
	
WW-25B facing southeast	Top of landfill access road facing east towards Kromma Kill, evaluating site conditions and drivability.
	
Trailer in front of leachate building	Vandalized / damaged door on trailer being evaluated.

Comments

Site Photographs (Descriptions Below)



SW-1 Sampling



WW-11



WW-23B



WW-261

Site Photographs (Descriptions Below)



WW-20B



WW-22



WW-22B



WW-27B



MW-29 & MW-29B



SW-9

Figures



Leaning Fence along Eastern WMA Edge



Exposed Silt Fence



Fissures forming on WMA



Failing Erosion Control along Bearoff Boundary



Manhole Cover to be Replaced