Permit Application

Environmental Impact Assessment

White Pine North Project

Volume II

Text, Tables, Figures, Appendices A through B

White Pine Copper LLC

White Pine, Michigan

September 2026

Project I.D.: 23W200

Solving our clients' toughest science and engineering challenges.

Environmental Impact Assessment
White Pine North Project

Project ID: 23W200

Prepared for
White Pine Copper LLC
White Pine, Michigan

Prepared by
Foth Infrastructure & Environment, LLC

September 2026

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Environmental Impact Assessment
White Pine North Project

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List of Abbreviations, Acronyms, and Symbols

AERMOD	American Meteorological Society/Environmental Protection Agency Regulatory Model
amsl	above mean sea level
APE	Area of Potential Effects
Barr	Barr Engineering Michigan, LLC
bgs	below ground surface
BMP	Best Management Practices
CIE	Commission Internationale de l'Éclairage
cm	centimeter
CO	carbon monoxide
CRC	Copper Range Company
DCP	Due Care Plan
dBa	decibel A scale
EIA	Environmental Impact Assessment
EGLE	Michigan Department of Environment, Great Lakes, and Energy
ETSC	endangered, threatened, special concern
FCV	Final Chronic Values
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
Foth	Foth Infrastructure & Environment, LLC
ft	feet/foot
GIS	Geographic Information System
IRAP	Interim Response Activity Plan
kg/ha/yr	kilograms per hectare per year
km	kilometer
LOM	life of mine
m	meter
mm	millimeter
M-64	Michigan Highway 64
mag/arcsec^2	magnitudes per square arc-second
MDNR	Michigan Department of Natural Resources
MET	meteorological
mg/kg	milligram per kilogram
MNFI	Michigan Natural Features Inventory
MPA	Mining Permit Application
NO_2	nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NP1	North Pond 1
NP2	North Pond 2
NPDES	National Pollutant Discharge Elimination System
NREPA	Natural Resources and Environmental Protection Act
P-51	Procedure 51
$PM_{2.5}$	particulate matter less than or equal to 2.5 micrometers
PM_{10}	particulate matter less than or equal to 10 micrometers
Project	White Pine North Project

List of Abbreviations, Acronyms, and Symbols (continued)

RAP	Remedial Action Plan
SESC	Soil Erosion and Sedimentation Control
SGCN	Species of Greatest Conservation Need
TDF	Tailings Disposal Facility
$\mu g/m^3$	micrograms per cubic meter
USGS	United States Geological Survey
VdB	Vibration Decibel
VWP	vibrating wire piezometer
WHPA	Wellhead Protection Areas
WIP	Wetland Identification Program
WPC	White Pine Copper LLC
WPM	White Pine Mine
WPN	White Pine North
WWTP	industrial wastewater treatment plant

1. Introduction

White Pine Copper LLC (WPC) is wholly owned by Kinterra Copper USA LLC. WPC is seeking to develop the brownfield site of White Pine Mine (WPM) located approximately 3 miles south of Lake Superior, east of Michigan Highway M-64 (M-64), in Carp Lake Township, Ontonagon County, Michigan. WPM was part of the Upper Peninsula of Michigan's historical copper mining district. Underground mining on site began in the late 1800s. In 1952, the Copper Range Company began construction of a fully functioning underground mine and surface processing facility, including a concentrator, smelter, and refinery. Tailings were placed in three tailings areas: North Pond 1 (NP1), North Pond 2 (NP2), and South Dam. Mining and processing ceased in 1997, and a State of Michigan Consent Decree was established. WPC is planning to mine underground east of, and separate from, the historic underground mine workings of WPM. Copper ore will be extracted using conventional drill and blast room and pillar mining methods. A processing plant will be constructed on site to produce a copper concentrate, and processing will include crushing, grinding, flotation, concentrate thickening, and filtration. Tailings will be managed by reusing the existing tailings dams. This project, known as the White Pine Copper North Project (WPN or Project), is located as shown on Figure 1-1.

1.1 Checklist

The Environmental Impact Assessment (EIA) addresses specific conditions, features, and issues as outlined in Part 632 Nonferrous Metallic Mining of the Michigan Natural Resources and Environmental Protection Act (NREPA), R 425.202. These requirements are summarized in the EIA Requirements Checklist in Appendix A. EIA sections that address the rule requirements are referenced.

1.2 Professional Qualifications – R 202(1)(d)

This EIA was prepared by Foth Infrastructure & Environment, LLC (Foth) under contract to WPC. This document incorporates information prepared by other qualified professionals working under contract to Foth and WPC. Table 1-1 is a summary of the organizations and individuals who have contributed to the preparation of this EIA.

1.3 Methodologies, Quality Assurance, and Quality Control – R 202(1)(e)(i-ii)

WPC reviewed the baseline studies and proposed methodologies with the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The baseline studies relied upon widely recognized industry standards and practices and were performed by the appropriate professionals in accordance with the expectations set forth in Part 632. Documentation on standards employed for the baseline studies is provided in the individual baseline study reports appended to this EIA.

1.4 Sources of Information Used for the Environmental Impact Assessment – R 202(1)(f)

Sources of information used in the preparation of this EIA are listed in the reference section of the individual baseline reports appended to this EIA.

1.5 Public Input and Other Information – R 425.202(4),(5)

Public input to this Project was solicited as part of WPC's efforts to engage the local community and share information. This included:

- Participation in meetings with local units of government;
- Community Planning Group meetings;
- Outreach to Native American Communities and the Great Lakes Indian Fish & Wildlife Commission;
- Open houses; and
- Other public engagement activities.

Table 1-2 summarizes the public meetings WPN participated in as part of its public engagement process.

2. Summary of Proposed Action and Mining Area

WPN is a stratiform and sediment-hosted deposit with economic grades of copper and silver and is located approximately 3 miles south of Lake Superior, east of M-64, in Carp Lake Township, Ontonagon County, in Michigan's Upper Peninsula. The Project area is in the following Townships, Sections, and Ranges shown on Figure 2-1.

- Township: 50N Range: 42W Sections: 1-4
- Township: 51N Range: 40W Sections: 19, 30, 31
- Township: 51N Range: 41W Sections: 19-36
- Township: 51N Range: 42W Sections: 24, 25, 36

Surface ownership and land status in the vicinity are shown on Figure 2-2. Surface facilities supporting the operation are shown on Figure 2-3 and Figure 2-4. A detailed description of the mining operation is provided in the Mining Permit Application (Foth, 2026a). The following is a summary of the key aspects of the operations, as it relates to the assessment of potential environmental impacts documented in this EIA:

Surface Facilities:

- Administrative Offices
- Crushed Ore Stockpile
- Emergency Vehicle Garage
- Explosives Storage
- Fuel Station
- Guard House
- Intake and Exhaust Raises
- Jaw Crusher
- Laboratory
- Laydown Areas
- Mine Dry/locker room
- Parking Lot
- Portal
- Process Plant
- Substation
- Tailings Storage Facilities
- Temporary Ore Stockpile
- Topsoil Storage
- Truck Wash
- Truck Shop
- Warehouse
- Water Treatment Plant

Mining Method: Underground modified room and pillar without backfill accessed via surface portal.

Ore Processing: Conventional flotation circuit including crushing, grinding, flotation, concentrate thickening, and filtration.

Material Handling: Combination of underground conveyor-based haulage system, underground haul trucks, and surface loaders.

Energy and Utility Infrastructure: WPN will utilize natural gas turbines supplemented by high-voltage grid power.

Site Water Management: Integrates non-contact stormwater, contact water, mine dewatering, and process-water recycling into a unified system for collection, treatment, reuse where feasible, and compliant permitted discharge.

Reclamation and Post-Closure Overview: Includes reflooding underground workings, plugging portals and raises, operating post-closure water treatment, water and biological monitoring, removal of infrastructure/chemicals/ponds, grading and revegetation, and dam monitoring.

Financial Assurance: A surety bond in the amount of $51,552,437 will be provided before construction to cover reclamation costs, environmental monitoring, administrative oversight, and contingencies, in accordance with the mining permit issued by EGLE in accordance with Part 632 of NREPA.

3. Site Conditions and Features – R 202(1)(a)

The environmental resources of the Project area have been comprehensively studied in accordance with the requirements of Part 632. The supporting studies have been appended to this EIA. This section describes the current natural and human-made conditions in the Mining Area and the affected area. The Mining Area has a formal definition, shown below. The affected area also has a formal definition (shown below) that can vary depending on the feature considered, as addressed in each subsection.

Mining Area Definition (MCL §324.63201 (h))

"Mining Area" means an area of land from which earth material is removed in connection with nonferrous metallic mineral mining, the lands on which material from that mining is stored or deposited, the lands on which beneficiating or treatment plants and auxiliary facilities are located, the lands on which the water reservoirs used in the nonferrous metallic mineral mining process are located, and auxiliary lands that are used in connection with the mining.

Affected area (MCL §324.63201 (b))

“Affected area” means an area outside of the Mining Area where the land surface, surface water, groundwater, or air resources are determined through an environmental impact assessment to be potentially affected by mining operations within the proposed Mining Area.

For each feature listed below, the existing baseline condition is described, the mining activity that will or could impact the feature is described, potential impacts are described, and mitigation and monitoring that will be performed are presented. The following list of topics was evaluated per the requirements of R 425.202(2):

- Topography
- Soils
- Geology
- Groundwater – Occurrence and Quality
- Surface Water – Occurrence and Quality
- Water Wells
- Wetlands and Floodplains
- Natural and Wild and Scenic Rivers
- Residential and Community Buildings
- Infrastructure and Utilities
- Public Recreation, Natural Areas, State and Federal Wilderness, Wild and Research Natural Areas
- Land Use, Access, and Land Use Trends
- Aquatic Biota and Habitats
- Terrestrial Biota and Habitats and Ecosystems Evaluation
- Threatened, Endangered Species, and Species of Special Concern
- Invasive Species
- Cultural, Historical, and Archaeological Resources
- Air Quality and Climatology
- Aesthetic Resources (Visual, Noise, Light, Seismicity)

3.1 Topography – R 202(2)(a)

Baseline topography, potential impacts to topography, and mitigation of these impacts are discussed in this section. The affected area is that area within the footprint of the mining activities.

3.1.1 Description of Existing Topography and Drainage Patterns

The existing topography of the Project area is shown on Figure 3-1. The Project area is located within the western Upper Peninsula of Michigan and is characterized by low-relief terrain formed by Late Pleistocene glaciation and subsequent glaciofluvial processes. The landscape is dominated by a broad upland plain with limited topographic variability and numerous wetlands and shallow depressions.

Glacial deposits and associated wetlands influence local topography and drainage throughout the Project area, resulting in gently undulating terrain with localized depressions and low-gradient drainage features.

Ground surface elevations within the Project area generally range from approximately 260 to 290 meters (m) (850 to 950 feet [ft]) above mean sea level (amsl), with the historical WPM area situated at approximately 266 m (873 ft) amsl. Topographic relief across the Project area is limited, with elevation differences typically less than 30 m (98 ft).

Slopes across the Project area are generally gentle, with steeper slopes occurring primarily along stream channels, wetland margins, and historical mining features.

Surface drainage within the Project area is controlled primarily by the gently sloping terrain, wetlands, and glacial deposits, with drainage generally flowing northward toward Lake Superior through tributaries of the Mineral River watershed.

3.1.2 Proposed Mining Activities Affecting Topography and Drainage

Topographic modifications associated with WPN will be limited to areas occupied by proposed surface facilities and supporting infrastructure (Figure 3-2). Limited construction activities consisting of water pipeline rerouting on the east side of NP1 will be required for TDF reuse, otherwise construction will be limited to the previously disturbed industrial area. Principal components requiring localized grading include:

- The soil and topsoil stockpiles;
- Temporary ore stockpile; and
- The mill and associated infrastructure.

3.1.3 Potential Impacts on Topography and Drainage

Because WPN is an underground mining operation, impacts to topography are expected to be localized and generally limited to areas of surface construction. Minor grading will be required for surface facilities, access roads, and supporting infrastructure, much of which will be constructed within areas previously disturbed by historical WPM operations.

Reuse of existing disturbed areas and historical mining infrastructure will minimize the need for extensive topographic modification.

Construction and operation activities may alter natural drainage patterns by:

- Introducing impervious or compacted surfaces;
- Re-grading subtle slopes; and
- Installing ditches, culverts, and stormwater conveyance systems.

3.1.4 Mitigation of Topographic and Drainage Impacts

WPN will implement the Reclamation Plan to minimize temporary and permanent impacts to topography and drainage. Potential impacts to topography and drainage will remain localized to surface facilities and associated infrastructure. The Reclamation Plan will mitigate temporary and long-term impacts to topography through grading, stabilization, and revegetation of disturbed areas. Upon completion of mining and reclamation activities, disturbed landforms will be restored to stable topographic conditions compatible with the surrounding landscape and designed to maintain appropriate surface drainage patterns. The Reclamation Plan is described in more detail in Volume IC of the MPA.

3.2 Soils – R 202(2)(b)

This section presents the assessment of existing soil conditions and potential soil impacts associated with WPN. The following commissioned study supports this section of the EIA:

- Appendix B: Soil Sampling Report (Foth, 2026b)

3.2.1 Existing Soil Conditions in the Project Area

The investigation of soils within the Project area included the collection of shallow soil samples for physical characterization and metals analyses. Surficial soil sampling locations are shown on Figure 3-3. Soil descriptions, analytical methods, quality assurance/quality control procedures, and laboratory results are provided in Appendix B.

Surface soils within the Project area have been influenced by both natural glacial deposition and historical mining-related activities associated with the former WPM. Soil mapping published by the United States Department of Agriculture, Natural Resources Conservation Service, indicates that soils across the Project area are variable and include both native glacial soils and anthropogenic mine spoil. The distribution of mapped soils within the Project area is shown on Figure 3-4.

Much of the White Pine community area is mapped as Udorthents loams with slopes ranging from 0 to 2%. These soils consist primarily of loamy mine spoil fill extending to depths of approximately 2.0 m (80 inches) below ground surface (bgs) and are generally moderately well drained with minimal runoff potential.

Additional prominent soil units within the Project area include the Big Iron-Flintsteel-Gull Point complexes, which consist of varying proportions of somewhat poorly drained fine loamy till, moderately well-drained loamy till, and poorly drained alluvial soils. These soils generally consist of silt loam, loam, sandy loam, and clay loam textures with varying gravel contents and runoff characteristics.

The Main Facilities/Former Mining Operations Area is primarily mapped as “Dumps and Pits, Mine” and Slickens mine spoil fill associated with historical mining and tailings management activities. Areas planned for future mining-related infrastructure include soils mapped as the Big Iron-FlintsteelGull Point complex, the Udorthents-Alfic UdarentsEpiaquents complex, and the

Flintsteel-Watton-Gull Point complex. These soils range from moderately well-drained upland tills to poorly drained organic and alluvial soils associated with wetlands and low-lying areas.

Field observations collected during the 2025 soil sampling program indicate that shallow soils generally consisted of silts and clays with varying percentages of sand, gravel, and organic matter. Organic-rich soils and peat were common in low-lying and wetland areas, while clay-rich fill and mine spoil materials were more common in historically disturbed portions of the site.

3.2.2 Surface Soil Chemistry

A surface soil sampling program was conducted across the Project area to establish baseline metals concentrations in areas associated with both historical mining activity and proposed future mining infrastructure. Surface soil samples were generally collected from 0 to 15 centimeters (cm) (0 to 6 inches) bgs and analyzed for inorganic constituents, including arsenic, barium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, and zinc.

Analytical results are summarized in Table 3-1, and detailed laboratory reports are provided in Appendix B. Analytical data were compared to applicable EGLE screening criteria, including statewide and site-specific background concentrations where appropriate.

In general, most shallow soil samples exhibited metals concentrations within typical background ranges or within ranges associated with historical site conditions. Concentrations of arsenic, chromium, nickel, selenium, and mercury were generally consistent across the sample population and exhibited relatively limited variability.

Localized elevated concentrations of copper, manganese, zinc, lead, and silver were identified in several samples collected within historically disturbed portions of the site, particularly within or adjacent to former mining and processing areas. The highest detected concentrations included approximately 22,000 milligrams per kilogram (mg/kg) copper and 21,000 mg/kg manganese in sample SS-027. Elevated zinc concentrations of up to approximately 460 mg/kg and lead concentrations of up to approximately 390 mg/kg were also identified at isolated locations.

The observed elevated metals concentrations are generally associated with known historical mining activities and legacy mine-related fill materials. These elevated concentrations are localized and do not represent overall site-wide baseline conditions for undisturbed soils within the broader Project area.

3.2.3 Proposed Mining Activities Potentially Affecting Surface Soils

WPN will require the construction and operation of surface and underground infrastructure to support future mining activities. Surface disturbances associated with construction, operation, and reclamation activities will affect soils within the Mining Area. The soil chemistry results discussed above indicate that metals concentrations are generally consistent with historical mining-related conditions within previously disturbed areas. Soil management and material handling activities will therefore be conducted in accordance with applicable industry practices and regulatory requirements.

Structures Requiring Significant Soil Disturbance

Significant soil disturbance will occur during construction of surface facilities and infrastructure associated with future mining operations, including:

- mine portal and associated surface facilities
- intake and exhaust raises
- processing and support facilities
- stormwater management infrastructure
- wastewater treatment systems
- crushed and temporary ore stockpiles
- truck shop/truck wash
- emergency vehicle garage
- wheel wash
- administration building
- mine dry/locker room
- warehouse natural gas turbines
- substation
- shotcrete plant
- explosives storage
- fuel storage
- laydown areas
- haul roads and access roads
- utility corridors

Structures Requiring General Construction Soil Disturbance

Construction activities will include clearing, grading, excavation, fill placement, and soil stockpiling. Historically disturbed mine spoil and tailings-related materials may also be encountered during earthwork activities in portions of the Project area associated with former mining operations.

General construction-related soil disturbance will also occur from the development of foundations, support buildings, offices, maintenance facilities, and utility infrastructure. Topsoil and suitable overburden materials generated during construction activities will be stockpiled on site for future reclamation and revegetation activities where practicable.

3.2.4 Potential Impacts to Soils

Potential impacts to soils associated with Project area activities include:

- soil erosion
- sediment transport
- disturbance of historically impacted materials
- compaction
- loss of vegetative cover

- fugitive dust generation
- localized mixing or redistribution of soil materials during construction and operational activities

Soil erosion resulting from construction and grading activities may increase sediment transport through stormwater runoff if not properly controlled. Potential impacts to soils outside the Mining Area from erosion and sedimentation will be minimal with the implementation of appropriate erosion and sediment control measures.

Construction, operation, and reclamation activities may also generate fugitive dust and particulate matter. A portion of airborne particulates may settle on surrounding soils and vegetation. Potential impacts associated with particulate deposition will be localized and minor.

Disturbance of historically impacted mine spoil and fill materials may temporarily expose soils containing elevated metal concentrations in portions of the former mining operations area. However, these materials will be managed in accordance with applicable engineering controls, material handling procedures, and environmental management plans developed for WPN.

3.2.5 Mitigation of Impacts to Soils

Mitigation measures for soil-related impacts will include:

- Implementation of erosion and sedimentation control Best Management Practices (BMPs) during all construction and soil handling activities.
- Stabilization of disturbed areas through grading, temporary cover, and revegetation.
- Dust suppression measures during construction, operations, and reclamation activities. A Fugitive Dust Control Plan is provided in the Michigan Air Use Permit – Permit to Install (Foth, 2026c).
- Appropriate characterization, segregation, stockpiling, and management of soils and historically disturbed materials.
- Use of designated stormwater management systems to minimize sediment transport.
- Reclamation and revegetation of disturbed areas following completion of mining activities.

Dust suppression and particulate control measures will be implemented in accordance with applicable air permitting requirements and fugitive dust management practices.

Topsoil and suitable overburden materials generated during construction activities will be salvaged and reused where practicable to support reclamation and revegetation efforts. Reclamation activities will restore disturbed areas to stable conditions consistent with the approved reclamation plan and intended post-mining land use.

3.3 Geology – R 202(2)(c)

This section characterizes the geology of the bedrock and unconsolidated deposits within the Mining Area and affected area, including areal extent, thickness, lithology, and permeability, and evaluates the mechanisms by which proposed mining activities could affect geologic

conditions. A bedrock geology map of the region is provided on Figure 3-5, and a representative geologic cross-section of the area of interest is provided on Figure 3-6.

3.3.1 Baseline Conditions

The Project is located on the southern flank of the Midcontinent Rift System, within Keweenawan-age sedimentary rocks of the Oronto Group. Local stratigraphy is dominated by (younging upward) the Copper Harbor Conglomerate, Nonesuch Formation, and Freda Formation. Copper mineralization is stratiform and sediment-hosted within the lower portion of the Nonesuch Formation (the “ore column”) and is predominantly chalcocite with associated native copper.

Unconsolidated deposits overlie bedrock across the site and include glacial and glacio-lacustrine materials. Unconsolidated thickness varies substantially across the broader site area (reported from near zero to several hundred feet in places), with lacustrine clay and clay-rich till common and sandy intervals occurring in the basal portions of the till sequence.

Baseline structural conditions include a major northwest-trending fault system along the western margin of the historic mine area (White Pine Fault), additional thrust and strike-slip faults, and a shallow east-southeast plunging anticline north of the White Pine Fault. In drill core, structural disturbance is commonly expressed as soft-sediment deformation, minor calcite veinlets, and fracture/joint zones rather than thick fault gouge intervals. Local faults can displace the ore interval by tens of meters (Dahrouge, 2026).

Permeability in the geologic setting is controlled primarily by: 1) the permeability of unconsolidated sediments (typically lower where clay-rich); and 2) secondary porosity in bedrock (fractures/joints) that is generally more prevalent near the bedrock surface and within discrete structural zones. Intact bedrock away from fractures is highly consolidated and cemented relative to the shallow fractured zone.

3.3.2 Geology of Bedrock and Unconsolidated Deposits

The Project is situated within rift-related sedimentary rocks of the Oronto Group. The Freda Formation overlies the Nonesuch Formation and consists predominantly of red to red-brown fluvial sandstones with common sedimentary structures (e.g., cross-bedding, ripple marks, turbiditic features) and includes a coarse semi-conglomeratic sandstone lens within the broader Freda section. The Nonesuch Formation consists of interbedded very fine-grained sandstones, siltstones, and carbonaceous shales; the base of the Nonesuch hosts copper mineralization, and only the bottom portion of the Nonesuch (approximately the lower ~20 m) is consistently mineralized at WPN. The Copper Harbor Conglomerate underlies the Nonesuch and is characterized by red-to-brown sandstone with conglomeratic intervals and an upward transition that locally interfingers with the basal Nonesuch.

The bedrock units are laterally persistent across the Project area and regionally dip gently to the northeast. Drilling results reported for the Project indicate an average overburden thickness on the order of several meters (approximately 7 m on average), and average thicknesses on the order of hundreds of meters for the bedrock formations (Freda Formation thickness reported as several hundred meters with significant variability; Nonesuch Formation thickness on the order of ~170 to 200 m).

Unconsolidated deposits in the broader site area are described as glacial and glacio-lacustrine sediments, with lacustrine clay as an upper unit in many locations and clay-rich till common in the subsurface. Sandy and gravelly intervals may occur in basal till materials, particularly near the bedrock contact, and bouldery zones may occur at the base of till.

In general terms, clay-rich lacustrine and till deposits exhibit relatively low permeability compared to sandy basal tills. Bedrock permeability is governed primarily by fracture networks rather than matrix flow; fracture frequency is typically higher near the bedrock surface and can be elevated in fault or joint zones. This permeability structure is relevant to mine design, groundwater monitoring design, and the interpretation of potential migration pathways where fluids contact geologic materials.

3.3.3 Proposed Mining Activities Potentially Affecting Geology

Mining activities that can affect geologic conditions include underground mine development and extraction (drilling, blasting, and excavation), construction of portals/declines and surface facilities, and construction of surface earthworks (e.g., pads, roads, and containment berms) associated with water management. The primary mechanisms by which these activities could affect geology include: 1) removal of rock mass and creation of underground voids that could induce local stress redistribution and deformation; and 2) excavation and earthworks that disturb surficial deposits.

Tailings deposition and associated earthworks in NP1 and NP2 include the construction of internal berms and access causeways and may use borrow material from legacy tailings and other approved sources. These activities are surface disturbances and will be confined to the already disturbed legacy tailings facility footprints.

3.3.4 Potential Impacts on Geology

The primary geologic impacts from underground mining will be localized and associated with excavations and structural zones intersected by mine development. Potential impacts include localized changes in fracture connectivity and permeability in the immediate vicinity of workings, and small-scale structural deformation or rock mass relaxation in areas of extraction. The presence of major structures near the Project area (e.g., the White Pine Fault and associated thrust/strike-slip features) indicates that discontinuities capable of offsetting the ore interval exist; these may influence ground conditions and may require mine design adaptations where encountered (Dahrouge, 2026).

Potential subsidence associated with underground mining was evaluated through numerical modeling of the proposed life of mine (LOM) room-and-pillar mine plan (WSP, 2026). The assessment predicted maximum vertical deflection at the top of bedrock of approximately 6 to 7 millimeters (mm) (0.24 to 0.28 inches), with a conservative upper-bound estimate of less than 1 cm (0.4 inches). Modeled horizontal strain and angular distortion were also substantially below levels typically associated with structural damage. A subsequent evaluation conservatively assumed that up to 2 cm (0.8 inches) of subsidence could propagate to the ground surface and concluded that subsidence presents minimal risk to the tailings disposal facilities and is not expected to damage neighboring surface structures or materially affect domestic or shallow monitoring wells (Tetra Tech, 2026a).

Surface construction and earthworks may disturb unconsolidated deposits through excavation, grading, and fill placement. These impacts will be limited to the footprint of surface

infrastructure and legacy facility modifications. Disturbance of fine-grained sediments can increase erosion susceptibility if not managed, but erosion and sediment control measures are addressed through the Project's erosion and stormwater controls.

Geologic effects can interact with groundwater and surface water pathways through changes in permeability (e.g., the creation or intersection of transmissive fractures) and through contact water generation from disturbed areas. These interactions are evaluated in the groundwater, surface water, and water management sections of the EIA; the geology discussion here provides the physical framework for those analyses.

3.3.5 Mitigation of Impacts to Geology

Mitigation measures for potential geology impacts are implemented through mine design, construction controls, and monitoring. Underground mine design incorporates ground control practices and mine sequencing intended to maintain stability and limit unintended deformation or subsidence; these measures are described in the Mining Plan and associated geotechnical design documentation in the Mining Permit Application (MPA). Where structural zones are identified, mine design and ground support will be adapted to manage local ground conditions and maintain safe operations.

Surface disturbance mitigation includes minimizing the footprint of new disturbance where practicable, using established construction best practices for excavation, and implementing erosion and sediment controls to prevent accelerated erosion of surficial deposits. Where activities occur in legacy tailings facility footprints, earthworks and water management controls are designed to maintain stable landforms and controlled drainage pathways.

Monitoring and adaptive management measures include continued geological and structural data collection during development (e.g., mapping of encountered structures) and integration with the groundwater and surface water monitoring network and response framework. If monitoring identifies unanticipated conditions (e.g., increased seepage associated with a newly intersected structure), operational controls and mitigation measures will be adjusted consistent with approved monitoring and contingency procedures.

Subsidence will also be addressed through operational monitoring and adaptive management. Because the predicted bedrock deflection is on the mm scale and is dependent on maintaining stable pillar cores, WSP (2026) recommends monitoring pillar performance during mining rather than relying on surface monitoring methods that may not reliably distinguish the predicted deflection from natural seasonal ground surface variation. If pillar behavior deviates from design expectations, mine sequencing, extraction ratios, ground support, or other engineering controls may be adjusted to maintain pillar stability. In addition, settlement monuments will be installed on tailings disposal facility embankments and native ground and monitored in accordance with the facility Operation, Maintenance, and Surveillance Manual and associated Trigger Action Response Plan (Tetra Tech, 2026a). Trigger levels will provide for increased monitoring, inspection, and other engineered responses if unexpected settlement is observed.

3.4 Groundwater – R 202(2)(d),(g),(h)

This section describes the regional and site-specific hydrogeologic setting of WPN, including groundwater occurrence, groundwater flow conditions, hydrostratigraphic characteristics, groundwater quality, groundwater modeling, and groundwater management associated with proposed mining activities. The following commissioned studies support this section of the EIA:

- Appendix C-1: Groundwater and Surface Water Hydrology Baseline Report (Foth, 2026d)
- Appendix C-2: Deep Bedrock Hydrogeology (Foth, 2026e)
- Appendix C-3: Groundwater Modeling Report Pre-Feasibility Study Report (Tetra Tech, 2026b)
- Appendix C-4: GoldSim Model Construction Memorandum (Foth, 2026f) GoldSim Years 1-11 Legacy Outfall Model Construction Memorandum (Foth, 2026g)

3.4.1 Regional Hydrogeologic Setting

WPN is located within the western Upper Peninsula of Michigan in the Lake Superior copper district and within the Midcontinent Rift System. The regional bedrock sequence consists primarily of Keweenawan Supergroup sedimentary and volcanic rocks, including the Freda Sandstone, Nonesuch Formation, and Copper Harbor Conglomerate. The regional bedrock geologic setting is shown on Figure 3-5.

The stratiform copper mineralization associated with WPN occurs within the Nonesuch Formation. A conceptual regional geologic cross-section illustrating the principal stratigraphic and hydrogeologic units is presented on Figure 3-6.

The Project area is underlain by unconsolidated Quaternary glacial deposits overlying sedimentary bedrock units of the Oronto Group. Glacial materials generally consist of till, glaciofluvial deposits, lacustrine deposits, peat, and anthropogenic fill associated with historical mining operations. Bedrock units dip generally northward toward Lake Superior.

Regional groundwater flow in unconsolidated materials generally follows topography. Groundwater flow within bedrock is influenced by lithology, fracture occurrence, bedding planes, and depth-dependent hydraulic conductivity.

3.4.2 Site Hydrostratigraphy

Hydrogeologic investigations conducted within the Project area included reviewing historical data, installing and monitoring groundwater wells and vibrating wire piezometers (VWPs), conducting hydraulic testing, performing hydrophysical logging, and evaluating groundwater chemistry. Baseline groundwater monitoring locations are shown on Figure 3-7.

Based on available hydrogeologic data, groundwater occurrence beneath the Project area can generally be categorized into two flow system-based hydrostratigraphic units:

- Shallow Hydrostratigraphic Unit
- Deep Hydrostratigraphic Unit

A conceptual hydrostratigraphic framework for the Project area is presented on Figure 3-8.

The Shallow Hydrostratigraphic Unit is the most prominent groundwater occurrence beneath the Project area and extends through both unconsolidated overburden sediments and the upper fractured portion of the underlying Precambrian bedrock. Groundwater within unconsolidated deposits generally occurs under unconfined to partially confined conditions, whereas groundwater within shallow bedrock occurs primarily within fractures, bedding planes, weathered intervals, and other secondary permeability features. Recharge to the Shallow

Hydrostratigraphic Unit occurs primarily through infiltration of precipitation and snowmelt, and discharge occurs through evapotranspiration, groundwater discharge to streams and wetlands, and ultimately to Lake Superior.

The Deep Hydrostratigraphic Unit consists of confined groundwater occurring within infrequent secondary permeability features in deeper Precambrian bedrock units. Hydraulic testing, hydrophysical logging, and groundwater chemistry data indicate that groundwater within the Deep Hydrostratigraphic Unit generally exhibits substantially lower hydraulic conductivity and more mineralized conditions than groundwater within the Shallow Hydrostratigraphic Unit. Groundwater within the Deep Hydrostratigraphic Unit is generally brackish to saline and exhibits limited hydraulic connectivity relative to shallow groundwater systems.

Available hydrogeologic data indicate that groundwater movement within the Deep Hydrostratigraphic Unit occurs over substantially longer time scales than within the Shallow Hydrostratigraphic Unit. The two hydrostratigraphic units are considered partially hydraulically separated due to decreasing fracture frequency, decreasing hydraulic conductivity, and distinct groundwater geochemical conditions with depth.

3.4.3 Groundwater Occurrence and Flow

Groundwater occurs within both unconsolidated overburden materials and fractured bedrock beneath the Project area. Shallow groundwater levels generally reflect local topography and surface water drainage patterns. Recharge occurs primarily through infiltration of precipitation and snowmelt.

Groundwater within the Shallow Hydrostratigraphic Unit occurs within both unconsolidated overburden sediments and the upper fractured portion of the underlying Precambrian bedrock. Groundwater elevation contours for the Shallow Hydrostratigraphic Unit are shown on Figure 3-9. Groundwater flow within this hydrostratigraphic unit generally follows local topography. Groundwater elevations and inferred potentiometric surfaces indicate localized hydraulic interaction between groundwater and surface water throughout portions of the Project area.

Hydraulic testing and hydrophysical logging data indicate that groundwater flow within shallow bedrock is primarily controlled by fractures, bedding planes, and localized transmissive zones. Groundwater movement within unconsolidated deposits and upper fractured bedrock is substantially greater than groundwater movement within deeper bedrock intervals.

Groundwater within the Deep Hydrostratigraphic Unit occurs within deeper portions of the Precambrian bedrock sequence. Hydraulic testing, packer testing, and hydrophysical logging results indicate that hydraulic conductivity generally decreases substantially with depth due to decreasing fracture frequency, reduced fracture connectivity, and increased confinement within deeper bedrock intervals.

Hydrophysical logging data indicate that fluid electrical conductivity generally increases with depth, reflecting a transition from freshwater conditions within the Shallow Hydrostratigraphic Unit to brackish and saline groundwater conditions within the Deep Hydrostratigraphic Unit. Ambient flow logging results indicate limited groundwater movement in portions of the Lower Hydrostratigraphic Unit compared with the overlying shallow groundwater system.

The available hydrogeologic data indicate that the Shallow and Deep Hydrostratigraphic Units are partially hydraulically separated. Groundwater movement within the Deep Hydrostratigraphic Unit is substantially slower and more regionally confined than groundwater movement within the Shallow Hydrostratigraphic Unit. Discharge from the Deep Hydrostratigraphic Unit is interpreted to occur primarily beneath and approaching the Lake Superior shoreline over long time scales.

3.4.4 Baseline Groundwater Quality

Baseline groundwater quality characterization was conducted using groundwater monitoring wells, piezometers, and hydrophysical logging methods. The groundwater measurement and sampling schedule used during baseline studies is summarized in Table 3-2.

Groundwater analytical programs included field parameters, major ions and general chemistry, dissolved metals, total recoverable metals, and other groundwater quality constituents. Groundwater analytes evaluated during environmental baseline studies are summarized in Table 3-3.

A summary of baseline groundwater quality data is provided in Tables 3-4a through 3-4d. Tables 3-4a through 3-4d summarize field parameters, major ions and general chemistry, dissolved metals, and total recoverable metals by hydrostratigraphic unit using descriptive statistics derived from the baseline groundwater monitoring program. Additional groundwater analytical results are provided in Appendix C-1 and Appendix C-2.

Groundwater Quality Data Summary

Groundwater quality data collected during baseline investigations indicate that groundwater quality varies among hydrostratigraphic units and is influenced by depth, groundwater residence time, and proximity to historical mining features.

Groundwater within the Shallow Hydrostratigraphic Unit generally exhibits freshwater conditions, characterized by relatively low electrical conductivity, low total dissolved solids, and calcium-bicarbonate water chemistry. Groundwater chemistry within these units is influenced by local recharge, wetlands, surface water interaction, glacial deposits, and shallow bedrock fracture flow.

Groundwater within the Deep Hydrostratigraphic Unit exhibits elevated electrical conductivity, dissolved solids concentrations, and major ion concentrations, and is brackish to saline relative to shallower groundwater systems. These groundwater quality characteristics are interpreted to represent naturally occurring mineralized groundwater associated with deeper bedrock formations and longer groundwater residence times.

Localized impacts on groundwater quality associated with historical mining operations and tailings management activities are present in portions of the former WPM property and in surrounding historically disturbed areas. Historical groundwater conditions are currently managed under applicable regulatory programs and in accordance with the requirements of the historical Consent Decree.

Known Occurrence of Contaminated Groundwater R425.202 (2)(h)

Historical mining, mineral processing, and tailings management activities associated with the former WPM have resulted in known historical groundwater impacts within portions of the historical mining operations area. Historical groundwater conditions associated with former mining activities have been investigated under prior environmental investigations and are subject to existing regulatory oversight and management requirements.

Based on the available baseline groundwater investigations completed for WPN, no previously unidentified occurrence of contaminated groundwater has been identified outside areas associated with known historical mining and processing activities. Groundwater quality conditions observed during baseline investigations are generally consistent with existing historical site conditions, naturally occurring geochemical conditions, and previously documented groundwater quality characteristics associated with the former WPM property.

Groundwater monitoring and groundwater quality evaluations will continue throughout Project development, operations, closure, and post-closure in accordance with applicable regulatory requirements and environmental monitoring programs.

3.4.5 Groundwater Modeling

A numerical groundwater flow model was developed to evaluate groundwater flow conditions and potential hydrogeologic effects associated with WPN.

The groundwater model was used to evaluate:

- groundwater inflow to underground mine workings;
- groundwater drawdown associated with mine development;
- groundwater and surface water interaction;
- groundwater flow within overburden and bedrock units; and
- potential hydrogeologic effects associated with mining activities.

The predicted mine inflows versus time are shown on Figure 3-10. Model results indicate that groundwater inflow to underground mine workings is expected to occur primarily through fractured bedrock intervals and transmissive zones associated with the Shallow Hydrostratigraphic Unit. Groundwater inflows are expected to decrease with depth due to lower hydraulic conductivity conditions within deeper bedrock intervals.

Predicted groundwater drawdown associated with underground mining is primarily concentrated within the Deep Hydrostratigraphic Unit, is greatest near active underground workings, and is expected to decrease with distance from mining areas.

Additional groundwater modeling assumptions, calibration information, sensitivity evaluations, and predictive simulations are provided in Appendix C-3.

3.4.6 Mine Dewatering and Water Management

Operational activities associated with WPN will require active groundwater and contact water management throughout the LOM.

The preliminary water management system design includes:

- contact water collection systems;
- process plant contact water sumps;
- contact water ponds;
- non-contact water management ponds;
- stormwater conveyance systems;
- pumping systems; and
- routing of contact water to tailings management facilities and treatment systems.

Operational water management and water balance evaluations were completed as part of the preliminary water management system design and supporting GoldSim modeling. These evaluations were developed to support sizing of water management infrastructure, contact water management facilities, pumping requirements, stormwater controls, and operational water routing throughout the LOM.

Potential environmental effects associated with mine dewatering were evaluated through the groundwater flow model described in Appendix C-3. Predictive groundwater modeling simulations indicate that groundwater drawdown associated with underground mining is primarily concentrated within the Deep Hydrostratigraphic Unit, with limited influence on the Shallow Hydrostratigraphic Unit that supports most streams, wetlands, and other surface water features within the Project area.

Additional predictive simulations evaluated the potential effects of underground mining on surface water systems. Modeling results indicate minimal changes in surface water discharge, including an approximate 5% reduction in discharge to the Mineral River and less than 1% change in discharge to all other modeled streams. Streams and adjacent wetlands within the Project area are sustained primarily by surface water runoff processes, with limited and often intermittent groundwater contributions.

Because mine dewatering primarily affects the Deep Hydrostratigraphic Unit and modeled changes in shallow groundwater discharge are minimal, underground mining will not measurably affect stream, wetland, or regional surface water hydrology. Groundwater modeling results, therefore, indicate that hydrologic effects associated with mine dewatering will remain localized and not result in regional-scale impacts on groundwater-dependent surface water resources.

3.4.7 Proposed Mining Activities and Potential Impacts Affecting Groundwater Occurrence

Potential impacts to groundwater occurrence associated with WPN may include:

- temporary or localized groundwater drawdown;
- changes in groundwater flow direction near underground workings;
- changes in groundwater recharge and discharge patterns;
- localized changes in groundwater gradients;
- reduction in groundwater elevations near mine workings; and
- and localized changes in groundwater-surface water interactions.

Groundwater drawdown associated with underground mining activities will occur primarily within fractured bedrock units adjacent to active underground workings. Groundwater modeling indicates that drawdown effects are expected to be greatest near mine development areas and are expected to decrease with distance from underground workings.

Potential impacts on groundwater occurrence within the Shallow Hydrostratigraphic Unit will be limited and localized, given the relatively low hydraulic connectivity between shallow groundwater systems and deeper underground mine workings. Available hydrogeologic data indicate that hydraulic conductivity generally decreases with depth and that shallow and deep groundwater systems are partially hydraulically separated.

Groundwater inflows into underground mine workings will primarily occur through fractures, bedding planes, and localized transmissive zones within the Shallow Hydrostratigraphic Unit. Groundwater inflow rates are expected to decrease with depth due to lower hydraulic conductivity conditions within the Deep Hydrostratigraphic Unit.

Minimal localized changes in groundwater discharge to wetlands, streams, or surface water features may occur in areas immediately adjacent to underground mine workings or dewatered bedrock zones. However, groundwater modeling indicates that impacts from mine dewatering will be localized to the Deep Hydrostratigraphic Unit.

3.4.8 Proposed Mining Activities and Potential Impacts Affecting Groundwater Quality

Potential impacts to groundwater quality associated with WPN may include:

- disturbance of historically impacted groundwater conditions;
- migration of contact water or process-related water;
- seepage from operational water management facilities;
- groundwater quality changes associated with mine dewatering activities;
- changes in groundwater geochemistry associated with groundwater level fluctuations; and
- potential post-closure groundwater quality impacts.

Construction and operational activities involving contact water, process water, mine water, and stormwater management systems may present potential pathways for groundwater quality impacts if not properly controlled. Historically impacted groundwater conditions associated with former mining operations and tailings management areas may also be encountered during construction and operational activities.

Groundwater quality impacts associated with underground mine workings will be influenced by the hydrogeologic characteristics of the Deep Hydrostratigraphic Unit, including relatively low hydraulic conductivity conditions and naturally mineralized groundwater chemistry. Deep bedrock groundwater in portions of the Project area currently exhibits elevated dissolved solids concentrations and brackish-to-saline conditions relative to shallow groundwater systems.

Potential groundwater quality impacts associated with WPN will be minimized through the implementation of engineered containment systems, contact water management systems, operational controls, groundwater monitoring programs, and applicable environmental management plans, including the water treatment plant and approved National Pollutant Discharge Elimination System (NPDES) permit.

3.4.9 Mitigation of Groundwater Impacts

Mitigation measures for groundwater protection will include:

- implementation of engineered contact water containment systems;
- separation of contact and non-contact water management systems;
- use of lined contact water ponds and sumps;
- implementation of stormwater management BMPs;
- groundwater monitoring during construction, operations, closure, and post-closure periods;
- management of mine water and contact water in accordance with applicable permits and regulatory requirements;
- implementation of reclamation and closure measures designed to minimize long-term groundwater impacts; and
- operational monitoring and maintenance of water management infrastructure.

Groundwater monitoring programs will continue throughout the LOM and post-closure periods to evaluate groundwater elevations, groundwater quality, and the groundwater system's response to mining activities. Monitoring programs will include groundwater elevations, groundwater chemistry, evaluations of hydraulic response, and monitoring of operational water management systems.

Contact water generated within operational areas will be collected and managed within engineered water management systems designed to minimize seepage and uncontrolled releases to groundwater or surface water systems. Non-contact water management systems will be maintained separately from contact water systems to minimize potential impacts on groundwater quality.

Closure and post-closure groundwater management measures will include continued monitoring, maintenance of long-term stormwater controls, evaluation of groundwater rebound conditions, and implementation of closure water management measures as necessary to maintain compliance with applicable regulatory requirements.

3.5 Surface Water – R 202(2)(e),(f),(g)

This section describes existing surface water conditions in the Project area, including occurrence, hydrology, and quality. This section also evaluates potential impacts to surface water resources associated with WPN and summarizes proposed mitigation measures. The following commissioned studies support this section of the EIA:

- Appendix C-1: Groundwater and Surface Water Hydrology Baseline Report (Foth, 2026d),
- Appendix C-4: GoldSim Model Construction Memorandum (Foth, 2026f) GoldSim Years 1-11 Legacy Outfall Model Construction Memorandum (Foth, 2026g)

3.5.1 Surface Water Occurrence

The Project area lies within the Ontonagon High Clay Plain, a glacial lake-bed feature characterized by relatively low topographic relief, abundant wetlands, poorly drained soils, and numerous incised low-sinuosity stream channels. The Project area is heavily forested and contains numerous small streams and wetlands that drain northward toward Lake Superior.

The surficial drainage systems across the Project area are part of the Lake Superior watershed. Watersheds surrounding the Project area cover an area of approximately 235 square kilometers (90.7 square miles) and are composed primarily of small streams flowing directly into Lake Superior. Project area watersheds are shown on Figure 3-11, and Project area subwatersheds are shown on Figure 3-12.

The Big Iron River and Mineral River are the largest river systems located west of the proposed WPN surface extent and west of the historical WPM workings. The Cranberry River and Potato River are the largest river systems located east of WPN. Between these larger watersheds, numerous small streams flow generally south to north across the Project area from higher ground to the south toward Lake Superior.

At least 14 named streams occur within or adjacent to the Project area, including Native Creek, Patent Creek, Miles Creek, Stony Creek, Caribou Creek, Pine Creek, West Branch Duck Creek, East Branch Duck Creek, Duck Creek, Tolfrey Creek, Argentine Creek, Halfway Creek, Townline Creek, and Little Cranberry River.

Regionally, three United States Geological Survey (USGS) stream gaging stations were identified and evaluated as part of baseline hydrologic investigations:

- Mineral River downstream of Native Creek near Silver City, Michigan (USGS Station 040325155);
- West Branch Ontonagon River near Bergland, Michigan (USGS Station 04036000); and
- Ontonagon River near Rockland, Michigan (USGS Station 04040000).

Stream flow and stage measurements were collected at up to 21 locations during baseline investigations. Surface water monitoring stations and stream gage locations are shown on Figure 3-13.

Flow in streams across the Project area is generally flashy and strongly influenced by precipitation and snowmelt. Baseflow contributions from groundwater appear limited within many Project area streams, particularly during drier portions of the year. Stream flow conditions, therefore, exhibit substantial seasonal variability associated with spring snowmelt, storm events, and seasonal precipitation patterns.

Baseline Study

Baseline surface water investigations were completed within the Project area to address the baseline data requirements specified under R 425.202(2)(e), including:

- observed water elevations and discharge rates; and
- prediction of seasonal and long-term variations in water elevations and discharge rates.

The baseline monitoring network shown on Figure 3-13 includes monitoring locations associated with rivers, creeks, tributaries, wetlands, ponds, and other surface water features within and adjacent to the Project area.

3.5.2 Surface Water Quality

Surface water quality investigations were conducted to establish baseline conditions within the Project area. Surface water sampling locations are shown on Figure 3-13.

The surface water sampling schedule used during baseline investigations is summarized in Table 3-5. Surface water analytes evaluated during environmental baseline studies are summarized in Table 3-6. A summary of baseline surface water quality data is provided in Tables 3-7a through 3-7d. Tables 3-7a through 3-7d summarize field parameters, major ions and general chemistry, dissolved metals, and total recoverable metals for stream and non-stream sampling locations using descriptive statistics derived from the baseline surface water monitoring program. Additional surface water analytical results are provided in Appendix C-1.

Surface water analytical programs included:

- specific conductance
- temperature
- pH
- dissolved oxygen
- major cations
- major anions
- inorganic constituents
- bioaccumulative substances
- radionuclides

Surface Water Monitoring and Data Collection

Quarterly surface water quality monitoring events were completed at surface water monitoring stations distributed throughout the Project area. Surface water analytical results and supporting field data are presented in Appendix C-1.

Surface water chemistry evaluations included review of major ion chemistry, field parameters, and selected trace constituents. Piper and Stiff diagrams were used to characterize general surface water chemistry and evaluate spatial variability within the Project area.

Surface Water Quality Data Summary

Surface water quality within the Project area generally reflects dilute freshwater conditions associated with forested watersheds, wetlands, glacial deposits, and low dissolved solids surface water systems typical of the western Upper Peninsula of Michigan.

Surface water quality variability within the Project area is influenced by:

- seasonal runoff conditions
- wetlands interaction
- stream flow variability
- local geology and soils
- historical mining-related features

Localized surface water quality influences associated with historical mining activities, historical tailings management, and existing historical site conditions are present within portions of the former WPM property and adjacent historically disturbed areas.

3.5.3 Proposed Mining Activities and Potential Impacts Affecting Surface Water Occurrence

Construction and operation of WPN will require localized modifications to existing surface drainage within areas occupied by proposed mine facilities and supporting infrastructure. Surface water management systems have been designed to maintain existing watershed drainage patterns to the extent practicable while safely conveying runoff and managing operational water.

Operational water management systems associated with WPN will include:

- contact water collection systems
- non-contact water management systems
- stormwater conveyance systems
- contact water ponds
- non-contact water ponds
- pumping systems
- controlled discharge systems

Site-wide water balance evaluations and GoldSim simulations were completed to support the design and sizing of contact water, non-contact stormwater, and associated water management infrastructure throughout the LOM.

The configuration of surface water management systems will evolve throughout the life of WPN as facilities are constructed, operated, closed, and reclaimed. Figures 3-14 through 3-17 illustrate the progression of surface water management from construction through post-closure, including the phased use of contact and non-contact water management features, stormwater conveyance systems, and water treatment infrastructure. Together, these figures demonstrate how water management will be maintained as site conditions change, with contact water remaining within the appropriate collection, reuse, treatment, and discharge systems until applicable water quality requirements are achieved and long-term non-contact drainage conditions are established.

Water management and reclamation will occur progressively throughout construction, operations, closure, and post-closure. During construction, stormwater management facilities, including grading, drainage ditches, detention basins, and erosion and sedimentation controls, will be established as site development occurs. Disturbed areas that are no longer required for construction or operations will be graded, stabilized, and revegetated progressively to reduce runoff and sediment transport.

During operations, contact water will be separated from non-contact stormwater and directed to the appropriate systems for collection, storage, reuse, treatment, and discharge. Contact water ponds will receive and manage contact water generated within operational areas, while non-contact water management systems will convey stormwater that has not come into contact with mining-related materials. Water collected within the Tailings Disposal Facility (TDF) will be managed as contact water and either treated at the industrial wastewater treatment plant (WWTP) or reused as reclaim water in the processing plant.

The water management system will remain in operation as necessary during closure. Following cessation of mining, contact water ponds associated with the TDF and other operational areas will continue to collect and manage contact water. The WWTP and associated conveyance and discharge infrastructure will remain operational throughout the closure period to treat water from contact water ponds and tailings facilities. As individual contact water ponds achieve applicable water quality standards, they will be transitioned to non-contact stormwater management features. Liners and other infrastructure associated with contact water management will be removed as appropriate, and the basins and associated drainage systems will be modified to provide long-term non-contact stormwater conveyance. Non-contact water ponds and drainageways required for long-term surface water management will remain following reclamation.

This phased approach provides continuity of water management from initial site disturbance through reclamation and post-closure. Contact water will remain within the contact water management and treatment system until applicable water quality requirements are achieved, while non-contact stormwater will be managed separately and conveyed through the site drainage system.

Potential environmental effects on streams, wetlands, and other surface water resources were evaluated through the groundwater model described in Appendix C-3. Model results indicate minimal changes in streamflow, including an approximately 5% reduction in discharge to the Mineral River and less than a 1% change for all other modeled streams. Because mine dewatering primarily affects the Deep Hydrostratigraphic Unit and produces minimal changes in shallow groundwater discharge, impacts to surface water occurrence will remain localized and will not measurably affect regional surface water hydrology.

3.5.4 Proposed Mining Activities and Potential Impacts Affecting Surface Water Quality

Potential impacts to surface water quality associated with WPN may include:

- temporary sedimentation and erosion during construction activities;
- management of contact water generated during mining operations;
- stormwater runoff associated with surface facilities; and
- long-term water quality protection during operations, closure, and post-closure.

Construction activities may temporarily increase erosion and sediment transport if not properly controlled. These potential impacts will be managed through the implementation of the Soil Erosion and Sedimentation Control (SESC) Plan and stormwater BMPs. Erosion and sedimentation controls will be maintained as necessary throughout construction, operations, and reclamation, and disturbed areas will be progressively stabilized and revegetated.

Operational water management systems associated with WPN will separate contact water from non-contact stormwater. Contact water will be collected, conveyed, stored, reused, or treated as appropriate, and managed in accordance with the Contact Water Management Plan and applicable permit requirements to minimize potential impacts to receiving waters. Non-contact stormwater will be managed separately through drainage, conveyance, detention, and discharge systems designed to minimize erosion and sediment transport.

This separation and controlled management of contact and non-contact water will continue through closure. Contact water ponds and the WWTP will remain operational following

cessation of mining for as long as necessary to manage and treat contact water. Contact water management features will transition to non-contact stormwater management only after applicable water quality standards are achieved. Long-term stormwater conveyance features will remain following reclamation to maintain stable site drainage.

Historically impacted surface water quality conditions associated with former mining operations and historical tailings management activities may also influence portions of the Project area.

Long-term protection of surface water quality will be supported through implementation of the Contact Water Management Plan, Non-Contact Stormwater Management Plan, groundwater monitoring, surface water monitoring, and adaptive water management throughout operations, closure, and post-closure. Surface water monitoring will continue during the post-closure period to evaluate water quality and hydrologic conditions and verify the effectiveness of reclamation and water management measures.

3.5.5 Mitigation of Potential Impacts to Surface Water Occurrence and Quality

Potential impacts to surface water occurrence and quality will be minimized through engineering design, operational controls, implementation of approved management plans, and compliance with applicable permit requirements. Principal mitigation measures include:

- implementation of the SESC Plan;
- implementation of the Non-Contact Stormwater Management Plan;
- implementation of the Contact Water Management Plan;
- separation of contact and non-contact water systems;
- collection, reuse, treatment, and controlled discharge of contact water;
- continued operation of contact water management and treatment systems through closure as necessary to achieve applicable water quality requirements;
- erosion and sedimentation controls;
- lined contact water ponds and sumps;
- surface water monitoring; and
- progressive reclamation and revegetation.

Stormwater management systems have been designed to maintain existing drainage patterns where practicable, control runoff, minimize erosion and sediment transport, and provide controlled discharge in accordance with the NPDES permit and associated management plans. As reclamation progresses, temporary operational water management features will be removed or converted to long-term non-contact stormwater management features when they are no longer required for contact water management.

Surface water monitoring will continue throughout the LOM and post-closure periods to verify compliance with permit requirements, evaluate watershed responses to mining activities, and confirm the effectiveness of water management and reclamation measures.

3.6 Part 201 Facility Status – R 425.202 (2)(h)

3.6.1 Summary and Status of Consent Decree

WPM ceased operation in 1995 and has been the subject of an extensive remediation program outlined in the October 1997 judicial Consent Decree and Remedial Action Plan (RAP) agreements between the Copper Range Company (CRC) and the State of Michigan. The entire surface area overlying the underground mine, along with the associated surface components area and tailings impoundments, is listed as a "facility" under Part 201, Environmental Remediation, of Michigan's Public Act 451 of 1994, as amended, the NREPA.

The Consent Decree issued to CRC has a stipulated order for assignment and assumption of the Consent Decree dated July 2021, prompted by WPC's interest in the property. The order notes long-term obligations for operations, monitoring, maintenance, and financial assurance that were part of a transaction enabling WPC to use the property. The environmental response activities are being implemented through Interim Response Activity Plans (IRAPs) and a RAP approved by the EGLE (formerly Michigan Department of Environmental Quality) on October 13, 2005. Extensive remedial actions have occurred to address identified impacts and recognized environmental conditions. The environmental response activities have been largely completed. However, ongoing responsibilities and liabilities remain, including the administrative closure of previously completed remedial actions and routine monitoring and maintenance activities. These ongoing responsibilities and obligations include:

- Consent Decree Actions in which WPC has submitted a draft report to EGLE that is currently under review for Administrative Close-out:
  - Complete delineation testing and any required removal of sediments from Portal Creek.
  - Complete delineation testing and any required removal of sediments from the South Diversion Ditch.
  - Revegetation activities, including augmentation as necessary of NP1 Tailings Basin, each year until the effective cover and long-term sustainability components of the performance standard are achieved.
  - Revegetation activities, including, as necessary, augmentation of the NP2 Tailings Basin each year until the effective cover component and the long-term sustainability components of the performance standard are achieved.
  - Re-vegetation activities, including augmentation as necessary, of Cyclone Sands on the external slopes of the NP2 Tailings Basin each year until the effective cover and long-term sustainability components of the performance standard are achieved.
  - IRAP October 1998 Includes capping/revegetation of South Dam.
  - Filing to remove existing groundwater restrictive covenants in areas for which they are no longer applicable or notice to landowners of the process for such removal.
  - Underground Mine Closure Plan Partial Certification – closeout 3 of 4 requirements of the closure plan, including general cleanup of the underground workings,

neutralization of solutions from the solution mining project, and underground bulkhead construction.

- Open and Ongoing Actions Required Under the Consent Decree:
  - Implementation of the final element of the Underground Mine Closure Plan – migration of brine inflow (i.e., mine flooding), or modification of the closure plan.
  - Complete removal of slag pile(s) or installation of an engineered barrier in the Slag Pile Area.
  - Ongoing RAP groundwater monitoring program and reporting.
  - Routine RAP inspections, maintenance, and annual reporting.

Part 201 of NREPA requires that certain "due care" obligations be satisfied in connection with activities on a property that is a "facility" as defined therein. WPC has in place a Section 7a Compliance Analysis or "Due Care Plan" (DCP) that addresses due care obligations applicable to WPC's ownership of and activities on these parcels. The DCP also identifies where additional assessment, potential due care response activities, and other site management considerations may be warranted. WPC has been conducting additional assessments and implementing due care measures in accordance with the DCP. As planned activities or conditions change, or if previously unknown contamination is discovered, the DCP will be updated, and due care response activities will be implemented as warranted.

3.7 Water Wells – Private, Public, Irrigation, and Designated Wellhead Protection Areas – R 202(2)(i),(j),(k),(l)

This section describes existing water supply wells, mineral wells, and designated Wellhead Protection Areas (WHPAs) located within the vicinity of WPN. Well locations were identified using the EGLE Wellogic Geographic Information System (GIS) datasets for Type I (Community Public Water Supply) and Type II (Non-Community Public Water Supply) wells, together with the EGLE Water Well Viewer database for private water supply wells. Locations of permitted Part 625 mineral wells were obtained from Project survey information.

3.7.1 Existing Wells in Potentially Affected Area

Figure 3-18 shows the locations of the public water supply wells, private water supply wells, and mineral wells surrounding WPN.

Private Water Supply Wells

Private water supply wells were identified using the EGLE Water Well Viewer. Based on the current Wellogic database, approximately three private wells occur within 1.6 kilometers (km) (1 mile) of the Project area, 150 wells occur within 8.0 km (5 miles), and 289 wells occur within 16.1 km (10 miles) (Figure 3-14).

Public Water Supply Wells

No Type I (Community Public Water Supply) wells occur within 16.1 km (10 miles) of the Mining Area.

Twenty Type II (Non-Community Public Water Supply) wells occur within 16.1 km (10 miles) of the Project area, including 16 wells within 8.0 km (5 miles). No Type II public water supply wells occur within 1.6 km (1 mile) of the Project area (Figure 3-14).

Mineral Wells

Three Part 625 mineral wells (BMW-1, BMW-3, and BMW-4) are located within 8.0 km (5 miles) of the Mining Area, including one well located within 1.6 km (1 mile).

Designated Wellhead Protection Areas

The nearest designated WHPA is associated with Bergland Township, approximately 19 km (12 miles) south of the Project area. A second WHPA is located near Rockland Township, approximately 26 km (16 miles) southeast of the Project area. Both WHPAs occur outside the modeled groundwater drawdown area and are located within watersheds that are hydraulically separate from the Project area.

3.7.2 Proposed Mining Activities, Potential Impacts, and Mitigation of Impacts Affecting Wells

Groundwater modeling was used to evaluate the potential effects of mine dewatering on nearby water supply wells and mineral wells. The modeled groundwater drawdown associated with underground mining is limited to the vicinity of the underground workings and does not extend to nearby public water supply wells, private water supply wells, permitted mineral wells, or designated WHPAs.

Because WPN is an underground mining operation and groundwater management has been designed to limit the extent of drawdown, impacts to existing water supply wells and WHPA are not anticipated. Groundwater monitoring will be conducted throughout construction and operations to verify groundwater conditions and confirm model predictions. The proposed mining activities will not affect public, private, or mineral wells or wellhead protection areas, as none of these systems or areas are within the dewatering area.

3.8 Wetlands and Floodplains – R 202(2)(m)

Wetlands are abundant throughout the Project area and represent an important component of the regional hydrologic and ecological system. Review of the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) indicates that no mapped Special Flood Hazard Areas or FEMA-designated floodplains occur within the Project area. Accordingly, this section focuses on wetlands regulated under Part 303 of the NREPA. Wetlands identified within the Project area are shown on Figure 3-19. The following commissioned studies support this section of the EIA:

- Appendix E-1: 2024 Wetland Delineation and Characterization Report (Barr, 2025a)
- Appendix E-2: EGLE Wetland Identification Report
- Appendix E-3: 2024 Stream Characterization Report (Barr, 2025b)
- Appendix E-4: Stream Channel Mapping Technical Memorandum (Barr, 2026a)
- Appendix E-5: 2025 Wetland Delineation (Barr, 2026b)
- Appendix E-6: 2025 Underground Mining Area Wetland and Stream Baseline Characterization Report
- Appendix E-7: 2026 Additional Wetland Delineations

3.8.1 Wetland and Floodplain Occurrence

Wetlands and associated floodplain features are abundant throughout the Project area and represent an important component of the regional hydrologic and ecological systems. Wetlands occur primarily within north-south trending drainage corridors that extend toward Lake Superior and are commonly associated with streams, shallow depressions, beaver impoundments, and low-lying topographic areas. Wetlands and floodplain features identified within the Project area are shown on Figure 3-19.

Desktop evaluations of aerial imagery, topography, soils, wetland inventories, and stream networks indicate that wetlands are concentrated within drainage corridors between upland ridges and commonly occur adjacent to streams and other surface water features. More than 60% of soils within the underground mine area are classified as somewhat poorly drained to very poorly drained, reflecting favorable conditions for wetland development. Wetlands mapped within the Project area include freshwater emergent, scrub-shrub, forested, riverine, and ponded systems.

Field investigations and desktop analyses were completed within the underground mine area along an approximately 21.7 km (13.5 miles) transect. Of the transects, approximately 5,579 m (18,304 linear feet) (approximately 26%) were found to be wetland. Extrapolation of these field observations across the approximately 2,428 hectare (6,000 acre) underground mine area suggests about 607 to 648 hectares (1,500 to 1,600 acres) of wetlands are present.

Field delineations completed between 2024 and 2026 identified 342 wetlands totaling approximately 290 acres within the proposed surface facilities and infrastructure areas. These delineations form the basis for Project design, alternatives evaluation, and the Part 303 permitting process. Beaver impoundments were identified as a dominant natural process affecting wetland distribution, hydrology, habitat development, and floodplain formation throughout the Project area.

A summary of wetland classifications within the WPN developed area identified during baseline investigations is provided in Table 3-8. The underground mine area characterization provides a landscape-scale assessment of wetland occurrence, while Table 3-8 summarizes the Cowardin wetland classifications identified through field delineations within the proposed surface facility and infrastructure areas.

A Level 3 Wetland Identification Program (WIP) review completed by EGLE evaluated approximately 1,030 acres encompassing the proposed surface facilities and confirmed the majority of wetland boundaries identified during Barr Engineering Michigan, LLC's (Barr) field investigations. The review concluded that most wetlands within the assessment area are regulated under Part 303 of NREPA. Wetland regulatory status is shown on Figure 3-20 and summarized in Table 3-9.

3.8.2 Regulatory Framework

Wetlands within the Project area are regulated under Part 303, Wetlands Protection, of the NREPA, Act 451 of 1994, as amended. Any unavoidable impacts to regulated wetlands will require authorization under Part 303 of NREPA, including demonstration that impacts have been avoided and minimized to the extent practicable and, where necessary, compensatory mitigation in accordance with EGLE requirements.

Wetland regulatory status within portions of the Project area was evaluated through a Level 3 WIP review completed by the EGLE, Water Resources Division. The WIP review encompassed approximately 417 hectares (1,030 acres) within the Project area and included wetland delineations completed by Barr; aerial imagery; topographic mapping; soil information; hydrologic data; and field verification conducted by EGLE staff. A WIP was not completed for the smaller 2025 and 2026 wetland delineation events or the underground area characterization study.

EGLE confirmed most wetland boundaries delineated during previous investigations and identified areas containing regulated, unregulated, and upland wetlands. Wetland regulatory status, determined through the WIP review and field delineations, is shown on Figure 3-20 and summarized in Table 3-9. Approximately 30 acres were determined by EGLE to be nonregulated. In addition, 0.35 acres of nonregulated wetland were identified during the 2026 survey. The remaining wetland acreage is regulated under Part 303 of NREPA.

EGLE further concluded that most unregulated wetlands identified within the assessment area are not regulated because they are less than 5 acres in size and lack the hydrologic connections necessary to satisfy Part 303 jurisdictional criteria. In addition, several larger wetland features were determined to be unregulated because they were created incidentally during the construction and operation of water treatment ponds, lagoons, or stormwater facilities associated with historical mining activities.

The WIP determination is binding on EGLE through January 21, 2028, unless a reassessment is conducted.

3.8.3 Proposed Mining Activities and Potential Impacts Affecting Wetlands and Floodplains

Project facilities were iteratively sited and configured to avoid and minimize impacts to regulated wetlands to the extent practicable. Preliminary areas of anticipated wetland impacts associated with WPN are shown on Figure 3-21 and Figure 3-22. A summary of anticipated wetland and floodplain impacts is provided in Table 3-10.

Based on the current engineering design, approximately 16.6 acres of delineated wetlands are anticipated to be directly affected by proposed surface facilities and associated infrastructure. The anticipated impacts are distributed among 94 mapped wetland features and occur primarily within palustrine emergent and scrub-shrub wetland communities, with smaller areas of forested, unconsolidated-bottom, and riverine-associated wetlands also affected. These impacts represent the remaining unavoidable wetland disturbance following Project siting and design efforts to avoid and minimize impacts to regulated wetlands and are summarized in Table 3-10.

Consistent with the FEMA FIRM, no construction is proposed within mapped Special Flood Hazard Areas or FEMA-designated floodplains. Accordingly, no direct or indirect impacts on mapped floodplains are anticipated.

Groundwater modeling indicates that mine dewatering primarily affects the Deep Hydrostratigraphic Unit and produces minimal changes in the shallow groundwater system that supports most wetlands. Accordingly, there will be no impacts on groundwater-dependent wetlands.

3.8.4 Mitigation of Potential Wetland Impacts

Avoidance and minimization of wetland impacts have been integral components of WPN site selection and facility layout. Project infrastructure was evaluated through a Part 303 compliant alternatives analysis that considered practicable alternatives for the location and configuration of surface facilities, access roads, utilities, and other infrastructure to avoid and minimize impacts on regulated wetlands wherever practicable.

Where impacts to regulated wetlands cannot be avoided, WPN will obtain the necessary authorization under Part 303 of NREPA prior to construction. A compensatory wetland mitigation plan will be developed in coordination with EGLE to offset unavoidable wetland impacts in accordance with Part 303 requirements.

Additional measures to minimize impacts include limiting disturbance to the construction footprint, implementing soil erosion and sedimentation controls, maintaining separation of contact and non-contact water systems, managing stormwater in accordance with the Non-Contact Stormwater Management Plan, and restoring temporarily disturbed areas following construction. Wetland monitoring and adaptive management measures will be implemented as required by applicable permits and approvals.

3.9 Natural Rivers and Wild and Scenic Rivers – R 202(2)(n),(o)

Michigan maintains a Natural Rivers Program administered by the Michigan Department of Natural Resources (MDNR) under authority granted by the NREPA, Act 451 of 1994, as amended. The program is intended to protect selected rivers possessing outstanding natural, scenic, recreational, fishery, wildlife, historical, or ecological values.

At the federal level, the National Wild and Scenic Rivers System was established under the Wild and Scenic Rivers Act (16 USC 1271 et seq.) to preserve certain rivers in a free-flowing condition and protect the outstanding values for which they were designated. Rivers within the National Wild and Scenic Rivers System are administered by the National Park Service, United States Forest Service, Bureau of Land Management, or United States Fish & Wildlife Service, depending on the designated river segment.

Natural Rivers and Wild and Scenic Rivers occurring within Michigan's Upper Peninsula are shown on Figure 3-23 and summarized in Table 3-11.

3.9.1 Existing Natural Rivers and Wild and Scenic Rivers

A review of MDNR Natural Rivers Program data indicates that only a limited number of river systems in Michigan's Upper Peninsula have been designated as Natural Rivers. No Michigan Natural Rivers occur within Ontonagon County.

A review of the National Wild and Scenic Rivers System indicates that multiple river systems within Michigan's Upper Peninsula have received federal Wild and Scenic River designation. The Ontonagon River is the only federally designated Wild and Scenic River located within Ontonagon County. The Ontonagon River flows generally northward and discharges to Lake Superior approximately 24 km (15 miles) northeast of WPN.

Natural Rivers and Wild and Scenic Rivers located within Michigan's Upper Peninsula are summarized in Table 3-11. Their locations relative to WPN are shown on Figure 3-23.

None of the state-designated Natural Rivers or federally designated Wild and Scenic Rivers occur within the Project area. In addition, no designated river segments occur within the Little Iron River, Big Iron River, or Mineral River watersheds that contain WPN. The nearest designated river is the Ontonagon River; however, it is hydrologically separate from the watersheds containing WPN and is located sufficiently distant from the Project area that mining activities will not affect its designated values.

3.9.2 Proposed Mining Activities Affecting Natural Rivers and Wild and Scenic Rivers

Based on available mapping and watershed evaluations, WPN will not have direct or indirect impacts on Michigan Natural Rivers or federally designated Wild and Scenic Rivers.

3.10 Public and Private Buildings – R 202(2)(p)

WPN is located in Ontonagon County, Michigan, as shown on Figure 1-1. The Project area is situated near several communities within the western Upper Peninsula, White Pine is the nearest community and is located approximately 0.6 km (0.4 mile) southwest of WPN. According to the 2020 United States Census, White Pine had a population of 339 persons. Additional nearby communities include Ontonagon, Bergland, Wakefield, and Ironwood, which provide residential, commercial, governmental, and community services for the surrounding region.

There are occupied office spaces in the former industrial area and at the Ontonagon Water Treatment Plant. Residences and occupied buildings are located within the White Pine community and surrounding developed areas. Public and private buildings located in the vicinity of WPN are shown on Figure 3-24. These buildings include residential dwellings, commercial establishments, government facilities, places of worship, schools, and other structures used for year-round or seasonal human occupancy.

Major population centers within the Upper Peninsula include Houghton, located approximately 111 km (69 miles) northeast of WPN, and Marquette, located approximately 201 km (125 miles) east of WPN. According to the 2020 United States Census, Houghton and Marquette had populations of 8,386 and 20,629 persons, respectively.

Mining and associated surface facilities will be located within areas historically used for mining, activities, and related infrastructure. The nearest occupied buildings will be office spaces near the surface facilities. Residential and commercial buildings are located outside the principal mining and surface facility areas. Based on the current mine plan and facility layout, WPN activities are expected to occur at sufficient distances from public and private buildings such that adverse impacts to residential dwellings, places of business, places of worship, schools, hospitals, government buildings, and other occupied structures are not anticipated.

3.11 Infrastructure and Utilities – R 202(2)(q)

The existing conditions at WPN, including infrastructure and utilities, are discussed in this section.

3.11.1 Existing Infrastructure and Utilities

WPN is located within a historically developed mining district and benefits from existing transportation, utility, communications, water supply, and wastewater infrastructure associated

with the former WPM. Existing infrastructure in the vicinity of WPN includes public roads, electrical transmission facilities, natural gas pipelines, potable water systems, sewage treatment facilities, communications infrastructure, and industrial facilities.

The Project area is primarily accessed from M-64, which connects to regional transportation corridors. Local roads within the White Pine area provide access to existing industrial facilities and former mining infrastructure.

Electrical service is available within the Project area through existing regional transmission infrastructure. WPN is located in the service territory of Upper Peninsula Power Company. Existing electrical infrastructure includes a 69-kilovolt transmission line serving the White Pine area.

Natural gas service is available through existing pipeline infrastructure in the region. The Northern Natural Gas pipeline serves the White Pine area, and the Great Lakes Gas Transmission pipeline is located approximately 20 km (12.4 miles) south of WPN.

Existing potable water and sanitary wastewater infrastructure serving the White Pine area was developed in association with historical mining and community development. Potable water is supplied through regional infrastructure associated with the Village of Ontonagon water system, which draws water from Lake Superior. Domestic wastewater is treated by the existing Carp Lake Township wastewater treatment facility.

3.11.2 Proposed Mining Activities Affecting Infrastructure and Utilities

WPN will construct, modify, and operate the infrastructure necessary to support underground mining, mineral processing, tailings management, water management, power supply, communications, transportation, and administrative and support functions.

Major infrastructure components for WPN include:

- mine access facilities and underground portal infrastructure;
- process plant facilities;
- crushed and temporary ore stockpiles;
- tailings disposal facilities (reuse);
- water management facilities;
- power generation and electrical distribution systems;
- communications infrastructure;
- maintenance, warehouse, administrative, and operational buildings;
- fuel storage facilities; and
- supporting transportation and utility systems.

3.11.2.1 Power Lines

The electrical demand for WPN is approximately 49 megawatts. Electrical power will be supplied through a hybrid arrangement comprising imported utility power and on-site natural-gas turbine generation. Electrical infrastructure will include a high-voltage utility interconnection, on-site generation, substations, and medium- and low-voltage distribution systems serving mine, process, water management, and support facilities.

Natural gas will also be used for forced-air heating of occupied buildings, including administrative and maintenance facilities.

3.11.2.2 Water Supply

Fresh water and potable water for WPN will be supplied through the existing regional water infrastructure associated with the Village of Ontonagon system, which draws water from Lake Superior. Additional site distribution piping will supply potable, service, and raw water to WPN facilities.

WPN will rely primarily on reclaimed and recycled water to meet operational water demands. Process water requirements will be met primarily through recycling of water from the TDF reclaim system and WWTP, with raw Lake Superior water used where recycled water is unavailable or for specific operational needs. Freshwater will also be used for potable and sanitary purposes, the initial filling of process and water systems during startup, and other limited operational uses.

During closure, raw Lake Superior water will be used for controlled reflooding of the underground mine. Water management infrastructure and operational water use are discussed further in Sections 3.4 (Groundwater) and 3.5 (Surface Water).

3.11.2.3 Sewage and Industrial Wastewater Treatment

Mine-affected water generated by underground mining, process operations, contact stormwater, and tailings reclaim will be managed through a dedicated on-site WWTP. The WWTP will operate with phased treatment capacity corresponding to mine development and operational water management requirements.

Domestic wastewater generated by WPN will be conveyed through existing local infrastructure to the Carp Lake Township wastewater treatment facility for treatment.

3.11.2.4 Road Upgrades

Primary access to WPN will be from M-64 along the western boundary of the site through a designated site entrance and main access road. A network of internal site roads will connect the mine portal, processing and materials handling areas, water management and tailings facilities, and support buildings. Designated parking and staging areas will also be provided for employees, contractors, visitors, equipment, and materials.

Road drainage will be integrated with WPN stormwater management infrastructure, including roadside ditches, culverts, and other drainage controls as appropriate. Construction and operation of WPN will increase traffic associated with employee transportation, equipment and material deliveries, consumable shipments, concentrate transportation, and construction activities.

3.11.3 Potential Impacts to Infrastructure and Mitigation

WPN will utilize existing regional transportation, electrical, natural gas, communications, water supply, and sanitary wastewater infrastructure in combination with new and modified on-site infrastructure designed to support mining operations.

Impacts to existing infrastructure and utilities will consist primarily of increased use of transportation corridors and regional utility systems. WPN will supplement existing infrastructure by constructing and operating dedicated site facilities, including on-site power

generation and distribution, water distribution and recycling systems, a WWTP, internal roads, and associated support infrastructure.

Because WPN is located within a historically developed Mining Area with substantial existing industrial and utility infrastructure, significant adverse impacts on regional infrastructure and utility systems are not anticipated. On-site infrastructure and operational controls will manage stormwater, contact water, wastewater, fuel and chemical handling, transportation, and other activities to minimize potential effects on surrounding infrastructure and environmental resources.

3.12 Public Recreation, Natural Areas, State and Federal Wilderness Areas, Wild Areas, and Research Natural Areas – R 202(2)(r)-(w)

The area surrounding WPN was reviewed for the presence of public recreation areas, natural areas, state and federal wilderness areas, wild areas, and research natural areas pursuant to Part 632 and MCL 324.35101. Designated recreational and protected lands located within the vicinity of WPN are shown on Figure 3-25.

3.12.1 Existing Designated Areas

The following locations are the closest designated areas surrounding the Project:

Public Recreation and Natural Areas
Several public recreation facilities and natural areas are located within the vicinity of WPN. The nearest identified public recreation areas include Bonanza Falls, located approximately 2.1 km (1.3 miles) northwest of WPN, the North Country Trail, which crosses M-64 approximately 6.9 km (4.3 miles) southwest of WPN and 3.5 km (2.2 miles) at its closest location, Green Park, located approximately 5.8 km (3.6 miles) northeast of WPN, and the Bergland Township Campground and Park, located approximately 17.9 km (11.1 miles) southwest of WPN. These facilities provide recreational opportunities, including camping and outdoor activities, as well as public access to natural resources.

State and Federal Wilderness Areas
The nearest designated state wilderness area is Porcupine Mountains Wilderness State Park. The nearest portion of the park is located approximately 2.9 km (1.8 miles) west of WPN. The park is one of Michigan's largest protected wilderness areas and contains extensive forest, recreational, scenic, and ecological resources.

The nearest federally designated wilderness area is the Sturgeon River Gorge Wilderness within the Ottawa National Forest, located approximately 58.3 km (36.2 miles) southeast of WPN. This wilderness area is part of the National Wilderness Preservation System established under the Wilderness Act (16 USC 1131 et seq.).

Research Natural Areas
A review of available federal and state protected lands data did not identify any designated Research Natural Areas within Ontonagon County or within the area evaluated for potential WPN-related effects. Similarly, no designated wild areas were identified within the immediate vicinity of WPN.

3.12.2 Proposed Mining Activities and Potential Impacts Affecting Designated Areas

All identified public recreation areas, natural areas, state and federal wilderness areas, wild areas, and research natural areas are located outside the Mining Area and will not be directly affected by construction or mining activities.

Porcupine Mountains Wilderness State Park is the nearest designated protected area, located approximately 2.9 km (1.8 miles) west of WPN. Although relatively close to WPN, the park is separated from mining facilities by distance, intervening land uses, and natural topographic and hydrologic boundaries. Other designated recreation and protected areas identified during the review are located substantially farther from WPN.

Based on the current mine plan and facility layout, WPN will not have direct impacts on public recreation areas, natural areas, state or federal wilderness areas, wild areas, or research natural areas. Potential indirect impacts have also been minimized through Project design. Groundwater modeling indicates that hydrologic effects will remain localized, while all contact water generated during construction and operations will be collected, treated as necessary, and discharged only in accordance with an approved NPDES permit. Non-contact stormwater will be managed separately through engineered stormwater management systems. Air quality, noise, and other environmental effects will similarly remain localized and will not adversely affect nearby recreational or protected lands.

3.12.3 Mitigation to Designated Areas

Project design incorporates numerous measures to avoid and minimize potential impacts to nearby recreational and protected lands. These measures include minimizing the surface disturbance footprint, groundwater monitoring, separation of contact water and non-contact stormwater systems, treatment of contact water prior to discharge under an approved NPDES permit, engineered stormwater controls, air quality and dust control measures, noise management practices, and progressive reclamation of disturbed areas.

Groundwater modeling and surface water evaluations indicate that project-related hydrologic effects will remain localized and will not affect nearby recreational or protected areas. Environmental monitoring programs implemented throughout construction, operation, closure, and post-closure will verify the effectiveness of these mitigation measures and support adaptive management.

3.13 Land Use Access and Land Use Trends – R 202(2)(x)

WPN is located in Ontonagon County, Michigan, within an area historically characterized by mining, forestry, recreation, and rural residential land uses. The Project area is located immediately northeast of the community of White Pine and is situated within lands previously affected by historical mining activities associated with the former WPM. Project location, surrounding communities, and regional access are shown on Figure 1-1. The Public Land Survey System location of WPN is shown on Figure 2-1.

3.13.1 Existing and Historical Land Use Conditions

Land use within and surrounding the Project area consists primarily of forested lands, wetlands, surface water features, transportation corridors, rural residential development, and areas disturbed by historical mining activities. The former WPM and associated tailings management

facilities have significantly influenced land-use patterns in portions of the Project area for several decades.

Current land ownership within the Project area is shown on Figure 2-2 and listed in Table 3-12. The proposed surface facilities area and associated infrastructure are all located on lands controlled by WPC. Surrounding lands include a combination of private holdings, state-managed lands, and other public and private ownerships.

The community of White Pine is located approximately 0.6 km (0.4 mile) southwest of WPN. Additional nearby communities include Ontonagon, Bergland, Wakefield, and Ironwood. Existing transportation access to the Project area is provided primarily by M-64 and local roads serving the White Pine area.

Historical land use within the Project area has been dominated by mining and associated industrial activities, including underground mining, mineral processing, tailings management, water treatment, utility infrastructure, and transportation corridors.

3.13.2 Proposed Mining Activities Affecting Land Use Conditions

WPN represents a continuation of historical mining-related land use within the Project area. Proposed facilities include underground mine infrastructure, mineral processing facilities, water management infrastructure, tailings management facilities, transportation infrastructure, utility systems, and supporting operational facilities.

Because the Project area has historically supported mining and associated industrial uses, the proposed mining activities are generally consistent with historical land-use patterns. Project development will occur within areas currently controlled by WPC and within lands previously disturbed by historical mining activities, where practicable.

Potential land-use changes associated with WPN will be localized to the Project area and to immediately adjacent lands. No significant changes in regional land-use patterns are anticipated. Secondary effects of WPN may include increased employment, economic activity, and demand for local goods and services within nearby communities.

Following completion of mining operations, reclamation and closure activities will be implemented in accordance with applicable regulatory requirements and approved closure plans. Reclamation measures will stabilize disturbed areas and support long-term land uses compatible with surrounding environmental and community conditions.

3.13.3 Potential Impacts and Mitigation to Land Use

Mining activities associated with WPN will result in changes to land use within the Project area through the development of underground mine infrastructure, mineral processing facilities, water management facilities, tailings management facilities, transportation infrastructure, and supporting operational facilities. These land-use changes will occur primarily in areas historically affected by mining and industrial activities.

Land uses outside the Project area will remain substantially unchanged. Potential impacts to surrounding land uses will be localized and will not adversely affect residential, recreational, commercial, agricultural, forestry, or public land uses within the surrounding region. Positive effects may include increased employment opportunities and economic activity within nearby communities.

Over the LOM, land-use impacts will be temporary for many Project area components. Following completion of mining operations, disturbed areas will be reclaimed and stabilized in accordance with the Reclamation Plan and applicable regulatory requirements.

Reclamation will occur progressively throughout construction, operations, closure, and post-closure, as shown on Figure 3-17. Areas disturbed during construction and operations that are no longer required to support mining activities will be graded, stabilized, and revegetated as practicable. During closure, surface facilities and infrastructure not required for post-closure use will be removed; disturbed areas will be regraded and revegetated; and permanent surface water management and erosion control features will be established. The reclaimed site will be returned as closely as practicable to pre-development land-use, topographic, and ecological conditions and will be compatible with existing uses on adjacent properties. Certain features will remain following reclamation, including the reclaimed TDF, closed underground mine openings, selected access roads, and permanent surface water management systems and controls. These measures will ensure stable post-mining land uses and long-term environmental management of the Project area.

3.14 Aquatic Biota and Habitat – R 202(2)(y),(z)

The following commissioned studies support this section of the EIA:

- Appendix F-1: Baseline Aquatic Survey Report 2024 (AEM, 2025a), which contains site-specific aquatic surveys conducted in 2024 to characterize existing aquatic biota and habitat conditions within the Mining Area and affected area.
- Appendix F-2: 2025 Additional Pond Surveys Memorandum (AEM, 2025b), which summarizes baseline water quality and general ecological characteristics of ponds located within the northern portion of WPN and supplements the 2024 aquatic investigations.
- Appendix F-3: Mussels Found in Perch Creek and Mineral River Memorandum (AEM, 2026a), a memorandum which further describes the results of the freshwater mussel reconnaissance surveys conducted as part of the 2024 baseline aquatic survey to support wastewater discharge permitting activities.
- Appendix F-14: Fish Tissue Metals Survey 2026 (AEM, 2026b), which summarizes baseline metals concentrations in creek chub tissue collected from representative streams within the vicinity of WPN prior to commencement of mining operations.

Aquatic investigations included evaluations of streams, ponds, and other aquatic habitats that may be influenced by Project activities. Aquatic resources were characterized through field water quality measurements, habitat assessments, fish and macroinvertebrate community surveys, freshwater mussel reconnaissance, and fish tissue metals analysis. No state or federally listed threatened or endangered aquatic species were documented during the baseline investigations.

3.14.1 Aquatic Biota and Habitat Within Mining and Affected Area

Aquatic investigations were conducted at 10 stream survey stations, 10 representative pond locations, NP2, and Portal Creek during 2024. Additional pond characterization completed in 2025 expanded baseline coverage to all 29 ponds located within the northern portion of the

Project area. Sampling locations were selected to characterize aquatic habitats representative of the Mining Area and the affected area, and to provide baseline ecological information for future comparison. Portal Creek was assessed under a separate work program using similar methodologies. Aquatic sampling locations are summarized in Table 3-13 and shown on Figure 3-26.

The aquatic habitats observed during the investigations are characteristic of those commonly found in Michigan's Upper Peninsula. Stream habitats included a variety of riffle, run, pool, and wetland-influenced environments with substrates ranging from sand and gravel to cobble, bedrock, and organic sediments. Pond habitats were generally characterized by aquatic macrophytes, cattail- and bulrush-dominated shorelines, soft organic substrates, and low-gradient margins.

Fish, macroinvertebrate, and habitat assessments were completed in accordance with EGLE Procedure 51 (P-51), which provides a standardized methodology for evaluating aquatic communities and habitat quality in wadable streams and rivers. A summary of aquatic community and habitat assessment ratings is provided in Table 3-14.

Fish Community Assessment

Fish community assessments were completed at 10 stream survey stations and within Portal Creek. A total of 25 fish species were identified during stream investigations. Fish community ratings ranged from Poor to Acceptable. Acceptable ratings were recorded at Duck Creek 2, Mineral River 1, Mineral River 2, and Pine Creek, while the remaining stream stations were rated Poor. Fish communities were dominated by minnows and other small-bodied species, including creek chub, blacknose dace, longnose dace, northern redbelly dace, fathead minnow, pumpkinseed, and blacknose shiner, all of which are representative of northern Michigan streams and ponds. These species are representative of aquatic communities commonly encountered within northern Michigan streams.

Fish surveys conducted within ponds and NP2 identified communities dominated by northern redbelly dace, fathead minnow, pumpkinseed sunfish, blacknose shiner, creek chub, and other species commonly associated with shallow vegetated pond habitats.

Macroinvertebrate Assessment

Macroinvertebrate communities were evaluated at all stream survey stations and Portal Creek. Community ratings ranged from Poor to Acceptable, with most stations receiving Acceptable ratings. Aquatic macroinvertebrates observed during the surveys included amphipods, dragonflies, mayflies, caddisflies, true bugs, and other taxa commonly associated with northern Michigan aquatic systems.

The predominance of Acceptable macroinvertebrate ratings indicates that stream reaches within the Mining Area and affected area generally support functioning aquatic communities representative of surrounding watershed conditions.

Habitat Assessment

Aquatic habitat quality ranged from Marginal to Excellent based on P-51 criteria. Most stream stations were rated Good or Excellent, indicating stable stream channels, diverse habitat features, adequate instream cover, and functional riparian vegetation. One station received a Marginal habitat rating, while no stations were rated Poor.

A summary of habitat characteristics observed during the aquatic investigations is provided in Table 3-15. Overall, habitat assessments indicate that aquatic habitats within the Mining Area and affected area are capable of supporting fish and macroinvertebrate communities typical of the region.

Water Quality

Field water quality measurements, including temperature, pH, dissolved oxygen, and conductivity, were collected at stream, pond, and NP2 sampling locations. Measured values were generally consistent with expectations for surface waters within northern Michigan watersheds.

Additional pond surveys completed in 2025 documented field water quality and general ecological characteristics at all 29 ponds located north of NP2. Results showed higher conductivity and lower dissolved oxygen concentrations in ponds associated with the existing water management system than in ponds outside the system. The survey also concluded that the representative ponds evaluated during the 2024 biological investigations encompassed the range of pond conditions observed across the Project area.

Fish Tissue Metals

Baseline fish tissue sampling was conducted in May 2026 to characterize metals concentrations in representative fish within streams in the vicinity of WPN. A total of 45 creek chubs (*Semotilus atromaculatus*) were collected from 9 sampling stations within Portal Creek, Mineral River, Perch Creek, Pine Creek, Argentine Creek, and Duck Creek. Five fish collected from each station were composited for laboratory analysis of arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, and zinc. Creek chub was selected as the representative species because fish traditionally consumed by humans were absent or occurred only in small populations in streams near WPN.

Copper concentrations in composite samples ranged from 1.9 to 8.4 mg/kg, with an average concentration of 4.044 mg/kg among the nine sampling stations. Mercury concentrations ranged from less than the analytical detection limit to 0.035 mg/kg, with an average reported concentration of 0.018 mg/kg. Average concentrations of arsenic, barium, chromium, copper, lead, selenium, and zinc were higher at stations classified as downgradient of WPN than at those classified as upgradient, whereas average cadmium and mercury concentrations were higher at upgradient stations. These results establish baseline fish tissue metals concentrations for comparison with future monitoring during WPN operations.

Freshwater Mussels

Freshwater mussel reconnaissance surveys were completed within stream reaches containing suitable habitat in accordance with Michigan freshwater mussel reconnaissance protocols. Freshwater mussels were observed at several locations, including Duck Creek, Mineral River, Perch Creek, and Pine Creek. Species identified during the surveys included cylindrical papershell (*Anodontoides ferussacianus*) and giant floater (*Pyganodon grandis*). Freshwater mussel observations are summarized in Table 3-16.

No federally listed freshwater mussel species were observed during the investigations. Furthermore, none of the chloride-sensitive mussel species identified by EGLE as potentially relevant to wastewater discharge permitting were observed within the surveyed reaches.

Overall, the aquatic investigations indicate that streams and ponds within the Mining Area and affected area support aquatic communities typical of northern Michigan and the Upper Peninsula. Habitat quality generally ranged from Marginal to Excellent, while biological community assessments ranged from Poor to Acceptable. Stream reaches receiving Poor biological ratings generally exhibited flashy hydrology, intermittent or low-flow conditions, or limited habitat complexity, characteristics that naturally constrain fish and macroinvertebrate communities. Fish tissue sampling further established baseline metals concentrations in representative fish from streams within the vicinity of WPN. Collectively, the aquatic investigations establish a comprehensive baseline against which future Project-related changes can be evaluated.

3.14.2 Proposed Mining Activities Potentially Affecting Aquatic Biota and Habitat

Mining activities that could potentially affect aquatic biota and aquatic habitat include:

- Continued discharge of treated legacy mine water to Perch Creek under the existing NPDES permit and discharge of treated WPN wastewater to the Mineral River through a new permitted NPDES outfall.
- Changes in surface water runoff quantity, routing, and quality.
- Accidental releases of hazardous materials.
- Potential changes to groundwater discharge that could indirectly influence groundwater-dependent aquatic habitats.
- Deposition of particulate matter generated during construction and operation.

Potential effects on aquatic resources were evaluated considering the proposed water management system, which maintains separate discharge locations for legacy mine water and treated WPN wastewater. Potential effects may include localized changes in water quality or aquatic habitat conditions near permitted discharge locations, as well as indirect effects associated with changes in hydrology or constituent transport pathways. All wastewater discharges will be regulated through the NPDES permitting process and designed to comply with applicable water quality standards.

3.14.3 Potential Impacts and Mitigation to Aquatic Biota and Habitat

Potential impacts to aquatic resources will be minimized through facility design, operational controls, monitoring programs, and regulatory compliance measures.

Stormwater management systems will be designed and operated to collect, convey, and manage contact and non-contact stormwater in accordance with applicable permits and approved management plans. Contact water generated within WPN operational areas will be collected, conveyed to the WPN water treatment plant, treated as necessary to meet permit requirements, and discharged through a new NPDES-permitted outfall to the Mineral River. Contact water will not be combined with legacy mine water prior to discharge. BMPs will be

implemented to minimize erosion, sediment transport, and stormwater-related impacts to adjacent aquatic resources.

Waste storage areas, process facilities, and other mine-related infrastructure will incorporate engineered containment systems to prevent the release of constituents into groundwater and surface water. Liners, leak detection systems, collection systems, and monitoring programs will be implemented as appropriate for individual facility components.

Existing treated mine water associated with historical WPM operations will continue to be discharged to Perch Creek under NPDES Permit No. MI0006114. Treated wastewater generated by WPN will be discharged separately to the Mineral River through a new NPDES-permitted outfall. Both discharge systems will be subject to NPDES permit limits, monitoring requirements, and compliance obligations established by EGLE to protect aquatic life and maintain compliance with applicable water quality standards.

Potential impacts associated with hazardous material releases will be minimized through implementation of the Spill Prevention, Control, and Countermeasure Plan, Pollution Incident Prevention Plan, employee training programs, and established response procedures.

Collectively, these design features, treatment systems, monitoring programs, and permit requirements will minimize the potential for adverse impacts to aquatic habitats and aquatic communities within the affected area during construction, operation, closure, and post-closure of WPN.

3.15 Terrestrial Biota, Habitat, and Ecosystems – R 202(2)(y),(z)(dd)

This section describes the terrestrial habitats, vegetation communities, wildlife resources, and ecological conditions within the Project area and the surrounding affected area. Terrestrial resources were characterized through a series of baseline investigations conducted between 2024 and 2026, including natural community and land cover mapping, rare plant surveys, breeding and migratory bird surveys, raptor surveys, bat acoustic monitoring, mammal inventories, amphibian and reptile surveys, and targeted surveys for wood turtle, northern goshawk, owl, and nightjar species. The following commissioned studies support this section of the EIA:

- Appendix F-4: Rare Plant Species Surveys, Natural Community and Land Cover Mapping Report (Stantec, 2025)
- Appendix F-5: Species Inventory: Small Mammals, Reptiles, and Amphibians Report (Stantec, 2026a)
- Appendix F-6: Wood Turtle Survey (Stantec, 2026b)
- Appendix F-7: Aerial Eagle and Raptor Nest Survey (Stantec, 2026c)
- Appendix F-8: Northern Goshawk Broadcast Call Survey Report (Stantec, 2026d)
- Appendix F-9: Owl and Nightjar Survey Report (Stantec, 2026e)
- Appendix F-10: Breeding Bird and Migratory Bird Survey Report (Stantec, 2026f)
- Appendix F-11: Species Inventory: Medium and Large Mammals Report (Stantec, 2026g)

- Appendix F-12: Bat Presence or Probable Absence Survey (Stantec, 2024)
- Appendix F-13: Rare Plant Species Survey and Community Mapping Results (Stantec, 2026h).

3.15.1 Terrestrial Habitats and Natural Communities

The Project area is situated within a landscape that has experienced extensive historical disturbance associated with timber harvesting, mining, grading, tailings management, road construction, and other industrial activities dating to the late nineteenth century. As a result, much of the existing vegetation consists of early successional communities that have developed on modified soils and regraded landforms. Despite this history of disturbance, substantial areas of forest, wetland, and aquatic habitat occur throughout the Project area and support a diverse assemblage of plant and wildlife species.

Natural community and land cover mapping identified nine distinct terrestrial and wetland community types within the surveyed area (Figure 3-27; Table 3-17). Early Successional Mesic Northern Forest was the dominant natural community, representing approximately half of the mapped area. Smaller areas of mature Mesic Northern Forest occurred along portions of the Mineral River, Pine Creek, and other relatively undisturbed areas and supported larger canopy trees, greater conifer abundance, and more late-successional species typical of northern hardwood forests of Michigan's western Upper Peninsula.

Wetland communities included Northern Hardwood Swamp, Northern Shrub Thicket, Northern Wet Meadow, Emergent Marsh, and Submergent Marsh. Wetland habitats occur primarily within low-lying areas, borrow pits, impounded basins, beaver-influenced landscapes, and along stream corridors. These habitats provide important ecological functions, including wildlife habitat, hydrologic storage, and habitat connectivity.

Areas classified as Upland Meadow and Developed/Unvegetated Land Cover were associated with historical mining and industrial activities and were characterized by sparse vegetation, exposed clayey or gravelly substrates, and disturbance-tolerant plant species. Although these areas provide lower ecological value than the surrounding forest and wetland communities, they contribute to habitat diversity within the Project area.

Supplemental natural community and land cover mapping completed in areas added to the proposed surface footprint in 2025 characterized approximately 122 additional acres. The surveyed areas consisted primarily of early successional Mesic Northern Forest, Upland Meadow, Developed Land, and wetlands. Consistent with previous baseline investigations, these areas generally reflect historical mining and other disturbance and support predominantly early-successional vegetation communities (Stantec, 2026h).

Rare plant surveys targeted three Michigan Threatened species and eight Michigan Special Concern species identified through desktop review and Michigan Natural Features Inventory records. Supplemental surveys completed in 2025 and 2026 evaluated additional areas associated with the proposed surface footprint during appropriate species-specific survey periods. No federal- or state-listed threatened, endangered, or special concern plant species were documented during baseline field investigations (Stantec, 2025; Stantec, 2026h).

3.15.2 Mammals

Mammal surveys included acoustic bat monitoring, trail-camera surveys, scent stations, live trapping, drift-fence surveys, and opportunistic observations. Collectively, these investigations documented a diverse mammalian community representative of northern forest ecosystems in western Upper Michigan.

Medium- and large-mammal surveys conducted between September 2024 and August 2025 documented 14 species and approximately 1,739 individual detections. White-tailed deer and coyote were the most frequently observed species. Other species included black bear, gray wolf, red fox, bobcat, fisher, American marten, beaver, river otter, raccoon, striped skunk, snowshoe hare, and eastern cottontail.

Small mammal surveys documented 13 species and 281 individuals, including deer mouse, meadow jumping mouse, meadow vole, woodland jumping mouse, masked shrew, northern short-tailed shrew, star-nosed mole, water shrew, red squirrel, eastern chipmunk, least weasel, and northern flying squirrel. The northern flying squirrel was the only Michigan Special Concern mammal documented during these surveys.

The gray wolf was the only federally or state-listed mammal documented during baseline investigations. Observations indicate that wolves utilize the Project area and surrounding landscape, but do not suggest unusually high concentrations or critical habitat features within the Project area footprint.

Bat acoustic monitoring was conducted at 20 detector locations over 277 detector nights. Surveys documented six bat species, including the big brown bat, eastern red bat, hoary bat, silver-haired bat, and little brown bat. Targeted analysis was conducted for the northern long-eared bat and the tricolored bat. Although automated software initially identified potential calls for both species, a qualitative review determined that those detections were inconsistent with the diagnostic calls of the target species. Accordingly, the surveys concluded the probable absence of the northern long-eared bat and tricolored bat within the Project area during the maternity season.

Survey locations for mammals, bats, reptiles, and amphibians are shown on Figure 3-28.

3.15.3 Amphibians and Reptiles

Amphibian and reptile surveys were conducted from May to July 2024 and from June to September 2025 using drift fences, pitfall traps, funnel traps, cover boards, visual encounter surveys, and targeted wood turtle investigations (Figure 3-28).

A total of 8 amphibian and 5 reptile species were documented during field investigations. Amphibians included American toad, spring peeper, green frog, northern leopard frog, wood frog, central newt, spotted salamander, and mink frog. Reptiles included common garter snake, northern red-bellied snake, northern ring-necked snake, painted turtle, and common snapping turtle.

The mink frog was the only species of conservation concern documented during amphibian and reptile investigations and is classified as a Michigan Special Concern species.

Targeted surveys for the wood turtle were conducted along waterways identified as potentially suitable habitat during the desktop review. Mineral River and Pine Creek were determined to

provide suitable habitat and were surveyed using visual encounter surveys and hoop-net trapping. No wood turtles were observed during any survey effort, and the surveys concluded the probable absence of wood turtles within the Project area.

3.15.4 Birds

Bird surveys included breeding bird point counts, migratory bird surveys, aerial raptor surveys, northern goshawk surveys, and nocturnal owl and nightjar investigations. Survey locations are shown on Figure 3-29.

More than 5,000 individual birds representing 129 species were documented during breeding and migratory bird surveys conducted in 2024 and 2025. The diversity of species observed reflects the variety of forest, wetland, shrubland, and open habitats present within the Project area.

Aerial surveys for bald eagle and raptor nests covered approximately 19,300 acres, including species-specific buffer areas. Two bald eagles were observed outside the Project area but no bald eagle nests or other active raptor nests were observed within the surveyed area.

Northern goshawks were visually and audibly detected during survey efforts, and additional individuals were observed during migratory bird surveys. However, follow-up broadcast call surveys failed to document evidence of nesting activity, and no nests were identified within the Project area.

Nocturnal surveys documented northern saw-whet owl, barred owl, snowy owl, and eastern whip-poor-will. Eastern whip-poor-will, a Michigan Threatened species, was documented at six of seven survey stations.

No federally listed species were detected during any of the surveys; however, state-listed threatened bird species documented during baseline investigations included northern goshawk, spruce grouse, peregrine falcon, common loon, least bittern, golden-winged warbler, and eastern whip-poor-will. Six additional Special Concern and/or Species of Greatest Conservation Need were also documented during the surveys.

3.15.5 Summary of Ecological Conditions

A summary of wildlife species documented during baseline investigations is provided in Table 3-18. Wildlife surveys identified a diverse assemblage of mammals, birds, reptiles, amphibians, and bats that is representative of northern forest ecosystems in western Upper Michigan. Although much of the landscape has been altered by historical mining and forestry activities, forest, wetland, riparian, and aquatic habitats continue to support numerous plant and wildlife species.

Surveys documented diverse terrestrial habitats and wildlife communities associated with forests, wetlands, riparian areas, and aquatic environments. Species representing a range of conservation designations were documented during baseline investigations; however, discussion of threatened, endangered, special concern, and other conservation-status species is provided separately in Section 3.16.

The terrestrial habitat and wildlife surveys provide a comprehensive baseline characterization of ecological resources that may be affected by Project area construction, operation, closure, and reclamation activities.

3.15.6 Proposed Mining Activities Potentially Affected Terrestrial Biota, Habitat, and Ecosystems

Construction, operation, closure, and reclamation activities associated with WPN will result in temporary and permanent disturbance of limited terrestrial habitats within the Project area and on historic lands that were previously disturbed by mining activities. Mining activities will require development of underground mine infrastructure, process facilities, tailings management facilities, water management infrastructure, access roads, utility corridors, and other supporting facilities.

Potential habitat disturbance will occur primarily within areas historically affected by mining, grading, timber harvest, and other industrial activities. Nevertheless, the construction and operation of WPN will result in localized impacts within portions of the Project area.

Terrestrial resources that may be affected by WPN activities include vegetation communities, wildlife habitat, mammals, birds, reptiles, amphibians, and associated ecological functions occurring within the Project area footprint and immediately adjacent areas. Mining activities are not anticipated to cause effects beyond the immediate boundary of the Project area and will have minimal impacts on local/regional animal, plant, and habitat species.

3.15.7 Potential Impacts and Mitigations to Terrestrial Biota, Habitat, and Ecosystems

Potential impacts to terrestrial biota and habitats are expected to be greatest during construction activities and may include vegetation removal, habitat alteration, temporary wildlife displacement, increased noise and vibration, increased traffic, and localized dust generation. Because WPN is located within a landscape that has experienced extensive historical mining and industrial disturbance, impacts will be concentrated within and immediately adjacent to the Project area.

Potential indirect impacts to terrestrial resources may occur through stormwater runoff, erosion, sediment transport, air emissions, lighting, and human activity associated with WPN operations. However, these impacts will be localized and will not affect wildlife populations at a regional scale. They will be managed through the SESC and Non-Contact Water Management in accordance with the NPDES permit.

Mitigation measures incorporated into the Project area design include implementation of stormwater management systems, erosion and sediment control measures, engineered containment systems, dust suppression practices, spill prevention and response procedures, and compliance with applicable environmental permits. Active work areas will be secured as appropriate to limit wildlife access to operational facilities.

Following completion of mining operations, disturbed areas will be reclaimed in accordance with approved closure and reclamation plans. Reclamation activities will include grading, stabilization, revegetation, and long-term management measures designed to establish vegetation communities compatible with surrounding habitats. Tailings management facilities will be revegetated in accordance with applicable regulatory requirements.

Given the localized nature of anticipated habitat disturbance, the implementation of mitigation measures, and planned reclamation activities, WPN will not result in significant adverse impacts to terrestrial biota, habitat, or ecosystem functions beyond the Project area.

3.16 Threatened or Endangered Species, and Species of Special Concern – R 202(2)(aa),(bb)

This section identifies endangered, threatened, special concern, and other conservation-status species (ETSC species) that may occur within the Project area and affected area. ETSC species were evaluated pursuant to Part 365, Endangered Species Protection, of the NREPA, Act 451 of 1994, as amended, and the federal Endangered Species Act of 1973, Public Law 93-205, 87 Stat. 884.

Species status and conservation designations used in this evaluation were obtained from the following sources:

- **MDNR:** The MDNR administers Michigan's threatened and endangered species program under Part 365. Species designated by the State of Michigan as Threatened or Endangered and documented during baseline investigations are identified in Table 3-19.
- **Michigan Natural Features Inventory (MNFI):** MNFI maintains records of Michigan species of special concern and other rare species occurrences. Species designated as Special Concern and documented during baseline investigations are identified in Table 3-19.
- **Species of Greatest Conservation Need (SGCN):** The Michigan Wildlife Action Plan identifies species and habitats requiring proactive conservation efforts to prevent future population declines and potential threatened or endangered status. SGCN designations were considered during the evaluation of wildlife resources documented within the Project area.

Federal and State of Michigan threatened, endangered, special concern, and other species of conservation interest were evaluated through the aquatic, vegetation, wildlife, and targeted species investigations described in Appendix F. A summary of ETSC species documented during baseline investigations is provided in Table 3-19. Locations of ETSC species observations are shown on Figure 3-30, where spatially meaningful occurrence data were available.

Most ETSC wildlife species documented during baseline investigations, including birds, bats, and gray wolves, are highly mobile and occupy broad home ranges or seasonal habitats. Consequently, individual observation locations are not considered representative of species distribution.

The following commissioned studies support this section of the EIA:

- Appendix F-4: Rare Plant Species Surveys, Natural Community and Land Cover Mapping Report (Stantec, 2025)
- Appendix F-5: Species Inventory: Small Mammals, Reptiles, and Amphibians Report (Stantec, 2026a)
- Appendix F-6: Wood Turtle Survey (Stantec, 2026b)
- Appendix F-7: Aerial Eagle and Raptor Nest Survey (Stantec, 2026c)
- Appendix F-8: Northern Goshawk Broadcast Call Survey Report (Stantec, 2026d)

- Appendix F-9: Owl and Nightjar Survey Report (Stantec, 2026e)
- Appendix F-10: Breeding Bird and Migratory Bird Survey Report (Stantec, 2026f)
- Appendix F-11: Species Inventory: Medium and Large Mammals Report (Stantec, 2026g)
- Appendix F-12: Bat Presence or Probable Absence Survey (Stantec, 2024)
- Appendix F-13: Rare Plant Species Survey and Community Mapping Results (Stantec, 2026h).

3.16.1 Listed Species within the Mining and Affected Area

3.16.1.1 Aquatic Resources

Aquatic surveys were conducted as described in Section 3.14 and included evaluations of fish, freshwater mussels, and macroinvertebrates in ponds, streams, and aquatic habitats.

No federal- or state-listed threatened, endangered, or special concern sensitive aquatic species were documented during baseline aquatic investigations.

3.16.1.2 Vegetation

Rare plant investigations targeted three Michigan Threatened plant species and eight Michigan Special Concern plant species identified through desktop review and MNFI records. Surveys were conducted during species-specific survey windows and focused on potentially suitable habitat within the Project area.

No federal- or state-listed threatened, endangered, or special concern plant species were documented during field investigations.

3.16.1.3 Wildlife

Wildlife investigations documented several state-listed threatened species and species of special concern within or adjacent to the Project area.

State-listed threatened wildlife species documented during baseline investigations included common loon (*Gavia immer*), eastern whip-poor-will (*Antrostomus vociferus*), golden-winged warbler (*Vermivora chrysoptera*), least bittern (*Ixobrychus exilis*), little brown bat (*Myotis lucifugus*), northern goshawk (*Accipiter gentilis*), peregrine falcon (*Falco peregrinus*), and spruce grouse (*Falcipennis canadensis*).

The little brown bat (*Myotis lucifugus*), which is listed as Threatened in Michigan, was documented during the bat presence or probable absence survey (Appendix F-12). Little brown bats use a variety of summer habitats, including forested areas near water, and may roost in trees and other suitable structures. Populations of little brown bats have declined substantially as a result of white-nose syndrome, a fungal disease affecting hibernating bats. The occurrence of little brown bat within the Project area therefore represents a documented use of the area by a state-listed species and will be considered, as appropriate, during final design, vegetation clearing, and implementation of applicable wildlife protection and mitigation measures.

State-listed species of special concern documented during baseline investigations included American bittern (*Botaurus lentiginosus*), grasshopper sparrow (*Ammodramus savannarum*),

northern harrier (*Circus hudsonius*), osprey (*Pandion haliaetus*), trumpeter swan (*Cygnus buccinator*), and wood thrush (*Hylocichla mustelina*). Several of these species are also identified by MDNR as Species of Greatest Conservation Need.

The gray wolf (*Canis lupus*), federally listed as endangered and classified by Michigan as a species of special concern, was documented during medium- and large-mammal surveys. Additional species of special concern documented during wildlife investigations included the northern flying squirrel (*Glaucomys sabrinus*) and mink frog (*Lithobates septentrionalis*)

Targeted acoustic analyses were conducted for northern long-eared bat (*Myotis septentrionalis*) and tricolored bat (*Perimyotis subflavus*), both of which are listed as Michigan Threatened species. Although automated acoustic processing initially identified potential calls attributed to the northern long-eared bat and the tricolored bat, a subsequent qualitative review determined that the calls were inconsistent with those species. Therefore, the surveys concluded probable absence of northern long-eared bat and tricolored bat within the Project area during the maternity season.

Targeted surveys for the wood turtle (*Glyptemys insculpta*), a Michigan Threatened species, identified suitable habitat along portions of the Mineral River and Pine Creek. However, no wood turtles were documented during visual encounter surveys or hoop-net investigations.

No federally listed bird, reptile, amphibian, fish, or freshwater mussel species were documented during baseline investigations.

3.16.2 Proposed Mining Activities Potentially Affecting Listed Species

Construction, operation, closure, and reclamation activities associated with WPN have the potential to affect ETSC species through habitat disturbance, vegetation removal, increased human activity, noise, vibration, traffic, lighting, and other construction-related activities.

Potential effects will be localized to the Project area and immediately adjacent lands. Activities with the greatest potential to affect ETSC species include vegetation clearing, facility construction, expansion of tailings management facilities, water management activities, and associated infrastructure development.

3.16.3 Potential Impacts and Mitigation to Listed Species

Potential impacts to ETSC species are expected to be greatest during construction activities when habitat disturbance and wildlife displacement are most likely to occur. Potential effects include temporary disturbance, habitat alteration, localized displacement, and reductions in habitat quality within portions of the Project area.

Project design incorporates numerous measures intended to avoid, minimize, and mitigate potential impacts to listed species and their habitats. These measures include consideration of seasonal wildlife use and suitable habitat during vegetation clearing, where practicable, implementing stormwater management systems, erosion and sediment control practices, engineered containment systems, dust suppression measures, spill prevention and response procedures, and environmental monitoring programs. Operational areas will be managed to reduce unnecessary wildlife access and minimize potential exposure to mining-related hazards.

Habitat disturbance is expected to occur primarily within areas previously affected by historical mining, timber harvest, and industrial activities. Impacts outside the Project area are expected

to be limited. Environmental monitoring and permitting requirements will provide additional mechanisms for identifying and addressing potential impacts, should they occur.

Following mine closure, disturbed areas will be reclaimed and revegetated in accordance with approved reclamation and closure plans. Reclamation activities are intended to establish stable vegetation communities compatible with surrounding habitats and support long-term ecological recovery of the Project area.

Given the localized nature of the WPN-related disturbances and the planned mitigation measures and reclamation activities, WPN is not expected to result in significant adverse impacts on ETSC species populations at the regional scale. More detail is provided in the MPA (Foth, 2026a).

3.17 Invasive Species – R 202(2)(cc)

Invasive species are non-native organisms that can spread aggressively, displace native species, alter ecological functions, and adversely affect environmental resources. Existing information regarding invasive species within the Project area was obtained by reviewing baseline aquatic and vegetation investigations completed for WPN. The following commissioned studies support this section of the EIA:

- Appendix F-1: Baseline Aquatic Survey Report 2024 (AEM, 2025a), which contains site-specific aquatic surveys conducted in 2024 to characterize existing aquatic biota and habitat conditions within the Mining Area and affected area.
- Appendix F-4: Rare Plant Species Surveys, Natural Community and Land Cover Mapping Report (Stantec, 2025)
- Appendix F-13: Rare Plant Species Survey and Community Mapping Results (Stantec, 2026h).

3.17.1 Invasive Species Conditions within Mining and Affected Area

3.17.1.1 Aquatic Resources

Aquatic surveys conducted within the Project area are summarized in Section 3.14 and Appendix F. A total of 25 fish species, 37 macroinvertebrate taxa, and two freshwater mussel species were identified during aquatic investigations.

Of the fish species documented during surveys, rainbow trout (*Oncorhynchus mykiss*) is not native to Michigan but is not considered an invasive species. No invasive fish species were identified during aquatic investigations.

Macroinvertebrates were generally identified to the family or order level rather than to species. Consequently, the presence or absence of individual invasive macroinvertebrate species could not be conclusively determined. Crayfish were observed during aquatic surveys; however, species-level identification was not completed. Therefore, the presence of rusty crayfish (*Faxonius rusticus*), an invasive crayfish species known to occur in parts of Michigan and the Great Lakes region, could not be confirmed or ruled out based on the available survey data.

No invasive freshwater mussel species were identified during aquatic investigations.

3.17.1.2 Vegetation

Vegetation surveys conducted between 2024 and 2026 documented plant communities, land cover types, and plant species occurring within the Project area. Invasive plant species were identified by cross-referencing species documented during field surveys with invasive species information maintained by the MDNR and the Midwest Invasive Species Information Network.

Several invasive plant species were documented within the Project area. These species are summarized in Table 3-20. Invasive plant species occur primarily within previously disturbed portions of the Project area associated with historical mining activities, transportation corridors, developed areas, and early successional habitats.

3.17.1.3 Wildlife

Wildlife surveys summarized in Appendices F-5 through F-12 did not identify invasive wildlife species within the Project area.

3.17.2 Proposed Mining Activities Potentially Affecting Invasive Species

Construction, operation, closure, and reclamation activities associated with WPN have the potential to influence the distribution and abundance of invasive plant species through vegetation disturbance, soil movement, equipment operations, and reclamation activities.

Areas disturbed during construction may provide opportunities for invasive plant establishment if appropriate management practices are not implemented.

3.17.3 Potential Impacts and Mitigation of Invasive Species

Potential impacts associated with invasive species will primarily affect invasive vegetation. Existing invasive plant populations encountered within construction areas may be removed or managed as part of site preparation and ongoing land management activities.

BMPs will be implemented during construction, operation, and reclamation to minimize the introduction and spread of invasive species. Such measures may include equipment cleaning, management of disturbed soils, erosion and sediment control practices, monitoring of revegetated areas, and use of approved seed mixes and plant materials.

Reclamation activities will include revegetation of disturbed areas with species appropriate for the surrounding ecological communities and consistent with applicable regulatory requirements. These measures are intended to reduce opportunities for the establishment of invasive species and promote the recovery of native vegetation communities.

Based on existing conditions and planned management measures, invasive species are not expected to spread as a result of WPN.

3.18 Cultural, Historical, and Archeological Resources – R 202(2)(ee)

A Phase I archaeological investigation was completed to identify cultural, historical, and archaeological resources that could be affected by WPN development. The investigation included a records review, Tribal engagement, pedestrian reconnaissance, and shovel testing conducted in accordance with Michigan State Historic Preservation Office standards. The Area of Potential Effects (APE), which corresponds to the Project area, encompasses approximately 3,155 acres. Approximately 490 acres of the Project area were evaluated through pedestrian

survey and excavation of 103 shovel test pits, as shown on Figure 3-30. The results of the investigation are documented in Appendix G.

- **Appendix G:** Gray & Pape, Inc. (Gray & Pape, 2024). Phase I Archaeological Investigations for the White Pine Copper North Project, Ontonagon County, Michigan.

3.18.1 Existing Resources

No National Register of Historic Places-listed archaeological resources, archaeological sites, or cemeteries were identified within the Project area. Review of records maintained by the Michigan State Historic Preservation Office identified three previously recorded archaeological sites within 1.6 km (1 mile) of the Project area. A small portion of one previously recorded historic mining-related site extends into the APE. These sites are summarized in Table 3-21 and shown on Figure 3-30.

The Phase I archaeological investigation included records review, Tribal engagement, pedestrian survey, and shovel testing conducted between June 9 and June 14, 2024. No archaeological resources were identified within surveyed portions of the Project area. The Project area has been substantially affected by historical mining, logging, grading, filling, and other industrial activities. In addition, large portions of the area are characterized by poorly drained soils, wetlands, and areas of standing water.

As part of the cultural resources evaluation, Tribal communities with cultural affiliations to the region were contacted and invited to participate in the investigation. Representatives of the Keweenaw Bay Indian Community and the Lac Vieux Desert Band of Lake Superior Chippewa Indians participated in field investigations. No archaeological resources or cultural concerns were identified during engagement. Additional Tribal engagement completed in 2025 did not identify cultural resources requiring avoidance or special management measures.

Based on the results of the records review, Tribal engagement, and field investigations, the Phase I archaeological investigation concluded that no additional cultural resource investigations are warranted within the Project area.

3.18.2 Proposed Mining Activities Potentially Affecting Cultural, Historical, and Archeological Resources

WPN activities with the potential to affect cultural, historical, and archaeological resources include vegetation clearing, grading, excavation, construction of buildings and infrastructure, development of the mine portal, utility installation, and other ground-disturbing activities. These activities could affect previously unidentified cultural resources if such resources are present within areas of disturbance.

No aboveground historic resources were identified within the Project area. Neither the historic WPM nor later twentieth-century mining facilities are located within the current Project area. Consequently, WPN activities are not expected to directly affect known historic resources or alter the setting of remaining historic mining features in the surrounding area.

3.18.3 Mitigation of Impacts to Significant Resources

Based on the results of the Phase I archaeological investigation, significant impacts to known cultural, historical, or archaeological resources are not anticipated.

Although no archaeological resources were identified within the Project area, WPC will implement an inadvertent discovery procedure during construction and operations. If archaeological materials, human remains, or other cultural resources are encountered during ground-disturbing activities, work in the immediate area will cease, and the appropriate regulatory agencies, Tribal representatives, and qualified cultural resource professionals will be notified. Appropriate avoidance, documentation, evaluation, and mitigation measures will be implemented before work resumes.

Implementation of these measures is expected to avoid or minimize potential impacts to previously unidentified cultural, historical, and archaeological resources.

3.19 Air Quality and Climatology – R 202(2)(ff),(gg)

Baseline air quality, climate, and meteorological conditions for WPN were characterized using available regional air quality data, historical climate records, modeled precipitation, and site-specific meteorological observations. Existing air quality was characterized using background concentrations for criteria pollutants provided by the EGLE. Climate conditions were characterized using historical temperature data for Ironwood, Michigan, and precipitation estimates developed as part of the WPN GoldSim water balance model. Site-specific wind conditions were characterized using observations collected at the WPN meteorological (MET) station.

A summary of monthly temperature, precipitation, snowfall and snowmelt, and wind conditions is provided in Table 3-22. The locations of the Ironwood climate station and WPN MET station are shown on Figure 3-31. Development of the GoldSim climate model is described in Appendix C-4.

3.19.1 Existing Air Quality and Climate Conditions within Mining and Affected Area

3.19.1.1 Air Quality

Existing air quality in the vicinity of WPN is represented using background concentrations for criteria pollutants provided by EGLE for use in evaluating WPN. The available background concentrations include carbon monoxide (CO), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), particulate matter with aerodynamic diameters less than or equal to 2.5 micrometers ($PM_{2.5}$) and 10 micrometers (PM_{10}), and lead.

The EGLE-provided background concentrations are 4,756 micrograms per cubic meter ($\mu g/m^3$) for 1-hour CO and 1,392 $\mu g/m^3$ for 8-hour CO; 11.7 $\mu g/m^3$ for 1-hour NO_2 and 1.9 $\mu g/m^3$ for annual NO_2; 7.9 $\mu g/m^3$ for 1-hour SO_2 and 8.4 $\mu g/m^3$ for 3-hour SO_2; 14 $\mu g/m^3$ for 24-hour $PM_{2.5}$ and 5.3 $\mu g/m^3$ for annual $PM_{2.5}$; 54.7 $\mu g/m^3$ for 24-hour PM_{10}; and 0.04 $\mu g/m^3$ for the 3-month average lead concentration. These concentrations represent regional background conditions identified by EGLE from monitoring locations in Michigan and Wisconsin and provide the baseline concentrations for evaluating potential air quality impacts associated with WPN.

3.19.1.2 Climate and Meteorology

WPN is located in the western Upper Peninsula of Michigan, where climate conditions are characterized by cold winters, mild summers, and precipitation throughout the year. Temperature conditions summarized in Table 3-22 are based on historical observations from Ironwood, Michigan, for the period 1902 through 2024. The historical record indicates an

average annual temperature of approximately 4.7°C (40.4°F). Average monthly temperatures range from approximately -11.2°C (11.8°F) in January to 19.3°C (66.8°F) in July.

Precipitation conditions were characterized using the stochastic climate model incorporated into the WPN GoldSim operational water balance. As described in Appendix C-4, the GoldSim model incorporates annual precipitation as a stochastic input and accounts for projected changes in precipitation over time using National Oceanic and Atmospheric Administration (NOAA) Climate Explorer projections for Ontonagon County. The model applies a normal distribution around the projected mean annual precipitation and uses 1,000 realizations to represent climatic variability. The precipitation relationship was developed from NOAA Climate Explorer projections using the R85 high-emissions scenario, and annual precipitation is distributed among months using seasonally varying percentages.

Based on the GoldSim simulations summarized in Table 3-22, average annual precipitation is approximately 870 mm (34.3 inches), with simulated annual totals ranging from approximately 243 to 1,524 mm (9.6 to 60.0 inches). The model also accounts for seasonal snow accumulation and spring snowmelt. Precipitation occurring during December through February is accumulated as snow water equivalent, with 40% of the accumulated amount released during March and the remaining 60% released during April. This treatment allows the modeled climate inputs to represent both annual climatic variability and the pronounced seasonal hydrologic cycle characteristic of the Project area.

Wind conditions are based on observations collected at the WPN MET station. Southwesterly winds are the prevailing wind direction in every month represented in Table 3-22 and account for approximately 27% of observations annually. Secondary winds are generally from the south-southwest, west-southwest, or northeast, depending on season. The site-specific wind observations characterize atmospheric transport conditions at WPN and provide meteorological information applicable to evaluation of potential air quality effects.

3.19.2 Mining Activities Potentially Affecting Air Quality and Climate

3.19.2.1 Air Quality

WPN activities with the potential to affect air quality include land clearing and construction, material handling, vehicle traffic, operation of mobile and stationary equipment, ore handling and processing, fuel combustion, and other operational emission sources. These activities have the potential to generate particulate matter and other regulated air contaminants.

Potential air quality effects associated with WPN, including emissions and atmospheric transport and deposition, are evaluated in Section 4 in conjunction with other potential environmental effects and cumulative impacts.

3.19.2.2 Climate and Meteorology

WPN is not expected to measurably alter regional climatic or meteorological conditions. Climate and meteorology nevertheless represent important environmental design considerations because temperature, precipitation, snow accumulation and snowmelt, and evaporation affect site water management, stormwater controls, tailings disposal facility water management, and other engineering systems.

Climate variability has therefore been incorporated directly into the WPN operational water balance through the GoldSim model described in Appendix C-4. The model combines

deterministic operational water-balance flows with stochastic precipitation and evaporation inputs to evaluate water management performance over a 26-year simulation period. The primary model uses monthly timesteps and 1,000 realizations, with an additional daily-timestep model used to evaluate specified 24-hour storm events.

3.19.3 Potential Impacts and Mitigation to Air Quality

Potential air quality impacts associated with WPN will result primarily from emissions generated during construction and operation, including fugitive dust, combustion emissions, and emissions associated with material handling and processing. Potential impacts will be evaluated using applicable emissions estimates, air dispersion and deposition analyses, and comparison with applicable federal and state air quality requirements.

Air quality protection measures will be incorporated into WPN construction and operating practices, as appropriate, and may include dust suppression, material-handling controls, equipment maintenance and emission controls, and management of vehicle traffic and disturbed surfaces. The air quality and deposition analyses, including consideration of these effects in combination with other environmental stressors and cumulative impacts, are presented in Section 4.

3.20 Aesthetic Resources (Visual/Light, Noise, Seismicity) – R 202(2)(hh)-(kk)

Aesthetic resources are discussed in the context of potential visual, lighting, noise, vibration, and seismic effects associated with WPN. Evaluations of noise, vibration, and lighting conditions were completed by Stantec and are provided in Appendix H. Potentially sensitive receptors include residences, recreational areas, transportation corridors, and other locations where visual, lighting, noise, or vibration effects may be experienced.

The community of White Pine is the closest settlement to WPN. Additional potentially sensitive receptors include users of M-64, nearby residences and seasonal camps, and recreational users of surrounding public lands, including Porcupine Mountains Wilderness State Park. Silver City is located approximately 8 km (5 miles) northwest of WPN, Bergland Township is approximately 19 km (12 miles) south of WPN, and the Village of Ontonagon is approximately 32 km (20 miles) east of WPN. The major population centers of Michigan's Upper Peninsula include Houghton, approximately 111 km (69 miles) northeast of WPN, and Marquette, approximately 201 km (125 miles) east of WPN.

The following studies were completed to evaluate existing conditions and potential impacts:

- **Appendix H-1:** Stantec, 2026i. Lighting Impact Assessment.
- **Appendix H-2:** Stantec, 2026j. Noise and Vibration Analysis Report.

3.20.1 Existing Aesthetic Resource Conditions Within the Affected Area

3.20.1.1 Visual Resource Conditions

The WPN Project area is located within a historically developed mining landscape that includes former mining facilities, tailings management areas, utility corridors, roadways, and other infrastructure associated with the historic WPM. Surrounding land cover consists primarily of mixed forest, wetlands, and reclaimed mining lands. Existing visual conditions are characterized by a combination of natural landscape features and legacy industrial development.

Visual sensitivity is greatest at nearby residences, along M-64, and at recreational areas in the surrounding region, including portions of the Porcupine Mountains Wilderness State Park. Existing industrial features associated with historical mining activities remain visible throughout portions of the area and contribute to the current visual character of the landscape.

3.20.1.2 Baseline Light Conditions

Existing nighttime light conditions were characterized through baseline monitoring conducted at six locations surrounding the Project area, including nearby communities, rural residential areas, and recreational areas within Porcupine Mountains Wilderness State Park. Monitoring locations are shown on Figure 3-32.

Baseline monitoring was conducted during periods of clear skies with the moon below the horizon to characterize ambient nighttime conditions. Measurements included illuminance (light trespass) and sky brightness (sky glow). Monitoring locations included Lost Creek Outpost, Union River Outpost, Silver City, White Pine, and representative receptor locations northeast and southeast of the Project area.

Results of the baseline monitoring are summarized in Table 3-23. Measured light trespass levels at all monitoring locations were below the instrument detection limit of 0.01 lux. Average sky brightness measurements ranged from 20.7 to 21.8 magnitudes per square arc-second (mag/arcsec², indicating generally dark nighttime conditions characteristic of rural environments. Mag/arcsec^2 measures the brightness of the night sky by describing how much light from celestial objects is spread over a square arcsecond of the sky.

Based on the measured light conditions, most monitoring locations were classified as Commission Internationale de l'Éclairage (CIE) Environmental Zone E1 (Dark Rural Area). The White Pine community was classified as Environmental Zone E2 due to existing residential and roadway lighting. Overall, baseline lighting conditions in and around the Project area are representative of a rural setting with minimal existing artificial lighting.

3.20.1.3 Baseline Noise Conditions

Ambient baseline noise data were collected from October 6 through October 13, 2025, at the locations shown on Figure 3-33. The monitoring program documented existing sound conditions prior to Project development using sound level meters deployed continuously for 7 days.

Noise measurements included the equivalent continuous sound level (Leq) and the L10, L50, and L90 statistical sound levels. Monitoring locations were selected to represent nearby residences, camps, and more remote receptors potentially affected by Project activities.

The four monitoring locations were:

- ML-1: Western portion of the Project area adjacent to M-64, representing residences and camps near the proposed mine portal and processing facilities.
- ML-2: Northeast of the Project area within a more remote setting representative of ambient conditions expected near Porcupine Mountains Wilderness State Park.
- ML-3: Near the northern edge of the Project area, representing the most populated residential area north of WPN.

- ML-4: Southwest portion of the Project area representing residences along Hemlock Street, Trailer Court Road, Copper Street, and Copper Court.

Table 3-24 summarizes measured daytime and nighttime ambient sound levels.

The measured background sound levels were generally characteristic of rural environments with limited development. Monitoring locations ML-1, ML-2, and ML-4 exhibited daytime background sound levels of 32-37 decibel A scale (dBA) and nighttime background sound levels of 25-33 dBA. Higher background sound levels measured at ML-3 reflect its closer proximity to local roadways and commercial activities.

3.20.1.4 Baseline Seismic Conditions

The Michigan Geological Survey characterizes Michigan as a region of relatively low seismicity, and the USGS identifies the Upper Peninsula as one of the lower seismic-hazard regions in the United States. No active faults have been identified within the vicinity of WPN.

Seismic hazard mapping indicates a low probability of damaging ground motion within Ontonagon County relative to many other regions of the United States (Figure 3-34). The Project area is not located within a region of known active tectonic deformation, and existing sources of anthropogenic vibration are limited primarily to roadway traffic, forestry activities, and routine industrial operations.

No significant ongoing sources of seismic vibration currently occur within the Project area.

3.20.2 Proposed Mining Activities, Potential Impacts, and Mitigation to Aesthetic Resources

3.20.2.1 Visual and Lighting Impacts and Mitigation

Construction and operation of WPN will introduce new aboveground facilities, lighting systems, vehicle traffic, and industrial activity that may alter existing visual conditions within the Project area. Potential visual impacts will primarily occur at nearby residences, along M-64, and at other locations where Project infrastructure may be visible.

Nighttime operations will require exterior lighting to support worker safety, security, traffic movement, and operation of mining and processing facilities. A Lighting Impact Assessment was completed to evaluate the potential effects of the Project lighting on nearby receptors. The assessment included baseline monitoring of nighttime lighting conditions and predictive modeling of light trespass, glare, and sky glow using AGi32 photometric analysis software.

Figure 3-32 shows the locations of nearby receptors and baseline light monitoring locations, while Figure 3-35 presents the predicted illuminance levels associated with WPN lighting. Modeling incorporated the proposed lighting layout, luminaire specifications, fixture orientation, and receptor locations. The lighting design uses full-cut-off luminaires to minimize backlight, uplight, and glare.

Predicted lighting effects modeling at nearby receptors indicates that light trespass at all evaluated receptor locations will remain below 0.01 lux, maximum glare levels will be 0 candela, and the upward light ratio will be 0%. Predicted lighting levels comply with applicable CIE guidelines for nearby rural receptors. The modeled 0.001-lux illuminance contour shown on

Figure 3-35 remains localized around the primary lighting sources and does not extend to nearby residences or recreational receptors.

Mitigation measures incorporated into the WPN design include the use of full cut-off fixtures, downward-directed lighting, minimization of uplight, and lighting placement intended to reduce off-site light trespass and glare. Operational lighting will be limited to the areas necessary for safe and efficient operation of the facility.

Based on the results of the Lighting Impact Assessment and implementation of these design measures, significant adverse visual or lighting impacts are not anticipated.

3.20.2.2 Noise-Generating Activities, Impacts, and Mitigation

Noise-generating activities associated with WPN include site preparation, earthmoving, operation of construction equipment, blasting, material handling, processing plant operations, mine ventilation systems, and vehicle traffic.

Noise modeling indicates that peak daytime construction sound levels at nearby sensitive receptors are predicted to be 53 dBA or less, which is below the recommended daytime construction design goal of 70 dBA.

Operational noise modeling indicates that sound levels at nearby sensitive receptors are predicted to be 46 dBA or less during daytime and 45 dBA or less during nighttime. These predicted sound levels meet the recommended operational noise design goals of 55 dBA during daytime periods and 45 dBA during nighttime periods.

Table 3-25 summarizes predicted maximum sound levels and applicable design goals.

The highest operational sound levels are predicted at residences located west of the processing facilities along M-64. Most nearby residences are expected to experience operational sound levels of 40 dBA or less during both daytime and nighttime periods.

Noise mitigation measures incorporated into the WPN design include:

- Natural gas turbine exhaust silencers;
- Mine portal ventilation fan silencers;
- Mine raise ventilation fan silencers;
- Noise barriers or acoustic enclosures at the primary crushing station;
- Transfer-point barriers, low-noise equipment, or acoustic enclosures along conveyor systems; and
- Process plant construction utilizing a Sound Transmission Class 45 building system.

Additional BMPs may include broadband backup alarms, equipment maintenance programs, limiting construction activities to daytime hours where practicable, and implementation of a noise complaint resolution process.

Based on the implementation of the identified mitigation measures, significant noise impacts are not anticipated.

3.20.2.3 Seismic and Vibration Impacts and Mitigation

Ground vibration associated with WPN will primarily result from construction equipment, heavy vehicle traffic, underground blasting, and mining operations.

Construction and operational vibration modeling indicates vibration levels at nearby residences are expected to remain substantially below commonly accepted criteria for both structural damage and human annoyance. Predicted vibration levels are less than 42 Vibration Decibels (VdB) during construction and less than 35 VdB during routine operation, compared to the recommended criteria of 94 VdB for structural damage and 72 VdB for human annoyance.

Underground blasting will occur periodically to facilitate mine development and production. Blasting events are expected to be short-duration, controlled activities conducted in accordance with detailed blast designs and operational procedures. Vibration analyses indicate that published industry criteria for structural damage and human annoyance are not expected to be exceeded at nearby residences.

Mitigation measures include:

- Use of controlled blasting practices and delay sequencing;
- Blast designs that limit peak particle velocity;
- Monitoring of blast vibrations using seismographs where appropriate;
- Compliance with applicable industry standards for vibration management; and
- Ongoing evaluation and adjustment of blasting practices as mining progresses.

Based on the results of the vibration analysis, vibration associated with construction, blasting, and mining operations is not anticipated to adversely affect nearby residences, infrastructure, or surrounding communities.

4. Cumulative Impacts – R 202(2)(b)

An analysis of potential cumulative impacts was conducted to evaluate additive effects and significant interactions between the chemical and physical properties of WPN emissions and those of the surrounding environment. Consistent with the approach used to evaluate cumulative impacts for other nonferrous metallic mineral mining projects in Michigan, the analysis focuses on atmospheric deposition of constituents emitted from WPN and their potential accumulation in soil and surface water resources. Details about the atmospheric deposition modeling are provided in Appendix I.

Four constituents, copper, mercury, silver, and sulfur, were retained for quantitative evaluation. Copper and silver were retained because they are target metals associated with WPN and are among the more prominent constituents in modeled facility emissions. Sulfur was retained because atmospheric deposition of sulfur may contribute to acid-generating conditions, and modeled sulfur deposition was conservatively converted to an equivalent sulfate deposition rate for evaluation of potential effects on soil and surface water chemistry. Mercury was retained because of its environmental significance as a bioaccumulative substance in the Great Lakes region.

Atmospheric dispersion and deposition of these constituents were evaluated using the American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD), implemented using the BREEZE graphical user interface. The modeling uses a Cartesian receptor grid with 200 m (656 ft) spacing surrounding WPN to quantify spatial patterns in predicted deposition. The resulting deposition rates provide the basis for evaluating potential cumulative effects on soil and surface water resources.

4.1 Description of Potential Cumulative Impact

Airborne particulate matter and other emissions generated by WPN can disperse beyond individual emission sources and deposit onto surrounding land and surface waters. Once deposited, constituents may accumulate in soil or be transported by precipitation and runoff to nearby surface water resources. The cumulative-effects evaluation, therefore, considers whether atmospheric deposition over the operating life of WPN could result in constituent accumulation sufficient to adversely affect soil or surface water quality.

The assessment focuses on two principal environmental pathways: direct accumulation in soil and deposition within watersheds, followed by transport to surface water. This approach provides a conservative means of evaluating whether long-term atmospheric deposition could adversely affect existing environmental conditions.

4.1.1 Soil

Potential cumulative impacts to soil were evaluated at 13 proposed soil monitoring locations established along the perimeter of the Project area, including one targeted location near a principal emission source. The monitoring locations are physical locations rather than AERMOD receptor centers. For each monitoring location, the corresponding 200 m by 200 m (656 ft by 656 ft) AERMOD receptor cell was identified, and the modeled deposition value at that cell's receptor was assigned to the monitoring location. No spatial interpolation of modeled deposition values was performed.

For each monitoring location, modeled deposition of copper, silver, sulfur, and mercury was used to estimate potential accumulation of these constituents in soil. Deposition was conservatively assumed to be completely retained within the upper 2 cm (0.8 inch) of soil, with no losses attributable to erosion, runoff, leaching, plant uptake, or other processes. Potential soil concentrations were evaluated after 1 year and 7 years of deposition and compared with representative baseline soil concentrations and selected soil comparison values, as appropriate.

The calculated deposition increments were small relative to existing soil concentrations and selected comparison values. Predicted soil concentrations for copper, silver, and mercury remained below their respective comparison values after 7 years of modeled deposition. Baseline sulfate concentrations were not available; however, the calculated sulfate increment after 7 years was small relative to the selected sulfate comparison value. These results indicate that modeled atmospheric deposition from WPN is unlikely to materially alter soil concentrations of the evaluated constituents. Detailed calculations and results are provided in Appendix I.

4.1.2 Surface Water

Potential cumulative effects on surface water were evaluated for the Big Iron River and Argentine Creek using modeled deposition within the Anderson Creek-Big Iron River and Duck Creek-Frontal Lake Superior HUC12 watersheds, respectively. These subwatersheds were selected because they receive drainage from areas surrounding WPN and provide an appropriate spatial basis for conservatively evaluating potential transport of atmospherically deposited constituents to surface water.

The 200-m (656 ft) AERMOD receptor grid was used to spatially integrate modeled deposition across each HUC12 watershed. Modeled deposition rates were applied to the actual area of overlap between each AERMOD grid cell and the respective watershed to calculate annual constituent loads. The resulting annual loads were divided by annualized streamflow volumes to estimate the incremental receiving-water concentrations. Consistent with the conservative screening approach described in Appendix I, modeled watershed deposition was assumed to be fully delivered to the receiving surface water, with no reduction due to retention or attenuation in soils, vegetation, wetlands, sediments, groundwater, or other watershed features.

Copper and silver increments were evaluated relative to applicable Michigan Rule 57 aquatic-life Final Chronic Values (FCVs), with copper FCVs calculated over the observed range of water hardness. Mercury was evaluated relative to the more restrictive Rule 57 wildlife value. Sulfur was conservatively converted to sulfate, assuming complete conversion, and sulfate increments were evaluated as a screening measure because an applicable Rule 57 FCV is not established for sulfate.

For the Big Iron River, calculated deposition-related increments were small relative to the applicable screening values under both the representative historical mean-flow and conservative flow-sensitivity cases. For Argentine Creek, calculated silver and mercury increments were also small relative to their applicable screening values. The screening calculation produced copper increments above the hardness-dependent Rule 57 FCV under the evaluated flow conditions. However, this screening calculation conservatively assigns the entire modeled copper deposition load for the approximately 87.3 square kilometer (33.7 square mile) Duck Creek-Frontal Lake Superior HUC12 to Argentine Creek, although Argentine Creek

represents only one of multiple drainages within the HUC12 and further assumes that all deposited copper is delivered to the stream. Accordingly, the calculated copper increments represent conservative upper-bound screening estimates rather than predicted receiving-water concentrations or a determination of compliance with water quality standards. Detailed calculations and results are provided in Appendix I.

4.2 Potential Air Deposition Impacts

The quantitative evaluation indicates that modeled WPN atmospheric deposition is unlikely to result in significant cumulative adverse effects to soil or surface water resources. Soil deposition increments were small relative to baseline concentrations and selected comparison values over the evaluated 7-year accumulation period. Surface water screening likewise produced small constituent increments for the Big Iron River and for silver and mercury in Argentine Creek. The Argentine Creek copper screening calculation produced an increment above the hardness-dependent Rule 57 FCV; however, as described above and in Appendix I, this result reflects intentionally conservative assumptions that substantially over-allocate watershed deposition to Argentine Creek and assume complete transfer of deposited mass to surface water.

Sulfur deposition was also evaluated independently using a sulfate-deposition screening approach. The maximum modeled WPN sulfate-equivalent contribution was 0.388 kilograms per hectare per year (kg/ha/yr). When added to the 2024 National Atmospheric Deposition Program background wet sulfate deposition rate of 2.017 kg/ha/yr, the combined rate was 2.405 kg/ha/yr, or approximately 21.9% of the former Minnesota sulfate deposition benchmark of 11 kg/ha/yr used for screening. The WPN contribution alone represents approximately 3.5% of that benchmark. This comparison is conservative because the regional background deposition rate was combined with the maximum modeled WPN sulfate-equivalent deposition rate at any AERMOD receptor, rather than the average modeled WPN deposition rate.

Based on the combined soil, surface water, and sulfate-deposition evaluations, atmospheric deposition associated with WPN is unlikely to result in significant cumulative adverse impacts on soil or surface water resources.

The evaluation incorporates conservative assumptions regarding watershed delivery, streamflow, sulfur-to-sulfate conversion, and soil retention and accumulation, as described in Appendix I.

5. Feasible and Prudent Alternatives – R 425.202(1)(c)

An evaluation of feasible and prudent alternatives was completed for WPN to identify alternatives that satisfy the purpose and need for the mining operation while minimizing adverse environmental impacts. The detailed evaluation is presented in the Alternatives Analysis (Foth, 2026h) [Appendix J]. The analysis was developed to support both Part 632, Nonferrous Metallic Mineral Mining, and Part 303, Wetlands Protection, and provides a common technical basis for evaluating alternatives under the two regulatory programs.

The purpose of WPN is to develop the geologically fixed copper and associated silver resource and produce saleable concentrate in an environmentally responsible manner that supports effective reclamation and sustainable closure. Because the mineral resource cannot be relocated, the alternatives evaluation focused primarily on feasible changes in mining method, facility configuration, material handling, processing, supporting infrastructure, and tailings management.

Alternatives were evaluated based on technical and practical feasibility, economics, environmental performance, wetland avoidance and minimization, ecological resources, cultural resources, scenic and recreational resources, and public health. Technical feasibility considered whether an alternative could realistically be implemented using available technology and within the physical constraints of WPN, while practical feasibility considered operational, environmental, commercial, cost, and logistical uncertainties.

5.1 No Action Alternative

Under the No Action Alternative, WPN would not be developed, no new mining or supporting infrastructure would be constructed, and no additional copper or silver would be extracted. This alternative would avoid new surface disturbance and new direct impacts to wetlands and other environmental resources.

The No Action Alternative would not, however, eliminate existing environmental conditions associated with the historic WPM. Existing tailings facilities, process-affected water, and associated long-term water-management obligations would remain. Thus, the No Action Alternative would maintain the existing Brownfield condition rather than return the site to an undeveloped condition.

The No Action Alternative also would not accomplish the purpose and need for WPN because the copper-silver resource would remain undeveloped. Accordingly, while the alternative would avoid new environmental impacts, it was not selected as the preferred alternative.

5.2 Mining Method

Open-pit, in-situ, and several underground mining methods were considered during development of WPN. Open-pit mining was not carried forward because the depth of the orebody would require substantially greater excavation, waste-rock generation, surface disturbance, and wetland impacts and would result in poor economic viability. In-situ recovery was also not considered feasible because the low permeability of the host rock would prevent effective movement of leaching solutions through the orebody.

Among the underground alternatives, modified room-and-pillar mining was selected over room-and-pillar with partial pillar recovery, L-Block Retreat, and Drift, Slash, and Fill. The selected

method is well suited to the geometry and geotechnical conditions of the orebody, provides predictable ground control and production, limits surface disturbance, and does not require large-scale backfill. The alternative underground methods offered opportunities for increased resource recovery but introduced additional geotechnical complexity, backfill requirements, operational risk, surface infrastructure, and cost.

Modified room-and-pillar mining therefore provides the preferred balance of technical feasibility, operational reliability, environmental performance, and economic viability.

5.3 Surface Facilities and Material Handling

Alternative surface facility layouts were evaluated to minimize environmental disturbance while maintaining efficient access to the underground mine, processing plant, water management systems, utilities, and transportation infrastructure. The selected configuration concentrates facilities within and adjacent to previously disturbed industrial areas to the extent practicable and avoids or reduces conflicts with the Village of Ontonagon potable water treatment plant, the Mineral River and its tributaries, and regulated wetlands.

The preferred layout resulted in the lowest direct wetland impact among the surface facility alternatives evaluated, minimized earthwork and new utility extensions, and provided a compact configuration that maximizes use of previously disturbed industrial land.

For underground material handling, WPN will use production-area mobile equipment in combination with a fixed conveyor system for main haulage to the surface. Compared with truck-only haulage, conveyor transport reduces long-term fuel consumption, underground diesel emissions, heat load, ventilation requirements, and operating costs while providing reliable material movement.

5.4 Ore Processing

WPN will use conventional grinding and flotation to produce a saleable copper concentrate. The selected processing method is a mature and commercially proven technology appropriate for the fine-grained copper mineralization at WPN and integrates effectively with the Project water management and tailings management systems. Processing operations will generally be housed within enclosed or covered facilities to control dust, noise, and weather-related effects.

Gravity separation and hydrometallurgical processing were evaluated as alternatives. Gravity separation was not preferred because the fine-grained chalcocite-dominant mineralization would require additional grinding and would be expected to achieve lower recovery than flotation. Hydrometallurgy would require substantially greater chemical handling, solution-management infrastructure, water treatment, and surface disturbance and would introduce greater technical and operational complexity.

Off-site processing was also considered but was not carried forward because available regional processing facilities do not provide sufficient throughput capacity or compatible processing and tailings-management capabilities. Conventional on-site grinding and flotation therefore provide the preferred combination of recovery, technical reliability, environmental control, and economic performance.

5.5 Tailings Management

Tailings management alternatives included conventional unthickened slurry, thickened tailings, paste-thickened tailings, filtered dry-stack tailings, underground backfill, and development of a new greenfield TDF. Tailings management represents a particularly important component of the alternatives evaluation because the selected method affects land disturbance, wetland impacts, water management, geotechnical stability, and long-term reclamation and closure.

WPN will use paste-thickened tailings deposited within the existing historic TDF, initially within NP1 and subsequently within NP2. Tailings will be thickened to approximately 60% solids by weight prior to conveyance. Reuse of the existing TDF avoids construction of a new greenfield facility, minimizes new land and wetland disturbance, improves water recovery, and provides sufficient storage for the anticipated LOM tailings volume.

Conventional and thickened tailings alternatives would retain greater quantities of water and increase reclaim-water management and closure requirements. Under the current LOM basis, thickened tailings also may require additional storage capacity beyond the existing TDF footprint. Filtered dry-stack tailings would provide favorable geotechnical and water management characteristics but would require substantial additional infrastructure, energy, and capital investment and construction of a new storage area outside the existing TDF footprint. Underground backfill is not compatible with high-volume tailings placement under the selected room-and-pillar mining method.

Greenfield tailings facilities were also evaluated but would require extensive new land disturbance and substantially greater impacts to wetlands and other natural resources compared with reuse of the existing historically disturbed TDF. Paste-thickened tailings within the existing TDF were therefore selected as the alternative providing the best overall combination of storage efficiency, water management, environmental protection, wetland avoidance, and closure performance.

5.6 Energy, Water Supply, and Transportation

WPN will use a hybrid power supply consisting of utility-imported high-voltage power and on-site natural gas-fired generation operating in parallel. This configuration provides independent power sources and greater operational resilience than reliance solely on the regional electrical grid. Renewable wind and solar generation were considered but were not considered feasible as the primary Project power source because of the continuous and reliability-sensitive electrical demand of the mine and processing facilities, the need for substantial energy storage, and the additional land area required for utility-scale renewable generation.

The selected water supply alternative uses existing regional infrastructure associated with Lake Superior and municipal service. This alternative avoids development of new groundwater well fields and associated pipelines and provides a more reliable source than local groundwater, which is constrained by low-yield unconsolidated deposits and low-permeability bedrock.

For concentrate transportation, the proposed strategy combines truck transport from WPN to an off-site transload facility with subsequent rail shipment. This approach reduces long-distance truck transportation while avoiding the substantial infrastructure improvements that would be required to restore rail service directly to WPN. Rail-only and truck-only alternatives were considered; however, the combined truck-and-rail strategy provides the preferred balance of

infrastructure requirements, transportation flexibility, environmental effects, and operational practicality.

5.7 Summary of Feasible and Prudent Alternatives

The alternatives evaluation demonstrates that the proposed WPN configuration provides the preferred overall combination of technical feasibility, operational practicality, environmental performance, and long-term closure performance. Across the principal Project components, the selected alternatives generally maximize use of previously disturbed or industrially influenced areas, rely on established and commercially proven technologies, minimize new land and wetland disturbance, and avoid more expansive or higher-risk infrastructure.

The preferred configuration consists of modified room-and-pillar underground mining; conveyor-assisted underground material handling; conventional grinding and flotation; a compact surface facility layout emphasizing reuse of previously disturbed land; paste-thickened tailings deposited within the existing TDF; a hybrid utility and natural gas power supply; use of existing regional water-supply infrastructure; and combined truck-and-rail concentrate transportation. Alternatives not selected generally resulted in greater environmental disturbance, greater technical or operational complexity, higher cost or long-term environmental risk, or less favorable reclamation and closure performance.

The Alternatives Analysis (Foth, 2026h) concludes that the proposed WPN configuration provides the strongest overall balance of technical feasibility, environmental performance, and operational practicality among the alternatives evaluated. The selected configuration makes substantial use of previously disturbed or industrially influenced areas, relies on established and commercially proven technologies, minimizes new wetland and aquatic-resource disturbance to the extent practicable, and supports safe operation, reclamation, and long-term environmental protection. Alternatives that were not selected generally involved greater wetland or land disturbance, increased technical or operational complexity, greater long-term environmental risk, or less favorable constructability and closure performance. Accordingly, the selected WPN configuration represents the feasible and prudent alternative that best fulfills the purpose and need for WPN while reasonably minimizing adverse environmental impacts consistent with the requirements of Part 632.

6. References

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Tables

Table 1-1
List of Qualified Professionals Preparing the Application
White Pine Copper LLC - Environmental Impact Assessment

Organization	Individuals	Qualifications
White Pine Copper LLC 1209 Orange Street Wilmington, DE 19801	Chad Wolahan Amanda Zeidler Majed Badiuzzaman Meagen Morrision	Project Director, Mining Engineer Senior Director Environment, Environmental Scientist Senior Project Engineer, P. Eng Manager, External Relations
Kinterra Capital 3930-22 Adeline St. West Toronto, ON M5H 4E3	Henry Lole Simon Jacques Andrew Bodden	V.P. Evaluations & Geology V.P. Evaluations & Metallurgy, PhD V.P. Evaluations & Mining Engineering, P. Eng
Foth Infrastructure & Environment, LLC 2121 Innovation Court, Suite 100 DePere, WI 54115	Gary Braun	Lead Environmental Scientist (Hydrogeology); Professional Geologist
Barr Engineering Michigan LLC 3033 Orchard Vista Drive SE, Suite 200 Grand Rapids, MI 49546	Matt Stone-Palmquist Timothy Greenleaf Randall Phillips	Senior Ecologist, Professional Landscape Architect V.P. Senior Civil/Environmental Engineer, P. Eng Senior Ecologist, Professional Wetland Scientist
Gray & Pape, Inc. 950 S. Ausable Trail Grayling, MI 49738	James Renn	Professional Archaeologist
SRK Consulting 5250 Neil Road, Suite 300 Reno, NV 89502	Brooke Miller Amy Prestia Devin Castendyk	Principal Consultant Geology, Professional Geologist Principal Geochemist Principal Consultant Geochemistry - PhD, Professional Geologist
Stantec Consulting 1165 Scheuring Road DePere, WI 54115-1001	Michael Emmenegger Jacob Poling Brian Bylhouwer Josh Sulman Matt Knickelbine Ryan Glasford	Associate, Senior Scientist Senior Acoustician, INCE Bd. Certified Atmospheric & Climate Science Specialist Senior Environmental Scientist & Botanist, MS PWS Environmental Scientist Wildlife Biologist, MS
Stantec Consulting 3133 W. Frye Road, Suite 300 Chandler, AZ 85226	Paul Schmidt	Project Manager, P. Eng, PMP
Advanced Ecological Management, LLC 22071 7 Mile Road Reed City, MI 49677	R. Douglas Workman	PhD, Fisheries and Wildlife
The Mannik & Smith Group, Inc. 616 Shelden Avenue, Suite 210 Houghton, MI 49931	Jed Chrestensen	Associate and Project Manager, P. Eng
Tetra Tech 1100 S. McCaslin Blvd, Suite 150 Superior, CO 80027	Guy Roemer Greg Council Chad Tomlinson	Senior Enviornmental Engineer, P. Eng, Principal Engineer Project Manager, P. Eng
Limnotech 501 Avis Drive Ann Arbor, MI 48108	Kathryn Hall Steve Casey	Senior Environmental Scientist, QEP Senior Engineer
WSP USA Inc 701 Emerson Road, Suite 250 Creve Coeur, MO 63141	James Smith Justin Roy	Principal Rock Mechanics Engineer, P. Eng Principal Rock Mechanics Engineer, P. Eng, PhD
Michigan Technological University College of Business 1400 Townsend Drive Houghton, MI 49931-1295	Laura Connolly Jenny Apriesnig Gary Campbell	Associate Professor of Economics, PhD Associate Professor of Economics, PhD Professor Emeritus of Economics, PhD
Ausenco 15th Floor, 11 King Street West Toronto, ON M5H 4C7	Diego Mosqueira Julie Boulos	Project Manager Manager, Process Engineering, P. Eng
Dahrouge Geological Consulting USA 7000 S. Yosemite St. Suite 115 Centennial, CO 80015	Trevor Mills David Sachs Paul Richardson	Principal Geologist, PG, SME-RM Project Manager Senior Resource Gelogist, M. Sc.
Resourceful Paths 1409-833 Seymour St Vancouver, BC V6B 0G4	Laurie Reemeyer	Principal Consultant, MBA, P. Eng
Automate Mining LLC Hernando, FL 34442	Jon Treen	President, Mining Engineer, MBA, P. Eng

Prepared by: NAA2
Checked by: CER2

Table 1-2
White Pine North Public Meetings July 2023 to July 2026
White Pine Copper LLC - Environmental Impact Assessment

Date	Meeting Host	Project Presentation
10/26/2023	Carp Lake Township/Ontonagon	Project Update
3/14/2024	Carp Lake Township/Ontonagon	Quarterly Project Update
4/10/2024	KBIC & GLIFWC	Virtual Meeting - Project Overview
6/1/2024	KBIC, LVD	Participation in archaeology field program
6/6/2024	Carp Lake Township/Ontonagon	Quarterly Project Update
9/26/2024	Carp Lake Township/Ontonagon	Quarterly Project Update
12/19/2024	GLIFWC Mining Meeting	Virtual Meeting - Project Update, review baseline study progress and preliminary results
5/22/2025	Carp Lake Township/Ontonagon	Project Update
10/1/2025	Village of Ontonagon Board	Project Update
5/8/2026	KBIC Leadership	Virtual Meeting - Project Update
5/21/2026	Carp Lake Township/Ontonagon	Project Update

Prepared by: NAA2
Checked by: CER2

Table 3-1
Soil Analytical Results
(0-0.5 feet below ground surface)
White Pine Copper LLC - Environmental Impact Assessment

Analyte		Arsenic			Barium			Cadmium			Chromium (Total)*			Copper			Lead			Manganese			Mercury			Nickel			Selenium			Silver			Zinc			Moisture
CAS Number		7440-38-2			7440-39-3			7440-43-9			7440-47-3			7440-50-8			7439-92-1			7439-96-5			7439-97-6			7440-02-0			7782-49-2			7440-22-4			7440-66-6			
Analytical Method		EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 7471B			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			
Unit		mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			%
Sample ID	Sample Date	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result
SS-001_20250908	9/8/2025	**6.2**			54	B		0.54			12			**3900**			9			390	B		**0.27**			12			< 0.7	U		**2.6**			41			16.6
SS-002_20250908	9/8/2025	2.9			26	B		1			5.6			**1200**			8.2			65			0.037			2.8			< 0.69	U		0.78			18			17
SS-003_20250909	9/9/2025	**9.1**			49	B		1.4			17			**5500**			21			170			0.018			17			< 0.63	U		**3.4**			82			15.2
SS-004_20250908	9/8/2025	2.9			62	B		0.093	J		16			16			5.1			200			< 0.0076	U		16			< 0.57	U		0.71			32			12
SS-005_20250908	9/8/2025	**5.6**	F1	J-	58	B		0.91			19			**2600**	F2		9.8			130	F1	J-	0.016	J		15			< 0.64	U		**1.9**	F1	J-	32			16.2
SS-006_20250908	9/8/2025	3.6			56	B		0.87			19			**720**			12			260			0.035			17			< 0.68	U		**1.3**			**200**			25.2
SS-007_20250909	9/9/2025	**20**			130			**5.8**	B		**37**			**9400**			< 43	U		**1500**			0.091			35			< 2.2	U		**5.9**			**160**	J		75.3
SS-008_20250909	9/9/2025	3.2			98			< 0.21	JB	U	13			30			6.3			240			0.0082	J		21			< 0.62	U		0.69			32			14.4
SS-009_20250909	9/9/2025	4.3			81			0.59	B		19			**1400**			8.3			260			0.018			21			< 0.67	U		**1.2**			41			15.9
SS-010_20250909	9/9/2025	2.7			77			< 0.21	JB	U	15			27			5.1			210			< 0.0075	U		16			< 0.63	U		0.65			26			11.3
SS-011_20250908	9/8/2025	3.3			63	B		0.12	J		17			120			5.5			200			0.0099	J		16			< 0.64	U		0.97			33			11.2
SS-012_20250909	9/9/2025	**5.2**			60			0.37	B		16			**1000**			11			220			0.037			19			< 0.63	U		**1**			67			14.7
SS-013_20250908	9/8/2025	2.9			60	B		0.1	J		16			48			5.1			200			< 0.0066	U		15			< 0.58	U		0.81			32			9.4
SS-014_20250909	9/9/2025	**7**			66			1.4	B		15			**3600**			< 12	U		280			0.019			21			< 0.6	U		**2.2**			54	J		13.7
SS-015_20250909	9/9/2025	2.2			23	B		0.27			5.4			**620**			2.9	J		62			0.03			3.9			< 0.56	U		0.98			23			6
SS-016_20250908	9/8/2025	3.4			72	B		0.19			16			110			5			210	B		< 0.0069	U		16			< 0.57	U		0.88			33			10.8
SS-017_20250908	9/8/2025	2.8			65	B		0.089	J		16			28			5.1			200			< 0.007	U		15			< 0.61	U		0.76			31			10.2
SS-018_20250909	9/9/2025	2.8			75			< 0.21	JB	U	12			11			5.3			220			< 0.0073	U		17			< 0.63	U		0.64			27			12.4
SS-019_20250909	9/9/2025	**7.9**			85	B		0.84			**24**			**860**			16			250			0.016	J		22			< 1.1	U		**2.3**			78			47.3
SS-020_20250909	9/9/2025	3.7			82			< 0.21	JB	U	20			90			8.4			260			0.011	J		21			< 0.62	U		0.86			37			16.2
SS-021_20250908	9/8/2025	4.2			32	B		1.7			11			**2000**			3.4			96	B		0.026			9.3			< 0.65	U		**1.5**			18			22.5
SS-022_20250909	9/9/2025	**7.3**			40			1.6	B		13			**6800**			< 16	U		200			0.047			14			< 0.84	U		**4**			< 63	U		32.8
SS-023_20250909	9/9/2025	2.3			32			0.36	B		14			**800**			6.7			130			0.016	J		13			< 0.68	U		0.5	J		30			19.1
SS-024_20250909	9/9/2025	3.2			64			0.41	B		18			**3500**			51			220			< 0.0068	U		17			< 0.65	U		0.76			**460**			11.2
SS-025_20250908	9/8/2025	3.3			61	B		0.091	J		16			14			4.9			180			< 0.0072	U		15			< 0.65	U		0.8			32			10.1
DUP-06_20250908 (SS-025_20250908)	9/8/2025	2.7			63	B		0.095	J		15			14			6.6			200			< 0.0068	U		17			< 0.57	U		0.87			31			10.6
SS-026_20250909	9/9/2025	**4.9**			81			0.64	B		21			**500**			6.5			510			0.016	J		16			< 0.77	U		**1.2**			84			24.3
SS-027_20250908	9/8/2025	**28**			**330**	B		**8.1**			21			**22000**			110			**21000**			**0.48**			19			**11**			**47**			**150**			69.8
SS-028_20250908	9/8/2025	2.6			77			< 0.24	JB	U	17			20			5.8			190			< 0.0083	U		19			< 0.7	U		< 0.15	U		28			21.5
SS-029_20250909	9/9/2025	3.4	J		52			**15**	B		7			**3300**			11			310			**0.16**			11			< 2.1	U		**4.5**			**100**			75.4
SS-030_20250909	9/9/2025	**7.6**			31			0.94	B		6.8			**2900**			< 16	U		90			0.032			3.9			< 0.82	U		0.8			< 61	U		31.3
SS-031_20250908	9/8/2025	**20**			100	B		**4.9**			5.4			**7700**			21			120			**0.18**			8.3			< 2.0	U		**5.8**			51			73.5
SS-032_20250908	9/8/2025	4.2			31	B		0.91			13			**2700**			9.9			100			0.045			11			< 0.7	U		**2.2**			31			20.4
SS-033_20250909	9/9/2025	**4.7**			45	B		0.39			14			**480**			9.6			160			0.028			12			< 0.71	U		**1.2**			30			16.9
SS-034_20250907	9/7/2025	2.7			63			0.1	J		16			33			5.2			220			< 0.0074	U		16			< 0.64	U		0.64			29			11.2
SS-035_20250909	9/9/2025	1.8			30			0.28	B		9.5			**200**			6.5			190			0.019			8.4			< 0.61	U		0.56			29			16.5
SS-036_20250908	9/8/2025	2.2			36	B		0.84			11			**960**			8.9			92	B		0.011	J		8.3			< 0.62	U		0.75			33			16.4
SS-037_20250908	9/8/2025	**5.9**			120	B		1.7			**26**			**2100**			23			320	B		0.11			17			**1.5**	J		**3**			**110**			45.1
SS-038_20250908	9/8/2025	2.8			57	B		**2.8**			8.1			**5900**			19			450	B		0.027			7.6			< 0.75	U		**2.8**			68			31.3
SS-039_20250908	9/8/2025	**9.5**			**290**	B		1.2			**41**			**530**			13			**5000**			0.12			40			**2.5**			**7.4**			**240**			41.4
SS-040_20250909	9/9/2025	2.8			68			0.26	B		17			32			5.7			300			0.014	J		19			< 0.65	U		0.87			35			17.4
SS-041_20250907	9/7/2025	**7**			150	B		0.63			**37**			**1000**			18			440	B		0.036			40			< 0.76	U		**2.4**			**200**			27.3
SS-042_20250907	9/7/2025	3.6			60			0.77			16			**160**			5.6			180			< 0.0078	U		16			< 0.68	U		0.7			33			19.2
SS-043_20250908	9/8/2025	3.7			78	B		0.11	J		17			25			5.2			300	B		< 0.0074	U		20			< 0.65	U		**1.2**			37			10.6
SS-044_20250908	9/8/2025	3			64	B		0.13	J		16			35			5.3			200	B		< 0.0075	U		16			< 0.6	U		0.9			32			13.1
SS-045_20250908	9/8/2025	**16**			120	B		**5.5**			12			**8200**			50			**3600**	B		**0.16**			10			**3.5**			**11**			53			65.4
SS-046_20250908	9/8/2025	**16**			90	B		**15**			11			**13000**			61			860	B		**0.27**			14			**3.8**			**5.9**			**120**			62.9
SS-047_20250908	9/8/2025	3.4			45	B		0.41			18			**220**			12			330	B		0.016	J		13			< 0.62	U		**1.5**			62			15.6
SS-048_20250908	9/8/2025	1.8			22	B		0.18	J		11			96			8			130	B		0.019			11			< 0.63	U		0.73			32			15
SS-049_20250908	9/8/2025	3			46	B		0.28			8			80			21			**1700**	B		0.017	J		4			< 0.71	U		**4.1**			32			20.8
SS-050_20250908	9/8/2025	2.8			60	B		0.11	J		16			16			5.3			180			< 0.0071	U		15			< 0.61	U		0.72			31			12
SS-051_20250907	9/7/2025	3			63	B		0.11	J		16			91			5.6			200	B		< 0.0075	U		17			< 0.59	U		0.96			33			14
SS-052_20250907	9/7/2025	3.2			59			0.14	J		14			110			5.7			170			0.012	J		14			< 0.59	U		0.7			30			13.6
DUP-04_20250907 (SS-052_20250907)	9/7/2025	3.5			59			0.23			15			140			5.6			160			0.013	J		13			< 0.62	U		0.65			29			10.9
SS-053_20250907	9/7/2025	2.8			66	B		0.1	J		17			13			5.3			230	B		< 0.0073	U		17			< 0.62	U		**1**			33			12.8
SS-054_20250907	9/7/2025	2.7			50			0.43			19			**890**			6			290			0.022			17			< 0.73	U		**1.4**			53			30.5
SS-055_20250908	9/8/2025	3.9			67	B		0.21			19			**210**			7.4			250			0.014	J		20			< 0.6	U		**1.1**			42			15.6

Table 3-1 (continued)

Analyte		Arsenic			Barium			Cadmium			Chromium (Total)*			Copper			Lead			Manganese			Mercury			Nickel			Selenium			Silver			Zinc			Moisture
CAS Number		7440-38-2			7440-39-3			7440-43-9			7440-47-3			7440-50-8			7439-92-1			7439-96-5			7439-97-6			7440-02-0			7782-49-2			7440-22-4			7440-66-6			
Analytical Method		EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 7471B			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			
Unit		mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			%
Sample ID	Sample Date	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result
DUP-05_20250908 (SS-055_20250908)	9/8/2025	4.5			72	B		0.36			21			**290**			8.1			250			0.025			22			< 0.67	U		**1.1**			47			15.7
SS-056_20250907	9/7/2025	**8.1**			61			1.9			**34**			**1600**			8.2			200			< 0.0072	U		14			< 0.62	U		**1.2**			**120**			8.5
SS-057_20250907	9/7/2025	3			51	B		0.13	J		15			80	F1F2	J+	5.2			160	BF1	J+	< 0.0071	U		15			< 0.58	U		0.64		J	31			15.3
SS-058_20250907	9/7/2025	2.8			63			0.12	J		17			36		J	5.2			190			< 0.0075	U		16			< 0.61	U		0.54			29			11.8
DUP-03_20250907 (SS-058_20250907)	9/7/2025	3.1			58			0.11	J		17			15		J	5.5			220			< 0.0075	U		17			< 0.61	U		0.64			29			11
SS-059_20250907	9/7/2025	3.3			51			0.37			16			**360**			6			250			0.0074	J		16			< 0.63	U		0.8			31			15.6
SS-060_20250907	9/7/2025	3.5			120			0.37			**35**			**2400**			< 2.1	U		720			0.017	J		35			< 1	U		**2.1**			**100**			45.6
SS-061_20250907	9/7/2025	3.2			63	B		0.17	J		18			36			5.7			260	B		0.01	J		19			< 0.64	U		**1.1**			49			13.4
SS-062_20250907	9/7/2025	**5**			78			0.73			12			**270**			13			650			0.027			8.9			< 0.68	U		**1.8**			57			24.8
SS-063_20250907	9/7/2025	1.7			25	B		0.12	J		6.6			46			5.4			48	B		0.033			4.6			< 0.64	U		0.22	J		16			18.4
SS-064_20250907	9/7/2025	**6.3**			140			0.45			**46**			**380**			19			**1400**			0.082			23			< 1.2	U		**3.9**			**91**			50.7
SS-065_20250907 (labeled, reported as SS-056_20250907)	9/7/2025	2.8			27	B		0.47			13			**360**			7			120	B		0.027			11			< 0.66	U		0.64			29			16.5
SS-066_20250907	9/7/2025	3			80			0.29			19			**360**			390			240			0.0086	J		19			< 0.61	U		0.56			41			16
SS-067_20250907	9/7/2025	2.8			42			0.26			13			140			6.8			180			0.018	J		9.3			< 0.72	U		0.58	J		31			22.5
SS-068_20250906	9/6/2025	3.8			62			0.81			22			**520**			7.6			280			< 0.0082	U		22			< 0.63	U		0.96			63			21.4
SS-069_20250907	9/7/2025	3.3			56			0.3			19			**280**			5.8			210			0.0092	J		17			< 0.59	U		0.55			35			15
SS-070_20250907	9/7/2025	2.7			56			0.24			15			130			5.5			190			0.0098	J		14			< 0.63	U		0.43	J		25			11.5
SS-071_20250906	9/6/2025	3			42			0.52			18			**430**			4.5			300			< 0.0076	U		18			< 0.63	U		< 0.14	U		44			14.7
SS-072_20250906	9/6/2025	3.1			55			0.4			20			85			7.4			310			0.033			15			< 0.68	U		< 0.15	U		25			15.8
SS-073_20250906	9/6/2025	1.6			15			0.13	J		6			150			4.5			41			0.033			2.3			< 0.68	U		0.19	J		12			18.4
SS-074_20250906	9/6/2025	3.2			93			0.13	J		20			14			6.3			240			< 0.0074	U		20			< 0.63	U		< 0.14	U		32			13.2
SS-075_20250906	9/6/2025	3.6			73			0.14	J		18			23			7.5			240			< 0.0076	U		23			< 0.66	U		< 0.14	U		35			13.4
SS-076_20250906	9/6/2025	2			32			0.24			8.4			11			3.1			130			< 0.0072	U		8.1			< 0.58	U		< 0.13	U		26			12.1
SS-077_20250906	9/6/2025	3.5			84			0.17	J		20			60			6.9			240			0.01	J		20			< 0.66	U		< 0.15	U		31			11.7
SS-078_20250906	9/6/2025	2.6			93			0.17	J		**26**			19			7.3			190			0.02	J		20			< 0.79	U		**1.4**			35			29.9
SS-079_20250906	9/6/2025	3.1			38			0.69			7.2			**220**			8.1			150			0.063			4.5			< 0.8	U		0.35	J		24			37.7
SS-080_20250906	9/6/2025	3.1			80			0.084	J		16			18			5.1			140			0.0079	J		12			< 0.63	U		0.26	J		23			16.3
SS-081_20250906	9/6/2025	3.4			120			0.11	J		22			18			7.3			300			< 0.0069	U		25			< 0.61	U		0.64			44			13.1
SS-082_20250906	9/6/2025	2.9			58			0.19	J		17			43			7.1			200			0.018			14			< 0.62	U		< 0.14	U		30			10.2
SS-083_20250906	9/6/2025	4			100			0.33			22			60			8.8			300			< 0.0078	U		25			< 0.69	U		**1.8**			47			20.2
DUP-02_20250906 (SS-083_20250906	9/6/2025	4.2			110			0.14	J	J	21			72	F1	J-	8.9			290		J	0.012	J		24			< 0.67	UF1	UJ	0.49	JF1	J-	46	F1	J+	20.1
SS-084_20250906	9/6/2025	3.4			91			0.4	B		17			98			7.9			280			0.032			16			< 0.69	U		< 0.15	U		31			15.5
SS-085_20250906	9/6/2025	2.9			46			< 0.22	JB	U	19			77			6.8			190			0.025			17			< 0.64	U		< 0.14	U		29			14.7
SS-086_20250906	9/6/2025	1.9			58			0.18	J		17			30	B		9.9			330			0.024			18			< 0.6	U		**1.2**			51			11.7
SS-087_20250906	9/6/2025	3			64			0.71			11			**190**	B		4.8			150			0.03	J		11			< 1.6	U		0.81	J		23			68.4
SS-088_20250906	9/6/2025	3			35			0.24	J		12			100	B		9.8			130			0.067			8.7			< 0.74	U		0.74			24			24.3
SS-089_20250903	9/3/2025	**5.2**			150			0.39	B		**29**			**160**			11			440			0.025	J		32			< 1	U		< 0.22	U		50			49.2
SS-090_20250905	9/5/2025	2.1			24			0.18	J		7.1			50	B		7.1			88			0.028			4.5			< 0.7	U		0.5	J		19			20
SS-091_20250905	9/5/2025	3.1			44			0.24	J		9.4			44	B		11			900	F2	J	0.053			4			**0.96**	J		**2.2**	F1	J+	21	F1	J+	33.7
SS-092_20250905	9/5/2025	2.5			56			0.28	B		14			31			8.9			190			0.029			14			< 0.72	U		< 0.16	U		29			23.7
SS-093_20250903	9/3/2025	2.8			49			0.76	B		9.9			**190**			14			180			0.024			7.7			< 0.72	U		< 0.16	U		30			24.8
SS-094_20250904	9/4/2025	1.4			17			< 0.25	JB	U	6.8			14			4.9			56			0.019	J		5.6			< 0.73	U		0.42	J		15			20.4
SS-095_20250905	9/5/2025	2			28			0.19	J		12			28	B		7.8			180			0.019			9.2			< 0.67	U		0.67			28			18.9
SS-096_20250904	9/4/2025	4			120			0.3	B		22			38			12			410			0.044			26			< 0.75	U		< 0.17	U		51			34.5
SS-097_20250904	9/4/2025	2.4			50			< 0.24	JB	U	15			52			10			91			0.04			12			**1.1**	J		0.65			28			23.6
SS-098_20250904	9/4/2025	2.9			44			0.37	B		6.7			120		J	13		J	160			0.0094	J		4.3			**0.89**	J		0.9			16			22.7
DUP-01-SS_20250904 (SS-098_20250904)	9/4/2025	1.7			31			< 0.23	JB	U	6.6			58		J	7.2		J	140			0.013	J		3.7			< 0.67	U		< 0.15	U		12			16.5
SS-100_20250905	9/5/2025	2			38			< 0.23	JB	U	15			12			6.9			140			0.039			12			< 0.67	U		< 0.15	U		28			20.8
SS-101_20250904	9/4/2025	**8**			130			0.42	B		**41**			91			21			**4500**			0.062			27			**1.5**			**9.5**			**91**			35.2
SS-102_20250904	9/4/2025	1.3			15			< 0.21	JB	U	3.4			51			5.2			31			< 0.0073	U		1.6			< 0.61	U		0.16	J		4.7			8.2
SS-103_20250905	9/5/2025	2.8			83			0.75			15			51	B		11			490			0.04			12			< 0.82	U		**1.5**			64			28.6
SS-104_20250905	9/5/2025	2.3			50			0.14	J		17			25	B		9.6			140			0.029			13			< 0.7	U		0.8			31			27.2

Table 3-1 (continued)

Analyte		Arsenic			Barium			Cadmium			Chromium (Total)*			Copper			Lead			Manganese			Mercury			Nickel			Selenium			Silver			Zinc			Moisture
CAS Number		7440-38-2			7440-39-3			7440-43-9			7440-47-3			7440-50-8			7439-92-1			7439-96-5			7439-97-6			7440-02-0			7782-49-2			7440-22-4			7440-66-6			
Analytical Method		EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 7471B			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			
Unit		mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			%
Sample ID	Sample Date	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result
(Median)		3.1			60			0.28			16			120			7.4			210			0.018			16			0.66			0.8			32			16.5
EGLE Screening Criteria (1)																				hm																		
GSI-SWP		5.8	bg		200	calc		2.2	calc		24	bg		151	bg		2,500	calc		1,400	bg		0.13	bg		41	calc		0.5	bg		1.0	bg		88	calc		-
NDW-SWP		5.8	bg		1,300			6			30			5,800			700			1,400	bg		1.7			100			4.0			13.0			5,000			-
RDW-SWP		5.8	bg		1,300			6			30			5,800			700			1,400	bg		1.7			100			4.0			4.5			2,400			-
RPSI		720			330,000			1,700			260			130,000			100,000			3,300			20,000			13,000			130,000			6,700			ID			-
NPSI		910			150,000			2,200			240			59,000			44,000			1,500			8,800			16,000			59,000			2,900			ID			-
Residential Direct Contact		7.6			37,000			550			2,500			20,000			400			25,000			160			40,000			2,600			2,500			170,000			-
Nonresidential Direct Contact		37			130,000			2,100			9,200			73,000			900			90,000			580			150,000			9,600			9,000			630,000			-
Statewide Background (2)		5.8			75			1.2			18	(total)		32			21			440			0.13			20			0.41			1.0			47			-
Site Specific Background (3)		-			86			-			24			151			-			1,400			-			-			0.50			-			63			-

Notes:

Prepared by: DJD
Checked by: KB

Bold = Detections exceeding one or more EGLE Screening Criteria
J = Estimated value, may be potentially biased high (+) or low (-).
U = Not detected.
UJ = Not detected at an estimated reporting limit.
B = Detected in Method Blank.
F1 = Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recovery outside control limits.
F2 = MS/MSD Relative Percent Difference (RPD) recovery outside control limits.
1. EGLE Generic Residential/Nonresidential Cleanup Criteria, Integrated Tables of Part 201 Clean-up Criteria. Revised October 2023.
2. Statewide Default Background Levels, Integrated Tables of Part 201 Clean-up Criteria. Revised October 2023.
3. Site-specific background levels provided in the RI report.
bg = If Screening Level is above statewide or site specific background, the background concentration is used.
* Screening criteria is for Chromium VI unless otherwise noted.
GSI = Groundwater/Surface Water Interface
ID = Insufficient data per EGLE.
mg/Kg = milligram per kilogram
NDW = Non-residential Drinking Water
NPSI = Non-residential Partiulate Soil Inhalation
RDW = Residential Drinking Water
RPSI = Residential Particulate Soil Inhalation
SWP = Soil-Water Partitioning
calc = GSI-SWP values are hardness dependent. Average hardness of the Mineral River (72 mg/L CaCO3) used for calculation.

Table 3-2
Sampling Schedule for Groundwater Measurements
White Pine Copper LLC - Environmental Impact Assessment

Sampling Events:	Monitored	2024					Sampling Events Completed in 2024	2025						Sampling Events Completed in 2025	2026			Sampling Events Completed in 2026	Total Number of Samples Completed through May 2026
		1st		2nd		3rd		4th		5th		6th	7th		8th	9th			
Monitoring Well	Unit	Jul	Aug	Sep	Oct	Dec		Feb	Mar	Apr	May	Aug	Oct		Feb	Apr	May		
MW-1AR	OB			1		1	2	1			1	1	1	4	1	1		2	8
MW-1BR	SB	1		1		1	3	1			1	1	1	4	1	1		2	9
MW-2A	OB		1		1	1	3	1			1	1	1	4	1	1		2	9
MW-2B	OB		1		1	1	3	1			1	1	1	4	1	1		2	9
MW-3A	OB	1			1	1	3	1		1		1	1	4	1	1		2	9
MW-3B	OB	1			1	1	3	1			1	1	1	4	1	1		2	9
MW-5A	OB	1			1	1	3	1			1	1	1	4	1	1		2	9
MW-5SB	SB	NI	NI	1		1	2		1		1	1	1	4	NS	1		1	7
MW-10	OB		1	1		1	3	1			1	1	1	4	1	1		2	9
MW-31	OB	1			1	1	3		1	1		1	1	4	1	1		2	9
MW-35	OB	1		1		1	3		1	1		1	1	4	1	1		2	9
MW-35SB	SB	NI	NI	NI	NI	1	1		1		1	1	1	4	1	1		2	7
MW-36	SB	1		1		1	3		NS	1		1	1	3	NS	1		1	7
MW-37	OB	1			1	1	3		1		1	1	1	4	NS	1		1	8
MW-38	SB	1			1	1	3		1		1	1	1	4	1	1		2	9
MW-41	SB	1		1		1	3		1		1	1	1	4	1	1		2	9
MW-42	SB	1			1	1	3		1		1	1	1	4	1	1		2	9
MW-43	OB	1		1		1	3	1			1	1	1	4	1		1	2	9
MW-43SB	SB	NI	NI		1	NS	1	1			1	1	1	4	1		1	2	7
MW-44	OB	1		1		1	3	1			1	1	1	4	1		1	2	9
NB1-1	Tailings	1			1	NS	2		1		1	1	1	4	1	1		2	8
NB1-3	Tailings	1			1	1	3		1		1	1	1	4	1	1		2	9
NB2-1	Tailings	1		1		1	3		NS	1		1	1	3	NS	1		1	7
NB2-3	Tailings	1		1		1	3		1	1		1	1	4	NS	1		1	8
SMW-1	OB	1			1	1	3		1	1		1	1	4	1	1		2	9
SMW-1SB	SB	NI	NI	NI	NI	1	1		1	1		1	1	4	1	1		2	7
SMW-3	OB		1		1	1	3		1		1	1	1	4	1	1		2	9
SMW-3SB	SB	NI	NI	NI	NI	1	1		1		1	1	1	4	1	1		2	7
Sub-total:		18	4	11	14	26	73	11	15	8	20	28	28	110	23	25	3	51	234
No. of Samples per Event:		22		25				26		28									

Note:
Groundwater samples were analyzed for the constituent list provided in Table 3-6.
OB = overburden or unconsolidated deposits
SB = shallow bedrock
NI = Well not installed at time of monitoring
NS = Well not sampled due to inaccessibility
Water levels only collected at new monitoring well MW-2SB.

Prepared by: DCF1
Checked by: GMB

Table 3-3
Groundwater Analytes for Environmental Baseline Studies
White Pine Copper LLC - Environmental Impact Assessment

Groundwater	Method[1]
Field Parameters	
Dissolved Oxygen	field
Oxidation Reduction Potential	field
pH	field
Specific Conductance	field
Temperature	field
Turbidity	field
General Parameters	
Ammonia (un-ionized as N)	350.1
Alkalinity, Total	2320B
Alkalinity, Bicarbonate as CaCO3	2320B
Alkalinity, Carbonate as CaCO3	2320B
Bromide	300.0
Chloride	300.0
Cyanide, free	USEPA 335.4
Dissolved Organic Carbon	5310
Total Organic Carbon	5310C
Fluoride	300.0
Hardness (Ca+Mg)	2340B
Nitrate (as N)	300.0
Nitrite (as N)	300.0
Nitrate + Nitrite (as N)	300.0
Phosphorus, total	365.1
Sodium	6020B
Sulfate	300
Sulfide	4500
Total Dissolved Solids (TDS)	2540C
Total Salinity	2520
Total Suspended Solids (TSS)	2540D
Metals (Total & Dissolved)	
Aluminum	6020
Antimony	6020
Arsenic	6020
Barium	6020
Beryllium	6020
Boron	6020
Cadmium	6020
Calcium	6020
Chromium (total)	6020
Cobalt	6020
Copper	6020
Iron	6020

Table 3-3 (continued)

Groundwater	Method[1]
Lead	6020
Lithium	6020
Manganese	6020
Magnesium	6020
Mercury, Low Level	1631E
Methyl Mercury	1630
Molybdenum	6020
Nickel	6020
Potassium	6020
Selenium	6020
Silver	6020
Strontium	6020
Thallium	6020
Tin	6020
Uranium	1638
Vanadium	6020
Zinc	6020

Note: Prepared by: MAN

[1] Methods subject to change based on laboratory. Checked by: JMW3

Table 3-4a
Groundwater Baseline Field Parameters
White Pine Copper LLC - Environmental Impact Assessment

Description	HGU	Descriptive Statistic	Conductivity (Field) (mS/cm)	Dissolved Oxygen (Field) (mg/L)	pH (Field) (SU)	Redox Potential (Field) (mV)	Temperature (Field) (°C)	Turbidity (NTU)
Unconsolidated Deposits	Shallow	Number of Observations	105	105	105	105	105	105
		Number of Non-Detect	0	0	0	0	0	0
		% Non-Detect	0	0	0	0	0	0
		Maximum	2.6	14.1	11.6	356.0	24.2	1,000.0
		Minimum	0.2	0.0	6.1	-216.0	1.8	0.0
		Average	0.8	2.9	7.8	58.3	10.8	115.1
		Standard Deviation	0.6	3.5	0.8	121.7	4.3	256.6
Shallow Bedrock		Number of Observations	95	95	95	95	95	95
		Number of Non-Detect	0	0	0	0	0	0
		% Non-Detect	0	0	0	0	0	0
		Maximum	4.7	15.8	10.4	329.0	23.3	1,000.0
		Minimum	0.0	0.0	0.0	-215.0	0.0	0.0
		Average	1.1	2.8	8.0	37.2	11.1	91.3
		Standard Deviation	1.1	3.4	1.2	122.1	4.7	220.9
Deep Bedrock	Deep	Number of Observations	98	98	98	98	98	98
		Number of Non-Detect	0	4	0	0	3	6
		% Non-Detect	0.0	4.1	0.0	0.0	3.1	6.1
		Maximum	106,430.0	71.0	16.0	330.1	23.5	3,900.1
		Minimum	1,100.1	0.1	6.6	-212.3	6.6	0.8
		Average	18,813.2	4.7	7.9	-0.3	14.2	253.4
		Standard Deviation	27,865.1	7.3	1.0	137.0	3.9	741.6

Notes:
Summary statistics generated from data collected between July 2024 and April 2026.
°C = degrees Celsius
HGU = hydrostratigraphic unit
mg/L = milligram per liter
mS/cm = millisiemens per centimeter
mV = millivolt
NTU = nephelometric turbidity unit
SU = standard unit

Prepared by: NAA2
Checked by: SSG1

Table 3-4b
Groundwater Baseline Major Ions and General Chemistry
White Pine Copper LLC - Environmental Impact Assessment

Description	HGU	Descriptive Statistic	Alkalinity (mg/L)	Alkalinity, Bicarbonate (as CaCO3) (mg/L)	Alkalinity, Carbonate (as CaCO3) (mg/L)	Ammonia (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Cyanide Total (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate as N (mg/L)	Nitrate/ Nitrite as N (mg/L)	Nitrite as N (mg/L)	Phosphorus Total (as P) (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	Total Organic Carbon (TOC) (mg/L)	Dissolved Organic Carbon (DOC) (mg/L)	Salinity (PSU)	Total Dissolved Solids (TDS) (mg/L)	Total Suspended Solids (TSS) (mg/L)
Unconsolidated Deposits	Shallow	Number of Observations	108	108	108	106	109	108	106	108	107	109	108	108	107	108	106	107	106	108	108	108
		Number of Non-Detect	0	0	106	98	55	2	100	66	0	91	91	106	40	11	76	2	0	82	0	28
		% Non-Detect	0.0	0.0	98.1	92.5	50.5	1.9	94.3	61.1	0.0	83.5	84.3	98.1	37.4	10.2	71.7	1.9	0.0	75.9	0.0	25.9
		Maximum	2,300.0	2,300.0	18.0	1.6	16.0	510.0	0.0	1.2	1,200.0	5.4	5.4	1.0	4.5	82.0	24.0	7.7	7.8	1.4	1,700.0	2,600.0
		Minimum	69.0	69.0	1.9	0.0	0.1	0.5	0.0	0.1	32.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.5	0.2	96.0	1.0
		Average	300.4	300.3	2.0	0.1	1.1	91.0	0.0	0.4	318.0	0.4	0.4	0.1	0.1	14.6	1.5	1.9	2.1	0.3	477.8	78.4
		Standard Deviation	257.8	257.8	1.6	0.2	2.0	136.7	0.0	0.3	318.8	0.7	0.7	0.1	0.4	16.7	3.6	1.4	1.5	0.3	389.1	328.3
Shallow Bedrock		Number of Observations	100	100	100	99	104	101	100	101	99	101	101	100	100	101	98	100	101	100	100	102
		Number of Non-Detect	0	0	73	87	37	0	96	41	0	76	74	96	34	5	65	9	9	65	0	19
		% Non-Detect	0.0	0.0	73.0	87.9	35.6	0.0	96.0	40.6	0.0	75.2	73.3	96.0	34.0	5.0	66.3	9.0	8.9	65.0	0.0	18.6
		Maximum	550.0	550.0	34.0	5.5	36.0	1,500.0	0.0	9.6	18,000.0	8.6	19.0	10.0	1.3	63.0	15.0	9.3	9.7	2.9	4,100.0	490.0
		Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Average	239.1	233.9	6.3	0.2	2.3	202.2	0.0	1.0	431.3	0.6	0.7	0.3	0.1	15.6	1.0	2.9	3.1	0.5	625.4	34.2
		Standard Deviation	161.3	164.1	8.3	0.8	4.9	346.0	0.0	1.5	1,804.2	1.2	2.1	1.1	0.2	15.6	2.6	2.7	2.7	0.7	649.4	82.8
Deep Bedrock	Deep	Number of Observations	20	20	---	20	20	20	---	20	20	---	---	---	20	20	20	20	20	20	20	20
		Number of Non-Detect	0	0	---	14	0	0	---	6	0	---	---	---	17	0	18	14	12	0	0	3
		% Non-Detect	0.0	0.0	---	70.0	0.0	0.0	---	30.0	0.0	---	---	---	85.0	0.0	90.0	70.0	60.0	0.0	0.0	15.0
		Maximum	520.0	520.0	---	1.7	830.0	61,000.0	---	2.6	60,000.0	---	---	---	0.3	20.0	3.6	4.3	4.4	110.0	90,000.0	310.0
		Minimum	6.4	6.4	---	0.1	6.1	520.0	---	0.2	200.0	---	---	---	0.0	2.3	2.3	0.5	0.5	1.2	1,300.0	3.2
		Average	92.3	92.3	---	0.5	74.1	5,741.5	---	1.1	4,852.5	---	---	---	0.1	9.3	3.0	2.1	1.8	11.6	9,700.0	39.0
		Standard Deviation	150.9	150.9	---	0.6	179.2	13,129.5	---	0.8	13,074.7	---	---	---	0.2	6.3	0.9	1.6	1.6	23.5	19,210.7	75.9

Notes:
Summary statistics generated from data collected between July 2024 and April 2026.
HGU = hydrostratigraphic unit
mg/L = milligram per liter
TDS = total dissolved solids
TSS = total suspended solids
Cells with "---" indicate that the paramter was not analyzed.

Prepared by: NAA2
Checked by: SSG1

Table 3-4c
Groundwater Baseline Dissolved Metals
White Pine Copper LLC - Environmental Impact Assessment

Description	HGU	Descriptive Statistic	Aluminum Dissolved (µg/L)	Antimony Dissolved (µg/L)	Arsenic Dissolved (µg/L)	Barium Dissolved (µg/L)	Beryllium Dissolved (µg/L)	Boron Dissolved (µg/L)	Cadmium Dissolved (µg/L)	Calcium Dissolved (µg/L)	Chromium Dissolved (µg/L)	Cobalt Dissolved (µg/L)	Copper Dissolved (µg/L)	Iron Dissolved (µg/L)	Lead Dissolved (µg/L)	Lithium Dissolved (µg/L)	Magnesium Dissolved (µg/L)	Manganese Dissolved (µg/L)
Unconsolidated Deposits	Shallow	Number of Observations	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
		Number of Non-Detect	97	104	1	0	104	2	104	0	97	84	55	68	100	10	0	14
		% Non-Detect	92.4	99.0	1.0	0.0	99.0	1.9	99.0	0.0	92.4	80.0	52.4	64.8	95.2	9.5	0.0	13.3
		Maximum	6,200.0	0.7	3.6	3,100.0	0.3	1,500.0	0.1	340,000.0	8.3	4.6	12.0	5,100.0	2.4	72.0	100,000.0	5,600.0
		Minimum	12.5	0.5	0.2	27.0	0.1	25.0	0.1	9,900.0	0.6	0.2	0.3	23.5	0.1	1.0	1,200.0	0.4
		Average	119.4	0.6	0.9	494.2	0.2	360.2	0.1	81,703.8	0.7	0.4	0.7	210.1	0.1	27.9	24,866.7	552.4
		Standard Deviation	753.8	0.1	0.7	709.5	0.1	381.8	0.0	86,934.8	1.0	0.5	1.4	646.7	0.3	20.0	29,785.4	1,343.6
Shallow Bed+A35rock		Number of Observations	101	100	103	100	100	100	100	100	100	104	101	101	100	101	100	101
		Number of Non-Detect	76	100	3	0	100	0	99	0	97	75	55	56	92	0	0	9
		% Non-Detect	75.2	100.0	2.9	0.0	100.0	0.0	99.0	0.0	97.0	72.1	54.5	55.4	92.0	0.0	0.0	8.9
		Maximum	1,900.0	0.7	5.2	1,000.0	0.3	7,300.0	0.2	260,000.0	3.4	2.0	4.3	12,000.0	1.6	130.0	60,000.0	4,900.0
		Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Average	47.3	0.6	1.6	220.8	0.2	1,411.0	0.1	74,716.0	0.6	0.4	1.0	920.9	0.1	39.3	14,355.1	633.1
		Standard Deviation	196.4	--	1.5	284.9	--	1,835.3	0.0	78,409.8	0.3	0.4	1.0	1,916.0	0.2	28.0	20,242.7	1,154.0
Deep Bedrock	Deep	Number of Observations	20	---	20	20	---	20	20	20	20	20	20	20	20	20	20	20
		Number of Non-Detect	17	---	6	0	---	0	19	0	19	19	9	4	17	0	0	0
		% Non-Detect	85.0	---	30.0	0.0	---	0.0	95.0	0.0	95.0	95.0	45.0	20.0	85.0	0.0	0.0	0.0
		Maximum	39.0	---	11.0	18,000.0	---	1,400.0	0.3	24,000,000.0	1.1	1.2	70.0	1,600.0	17.0	1,900.0	220,000.0	15,000.0
		Minimum	25.0	---	0.2	250.0	---	190.0	0.3	84,000.0	1.1	1.2	0.5	52.0	1.0	96.0	1,500.0	150.0
		Average	30.7	---	1.1	2,775.0	---	582.5	0.3	1,940,600.0	1.1	1.2	8.5	561.8	6.4	350.6	20,105.0	1,488.0
		Standard Deviation	7.4	---	2.8	3,954.0	---	347.0	---	5,229,292.2	---	---	20.5	431.5	9.2	384.4	47,612.6	3,227.6

Table 3-4c (continued)

Description	HGU	Descriptive Statistic	Mercury Dissolved (ng/L)	Methyl Mercury Dissolved (ng/L)	Molybdenum Dissolved (µg/L)	Nickel Dissolved (µg/L)	Potassium Dissolved (µg/L)	Selenium Dissolved (µg/L)	Silver Dissolved (µg/L)	Sodium Dissolved (µg/L)	Strontium Dissolved (µg/L)	Thallium Dissolved (µg/L)	Tin Dissolved (µg/L)	Uranium Dissolved (µg/L)	Vanadium Dissolved (µg/L)	Zinc Dissolved (µg/L)
Unconsolidated Deposits	Shallow	Number of Observations	102	100	104	104	104	104	104	104	104	104	104	101	104	104
		Number of Non-Detect	26	86	45	72	0	98	103	0	0	103	99	0	49	88
		% Non-Detect	25.5	86.0	43.3	69.2	0.0	94.2	99.0	0.0	0.0	99.0	95.2	0.0	47.1	84.6
		Maximum	1.5	0.8	75.0	14.0	5,000.0	1.7	0.1	150,000.0	3,500.0	0.3	3.4	72.0	17.0	150.0
		Minimum	0.1	0.0	1.3	0.3	220.0	0.5	0.1	6,100.0	96.0	0.1	0.7	0.0	0.0	3.5
		Average	0.4	0.0	11.3	0.8	1,731.9	0.5	0.1	57,710.6	996.4	0.2	0.7	15.2	3.2	6.2
		Standard Deviation	0.3	0.1	16.2	1.6	1,174.9	0.2	0.0	35,187.2	1,050.0	0.1	0.4	19.4	4.3	14.9
Shallow Bedrock		Number of Observations	98	99	102	105	100	100	100	100	100	100	100	97	101	100
		Number of Non-Detect	19	95	28	70	0	94	100	0	0	100	92	0	46	86
		% Non-Detect	19.4	96.0	27.5	66.7	0.0	94.0	100.0	0.0	0.0	100.0	92.0	0.0	45.5	86.0
		Maximum	2.4	0.0	100.0	3.4	3,700.0	2.1	0.1	800,000.0	5,700.0	0.3	2.7	17.0	20.0	170.0
		Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Average	0.6	0.0	14.5	0.6	1,419.4	0.6	0.1	140,310.0	1,244.2	0.2	0.8	4.3	4.0	6.7
		Standard Deviation	0.5	0.0	23.4	0.6	922.8	0.3	--	173,968.7	1,457.9	--	0.4	4.3	5.1	17.5
Deep Bedrock	Deep	Number of Observations	---	20	20	20	20	20	20	20	20	---	20	20	---	20
		Number of Non-Detect	---	19	2	8	0	10	19	0	0	---	17	0	---	2
		% Non-Detect	---	95.0	10.0	40.0	0.0	50.0	95.0	0.0	0.0	---	85.0	0.0	---	10.0
		Maximum	---	0.0	53.0	14.0	42,000.0	3.3	0.5	7,400,000.0	420,000.0	---	2.0	32.0	---	23,000.0
		Minimum	---	0.0	19.0	0.7	1,000.0	1.0	0.5	290,000.0	1,600.0	---	1.5	0.0	---	13.0
		Average	---	0.0	35.1	2.0	6,095.0	1.6	0.5	1,445,000.0	37,685.0	---	1.8	3.6	---	1,584.5
		Standard Deviation	---	---	12.0	3.8	9,591.9	0.8	---	1,510,202.1	90,968.4	---	0.3	9.6	---	5,354.8

Notes:
Summary statistics generated from data collected between July 2024 and April 2026.
HGU = hydrostratigraphic unit
µg/L = microgram per liter
Cells with "---" indicate that the paramter was not analyzed.

Prepared by: NAA2
Checked by: SSG1

Table 3-4d
Groundwater Baseline Total Recoverable Metals
White Pine Copper LLC - Environmental Impact Assessment

Description	HGU	Descriptive Statistic	Aluminum Total (µg/L)	Antimony Total (µg/L)	Arsenic Total (µg/L)	Barium Total (µg/L)	Beryllium Total (µg/L)	Boron Total (µg/L)	Cadmium Total (µg/L)	Calcium Total (µg/L)	Chromium Total (µg/L)	Cobalt Total (µg/L)	Copper Total (µg/L)	Iron Total (µg/L)	Lead Total (µg/L)	Lithium Total (µg/L)	Magnesium Total (µg/L)	Manganese Total (µg/L)
Unconsolidated Deposits	Shallow	Number of Observations	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
		Number of Non-Detect	27	105	0	0	98	4	93	0	82	67	11	11	72	11	0	0
		% Non-Detect	25.2	98.1	0.0	0.0	91.6	3.7	86.9	0.0	76.6	62.6	10.3	10.3	67.3	10.3	0.0	0.0
		Maximum	89,000.0	2.7	27.0	3,400.0	5.1	1,400.0	170,000.0	340,000.0	160.0	79.0	330.0	95,000.0	85.0	130.0	99,000.0	55,000.0
		Minimum	12.5	0.5	0.3	26.0	0.1	25.0	0.1	10,000.0	0.6	0.2	0.3	23.5	0.1	1.0	1,200.0	5.8
		Average	2,387.7	0.6	1.8	574.2	0.3	345.2	1,588.9	84,243.0	4.4	2.1	10.0	2,568.0	2.2	30.4	25,772.0	1,607.7
		Standard Deviation	10,027.1	0.2	3.3	756.9	0.5	366.4	16,434.5	85,631.9	17.4	8.3	36.3	10,511.9	10.1	22.7	29,176.5	5,675.8
Shallow Bedrock		Number of Observations	101	100	101	101	100	100	100	100	100	104	101	100	100	101	100	101
		Number of Non-Detect	43	100	0	0	93	1	99	0	66	51	21	11	61	0	0	0
		% Non-Detect	42.6	100.0	0.0	0.0	93.0	1.0	99.0	0.0	66.0	49.0	20.8	11.0	61.0	0.0	0.0	0.0
		Maximum	50,000.0	0.7	16.0	1,100.0	2.9	7,300.0	0.2	270,000.0	85.0	51.0	91.0	64,000.0	62.0	130.0	59,000.0	4,900.0
		Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Average	1,848.4	0.6	2.2	233.8	0.3	1,396.7	0.1	74,598.0	3.3	1.7	5.3	2,966.8	1.9	40.8	14,956.4	707.4
		Standard Deviation	5,811.2	--	2.2	283.5	0.3	1,820.1	0.0	77,977.5	9.5	5.3	11.2	7,046.3	6.8	30.0	19,730.9	1,187.9
Deep Bedrock	Deep	Number of Observations	20	20	20	20	---	20	20	20	20	20	20	20	20	20	20	20
		Number of Non-Detect	6	19	5	0	---	0	19	0	10	15	3	0	13	0	0	0
		% Non-Detect	30.0	95.0	25.0	0.0	---	0.0	95.0	0.0	50.0	75.0	15.0	0.0	65.0	0.0	0.0	0.0
		Maximum	12,000.0	1.9	7.2	19,000.0	---	1,400.0	0.2	24,000,000.0	27.0	1.1	110.0	11,000.0	3.9	2,000.0	230,000.0	15,000.0
		Minimum	33.0	1.9	0.3	240.0	---	180.0	0.2	79,000.0	1.6	0.5	0.6	56.0	0.3	95.0	1,600.0	150.0
		Average	1,247.7	1.9	1.0	2,733.0	---	583.5	0.2	1,922,100.0	6.6	0.7	14.1	1,693.1	1.3	350.7	20,690.0	1,492.0
		Standard Deviation	3,118.0	---	1.8	4,136.0	---	345.7	---	5,233,016.4	7.8	0.2	26.7	2,410.0	1.6	406.8	49,817.1	3,225.6

Table 3-4d (continued)

Description	HGU	Descriptive Statistic	Mercury Total (ng/L)	Methyl Mercury Total (ng/L)	Molybdenum Total (µg/L)	Nickel Total (µg/L)	Potassium Total (µg/L)	Selenium Total (µg/L)	Silver Total (µg/L)	Sodium Total (µg/L)	Strontium Total (µg/L)	Thallium Total (µg/L)	Tin Total (µg/L)	Uranium Total (µg/L)	Vanadium Total (µg/L)	Zinc Total (µg/L)
Unconsolidated Deposits	Shallow	Number of Observations	103	101	106	106	106	106	106	106	106	106	106	102	106	106
		Number of Non-Detect	10	83	46	49	0	94	103	0	0	104	94	0	28	77
		% Non-Detect	9.7	82.2	43.4	46.2	0.0	88.7	97.2	0.0	0.0	98.1	88.7	0.0	26.4	72.6
		Maximum	19.0	0.5	87.0	220.0	20,000.0	11.0	0.6	150,000.0	3,400.0	1.0	6.0	74.0	230.0	370.0
		Minimum	0.1	0.0	1.3	0.3	230.0	0.5	0.1	6,100.0	98.0	0.1	0.7	0.0	0.2	3.5
		Average	1.5	0.0	12.0	5.5	2,252.7	0.7	0.1	57,684.9	997.9	0.3	0.8	15.4	11.2	15.3
		Standard Deviation	2.7	0.1	18.2	23.0	2,631.7	1.1	0.0	36,073.6	1,039.1	0.1	0.7	19.9	27.0	41.6
Shallow Bedrock		Number of Observations	99	99	102	104	101	101	100	100	100	100	100	97	101	101
		Number of Non-Detect	14	89	25	41	0	79	99	0	0	99	79	0	36	59
		% Non-Detect	14.1	89.9	24.5	39.4	0.0	78.2	99.0	0.0	0.0	99.0	79.0	0.0	35.6	58.4
		Maximum	5.0	0.4	110.0	110.0	13,000.0	9.0	0.2	790,000.0	5,900.0	0.8	15.0	18.0	110.0	880.0
		Minimum	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Average	1.1	0.0	14.2	3.4	1,867.8	0.8	0.1	142,130.0	1,246.8	0.3	1.2	4.4	8.7	22.7
		Standard Deviation	1.1	0.0	23.7	11.6	1,630.5	1.0	0.0	173,573.2	1,466.2	0.1	1.6	4.3	14.7	90.8
Deep Bedrock	Deep	Number of Observations	---	---	20	20	20	20	20	20	20	---	20	20	20	20
		Number of Non-Detect	---	---	2	7	0	14	14	0	0	---	0	14	18	0
		% Non-Detect	---	---	10.0	35.0	0.0	70.0	70.0	0.0	0.0	---	0.0	70.0	90.0	0.0
		Maximum	---	---	52.0	15.0	44,000.0	2.2	26.0	8,500,000.0	410,000.0	---	32.0	2.6	20.0	21,000.0
		Minimum	---	---	18.0	0.7	1,000.0	1.0	0.1	290,000.0	1,500.0	---	0.0	1.9	2.2	39.0
		Average	---	---	34.7	3.4	6,300.0	1.3	5.0	1,492,000.0	37,030.0	---	3.7	2.2	11.1	1,479.2
		Standard Deviation	---	---	11.7	4.6	9,980.0	0.5	10.3	1,743,733.4	88,863.4	---	9.7	0.3	12.6	4,647.8

Notes:
Summary statistics generated from data collected between July 2024 and April 2026.
HGU = hydrostratigraphic unit
µg/L = microgram per liter
Cells with "---" indicate that the paramter was not analyzed.

Prepared by: NAA2
Checked by: SSG1

Table 3-5
Sampling Schedule for Surface Water Quality Sampling
White Pine Copper LLC - Environmental Impact Assessment

Station ID	Sample Location Description	2024 Q3	2024 Q4	2025 Q1	2025 Q2	2025 Q3	2025 Q4	2026 Q1	Grand Total
ARC-01	Argentine Creek	2	1	1	1	1	1	1	8
ARC-02	Argentine Creek	2	1	1	1	1	1	1	8
ARC-03	Argentine Creek	2	1	1	1	1	1	1	8
BNC-01	Basin North Central Pond	2	1	1	1	1	1	1	8
BNW-01	Basin Northwest Pond	2	1	1	1	1	1	1	8
CBR-01	Cranberry River	2	1	1	1	1	1	1	8
CBR-02	Cranberry River	2	1	1	1	1	1	1	8
DKC-01	Duck Creek	2	1	1	1	1	1	1	8
DKC-02	Duck Creek	2	1	1	1	1	1	1	8
DKC-03	Duck Creek	2	1	1	1	1	1	1	8
LKS-01	Lake Superior Monitoring Location	2	1	1	1	1	1	1	8
LKS-02	Lake Superior Monitoring Location	2	1	1	1	1	1	1	8
MLC-01	Miles Creek	2	1	1	1	1	1	1	8
MLR-01	Mineral River	2	1	1	1	1	1	1	8
MLR-02	Mineral River	2	1	1	1	1	1	1	8
MLR-03	Mineral River	2	1	1	1	1	1	1	8
NTC-01	Native Creek	2	1	1	1	1	1	1	8
PNC-01	Pine Creek	2	1	1	1	1	1	1	8
PNC-02	Pine Creek	2	1	1	1	1	1	1	8
PNC-03	Pine Creek	2	1	1	1	1	1	1	8
PNC-04	Pine Creek	2	1	1	1	1	1	1	8
PRC-01	Perch Creek	2	1	1	1	1	1	1	8
PRC-02	Perch Creek	2	1	1	1	1	1	1	8
PTC-01	Patent Creek	2	1	1	1	1	1	1	8
SBD-01	South Basin Discharge	2	1	1	1	1	1	1	8
SBW-01	South Basin West	2	1	1	1	1	1	1	8
TBN-01	Tailings Basin North #2	2	1	1	1	1	1	1	8
TBS-01	Tailings Basin North #1	2	1	1	1	1	1	1	8

Notes:
The numbers in each cell show the sampling events per calendar quarter.

Prepared by: KRM2
Checked by: NAA2

Table 3-6
Surface Water Analytes for Environmental Baseline Studies
Wihte Pine Copper, LLC - Environmental Impact Assessment

Groundwater	Method[1]
Field Parameters	
Conductivity	field
Dissolved Oxygen	field
pH	field
Redox Potential	field
Temperature	field
Turbidity	field
General Parameters	
Ammonia (un-ionized as N)	350.1
Alkalinity, Total	2320B
Alkalinity, Bicarbonate as CaCO3	2320B
Alkalinity, Carbonate as CaCO3	
Bromide	4500
Chloride	4500
Cyanide, total	
Dissolved Organic Carbon	5310
Total Organic Carbon	5310C
Fluoride	4500
Hardness (Ca+Mg)	2340B
Nitrate (as N)	4500
Nitrite (as N)	4500
Nitrate + Nitrite (as N)	4500
Phosphorus, total	4500
Sodium	6020A
Sulfate	300
Sulfide	4500
Total Dissolved Solids (TDS)	2540C
Total Salinity	2520
Total Suspended Solids (TSS)	2540D
Metals (Total & Dissolved)	
Aluminum	6020
Antimony	6020
Arsenic	6020
Barium	6020
Beryllium	6020
Boron	6020
Cadmium	6020
Calcium	6020
Chromium (total)	200.8
Cobalt	6020
Copper	6020
Iron	6020
Lead	6020
Lithium	6020
Manganese	6020
Magnesium	6020
Mercury, Low Level	1631E
Methyl Mercury	1630
Molybdenum	6020

Table 3-6 (continued)

Groundwater	Method[1]
Nickel	6020
Potassium	6020
Selenium	6020
Silver	6020
Strontium	6020
Thallium	6020
Tin	6020
Uranium	6020
Vanadium	6020
Zinc	6020

Prepared by: NAA2
Checked by: MAN

Table 3-7a
Surface Water Baseline Field Parameters
White Pine Copper LLC - Environmental Impact Assessment

Description	Descriptive Statistic	Conductivity (Field) (mS/cm)	Dissolved Oxygen (Field) (mg/L)	pH (Field) (SU)	Redox Potential (Field) (mV)	Temperature (Field) (°C)	Turbidity (NTU)
Non-Stream Sample Locations	Number of Observations	54	54	54	52	54	54
	Number of Non-Detect	0	0	0	0	0	0
	% Non-Detect	0	0	0	0	0	0
	Maximum	2.3	15.8	9.3	426.0	28.8	999.0
	Minimum	0.1	0.5	6.7	-22.0	0.0	0.0
	Average	0.4	7.1	7.7	148.9	11.8	85.7
	Standard Deviation	0.3	2.9	0.6	87.8	9.8	171.4
Stream Sample Locations	Number of Observations	194	194	193	194	194	194
	Number of Non-Detect	0	0	0	0	0	0
	% Non-Detect	0	0	0	0	0	0
	Maximum	135.0	54.3	12.1	420.0	27.2	733.0
	Minimum	0.0	0.1	6.0	-109.0	-0.1	0.0
	Average	0.6	10.2	7.6	165.4	9.2	30.2
	Standard Deviation	9.7	4.5	0.7	73.4	7.9	78.8

Notes:
Summary statistics generated from data collected between July 2024 and April 2026.
°C = degrees Celsius
mg/L = milligram per liter
mS/cm = millisiemens per centimeter
mV = millivolt
NTU = nephelometric turbidity unit

Prepared by: SSG1
Checked by: GMB

Table 3-7b
Surface Water Baseline Major Ions and General Chemistry
White Pine Copper LLC - Environmental Impact Assessment

Description	Descriptive Statistic	Alkalinity (mg/L)	Alkalinity, Bicarbonate (as $CaCO_3$) (mg/L)	Alkalinity, Carbonate (as $CaCO_3$) (mg/L)	Ammonia (mg/L)	Bromide (mg/L)	Chloride (mg/L)	Cyanide Total (mg/L)	Fluoride (mg/L)	Hardness (mg/L)	Nitrate as N (mg/L)	Nitrate/ Nitrite as N (mg/L)	Nitrite as N (mg/L)	Phosphorus Total (as P) (mg/L)	Sulfate (mg/L)	Sulfide (mg/L)	Total Organic Carbon (TOC) (mg/L)	Dissolved Organic Carbon (DOC) (mg/L)	Salinity (PSU)	Total Dissolved Solids (TDS) (mg/L)	Total Suspended Solids (TSS) (mg/L)
Non-Stream Sample Locations	Number of Observations	54	54	54	54	54	54	54	54	54	55	55	55	54	54	54	54	54	54	54	54
	Number of Non-Detect	0	0	51	48	37	3	53	43	0	51	51	55	33	25	27	0	0	51	0	5
	% Non-Detect	0.0	0.0	0.9	0.9	0.7	0.1	1.0	0.8	0.0	0.9	0.9	1.0	0.6	0.5	0.5	0.0	0.0	0.9	0.0	0.1
	Maximum	230.0	230.0	14.0	2.1	5.9	680.0	0.0	0.6	490.0	3.3	3.3	0.5	0.3	76.0	15.0	19.0	17.0	1.3	1,500.0	160.0
	Minimum	33.0	19.0	1.9	0.0	0.1	0.2	0.0	0.1	44.0	0.0	0.0	0.0	0.0	0.1	0.1	3.3	3.3	0.2	34.0	1.0
	Average	93.0	92.4	2.9	0.1	1.8	70.9	0.0	0.3	138.7	0.3	0.3	100% ND	0.0	12.4	1.6	7.6	7.4	0.5	244.2	19.4
	Standard Deviation	36.7	37.5	2.3	0.3	0.9	102.1	0.0	0.1	66.7	0.5	0.5	--	0.0	11.0	3.1	2.2	1.9	0.2	195.7	36.6
Stream Sample Locations	Number of Observations	200	200	200	196	200	200	200	200	200	200	200	200	200	200	201	200	200	197	200	198
	Number of Non-Detect	0	0	200	180	169	16	188	176	0	163	163	199	91	17	95	0	0	192	2	38
	% Non-Detect	0.0	0.0	1.0	0.9	0.8	0.1	0.9	0.9	0.0	0.8	0.8	1.0	0.5	0.1	0.5	0.0	0.0	1.0	0.0	0.2
	Maximum	490.0	490.0	1.9	1.5	2.4	270.0	0.0	1.0	360.0	3.7	3.7	0.5	3.9	37.0	14.0	24.0	16.0	1.0	730.0	2,300.0
	Minimum	15.0	15.0	1.9	0.0	0.1	0.2	0.0	0.1	15.0	0.0	0.0	0.0	0.0	0.1	0.1	1.2	1.4	0.2	2.0	1.0
	Average	71.7	71.7	100% ND	0.1	0.5	26.5	0.0	0.2	84.6	0.3	0.3	0.1	0.1	3.8	1.1	8.1	8.1	0.2	132.5	18.4
	Standard Deviation	39.3	39.3	--	0.1	0.2	24.0	0.0	0.1	37.5	0.4	0.4	0.0	0.3	2.9	2.2	2.6	2.4	0.0	77.6	162.7

Notes:
Summary statistics generated from data collected between July 2024 and April 2026.
$CaC0_3$ = calcium carbonate
mg/L = milligram per liter
PSU = Practical Salinity
TDS = total dissolved solids
TSS = total suspended solids
Cells with "---" indicate that the paramter was not analyzed.

Prepared by: SSG1
Checked by: GMB

Table 3-7c
Surface Water Baseline Dissolved Metals
White Pine Copper LLC - Environmental Impact Assessment

Description	Descriptive Statistic	Aluminum Dissolved (µg/L)	Antimony Dissolved (µg/L)	Arsenic Dissolved (µg/L)	Barium Dissolved (µg/L)	Beryllium Dissolved (µg/L)	Boron Dissolved (µg/L)	Cadmium Dissolved (µg/L)	Calcium Dissolved (µg/L)	Chromium Dissolved (µg/L)	Cobalt Dissolved (µg/L)	Copper Dissolved (µg/L)	Iron Dissolved (µg/L)	Lead Dissolved (µg/L)	Lithium Dissolved (µg/L)	Magnesium Dissolved (µg/L)	Manganese Dissolved (µg/L)
Non-Stream Sample Locations	Number of Observations	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
	Number of Non-Detect	48	54	6	0	54	12	53	0	54	53	2	26	54	15	0	2
	% Non-Detect	0.9	1.0	0.1	0.0	1.0	0.2	1.0	0.0	1.0	1.0	0.0	0.5	1.0	0.3	0.0	0.0
	Maximum	55.0	0.7	2.2	170.0	0.3	850.0	0.3	170,000.0	0.6	0.5	170.0	2,700.0	0.1	77.0	17,000.0	820.0
	Minimum	12.5	0.5	0.1	17.0	0.1	6.5	0.1	14,000.0	0.6	0.2	0.3	23.5	0.1	1.0	2,400.0	0.4
	Average	18.1	100% ND	0.5	55.0	100% ND	132.3	0.1	44,156.9	100% ND	0.2	12.3	192.7	100% ND	16.6	6,849.5	85.8
	Standard Deviation	8.0	--	0.2	25.5	--	124.4	0.0	23,074.4	--	0.0	20.8	490.3	--	10.5	2,680.7	171.7
Stream Sample Locations	Number of Observations	201	200	201	200	200	201	200	200	201	200	200	201	200	200	200	200
	Number of Non-Detect	80	200	22	0	200	69	200	0	197	189	2	27	187	153	0	4
	% Non-Detect	0.4	1.0	0.1	0.0	1.0	0.3	1.0	0.0	1.0	0.9	0.0	0.1	0.9	0.8	0.0	0.0
	Maximum	650.0	0.7	2.6	220.0	0.3	410.0	0.1	110,000.0	2.1	2.1	46.0	9,300.0	4.2	45.0	18,000.0	2,500.0
	Minimum	12.5	0.5	0.1	7.2	0.1	6.5	0.1	4,200.0	0.6	0.2	0.7	23.5	0.1	1.0	1,000.0	0.4
	Average	65.7	100% ND	0.4	50.2	100% ND	61.0	100% ND	24,896.9	0.6	0.3	8.0	373.5	0.4	7.1	5,136.6	99.5
	Standard Deviation	88.8	--	0.2	28.3	--	39.2	--	11,227.3	0.1	0.2	6.5	814.4	0.4	3.1	2,296.2	265.9

Table 3-7c (continued)

Description	Descriptive Statistic	Mercury Dissolved (ng/L)	Methyl Mercury Dissolved (ng/L)	Molybdenum Dissolved (µg/L)	Nickel Dissolved (µg/L)	Potassium Dissolved (µg/L)	Selenium Dissolved (µg/L)	Silver Dissolved (µg/L)	Sodium Dissolved (µg/L)	Strontium Dissolved (µg/L)	Thallium Dissolved (µg/L)	Tin Dissolved (µg/L)	Uranium Dissolved (µg/L)	Vanadium Dissolved (µg/L)	Zinc Dissolved (µg/L)
Non-Stream Sample Locations	Number of Observations	55	55	54	54	54	54	54	54	54	54	54	55	54	54
	Number of Non-Detect	14	41	27	52	0	52	54	0	0	54	54	9	47	54
	% Non-Detect	0.3	0.7	0.5	1.0	0.0	1.0	1.0	0.0	0.0	1.0	1.0	0.2	0.9	1.0
	Maximum	8.3	0.3	96.0	1.1	8,600.0	1.5	0.1	240,000.0	2,500.0	0.3	0.7	1.9	1.1	3.5
	Minimum	0.0	0.0	1.3	0.3	110.0	0.5	0.1	910.0	51.0	0.1	0.7	0.0	0.0	3.5
	Average	0.8	0.0	14.1	0.4	2,251.6	0.6	100% ND	29,229.1	378.8	100% ND	100% ND	0.2	0.9	100% ND
	Standard Deviation	1.21	0.1	11.2	0.1	1,321.1	0.2	--	36,124.4	335.8	--	--	0.2	0.3	--
Stream Sample Locations	Number of Observations	200	200	200	201	200	200	200	200	200	200	200	200	200	200
	Number of Non-Detect	11	97	177	187	0	195	200	0	0	200	190	3	153	198
	% Non-Detect	0.1	0.5	0.9	0.9	0.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.8	1.0
	Maximum	6.5	0.2	48.0	1.9	6,700.0	1.8	0.1	91,000.0	1,300.0	0.3	2.4	1.2	2.9	11.0
	Minimum	0.1	0.0	1.3	0.3	490.0	0.5	0.1	490.0	11.0	0.1	0.7	0.0	0.2	3.5
	Average	2.1	0.0	16.2	0.4	1,498.5	0.5	100% ND	10,683.5	159.2	100% ND	0.7	0.2	1.0	4.2
	Standard Deviation	1.5	0.0	2.9	0.2	582.0	0.2	--	9,160.4	104.1	--	0.3	0.2	0.3	0.6

Notes:
Summary statistics generated from data collected between July 2024 and April 2026.
HGU = hydrostratigraphic unit
ng/L = nanogram per liter
µg/L = microgram per liter
Cells with "---" indicate that the paramter was not analyzed.

Prepared by: SSG1
Checked by: GMB

Table 3-7d
Surface Water Baseline Total Recoverable Metals
White Pine Copper LLC - Environmental Impact Assessment

Description	Descriptive Statistic	Aluminum Total (µg/L)	Antimony Total (µg/L)	Arsenic Total (µg/L)	Barium Total (µg/L)	Beryllium Total (µg/L)	Boron Total (µg/L)	Cadmium Total (µg/L)	Calcium Total (µg/L)	Chromium Total (µg/L)	Cobalt Total (µg/L)	Copper Total (µg/L)	Iron Total (µg/L)	Lead Total (µg/L)	Lithium Total (µg/L)	Magnesium Total (µg/L)	Manganese Total (µg/L)
Non-Stream Sample Locations	Number of Observations	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
	Number of Non-Detect	16	54	3	0	53	11	52	0	43	45	0	3	40	18	0	0
	% Non-Detect	0.3	1.0	0.1	0.0	1.0	0.2	1.0	0.0	0.8	0.8	0.0	0.1	0.7	0.3	0.0	0.0
	Maximum	3,400.0	0.7	9.3	180.0	0.3	850.0	7.8	170,000.0	9.1	2.7	3,000.0	6,800.0	25.0	76.0	20,000.0	1,200.0
	Minimum	12.5	0.5	0.1	18.0	0.1	6.5	0.1	14,000.0	0.6	0.2	0.5	23.5	0.1	1.0	2,400.0	4.2
	Average	263.6	100% ND	0.7	60.5	0.3	134.9	0.5	44,073.1	1.0	0.4	79.8	887.4	0.6	17.0	6,921.8	127.6
	Standard Deviation	481.0	--	1.2	29.2	0.0	121.3	1.1	22,635.4	1.2	0.4	401.1	1,218.2	3.4	10.3	2,704.6	203.7
Stream Sample Locations	Number of Observations	200	200	201	200	200	201	200	200	201	201	200	200	200	200	200	200
	Number of Non-Detect	7	200	7	0	191	66	197	0	152	159	2	1	112	149	0	0
	% Non-Detect	0.0	1.0	0.0	0.0	1.0	0.3	1.0	0.0	0.8	0.8	0.0	0.0	0.6	0.7	0.0	0.0
	Maximum	29,000.0	0.7	4.8	260.0	38.0	420.0	1.4	110,000.0	34.0	18.0	140.0	30,000.0	16.0	44.0	18,000.0	3,900.0
	Minimum	12.5	0.5	0.1	9.1	0.1	6.5	0.1	4,200.0	0.6	0.2	1.0	23.5	0.1	1.0	1,100.0	3.2
	Average	613.5	100% ND	0.5	55.8	3.9	63.8	0.1	25,118.0	1.1	0.4	11.7	1,009.2	0.5	5.5	5,291.2	145.4
	Standard Deviation	2,110.2	--	0.4	32.7	4.5	40.3	0.1	11,221.8	2.5	1.3	14.2	2,340.8	1.2	3.7	2,318.9	381.8

Table 3-7d (continued)

Description	Descriptive Statistic	Mercury Total (ng/L)	Methyl Mercury Total (ng/L)	Molybdenum Total (µg/L)	Nickel Total (µg/L)	Potassium Total (µg/L)	Selenium Total (µg/L)	Silver Total (µg/L)	Sodium Total (µg/L)	Strontium Total (µg/L)	Thallium Total (µg/L)	Tin Total (µg/L)	Uranium Total (µg/L)	Vanadium Total (µg/L)	Zinc Total (µg/L)
Non-Stream Sample Locations	Number of Observations	55	55	54	54	54	54	54	54	54	54	54	55	54	55
	Number of Non-Detect	10	37	28	45	0	53	52	0	0	54	54	7	41	50
	% Non-Detect	0.2	0.7	0.5	0.8	0.0	1.0	1.0	0.0	0.0	1.0	1.0	0.1	0.8	0.9
	Maximum	32.0	0.6	91.0	7.0	9,000.0	1.3	2.0	240,000.0	2,500.0	0.3	0.7	2.1	8.0	56.0
	Minimum	0.0	0.0	1.3	0.3	110.0	0.5	0.1	910.0	51.0	0.1	0.7	0.0	0.0	3.5
	Average	2.1	0.1	13.5	0.9	2,288.6	0.6	0.2	29,300.5	378.2	100% ND	100% ND	0.2	1.3	6.0
	Standard Deviation	5.0	0.1	10.2	0.9	1,320.1	0.1	0.3	36,736.8	331.7	--	--	0.3	1.1	7.7
Stream Sample Locations	Number of Observations	200	200	200	200	200	200	200	200	200	200	200	200	201	200
	Number of Non-Detect	8	80	176	115	0	191	199	0	0	200	188	2	121	182
	% Non-Detect	0.0	0.4	0.9	0.6	0.0	1.0	1.0	0.0	0.0	1.0	0.9	0.0	0.6	0.9
	Maximum	55.0	0.9	48.0	31.0	6,900.0	2.2	0.3	94,000.0	1,300.0	0.3	3.5	3.8	66.0	150.0
	Minimum	0.1	0.0	1.3	0.3	520.0	0.5	0.1	490.0	11.0	0.1	0.7	0.0	0.4	3.5
	Average	2.9	0.1	11.4	0.9	1,598.2	0.6	0.1	10,798.0	161.0	100% ND	0.7	0.2	1.9	5.9
	Standard Deviation	4.3	0.1	2.9	2.3	653.2	0.2	0.0	9,170.4	105.9	--	0.3	0.3	4.7	12.8

Notes:
HGU = hydrostratigraphic unit
Summary statistics generated from data collected between July 2024 and April 2026.
µg/L = microgram per liter
Cells with "---" indicate that the paramter was not analyzed.

Prepared by: SSG1
Checked by: GMB

Table 3-8
Summary of Wetland Delineation Results
White Pine Copper LLC - Environmental Impact Assessment

Wetland Cowardin Classification	Total Mapped Wetland Acreage (acres)	Percent of Total Mapped Wetland Acreage (%)
PEM	82.81	29%
PEM/PFO	0.91	0%
PEM/PSS	38.12	13%
PEM/PSS/PUB	37.45	13%
PEM/PSS/PUB/PFO	57.62	20%
PEM/PSS/R	8.36	3%
PEM/PUB	2.50	1%
PEM/PUB/PSS	12.52	4%
PEM/R	14.58	5%
PFO	7.47	3%
PSS	0.67	0%
PUB/PEM	13.80	5%
PUB/PEM/PFO	4.09	1%
PUB/PEM/PSS	8.50	3%
R	0.14	0%
Total	**289.54**	**100%**

Notes: Prepared by: NAA2

PFO = Palustrine Forested Broad-Leaved Deciduous Wetland Checked by: CER2

PEM = Palustrine Emergent Wetland

PFO = Palustrine Forested Wetland

PSS = Palustrine Scrub-Shrub Wetland

PUB = Palustrine Unconsolidated Bottom

R = Riverine

Wetland community acreages are based on mapped wetland community polygons identified during baseline investigations. Total mapped wetland acreage may differ from study-area wetland acreage estimates reported in baseline studies because those studies incorporated transect-based interpolation and landscape-scale wetland characterization methods.

Table 3-9
Summary of Part 303 Wetland Regulatory Status
White Pine Copper LLC - Environmental Impact Assessment

Regulatory Classification	Acreage (ac)	Percent of Total (%)	Number of Features
Nonregulated Wetlands	30.35	10.5%	36
Part 303 Regulated Wetlands	259.19	89.5%	306
Total Wetlands Identified	**289.54**	**100.0%**	**342**

Prepared by: NAA2

Checked by: CER2

Table 3-10
Summary of Anticipated Wetland Impacts
White Pine Copper LLC - Environmental Impact Assessment

Wetland ID	Impacted Area (square meters)	Impacted Area (acres)	Cowardin Classification
2	188.1	0.1	PEM
3	5,667.6	1.4	PEM/PSS/PUB
4	80.8	0.0	PEM
5	357.7	0.1	PEM/PSS
6	1,635.6	0.4	PFO
7	642.2	0.2	PEM/PSS
9	213.4	0.1	PEM/PSS
11	27,535.9	6.8	PEM/PSS
13	848.1	0.2	PEM/PSS
15	207.3	0.1	PEM/PSS
17	102.9	0.0	PEM/PSS
18	89.6	0.0	PSS
19	206.4	0.1	PEM/PSS
20	430.8	0.1	PSS
22	285.2	0.1	PEM
23	84.1	0.0	PEM/PSS
24	130.6	0.0	PEM
25	1,333.9	0.3	PEM/PSS
26	91.2	0.0	PEM/PSS
27	46.6	0.0	PEM/PSS
28	100.7	0.0	PEM/PSS
31	71.7	0.0	PEM
32	74.1	0.0	PEM
34	19.3	0.0	PEM
35	124.5	0.0	PEM/PSS
36	27.5	0.0	PEM/PSS
38	35.3	0.0	PEM/PSS
40	173.1	0.0	PEM
42	8.8	0.0	PEM
44	212.5	0.1	PEM
46	154.8	0.0	PEM
48	32.3	0.0	PEM
54	1,470.1	0.4	PEM/R
57	184.0	0.0	PEM/PSS
60	396.8	0.1	PFO
63	99.3	0.0	PEM/PSS
69	4,862.2	1.2	PEM/PSS
75	1,026.2	0.3	PEM/PSS
91	3,060.9	0.8	PEM/PSS/PUB/PFO
261	105.2	0.0	PEM
267	348.6	0.1	PEM
269	1,125.4	0.3	PEM/PSS
277	586.4	0.1	PEM/PSS

Table 3-10 (continued)

Wetland ID	Impacted Area (square meters)	Impacted Area (acres)	Cowardin Classification
279	9.8	0.0	PEM
281	583.4	0.1	PEM/PSS
282	68.8	0.0	PEM/PSS
284	174.8	0.0	PEM
286	96.0	0.0	PEM
288	335.4	0.1	PEM/PSS
290	39.0	0.0	PEM
291	77.7	0.0	PEM
292	35.5	0.0	PEM
293	33.5	0.0	PEM/PSS
294	26.4	0.0	PEM/PSS
295	32.7	0.0	PEM
296	62.9	0.0	PEM
298	100.5	0.0	PEM
299	482.7	0.1	PEM/PSS
300	7.9	0.0	PEM/PSS
302	38.0	0.0	PEM
303	53.0	0.0	PEM
0.272727273	622.9	0.2	PEM/PSS/R
30/D	2,613.9	0.6	PSS
68/F	384.1	0.1	PEM
A	1,721.9	0.4	PEM
AA	127.4	0.0	PEM
AB	45.2	0.0	PEM
AC	48.6	0.0	PEM
AD	1,411.3	0.3	PEM/PUB
AE	95.3	0.0	PEM
AF	213.2	0.1	PEM
AG	74.0	0.0	PEM
AH	546.0	0.1	PEM
AI	73.0	0.0	PEM
C	26.4	0.0	PEM
E	32.4	0.0	PEM
H	303.9	0.1	PEM
I	167.2	0.0	PEM
J	546.1	0.1	PEM
K	43.4	0.0	PSS
L	33.8	0.0	PEM
M	97.3	0.0	PEM
N	110.0	0.0	PEM
O	34.7	0.0	PEM
P	104.8	0.0	PEM
Q	67.0	0.0	PEM
R	66.6	0.0	PEM
S	39.1	0.0	PEM
T	251.5	0.1	PEM
U	48.7	0.0	PEM
V	21.6	0.0	PEM

Table 3-10 (continued)

Wetland ID	Impacted Area (square meters)	Impacted Area (acres)	Cowardin Classification
W	408.5	0.1	PEM
X	216.5	0.1	PEM
Z	14.1	0.0	PEM
Total	**67,346.2**	**16.6**	

Notes:

Prepared by: NAA2

Checked by: CER2

PFO = Palustrine Forested Broad-Leaved Deciduous Wetland

PEM = Palustrine Emergent Wetland

PFO = Palustrine Forested Wetland

PSS = Palustrine Scrub-Shrub Wetland

PUB = Palustrine Unconsolidated Bottom

R = Riverine

Table 3-11
Natural Rivers and Wild and Scenic Rivers of the Upper Peninsula
White Pine Copper LLC - Environmental Impact Assessment

River	Location	Drains To
Michigan Natural Rivers (in the Upper Peninsula)		
Fox River	Eastern Upper Peninsula	Lake Michigan
Two Hearted River	Eastern Upper Peninsula	Lake Superior
Federal Wild and Scenic Rivers of Michigan		
Black River	Western Upper Peninsula	Lake Superior
Carp River	Eastern Upper Peninsula	Lake Huron
East Branch Tahquamenon River	Eastern Upper Peninsula	Lake Superior
Indian River	Southern Upper Peninsula	Lake Michigan
Ontonagon River	Western Upper Peninsula	Lake Superior
Paint River	Central Upper Peninsula	Lake Michigan
Presque Isle River	Western Upper Peninsula	Lake Superior
Sturgeon River (Hiawatha National Forest)	Southern Upper Peninsula	Lake Michigan
Sturgeon River (Ottawa National Forest)	Northern Upper Peninsula	Lake Superior
Whitefish River	Central Upper Peninsula	Lake Michigan
Yellow Dog River	Northern Upper Peninsula	Lake Superior

Prepared by: KRM2

Checked by: NAA2

Notes:

1. Michigan Natural Rivers information accessed 03/27/2026 from: www.michigan.gov/dnr/managing-resources/fisheries/natural-rivers

2. Federal Wild and Scenic Rivers information accessed 03/27/2026 from: www.rivers.gov/michigan

Table 3-12
Surface Property Ownership
White Pine Copper LLC - Environmental Impact Assessment

Line No	Owner[1,2]	Address		Parcel ID
		Address No. and Street	City	
1	Tobermorry Farms, LLC			09 232 002 00
2	Andrew and Lydia Chamberlain			03 560 362 00
3	Township Of Carp Lake			03 640 006 00
4	Tammi Anderson			03 013 017 10
5	Apeiro Ventures, LLC			03 013 014 21
6	Charles Austin and Mary Lou Trustees	31947 Townline Rd	Carp Lake Township, MI	03 025 001 00
7				03 025 001 05
8	Steve Babcock and Deloria Martin		Carp Lake Township, MI	03 022 001 50
9	Jacqueline Baker Life Estate	32421 Townline Rd	Carp Lake Township, MI	03 024 009 00
10	Loretta Bannick	33107 Townline Rd	Carp Lake Township, MI	03 013 021 20
11	Zachary Ray Bastow		Carp Lake Township, MI	03 014 007 30
12	Brian and Tami Jo Beltman	29923 L P Walsh Rd	Ontonagon Township, MI	09 335 001 00
13	Gregory and Melissa Betcher	32822 Townline Rd	Ontonagon Township, MI	09 219 008 00
14	Bruce and Marilyn Boardman Trustee			03 024 010 00
15	David Brookins			03 023 001 30
16	Jeff Brosi and Michele Suzanne			03 136 106 20
17	Josh Camp			09 231 003 20
18	Susan Carlson Trustee			03 026 001 10
19	Edward Colclasure	32613 Townline Rd	Carp Lake Township, MI	03 024 003 00
20	Homer Colclasure			09 219 009 00
21	Barry Cole	33426 L P Walsh Rd	Ontonagon Township, MI	09 220 008 10
22	Barry Cole and Tracy Bushie	33182 L P Walsh Rd	Ontonagon Township, MI	09 220 008 20
23				09 220 008 30
24				09 229 004 00
25	Christopher Countryman Trustee	33014 Townline Rd	Ontonagon Township, MI	09 218 014 00
26				09 218 015 00
27				09 219 003 00
28	Eva Cunningham			03 023 001 50
29	Todd and Stephanie Davis	26514 Quartz Rd	Ontonagon Township, MI	09 219 015 00
30				09 219 020 10
31	Deering Dave and Kris Deering			03 125 004 40
32	Scott Dehut	32418 Townline Rd	Ontonagon Township, MI	09 219 012 10
33	Ronald and Carol Dix	33009 Townline Rd	Carp Lake Township, MI	03 013 022 00
34	April Elbrecht			03 018 001 00
35	Family Declaration of Ellis and Ellis	35333 Mall Circle	Carp Lake Township, MI	03 058 001 10
36	William Ellis and Angeliq Fromer			03 640 014 00
37	Neal Emerson			03 025 005 10
38		31029 Townline Rd	Carp Lake Township, MI	03 025 005 15
39				03 025 007 00
40				03 026 001 40
41	Caleb Fackler	32120 Townline Rd	Ontonagon Township, MI	09 219 014 00
42		32146 Townline Rd	Ontonagon Township, MI	09 219 014 20
43	Tod & Samantha Fackler	32529 Townline Rd	Carp Lake Township, MI	03 024 005 00
44	Will Felder			03 036 001 50
45				03 036 001 60
46	Lawrence and Sandra Fliess			09 219 018 00
47	David Fraki	33245 Townline Rd	Carp Lake Township, MI	03 013 016 20
48	Carolyn Frank Trustee			03 136 006 20
49	Shawn Geiger			03 026 001 70
50	Shawn Geiger and Ronda Le		Carp Lake Township, MI	03 024 008 10
51	Lee Geurts	29211 M-64	Carp Lake Township, MI	03 055 016 20
52				03 055 016 40
53	Timothy and Corrine Gosz			03 023 001 00
54	Devin Gress			03 036 001 70
55	Devin Gress and Arms Corey			03 036 001 80
56	Alan and Dorina Grundberg	101 Alder Ln	Carp Lake Township, MI	03 560 353 00
57	David and Susan Guilbault	33469 L P Walsh Rd	Ontonagon Township, MI	09 219 016 00

Table 3-12 (continued)

Line No	Owner[1,2]	Address		Parcel ID
		Address No. and Street	City	
58	Susan and Thompson Guilbault	33988 L P Walsh Rd	Ontonagon Township, MI	09 220 003 00
59	Matthew Hagen	30949 L P Walsh Rd	Carp Lake Township, MI	03 036 008 00
60	Jerry and Deborah Hagerty	26815 Quartz Rd	Ontonagon Township, MI	09 230 007 00
61				09 230 008 00
62	Gary Harris			03 022 001 10
63				03 022 001 40
64	Brian Hazen			03 024 003 20
65	Thomas Heikkila Jr	31647 Townline Rd	Carp Lake Township, MI	03 025 002 00
66	Wesley Hineline			03 026 001 50
67				03 026 001 51
68				03 035 001 00
69				03 035 001 20
70	James Horvath	32326 Townline Rd	Ontonagon Township, MI	09 219 013 00
71	Dennis Husar and Ann Marie Le			09 335 001 21
72				09 336 001 20
73				03 035 001 10
74				03 036 003 00
75	Eric Isham			03 036 001 30
76				03 036 001 40
77	Rachelle Jacob	30572 L P Walsh Rd	Carp Lake Township, MI	03 036 005 00
78	Frank and Denise Jirikowic			03 025 006 00
79	Gregory Johns			09 230 014 10
80	Jerry Johns and Gregory Johns	32252 L P Walsh Rd	Ontonagon Township, MI	09 230 014 20
81	Kimberly and Jesse Johnson	26701 Heikkila Rd	Ontonagon Township, MI	09 218 012 10
82	Dale and Michele Kamppinen	34284 L P Walsh Rd	Ontonagon Township, MI	09 217 015 00
83	Donald Jay Kangas	33195 Townline Rd	Carp Lake Township, MI	03 013 021 00
84	Dale Karttunen and Pamela Le			03 022 001 20
85				03 023 001 20
86	Pauline Karttunen Trustee			03 023 001 10
87	Scott and Sharon Karttunen			03 022 001 30
88	Tom and Monica Kauth Revocable			03 013 013 00
89		33521 Halfway River Rd	Carp Lake Township, MI	03 013 014 10
90				03 024 006 00
91	Violet Kendall	33111 Townline Rd	Carp Lake Township, MI	03 013 021 30
92	Robert Le King	33493 Halfway River Rd	Carp Lake Township, MI	03 013 017 00
93	Jason and Drew Kirker	31362 L P Walsh Rd	Ontonagon Township, MI	09 231 002 50
94	Daniel Kozlowski		Carp Lake Township, MI	03 014 001 20
95	Graham and Leah League	33515 Halfway River Rd	Carp Lake Township, MI	03 024 002 00
96	Kyung Chul Lee	29851 Wilcox Rd	Carp Lake Township, MI	03 054 006 00
97	Raymond Charles Lindstrom	33896 L P Walsh Rd	Ontonagon Township, MI	09 220 003 10
98	Scott Logan		Carp Lake Township, MI	03 125 113 00
99	Elizabeth Lund and Moore Tyler			09 230 006 20
100	Stephen Lund	32633 Townline Rd	Carp Lake Township, MI	03 024 003 30
101	William and Margaret Lund	26429 Quartz Rd	Ontonagon Township, MI	09 230 003 00
102				09 230 006 10
103		26344 Quartz Rd	Ontonagon Township, MI	09 219 020 00
104	Rodney Manthey			03 026 001 00
105	Todd and Michelle Manthey			03 026 001 61
106				03 026 001 62
107	Michael and Kathryn Mehn Trust	32714 Townline Rd	Ontonagon Township, MI	09 219 011 00
108	David and Debbra Mercure			03 036 003 10
109				03 036 006 00
110	Timothy and Jenny Meyer			03 013 014 30
111	Michigan Nature Association			09 230 012 00
112	Gary Monville and Sam Pun Trustees	32519 L P Walsh Rd	Ontonagon Township, MI	09 230 005 00
113				09 230 010 00

Table 3-12 (continued)

Line No	Owner[1,2]	Address		Parcel ID
		Address No. and Street	City	
114	Steven Moreau			03 026 001 20
115				03 026 001 30
116				03 027 001 20
117	Steven and Charlene Moreau			03 027 001 00
118				03 027 001 10
119				03 035 001 30
120	Gordon Mosher	32027 Townline Rd	Carp Lake Township, MI	03 024 011 00
121				03 025 001 20
122	Christa Nickell	26898 Quartz Rd	Ontonagon Township, MI	09 219 014 10
123	Audrey Renee Niemi	32001 Townline Rd	Carp Lake Township, MI	03 025 001 10
124				03 025 003 00
125	Norman Pestka Const Inc			03 054 122 00
126	Northern Land & Sales, LLC			03 136 106 50
127	Northern Natural Gas Co.	30200 N Dam Rd	Carp Lake Township, MI	03 054 001 00
128	Michael O'Kelly			03 136 006 40
129	Oak Forest Properties, LLC			09 336 001 00
130				03 036 002 00
131	Donald and Arlene Olson Trust			03 055 004 00
132		65 Hemlock St	Carp Lake Township, MI	03 055 004 10
133	Paul Olson	32745 Townline Rd	Carp Lake Township, MI	03 024 001 00
134	Ontonagon County Road Commission			03 036 007 00
135				09 217 016 00
136				09 218 020 00
137				09 219 002 00
138				09 219 006 00
139				09 219 017 00
140				09 219 019 00
141				09 220 004 00
142				09 220 006 00
143				09 220 008 40
144				09 229 004 10
145				09 230 002 00
146				09 230 005 10
147				09 230 011 00
148				09 230 013 00
149				09 230 014 30
150				09 231 004 00
151				03 036 007 00
152				03 054 135 00
153	Dale Parent			09 218 018 00
154	Parker John Parker	33523 Halfway River Rd	Carp Lake Township, MI	03 013 009 00
155	Greg Pommerening			03 036 001 90
156	Yvonne Le Poulos	32715 Townline Rd	Carp Lake Township, MI	03 024 004 00
157	Joseph and Michelle Prieskorn			03 023 001 60
158	Richard and Sara Rausch			09 230 004 00
159				09 230 009 10
160				09 230 014 00
161				09 231 003 10
162	Red Oak Land Company Inc.			03 027 001 30
163				03 034 001 10
164				03 034 001 20
165	Donald and Bambi Redemeier	35019 Mall Circle	Carp Lake Township, MI	03 640 020 00
166	Andrew Reichardt			03 024 007 00
167				03 024 008 00
168	Jack and Janice Richardson			03 018 001 01
169	Luke Safford			09 219 004 00
170		33615 L P Walsh Rd	Ontonagon Township, MI	09 219 005 00
171	Jacob Wayne Schlarb			03 013 016 00
172	Dan and Connie Shamion	32486 Townline Rd	Ontonagon Township, MI	09 219 012 00
173	Donald and Mary Sharp	30988 M 64	Carp Lake Township, MI	03 136 006 10

Table 3-12 (continued)

Line No	Owner[1,2]	Address		Parcel ID
		Address No. and Street	City	
174	James and Polly Shields	26967 Heikkila Rd	Ontonagon Township, MI	09 218 013 00
175	Monica Smartt			09 230 009 00
176				09 231 002 10
177				09 231 002 20
178	John Jr Smith	32760 Townline Rd	Ontonagon Township, MI	09 219 010 00
179	David M Sparpanic	33544 L P Walsh Rd	Ontonagon Township, MI	09 220 005 00
180	John Steffen	38064 M-64	Carp Lake Township, MI	03 136 106 10
181	Brett Strunk	108 Aspen St	Carp Lake Township, MI	03 055 016 10
182	Subterra, LLC			03 053 002 00
183	Subterra, LLC			03 054 101 00
184		29883 Wilcox Rd	Carp Lake Township, MI	03 054 131 00
185				03 054 133 00
186				03 059 001 20
187		33655 Dynamite Ln	Carp Lake Township, MI	03 059 001 30
188	Tahi Group, LLC			09 336 001 30
189				03 051 002 00
190				03 051 003 10
191	Teuton Industries	Wilcox Rd	Carp Lake Township, MI	03 054 104 10
192	Tammi Thomas	33517 Halfway River Rd	Carp Lake Township, MI	03 013 012 00
193	Tobermorry Farms, LLC			09 220 001 00
194				09 220 002 10
195				09 229 002 00
196				09 229 003 00
197				09 229 005 00
198				09 231 001 00
199		30178 Townline Rd	Ontonagon Township, MI	09 231 002 00
200	Roger Todd			03 014 006 00
201	Anthony and Georgianna Tomasoski	30026 M-64	Carp Lake Township, MI	03 136 006 90
202	White Pine Copper, LLC			03 019 002 00
203	Township Of Carp Lake	32318 M-64	Carp Lake Township, MI	03 019 002 10
204				03 054 302 10
205				03 640 001 00
206				03 640 005 00
207				03 640 007 00
208	Rachel Tuomi	100 Alder Ln	Carp Lake Township, MI	03 560 361 00
209	Upper Peninsula Power Co	28873 M-64	Carp Lake Township, MI	03 059 001 10
210	Michael Valenta	Bolo Rd	Carp Lake Township, MI	03 014 007 11
211	Walter and Polly Veldman			09 219 007 00
212	Diane Vezina	26744 Quartz Rd	Ontonagon Township, MI	09 219 014 30
213	Village Of Ontonagon	30411 N Dam Rd	Carp Lake Township, MI	03 031 001 10
214				03 054 149 00
215	Thomas and Josie Lou Wallace	34105 L P Walsh Rd	Ontonagon Township, MI	09 218 021 00
216	Thomas Ross and Josie Lou Wallace			09 219 001 00
217	Tonya Waltanen			03 013 019 00
218				03 013 020 00
219				03 054 131 00
220				03 015 001 00
221				03 015 002 00
222				03 016 001 00
223				03 016 002 00
224				03 017 001 10
225				03 019 001 00
226				03 019 003 00
227				03 020 001 00
228				03 021 001 00
229				03 022 001 00
230				03 022 002 00
231				03 027 002 00
232				03 028 001 00
233				03 029 001 00

Table 3-12 (continued)

Line No	Owner[1,2]	Address		Parcel ID
		Address No. and Street	City	
234	White Pine Copper, LLC			03 030 001 00
235				03 031 001 00
236				03 031 303 00
237				03 032 001 00
238				03 033 001 00
239				03 034 002 00
240				03 051 003 00
241				03 052 001 00
242				03 053 001 00
243				03 054 123 00
244		29546 Willow Rd	Carp Lake Township, MI	03 054 124 00
245				03 054 125 00
246				03 054 126 00
247		30051 Wilcox Rd	Carp Lake Township, MI	03 054 127 00
248		30051 Wilcox Rd	Carp Lake Township, MI	03 054 128 00
249			Carp Lake Township, MI	03 054 129 10
250			Carp Lake Township, MI	03 054 129 20
251		29838 Wilcox Rd	Carp Lake Township, MI	03 054 146 00
252			Carp Lake Township, MI	03 054 201 10
253			Carp Lake Township, MI	03 055 001 00
254			Carp Lake Township, MI	03 055 001 00
255			Carp Lake Township, MI	03 055 013 00
256			Carp Lake Township, MI	03 058 001 00
257			Carp Lake Township, MI	03 059 001 00
258			Carp Lake Township, MI	03 125 001 00
259			Carp Lake Township, MI	03 136 001 06
260	White Pine Copper Refinery Inc	29784 Willow Rd	Carp Lake Township, MI	03 054 004 00
261		29784 Willow Rd	Carp Lake Township, MI	03 054 132 00
262	White Pine Electric Power, LLC		Carp Lake Township, MI	03 031 001 20
263		29798 Willow Rd	Carp Lake Township, MI	03 054 005 00
264			Carp Lake Township, MI	03 054 201 20
265			Carp Lake Township, MI	03 054 202 00
266			Carp Lake Township, MI	03 136 001 01
267			Carp Lake Township, MI	03 136 001 03
268			Carp Lake Township, MI	03 136 001 04
269		29639 Willow Rd	Carp Lake Township, MI	03 054 121 00
270	Wilcox Aaron Wilcox and Joseph Prieskorn			03 023 001 40
271	Wendell Wildermuth			03 036 001 20
272	Garry Jr and Jackie Wiseman	32573 Townline Rd	Carp Lake Township, MI	03 024 003 10
273	Keith and Kaitlin Wolf	30510 M-64	Carp Lake Township, MI	03 136 106 30

Notes:

[1] Refer to Figure 2-2 for parcel location.

[2] Owners are subject to change and confirmation.

Prepared by: CLK6
Checked by: NAA2

Table 3-13
Aquatic Sampling Stations and Baseline Evaluations
White Pine Copper LLC - Environmental Impact Assessment

Sampling Station	Sample ID	Aquatic Resource	2024 Biological Communities and Habitat	2024 Water Quality	2024 Mussels	2025 Pond Characterization
Argentine Creek 1	Arg 1	Perennial stream	X	X	X	---
Argentine Creek 2	Arg 2	Intermittent/ Headwater stream	X	X	X	---
Caribou Creek	Caribou	Headwater stream	X	X	X	---
Duck Creek 1	Duck 1	Perennial stream	X	X	X	---
Duck Creek 2	Duck 2	Perennial stream	X	X	X	---
Miles Creek	Miles	Small stream	X	X	X	---
Mineral River 1	Min 1	River	X	X	X	---
Mineral River 2	Min 2	River	X	X	X	---
Perch Creek	Perch	Stream	X	X	X	---
Pine Creek	Pine	Stream	X	X	X	---
Portal Creek	Portal	Stream (16 sampling reaches)	X	X	---	---
North Dam 2	ND2	Pond (runoff management system)	X	---	---	X
Pond 1	Pond 1	Pond	X	---	---	X
Pond 2	Pond 2	Pond (runoff management system)	X	---	---	X
Pond 3	Pond 3	Pond (runoff management system)	---	X	---	X
Pond 4	Pond 4	Pond (runoff management system)	---	---	---	X
Pond 5	Pond 5	Pond (runoff management system)	X	X	---	X
Pond 6	Pond 6	Pond	---	X	---	X
Pond 7	Pond 7	Pond	---	X	---	X
Pond 8	Pond 8	Pond	X	X	---	X
Pond 9	Pond 9	Pond	X	X	---	X

Table 3-13 (continued)

Sampling Station	Sample ID	Aquatic Resource	2024 Biological Communities and Habitat	2024 Water Quality	2024 Mussels	2025 Pond Characterization
Pond 10	Pond 10	Pond	X	X	---	X
Pond 11	Pond 11	Pond (runoff management system)	---	---	---	X
Pond 12	Pond 12	Pond	---	---	---	X
Pond 13	Pond 13	Pond	---	---	---	X
Pond 14	Pond 14	Pond	---	---	---	X
Pond 15	Pond 15	Pond	---	---	---	X
Pond 16	Pond 16	Pond	---	---	---	X
Pond 17	Pond 17	Pond	---	---	---	X
Pond 18	Pond 18	Pond	---	---	---	X
Pond 19	Pond 19	Pond	---	---	---	X
Pond 20	Pond 20	Pond	---	---	---	X
Pond 21	Pond 21	Pond	---	---	---	X
Pond 22	Pond 22	Pond	---	---	---	X
Pond 23	Pond 23	Pond	---	---	---	X
Pond 24	Pond 24	Pond	---	---	---	X
Pond 25	Pond 25	Pond	---	---	---	X
Pond 26	Pond 26	Pond	---	---	---	X
Pond 27	Pond 27	Pond	---	---	---	X
Pond 28	Pond 28	Pond	---	---	---	X
Pond 29	Pond 29	Pond	---	---	---	X

Prepared by: KRM2

Checked by: NAA2

Notes:

(1) The 2024 baseline survey included biological community assessments, aquatic habitat evaluations, water quality measurements, and freshwater mussel reconnaissance, as applicable to each sampling location.

(2) The 2025 investigation expanded baseline coverage by evaluating all 29 ponds north of North Dam 2 for general pond characteristics (vegetation, substrate, hydrologic connectivity, and field water quality), but did not repeat fish or macroinvertebrate community assessments because the representative ponds evaluated in 2024 encompassed the range of aquatic conditions present within the Project Area.

Table 3-14
Summary of Aquatic Community and Habitat Assessment Ratings
White Pine Copper LLC - Environmental Impact Assessment

Sampling Station	Sample ID	Fish Community Rating	Macroinvertebrate Community Rating	Aquatic Habitat Rating
Argentine Creek 1	Arg 1	Poor	Acceptable	Good
Argentine Creek 2	Arg 2	Poor	Acceptable	Excellent
Caribou Creek	Caribou	Poor	Acceptable	Good
Duck Creek 1	Duck 1	Poor	Acceptable	Good
Duck Creek 2	Duck 2	Acceptable	Poor	Excellent
Miles Creek	Miles	Poor	Poor	Marginal
Mineral River 1	Min 1	Acceptable	Acceptable	Good
Mineral River 2	Min 2	Acceptable	Acceptable	Excellent
Perch Creek	Perch	Poor	Acceptable	Good
Pine Creek	Pine	Acceptable	Acceptable	Good
Portal Creek	Portal	Poor	Poor	Good

Prepared by: NAA2
Checked by: CER2

Notes:
Ratings for Argentine Creek, Caribou Creek, Duck Creek, Miles Creek, Mineral River, Perch Creek, and Pine Creek are based on EGLE Procedure 51 assessments reported by AEM (2025). Portal Creek ratings are based on the separate Procedure 51 assessment included in Appendix B of Appendix F-1.

Table 3-15
Aquatic Habitat Description
White Pine Copper LLC - Environmental Impact Assessment

Sampling Station	Sample ID	Aquatic Resource	Dominant Habitat
Argentine Creek 1	Arg 1	Perennial stream	Riffle/run stream with sand, cobble, and boulder substrate; moderate-gradient channel with stable banks and forested riparian corridor.
Argentine Creek 2	Arg 2	Intermittent to low-flow headwater stream	Narrow riffle/run channel dominated by organic matter and muck substrate; shallow low-flow stream with forested riparian vegetation.
Caribou Creek	Caribou	Headwater stream	Very small braided riffle/run stream with muck and organic substrate; sedge- and alder-dominated riparian habitat.
Duck Creek 1	Duck 1	Perennial stream	Riffle/run stream with sand, cobble, and boulder substrate; moderate-gradient channel with forested riparian corridor.
Duck Creek 2	Duck 2	Perennial stream	Riffle/run stream with bedrock, shale slabs, cobble, and boulder substrate; higher-quality coarse-substrate habitat with stable channel morphology.
Miles Creek	Miles	Small stream	Low-gradient riffle/run stream dominated by sand and silt substrate; narrow channel with limited instream habitat complexity.
Mineral River 1	Min 1	River	Large riffle/run river segment with boulder and bedrock substrate; well-developed channel supporting diverse fish habitat.
Mineral River 2	Min 2	River	Riffle/run river segment with bedrock and boulder substrate; coarse-bottom habitat with stable flow conditions.
Perch Creek	Perch	Stream	Riffle/run stream influenced by NPDES Outfall 001A; upper reaches contain organic matter, woody debris, sand, gravel, and boulders, transitioning to clay and silt downstream.
Pine Creek	Pine	Stream	Riffle/run stream with bedrock and boulder substrate; includes undercut banks and well-developed instream cover.
Portal Creek	Portal	Stream	Narrow riffle/run stream system with predominantly low-flow conditions and limited aquatic habitat complexity; evaluated through 16 individual sampling reaches.

Prepared by: NAA2

Checked by: CER2

Table 3-16
Freshwater Mussel Species Observed During Aquatic Surveys
White Pine Copper LLC - Environmental Impact Assessment

Common Name	Scientific Name	Survey Location(s)	Relative Survey Abundance	Habitat Description	Conservation Status
Cylindrical Papershell	*Anodontoides ferussacianus*	Duck Creek 2, Mineral River 2, Perch Creek, Pine Creek	Common in Perch Creek; Low density elsewhere	Fine sediment, clay, sand, and mixed gravel habitats; generally associated with depositional areas within riffle/run systems	Not listed
Giant Floater	*Pyganodon grandis*	Duck Creek 2; Shell observed near Pond 6	Rare	Soft sediment habitats; observed at low density	Not listed
Fingernail Clam	*Sphaerium sp.*	Mineral River 2	Rare	Small soft-sediment depositional areas within predominantly bedrock and boulder substrate	Not identified to species
State- or Federally Listed Mussel Species	Various	None Observed	None	Not observed during surveys	None documented

Prepared by: NAA2
Checked by: CER2

Table 3-17
Terrestrial Habitat Observed in the Project Area
White Pine Copper LLC - Environmental Impact Assessment

Plant Communities	Habitat Type
Wetland	Northern Hardwood Swamp
	Northern Shrub Thicket
	Northern Wet Meadow
	Emergent Marsh
	Submergent Marsh
Upland	Mesic Northern Forest - Early Succession
	Mesic Northern Forest - Mature
	Upland Meadow
Uncategorized	Developed/Unvegetated

Prepared by: MMT
Checked by: NAA2

Table 3-18
Summary of Terrestrial Wildlife Observed in the WPN Study Area
White Pine Copper LLC - Environmental Impact Assessment

Taxon	Species
Amphibians: Frogs and Toads	American Toad
	Gray Treefrog
	Green Frog
	Mink Frog
	Northern Leopard Frog
	Spring Peeper
	Wood Frog
Amphibians: Salamanders	Central Newt
	Spotted Salamander
Reptiles	Common Garter Snake
	Common Snapping Turtle
	Eastern Garter Snake
	Northern Red-bellied Snake
	Northern Ring-neck Snake
	Painted Turtle
Birds	Raptor species
	Songbird species
	Water dependent species
Small Mammals	Big Brown Bat
	Deer Mouse
	Eastern Chipmunk
	Eastern Red Bat
	Hoary Bat
	Least Weasel
	Little Brown Bat
	Masked Shrew
	Meadow Jumping Mouse
	Meadow Vole
	Northern Flying Squirrel
	Northern Short-tailed Shrew
	Red Squirrel
	Silver-haired Bat
	Southern Red-backed Vole
	Star-nosed Mole
	Water Shrew
	Woodland Jumping Mouse
Large Mammals	American black bear
	American marten
	Beaver
	Bobcat
	Coyote
	Eastern cottontail
	Fisher
	Gray wolf
	North American river otter
	Racoon
	Red fox
	Snowshoe hare
	Striped skunk
	White-tailed deer

Prepared by: MMT
Checked by: CER2

Table 3-19
Endangered, Threatened, and Special Concern Species
White Pine Copper LLC - Environmental Impact Assessment

Biological Resource Group	Federal/State Endangered	Federal/State Threatened	State Special Concern	USFS Region 9 Sensitive Species (Ottawa NF)
Aquatic Species Appendix F-1 and F-3	None	None	None	None
Vegetative Species Appendix F-4	None	None	None	None
Wildlife Species Appendix F-5 through F-12	Gray Wolf (Federal)	Common Loon (State) Eastern Whip-Poor-Will (State) Golden-Winged Warbler (State) Least Bittern (State) Little Brown Bat (State) Northern Goshawk (State) Peregrine Falcon (State) Spruce Grouse (State)	American Bittern Grasshopper Sparrow Gray Wolf Mink Frog Northern Flying Squirrel Northern Harrier Osprey Trumpeter Swan Wood Thrush	American Marten Northern Goshawk Peregrine Falcon Spruce Grouse Trumpeter Swan

Prepared by: KRM2
Checked by: MMT

Notes:

Region 9 Sensitive Species are based on the current U.S. Forest Service Ottawa National Forest Sensitive Species List. Species designated as sensitive in other National Forests within the USFS Eastern Region (Region 9) are not included.

Table 3-20
Invasive Plants
White Pine Copper LLC - Environmental Impact Assessment

Species	Scientific Name	Source
Bitter dock	*Rumex obtusifolius*	MISIN
Birdfoot trefoil	*Lotus corniculatus*	MISIN
Bittersweet nightside	*Solanum dulcamara*	MISIN
Black medick	*Medicago lupulina*	MISIN
Bouncing bet	*Saponaria officinalis*	MISIN
Brittlestem hempnettle	*Galeopsis tetrahit*	MISIN
Broadleaf helleborine	*Epipactis helleborine*	MISIN
Butter and eggs	*Linaria vulgaris*	MISIN
Canada bluegrass	*Poa compressa*	MISIN
Canada thistle	*Cirsium arvense*	MDNR; MISIN
Common burdock	*Arctium minus*	MISIN
Common buttercup	*Ranunculus acris*	MISIN
Common goat's beard	*Tragopogon pratensis*	MISIN
Common St. Johns-wort	*Hypericum perforatum*	MISIN
Curly dock	*Rumex crispus*	MISIN
Deptford pink	*Dianthus armeria*	MISIN
English plantain	*Plantago lanceolata*	MISIN
Garden yellowrocket	*Barbarea vulgaris*	MISIN
Hairy vetch	*Vicia villosa*	MISIN
Hybrid cattail	*Typha × glauca*	MDNR; MISIN
Japanese barberry	*Berberis thunbergii*	MDNR; MISIN
Kentucky bluegrass	*Poa pratensis*	MISIN
tall hawkweed	*Hieracium piloselloides*	MISIN
Lady's thumb	*Persicaria maculosa*	MISIN
Lambsquarters	*Chenopodium album*	MISIN
Orchardgrass	*Dactylis glomerata*	MISIN
Ox-eye daisy	*Leucanthemum vulgare*	MISIN
Nipplewort	*Lapsana communis*	MISIN
Quackgrass	*Elymus repens*	MISIN
Queen Anne's Lace	*Daucus carota*	MDNR; MISIN
Rabbitfoot clover	*Trifolium arvense*	MISIN
Reed canarygrass	*Phalaris arundinacea*	MDNR; MISIN
Red clover	*Trifolium pratense*	MISIN
Redtop	*Agrostis gigantea*	MISIN
Roughed-fruited cinquefoil	*Potentilla recta*	MISIN
Rush	*Juncus compressus*	MISIN
Smooth brome	*Bromus inermis*	MISIN
Spotted knapweed	*Centaurea stoebe*	MDNR; MISIN
Tall fescue	*Schedonorus arundinaceus*	MISIN
Tartarian honeysuckle	*Lonicera tatarica*	MDNR; MISIN
Timothy	*Phleum pratense*	MISIN
White sweet clover	*Melilotus albus*	MISIN
Yellowrocket	*Barbarea vulgaris*	MISIN
Yellow sweet clover	*Melilotus officinalis*	MISIN

Notes:

1. MDNR invasive species list
Invasive Species: Plants
2. MISIN invasive species list
Report an Observation — MISIN

Prepared by: KRM2
Checked by: CER2

Table 3-21
Cultural Site Survey Results
White Pine Copper LLC - Environmental Impact Assessment

Site No.	Site Name	Site Type	Location Relative to Project Area	Recommendation	Comment
20ON288	Superior Mine	Historic mining site	Within 1.6 km (1 mile) of Project Area	Informational	Previously recorded site located outside Project Area
20ON430	Republic Mining Company Site	Historic mining site	Partially extends into APE/Project Area	No additional investigation recommended	Previously recorded site; limited overlap with Project Area
20ON292	White Pine Ball Mill Site	Historic mining site	Within 1.6 km (1 mile) of Project Area	Informational	Previously recorded site located outside Project Area
Not applicable	2024 Phase I Archaeological Survey	Pedestrian survey and 103 shovel tests	Project Area	No additional investigation recommended	No archaeological resources identified
Not applicable	National Register of Historic Places (NRHP) Resources	Not applicable	Project Area	Not applicable	No NRHP-listed or NRHP-eligible resources identified
Not applicable	Cemeteries	Not applicable	Project Area	Not applicable	No known cemeteries identified

Notes:

Prepared by: NAA2

Checked by: KRM2

1. Site information summarized from Appendix G, Phase I Archaeological Investigations for the White Pine Copper North Project.
2. Three previously recorded historic mining-related archaeological sites have been documented within 1.6 km (1 mile) of the Project Area.
3. A small portion of site 20ON430 extends into the Area of Potential Effects (APE), which corresponds to the Project Area.
4. The 2024 Phase I archaeological investigation included records review, tribal engagement, pedestrian survey, and excavation of 103 shovel test pits.
5. No archaeological resources were identified during the Phase I investigation.

Table 3-22
Monthly Summary of Meteorological Data
White Pine Copper LLC - Environmental Impact Assessment

	Total Monthly Precipitation[1]			Rainfall + Snowmelt[1]			Snowfall[1]			Acummulated Snow/Ice[1]			Average Monthly Temperature[4]			Wind Direction, Compass Rose[5]			
	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max				
Month	inches			inches			inches			inches			°F			Prevailing Direction	Prevailing %	Secondary Direction	Secondary %
January	0.6	2.3	4.0	0.0	0.0	0.0	0.6	2.3	4.0	0.6	2.3	4.0	4.5	11.8	24.2	SW	24%	WSW	17%
February	0.6	2.2	3.8	0.0	0.0	0.0	0.6	2.2	3.8	1.2	4.5	7.8	-5.3	14.3	29.6	SW	27%	WSW	10%
2-Mar	0.4	1.4	2.5	0.0	0.0	0.0	0.4	1.4	2.5	1.6	5.9	10.3	-0.3	25.2	41.2	SW	24%	NE	9%
3-Apr	0.6	2.1	3.7	1.2	4.5	7.8	0.0	0.0	0.0	1.0	3.5	6.2	14.3	39.5	50.4	SW	21%	NE	12%
May	0.8	2.8	4.9	1.8	6.3	11.1	0.0	0.0	0.0	0.0	0.0	0.0	28.8	52.4	62.0	SW	22%	NE	16%
June	1.0	3.7	6.4	1.0	3.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0	42.2	61.9	69.0	SW	28%	SSW	12%
July	1.1	3.8	6.7	1.1	3.8	6.7	0.0	0.0	0.0	0.0	0.0	0.0	54.4	66.8	73.8	SW	37%	NNE	9%
August	0.9	3.3	5.8	0.9	3.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	58.5	64.5	73.4	SW	32%	SSW	11%
September	0.9	3.2	5.6	0.9	3.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0	56.5	56.5	63.4	SW	35%	SSW	12%
October	1.0	3.6	6.2	1.0	3.6	6.2	0.0	0.0	0.0	0.0	0.0	0.0	48.5	45.2	56.9	SW	28%	SSW	11%
November	0.8	3.0	5.3	0.8	3.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	33.8	30.3	40.9	SW	22%	WSW	11%
December	0.8	2.8	5.0	0.8	2.8	5.0	0.0	0.0	0.0	0.0	0.0	0.0	19.0	17.4	28.9	SW	27%	WSW	14%
Annual	**9.6**	**34.3**	**60.0**	**9.6**	**34.3**	**60.0**	**1.6**	**5.9**	**10.3**	**NA**	**NA**	**NA**	**35.2**	**40.4**	**46.3**	**SW**	**27%**	**SSW**	**9%**

Notes:

Prepared by: NAA2

Checked by: CER2

[1] Water equivalents over 1000 GoldSim simulations

[2] Rainfall + 40% Snowmelt for Rainfall + Snowmelt

[3] Rainfall + 60% Snowmelt for Rainfall + Snowmelt

[4] Historic data for Ironwood, MI 1902 - 2024

[5] WPN MET Station data. N = north, S = south, E = east, and W = west

Table 3-23
Baseline and Predicted Light Conditions
White Pine Copper LLC - Environmental Impact Assessment

Location/Metric	Result
Baseline light trespass	< 0.01 lux
Baseline environmental zone	E1 (most receptors), E2 (White Pine)
Predicted light trespass	< 0.01 lux
Predicted maximum glare	0 cd
Predicted upward light ratio	0
Compliance with CIE guidelines	Yes

Prepared by: NAA2

Checked by: CER2

Table 3-24
Baseline Noise Data
White Pine Copper LLC - Environmental Impact Assessment

Location	Daytime Leq	Nighttime Leq	Daytime L10	Nighttime L10	Daytime L50	Nighttime L50	Daytime L90	Nighttime L90
ML-1	48	39	52	39	43	30	36	26
ML-2	47	43	53	46	45	37	37	33
ML-3	47	45	50	48	45	44	41	43
ML-4	44	38	45	38	39	28	32	25

Notes:

1. Daytime (7:00 a.m. to 10:00 p.m.)
2. Nighttime (10:00 p.m. to 7:00 a.m.)
3. All sound level measurements reported in decibels (dba)

Prepared by: NAA2
Checked by: CER2

Table 3-25
Summary of Predicted Leq Sound Levels
White Pine Copper LLC - Environmental Impact Assessment

Scenario	Maximum Predicted Sound Level	Design Goal	Meets Goal
Construction (Daytime)	53 dBA	70 dBA	Yes
Operations (Daytime)	46 dBA	55 dBA	Yes
Operations (Nighttime)	45 dBA	45 dBA	Yes

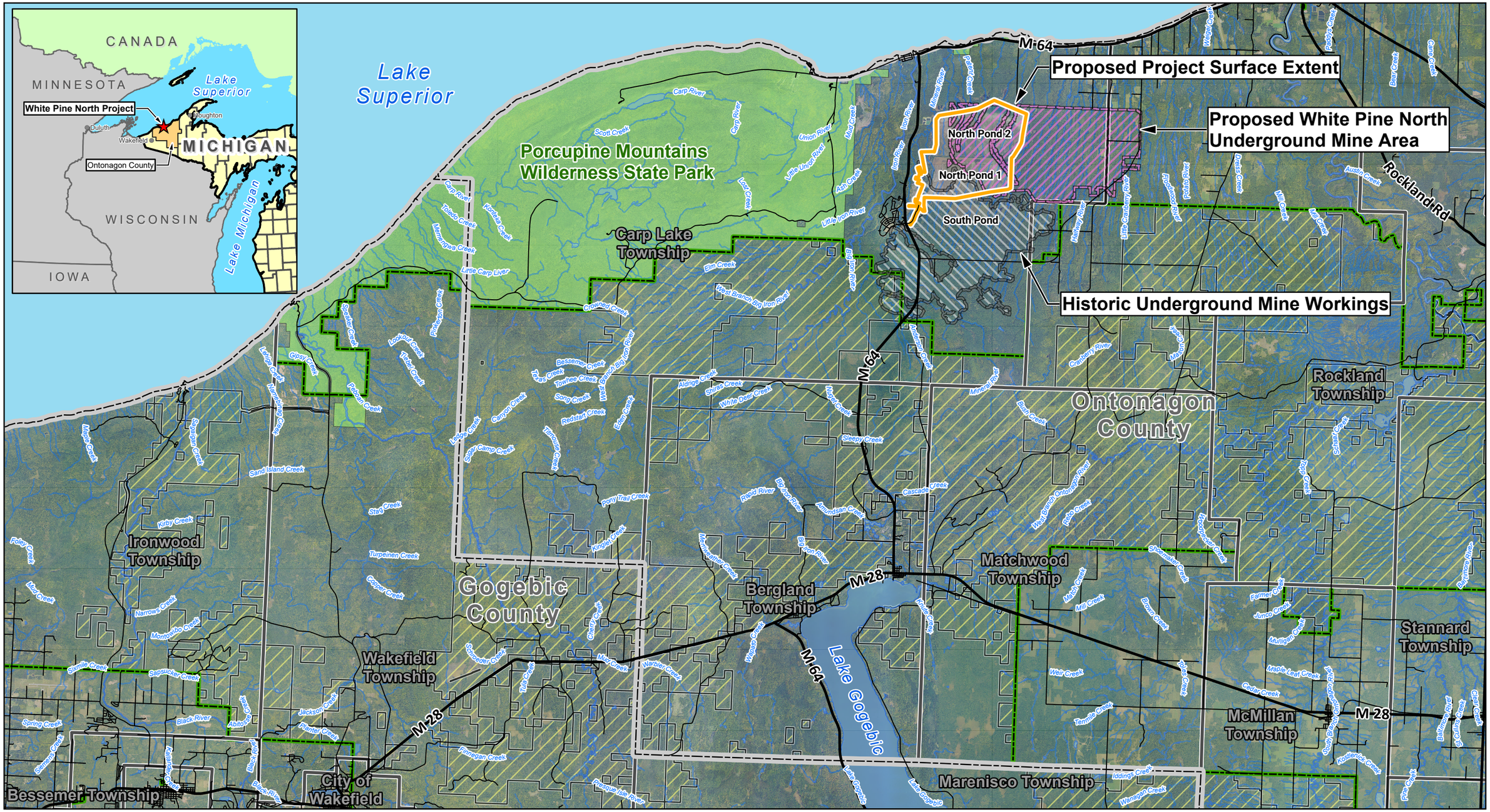
Notes:

Prepared by: KRM2

Checked by: NAA2

1. Construction not anticipated to occur during nighttime.
2. Recommended noise design goal for daytime construction is 70 dBA.
3. Recommended noise design for daytime and nighttime activities is 55 dBA and 45 dBA.

Figures



NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.

LEGEND

- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area
- Historic Underground Mine Workings
- Municipal Boundary
- County Boundary
- Ottawa National Forest Boundary
- Porcupine Mountains Wilderness State Park
- USDA Forest Service Owned Property

WHITE PINE COPPER

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PREPARED BY:	DAT	DATE:	AUG. '26
REVIEWED BY:	NAA2	DATE:	AUG. '26
APPROVED BY:	CER2	DATE:	AUG. '26

WHITE PINE COPPER LLC

FIGURE 1-1
PROJECT LOCATION MAP
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

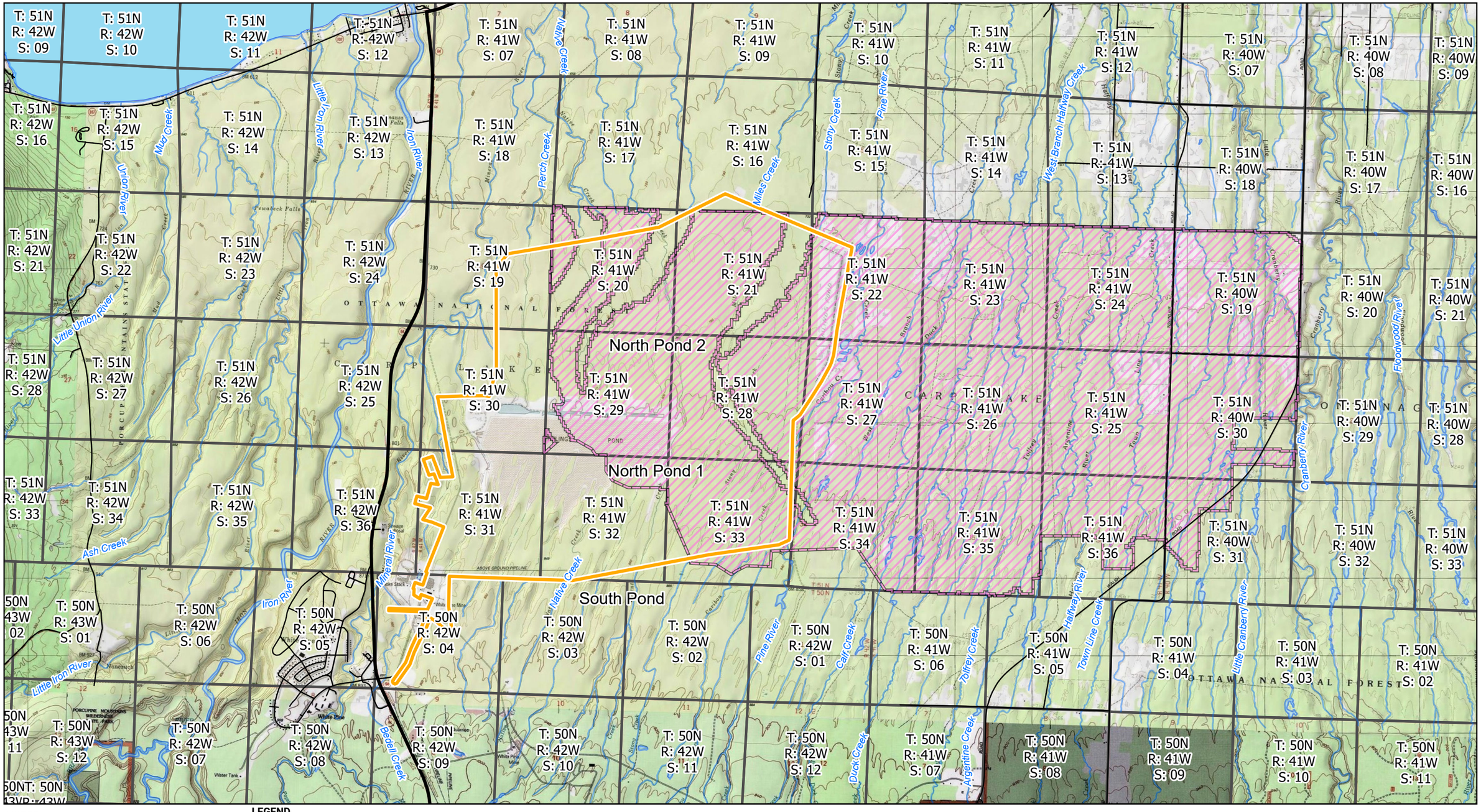
Scale: 0 1.5 3 Miles

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. Topographic basemap from Esri and its data suppliers.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Topographic and PLSS data from Quantum Spatial, 2014.

LEGEND

- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- PLSS Section Boundary
- Proposed White Pine North Underground Mine Area
- Proposed Project Surface Extent

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APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 2-1

PROJECT LOCATION IN PUBLIC LAND SURVEY SYSTEM
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 2,000 4,000 Feet

Date: JUNE 2026

Drafted By: DAT

Project: 25W006

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Refer to EIA Table 3-12 for property ownership information

See Inset

Inset

M-64

Little Iron River

Iron River

Native Creek

Patent Creek

Miles Creek

Stony Creek

Pine River

Duck Creek

Halfway River

Town Line Creek

Little Cranberry River

Cranberry River

Floodwood River

Pedal Creek

Polyfoot Creek

Mineral River

Caribou Creek

Pine River

Calf Creek

West Branch Duck Creek

Argentine Creek

Halfway River

Little Cranberry River

Cranberry River

Mineral River

NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Parcel data from Ontonagon County GIS

LEGEND

- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area
- Major Road
- Minor Road
- River/Stream

Surface Ownership

- Private
- County
- Township of Carp Lake
- Village of Ontonagon
- White Pine Copper LLC

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APPROVED BY:	CER2		DATE:	AUG. '26

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FIGURE 2-2

SURFACE OWNERSHIP
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

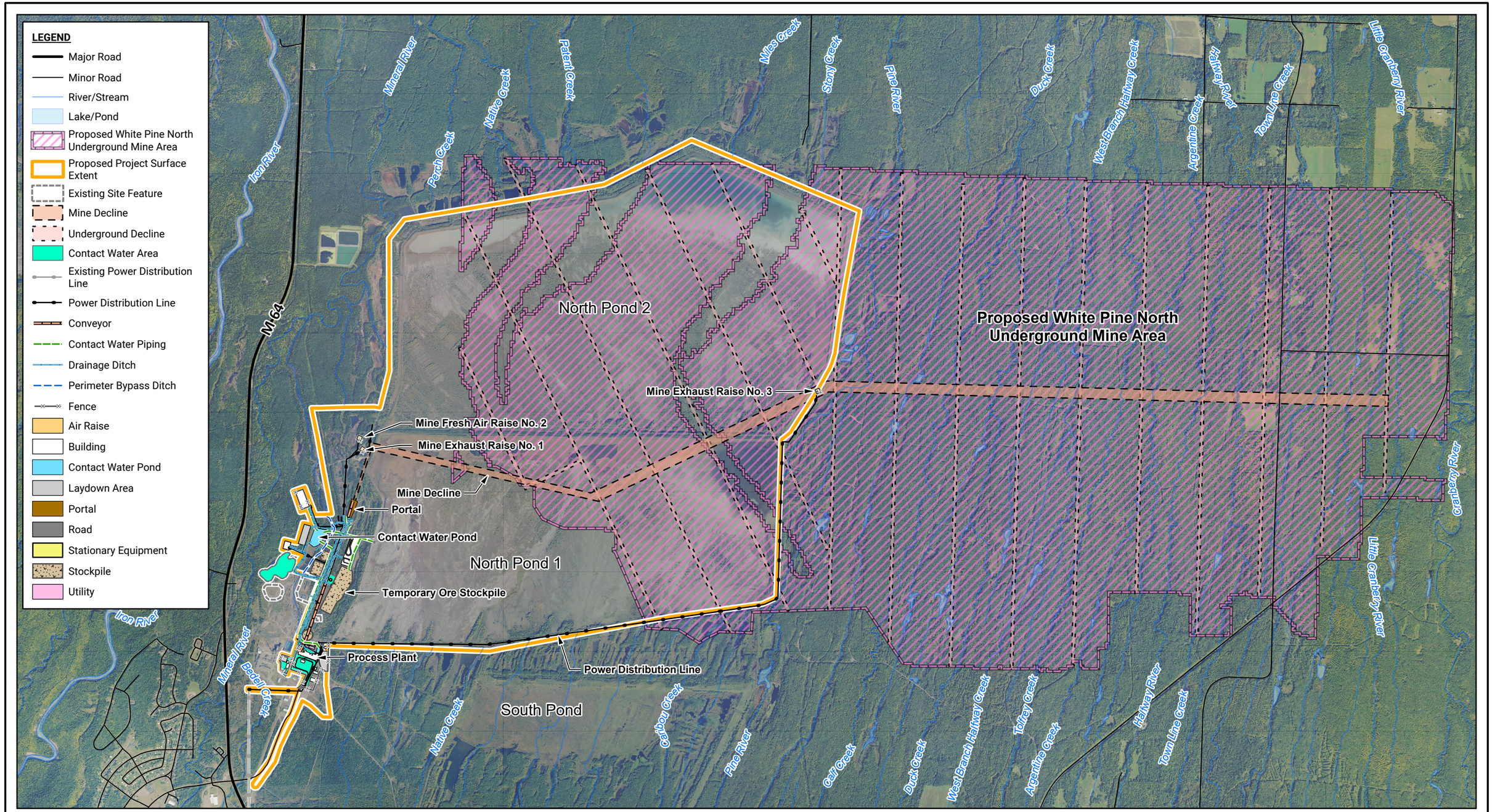
Scale: 0 2,000 4,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Site layout and infrastructure data from Ausenco, March 2026.

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APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 2-3
SURFACE FACILITY PLAN
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

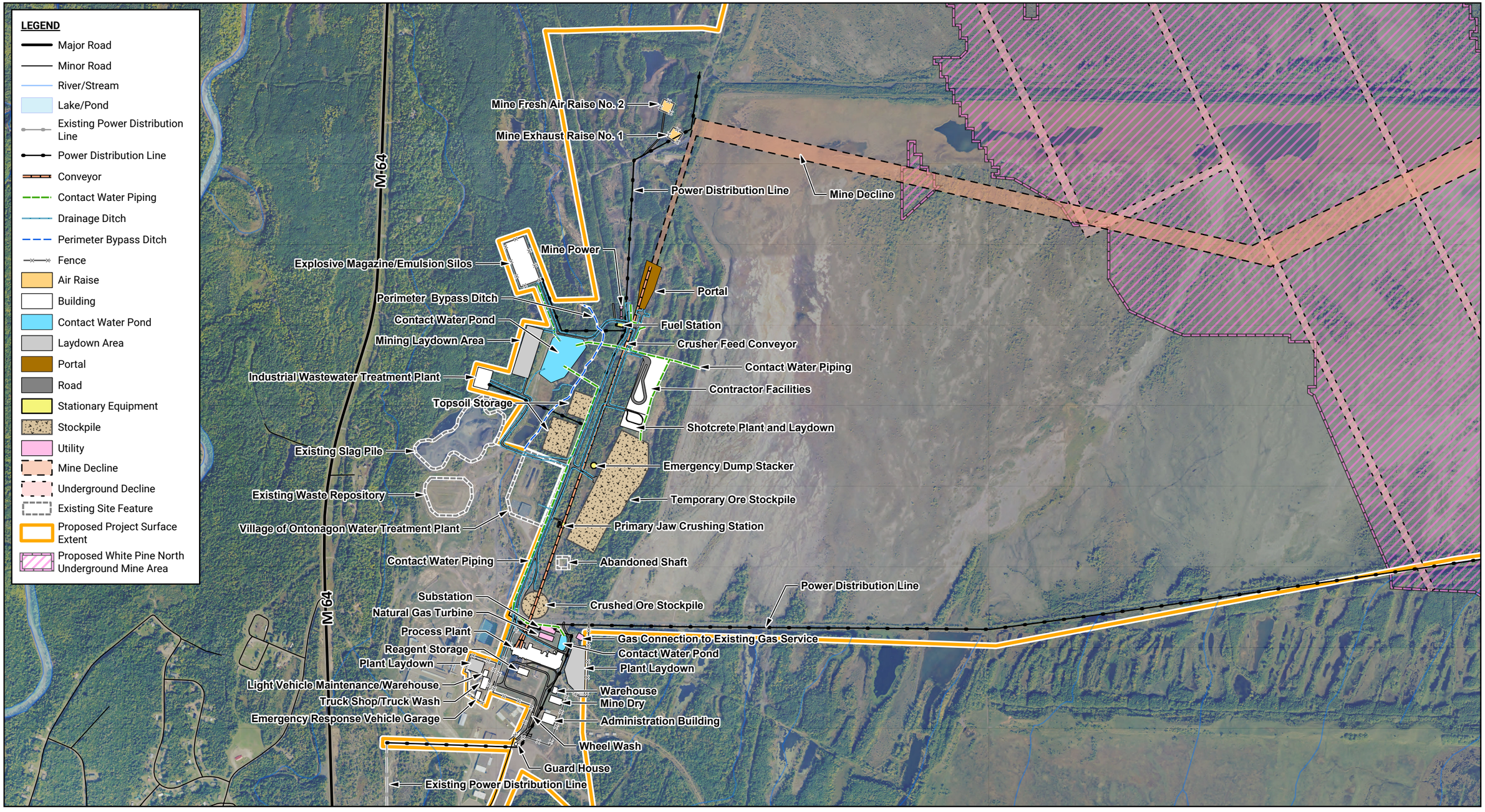
Scale: 0 1,500 3,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Site layout and infrastructure data from Ausenco, March 2026.

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FIGURE 2-4
DETAILED SURFACE FACILITY LAYOUT
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

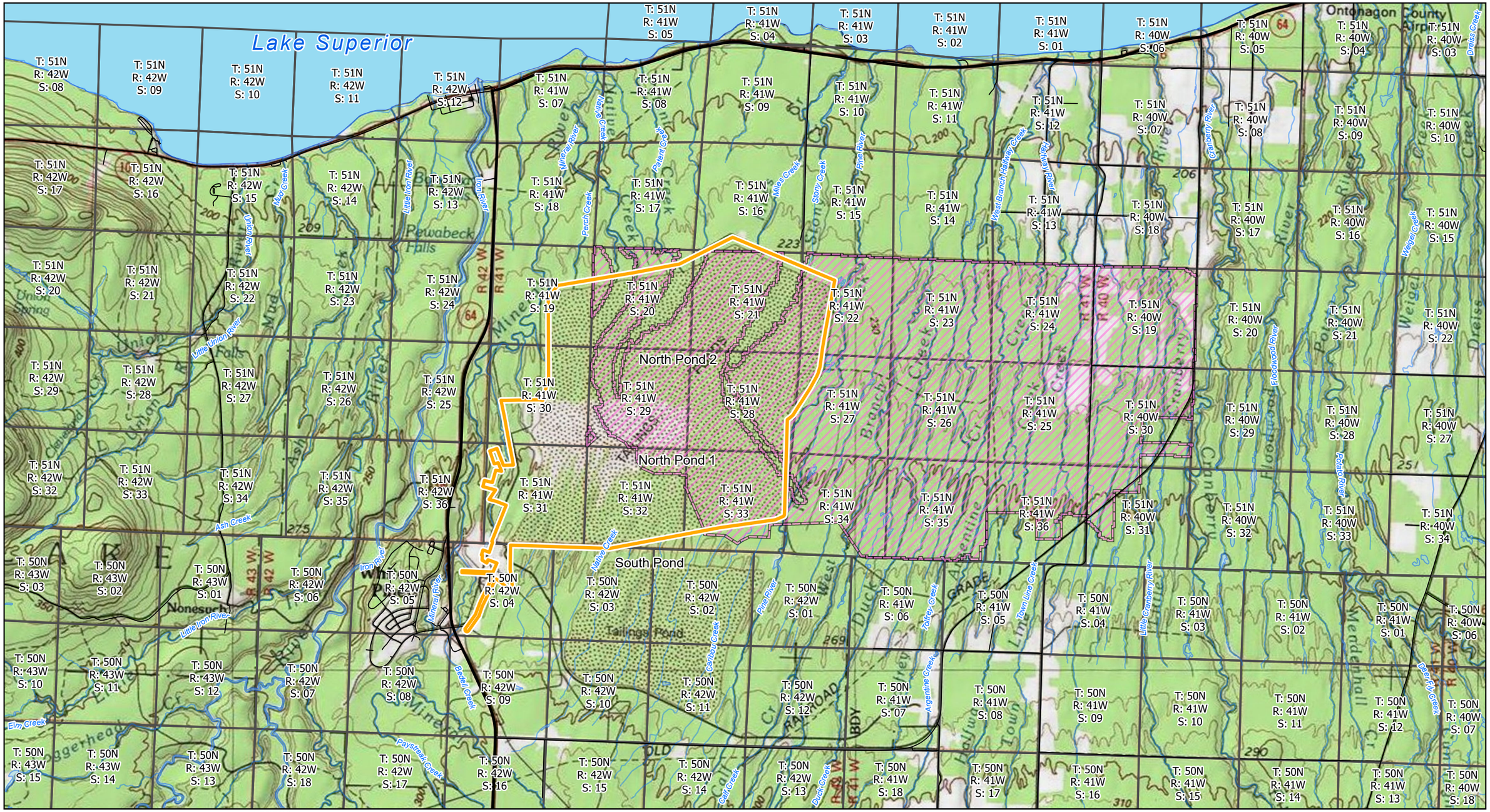
Scale: 0 600 1,200 Feet

Date: JUNE 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Topographic and planimetric data from Quantum Spatial, 2014.

LEGEND

- River/Stream
- Lake/Pond
- Proposed Project Surface Extent

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APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-1
EXISTING TOPOGRAPHIC CONDITIONS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

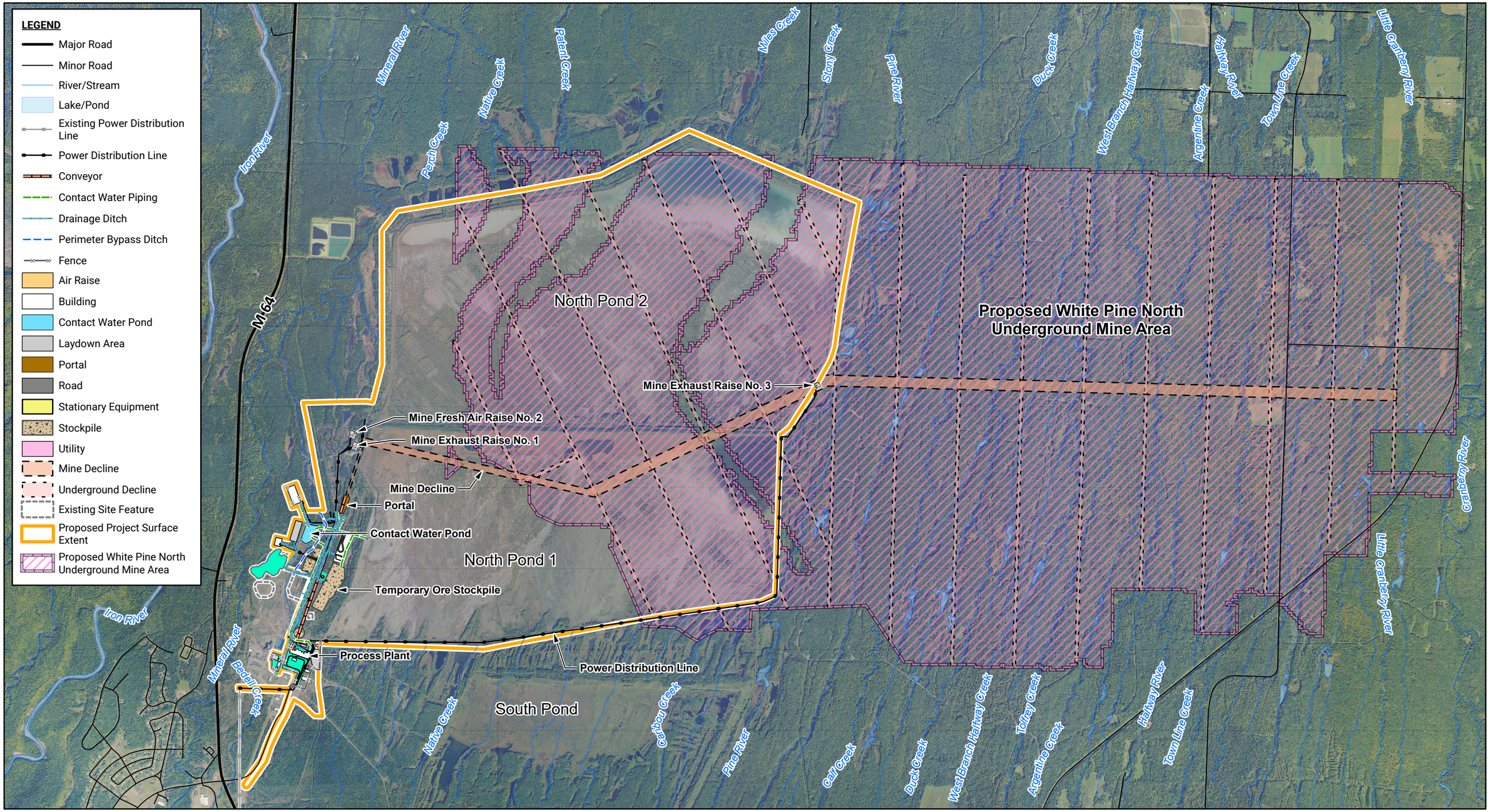
Scale: 0 2,500 5,000 Feet

Date: JULY 2026

Drafted By: NEE

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Site layout and infrastructure data from Ausenco, March 2026.

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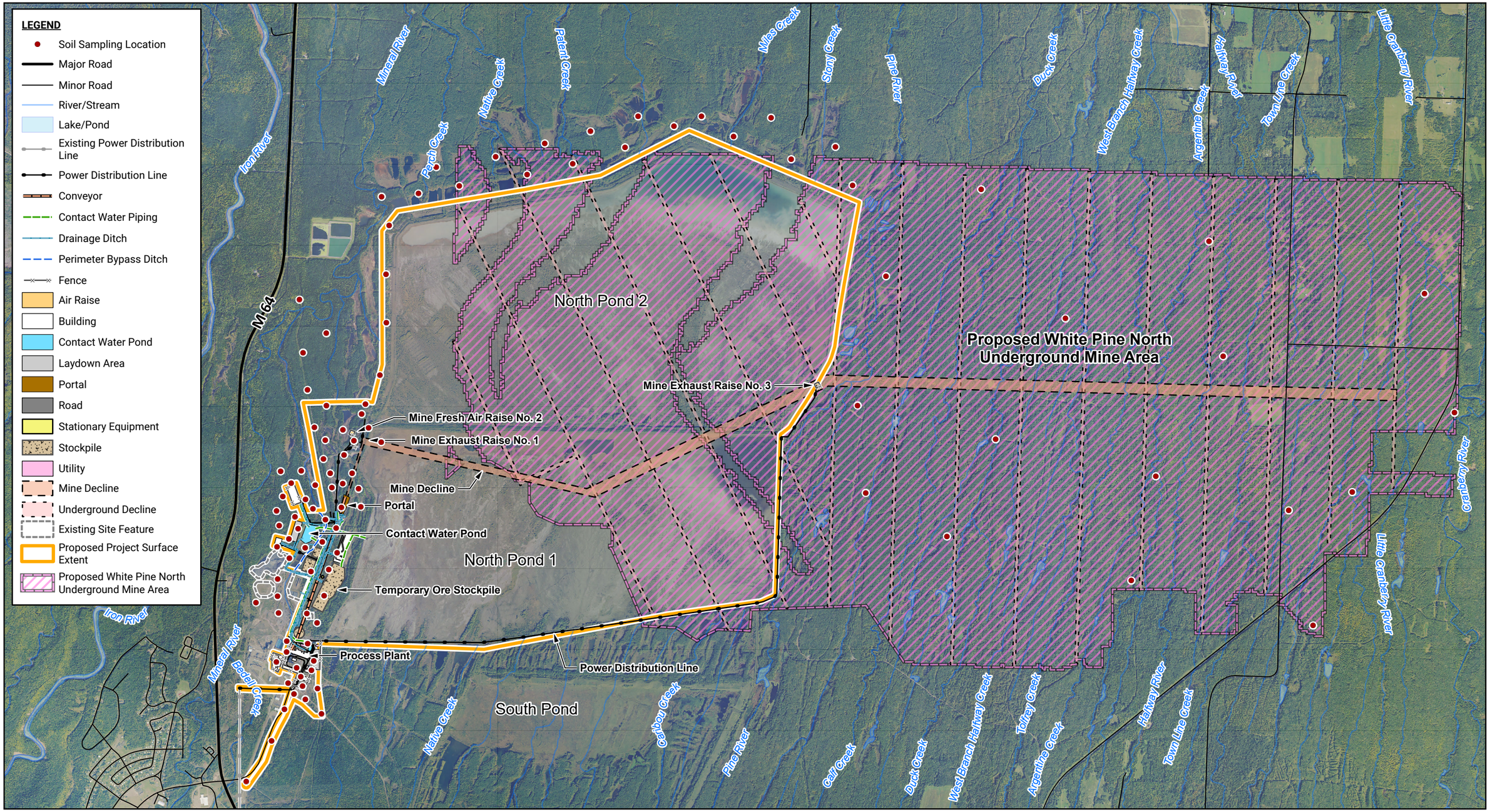
FIGURE 3-2
FACILITY PLAN WITH CONTOURS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 1,500 3,000 Feet		Date:	MAY 2026
Drafted By:	BJW1	Project:	25W006

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LEGEND

- Soil Sampling Location
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Existing Power Distribution Line
- Power Distribution Line
- Conveyor
- Contact Water Piping
- Drainage Ditch
- Perimeter Bypass Ditch
- Fence
- Air Raise
- Building
- Contact Water Pond
- Laydown Area
- Portal
- Road
- Stationary Equipment
- Stockpile
- Utility
- Mine Decline
- Underground Decline
- Existing Site Feature
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area



NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Site layout and infrastructure data from Ausenco, March 2026.

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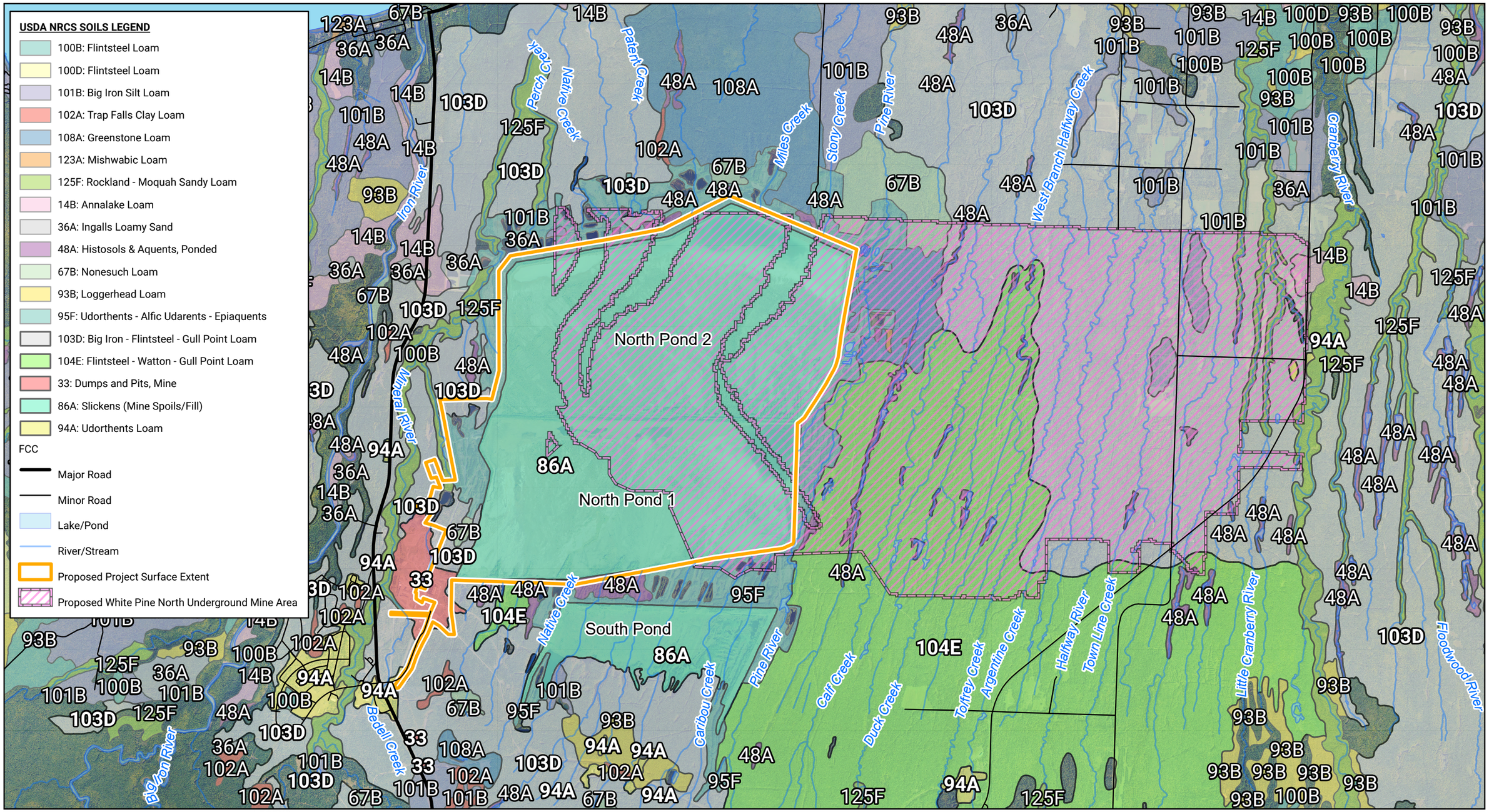
PREPARED BY:	DAT	DATE:	AUG. '26
REVIEWED BY:	NAA2	DATE:	AUG. '26
APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-3
SURFICIAL SOIL SAMPLING LOCATIONS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 1,500 3,000 Feet		Date:	JUNE 2026
Drafted By:	DAT	Project:	25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Soils data from USDA NRCS.

LEGEND

- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area

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APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-4
SOILS MAP
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

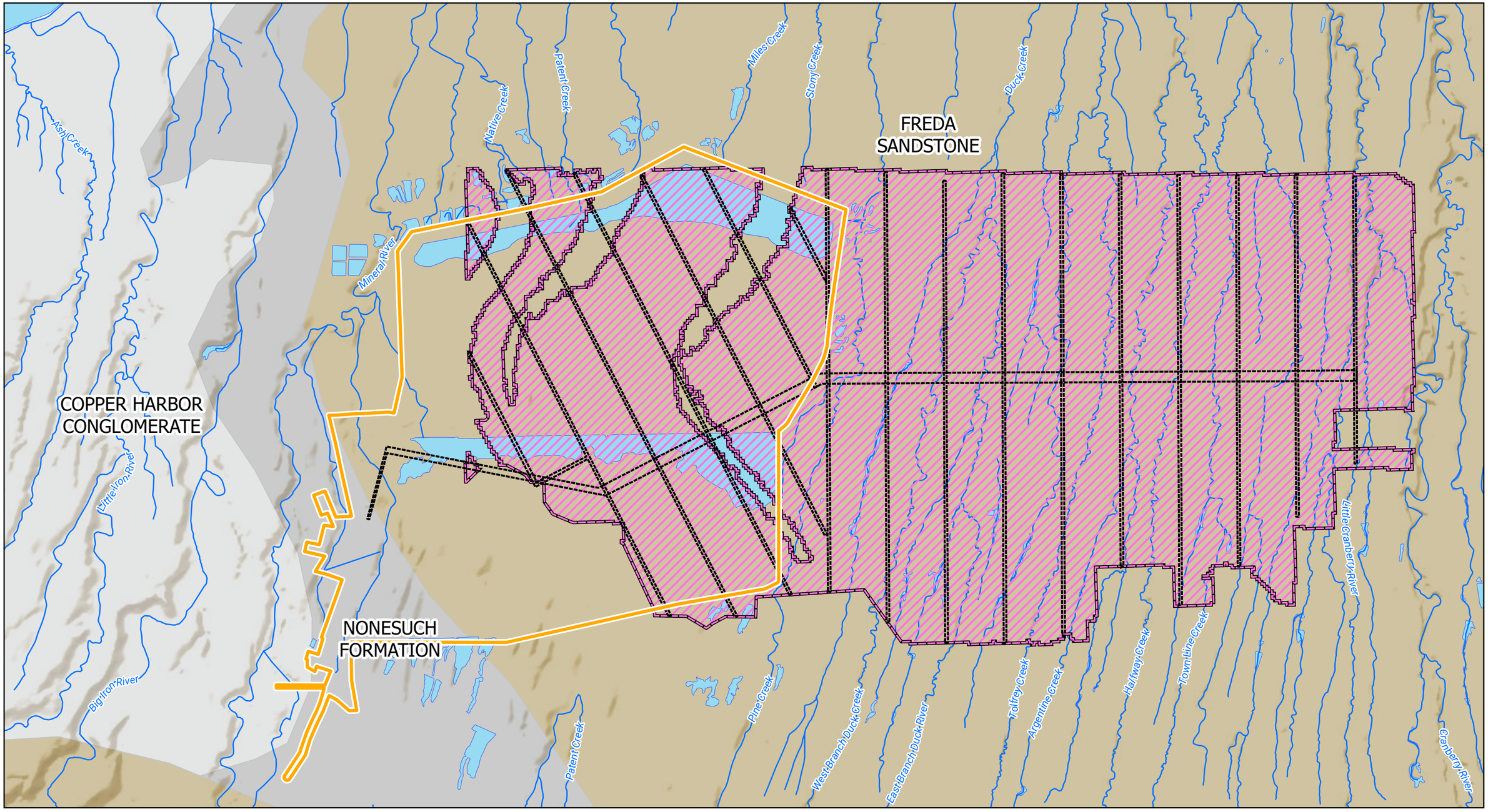
Scale: 0 2,000 4,000 Feet

Date: MAY 2026

Drafted By: BJW1

Project: 25W006

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NOTES:

1. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
2. Hydrographic data from Michigan GIS Open Data.
3. Bedrock geologic data from EGLE, March 2026.

LEGEND

- River/Stream
- Proposed Underground Mine Development
- Proposed White Pine North Underground Mine Area
- Proposed Project Surface Extent
- Lake/Pond
- COPPER HARBOR CONGLOMERATE
- FREDA SANDSTONE
- NONESUCH FORMATION

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REVIEWED BY:	NAA2	DATE: AUG. '26
APPROVED BY:	CER2	DATE: AUG. '26

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FIGURE 3-5
REGIONAL BEDROCK GEOLOGY
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

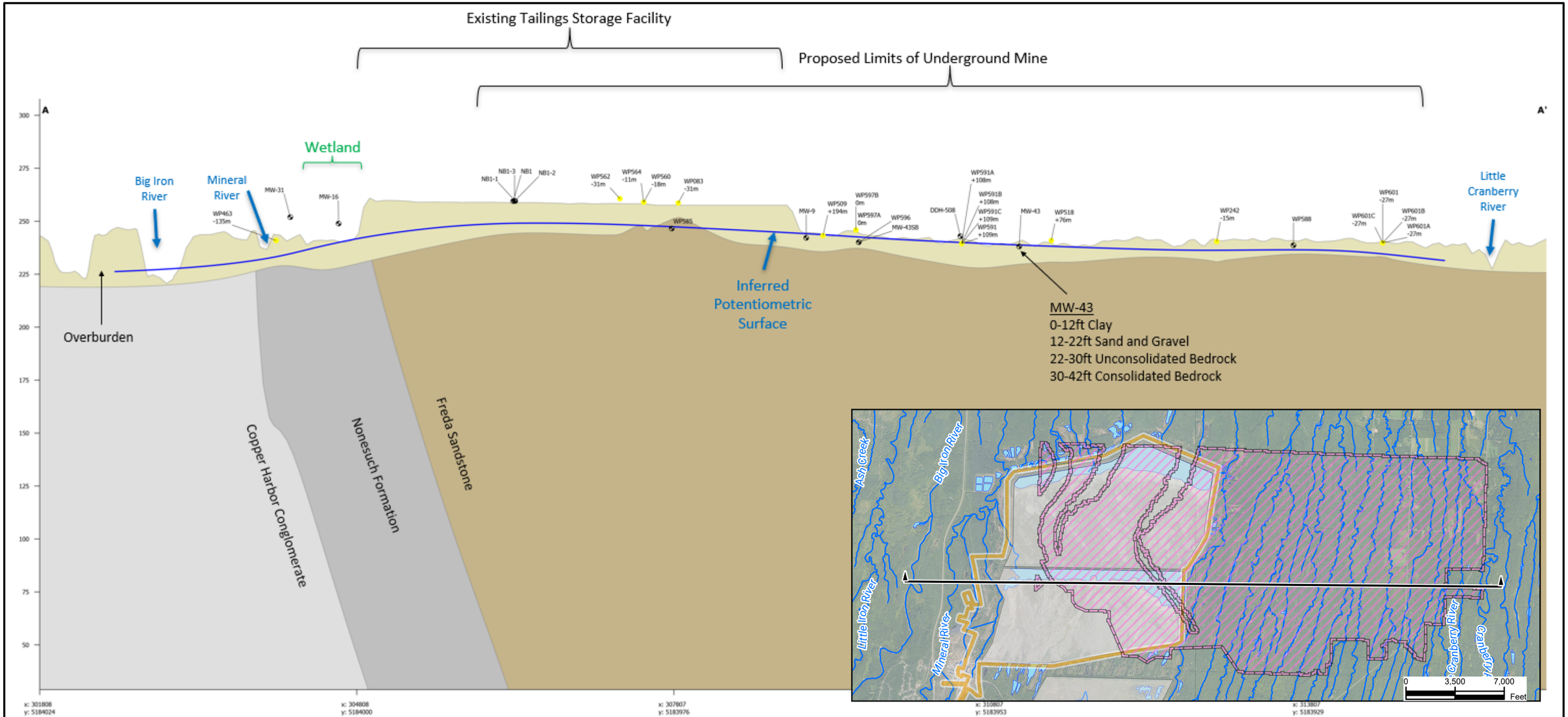
Scale: 0 2,500 5,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
2. Hydrographic data from Michigan GIS Open Data.
3. All Units in Meters and Vertical Exaggeration of 20x
4. Inferred Potentiometric surface generated from WPC GW water depths on latest date measured, where it exists
5. Wetlands located using Barr Engineering- 2024 Wetland Delineation and Characterization Report
6. Exploration boreholes limited to 200m of section line.

LEGEND

- Cross Section Locations
- Lake/Pond
- River/Stream
- Existing Tailing Storage Facilities
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area

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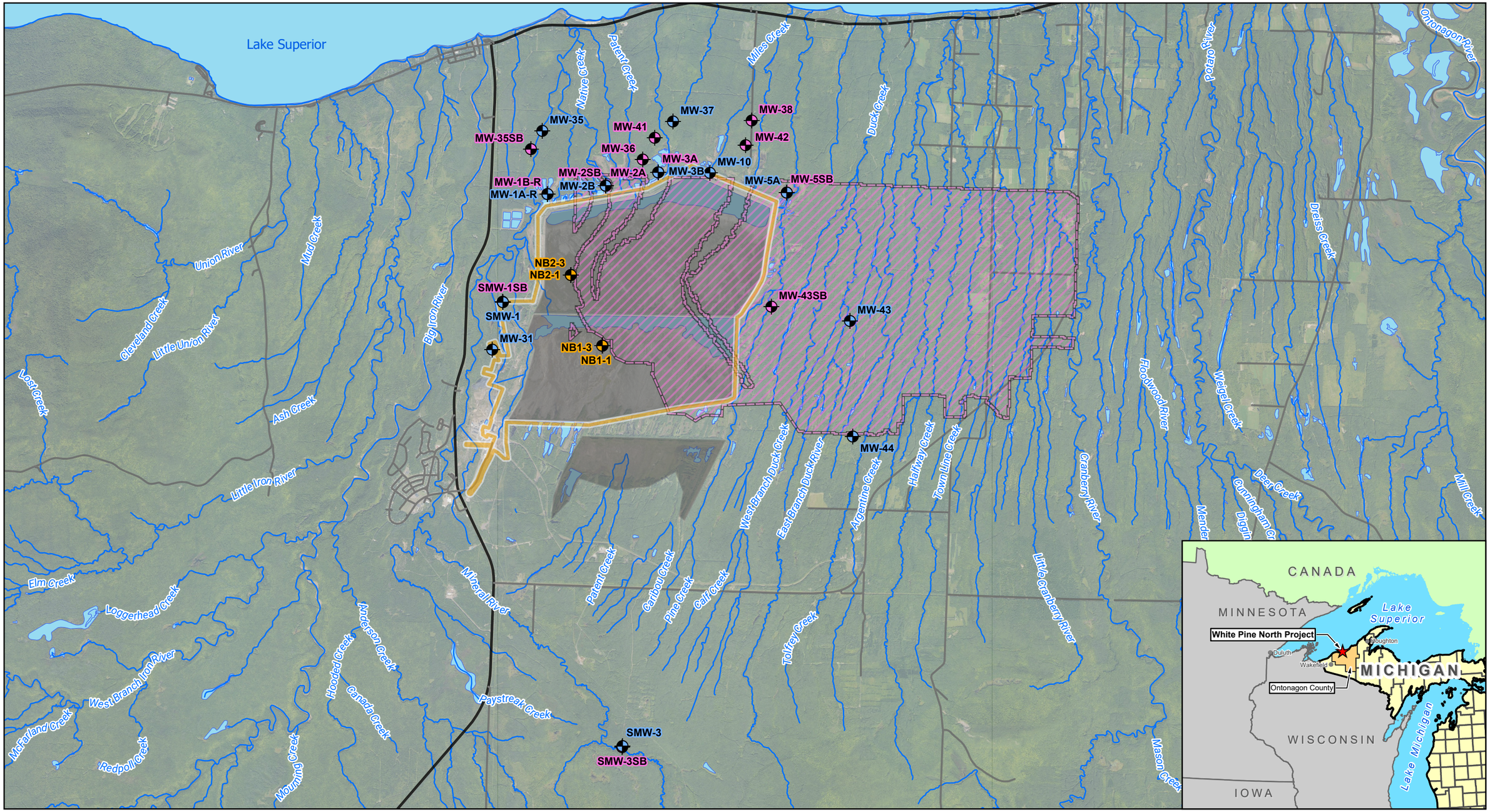
PREPARED BY:	DAT	DATE:	AUG. '26
REVIEWED BY:	NAA2	DATE:	AUG. '26
APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-6
CONCEPTUAL GEOLOGIC CROSS-SECTION
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale:	AS SHOWN	Date:	JULY 2026
Drafted By:	DAT	Project:	25W006

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NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.
4. Identification of exploration boreholes and monitoring wells is provided in the Baseline Groundwater and Surface Water Report (Foth, 2026).

LEGEND

Lithological Unit

- Groundwater Monitoring Well in Shallow Bedrock
- Groundwater Monitoring Well in Tailings
- Groundwater Monitoring Well in Unconsolidated Deposits
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Proposed White Pine North Underground Mine Area
- Proposed Project Surface Extent

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REVIEWED BY:	NAA2	DATE:	AUG. '26
APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-7

BASELINE GROUNDWATER MONITORING WELL LOCATIONS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

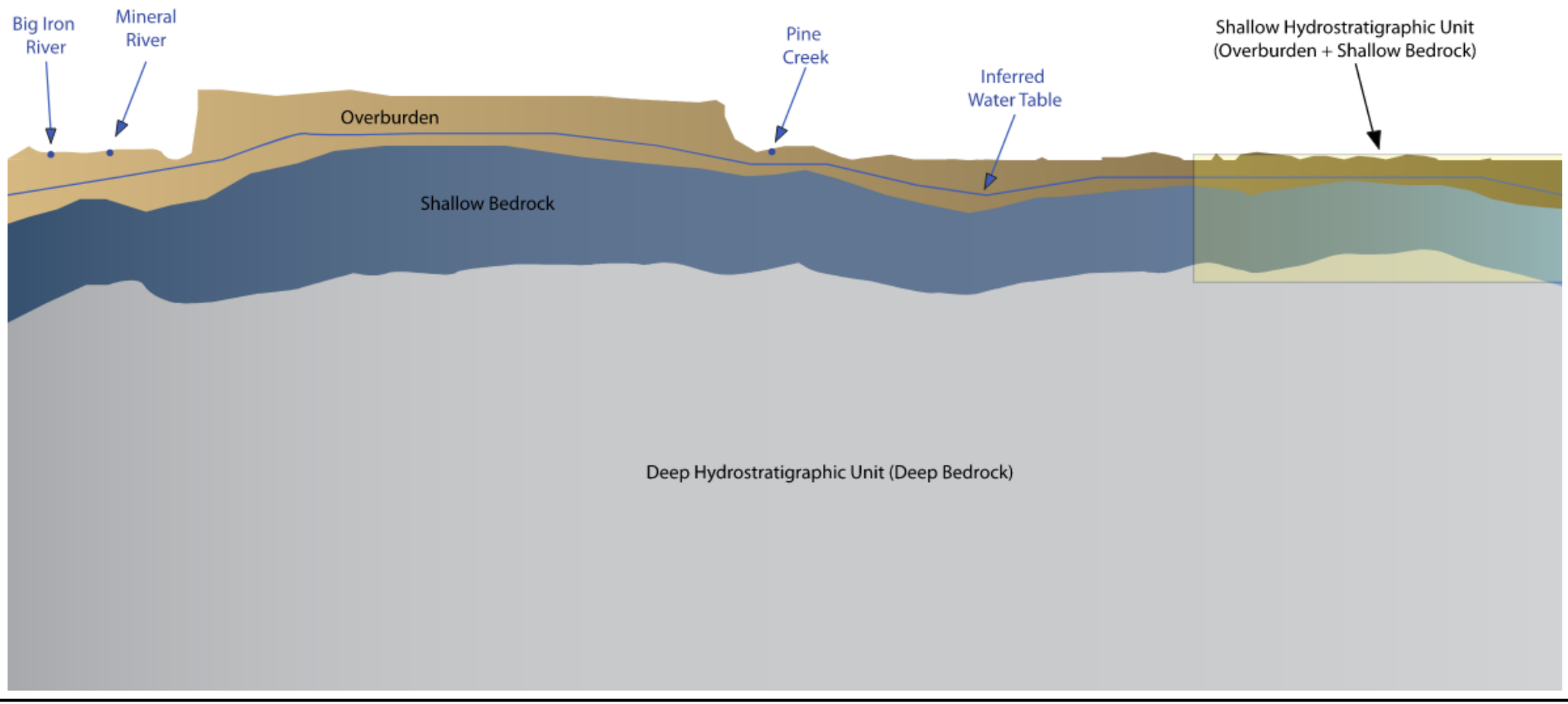
Scale: 0 3,000 6,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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APPROVED BY:	CER2			DATE:	AUG. '26

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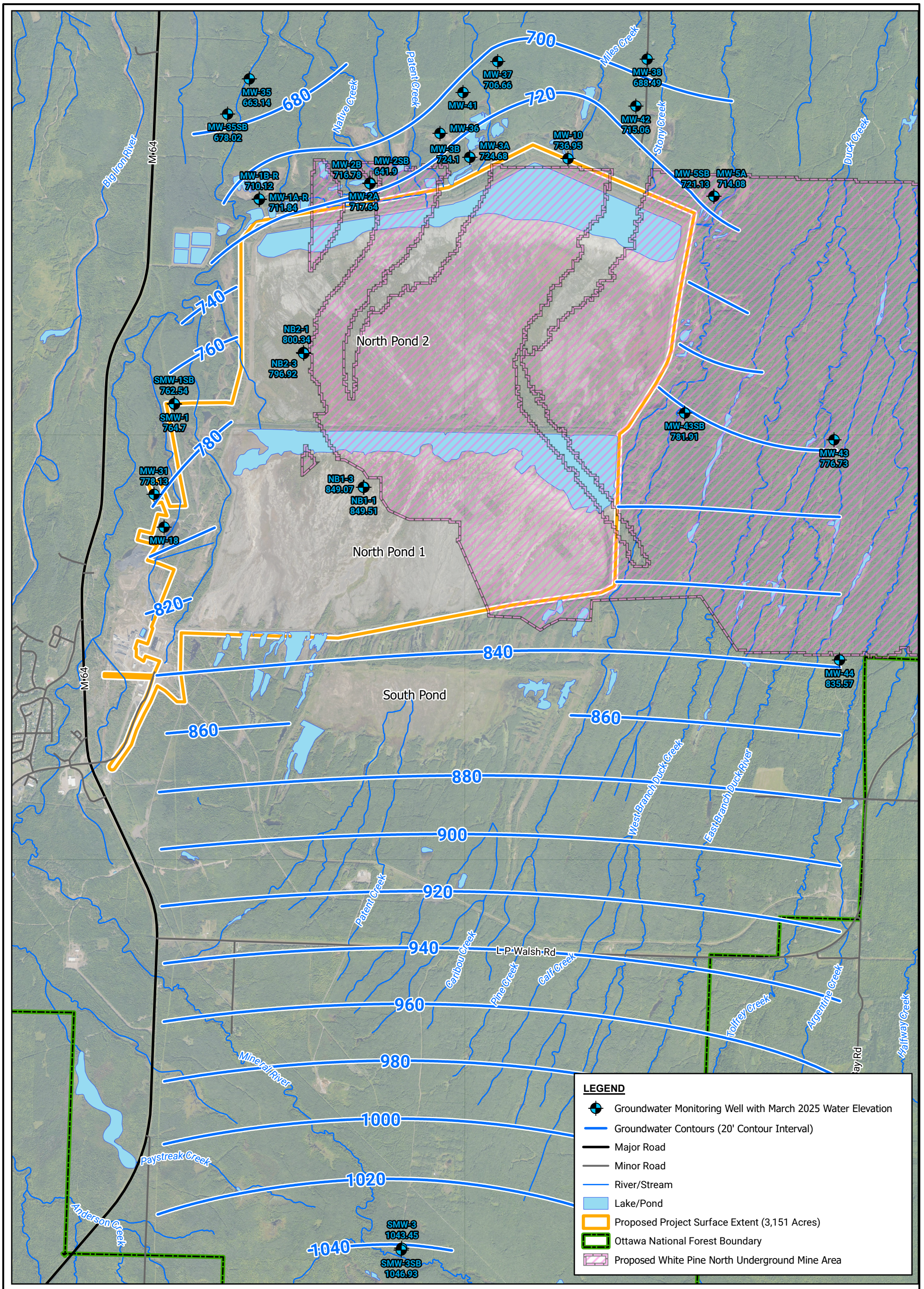
FIGURE 3-8
CONCEPTUAL HYDROSTRATIGRAPHY
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 3,000 6,000 Feet

Date: JULY 2026

Drafted By: NEE

Project: 25W006



NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.
5. Site layout and infrastructure is based on 2019 White Pine North Copper Project PEA.
6. Groundwater elevations calculated by converting elevation data from site datum to NAVD 1988.
7. Groundwater level in MW-2SB has not recovered to static conditions.

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REVIEWED BY:	NAA2	DATE:	AUG. '26
APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-9
GROUNDWATER ELEVATION CONTOURS - SHALLOW HYDROSTRATIGRAPHIC UNIT
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

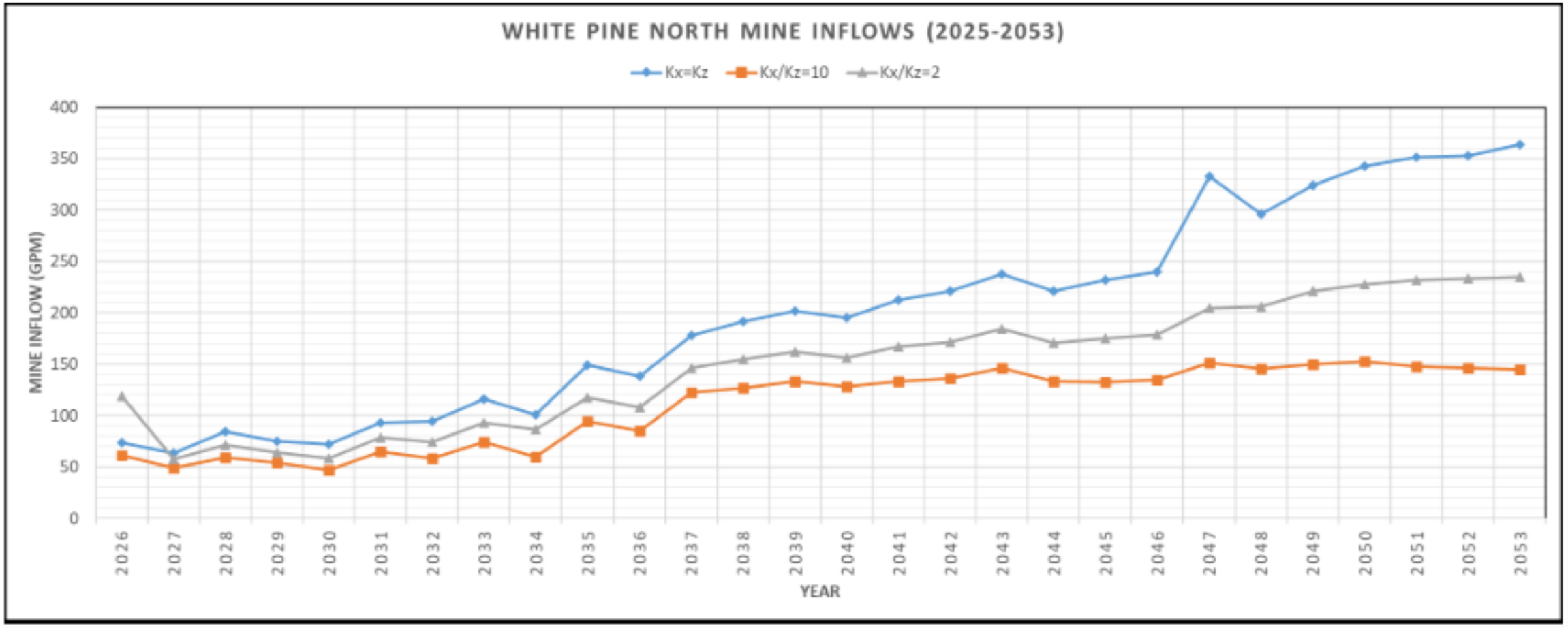
Scale: 0 1,500 3,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. Graph from Groundwater Modeling Pre-Feasibility Study Report created by Tetra Tech Inc.

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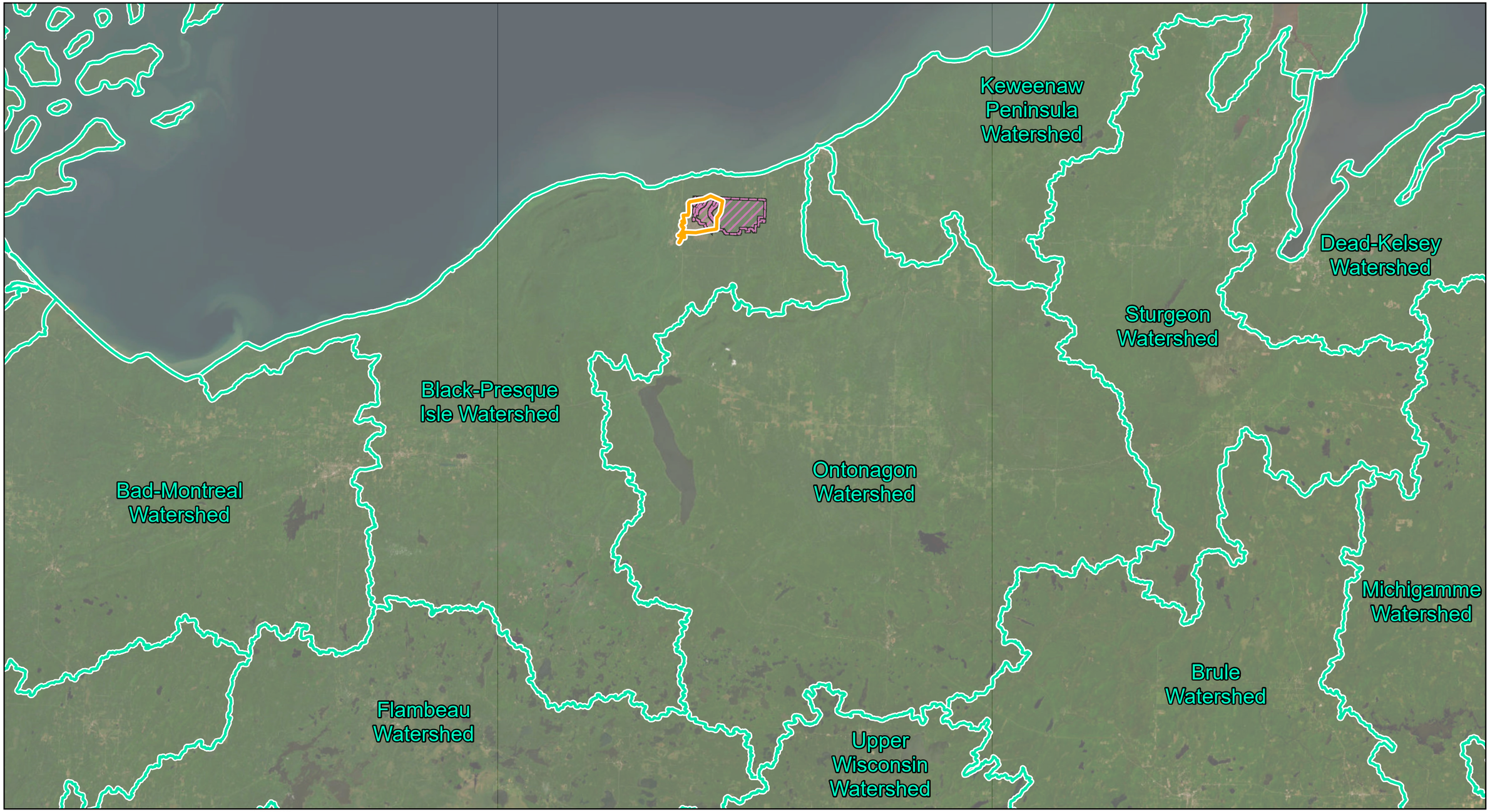
WHITE PINE COPPER LLC

FIGURE 3-10

PREDICTED MINE INFLOWS VERSUS TIME
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 2,000 4,000 Feet		Date:	JULY 2026
Drafted By:	DAT	Project:	25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.

LEGEND

- Watershed Boundary (HUC-8)
- Proposed White Pine North Underground Mine Area
- Proposed Project Surface Extent

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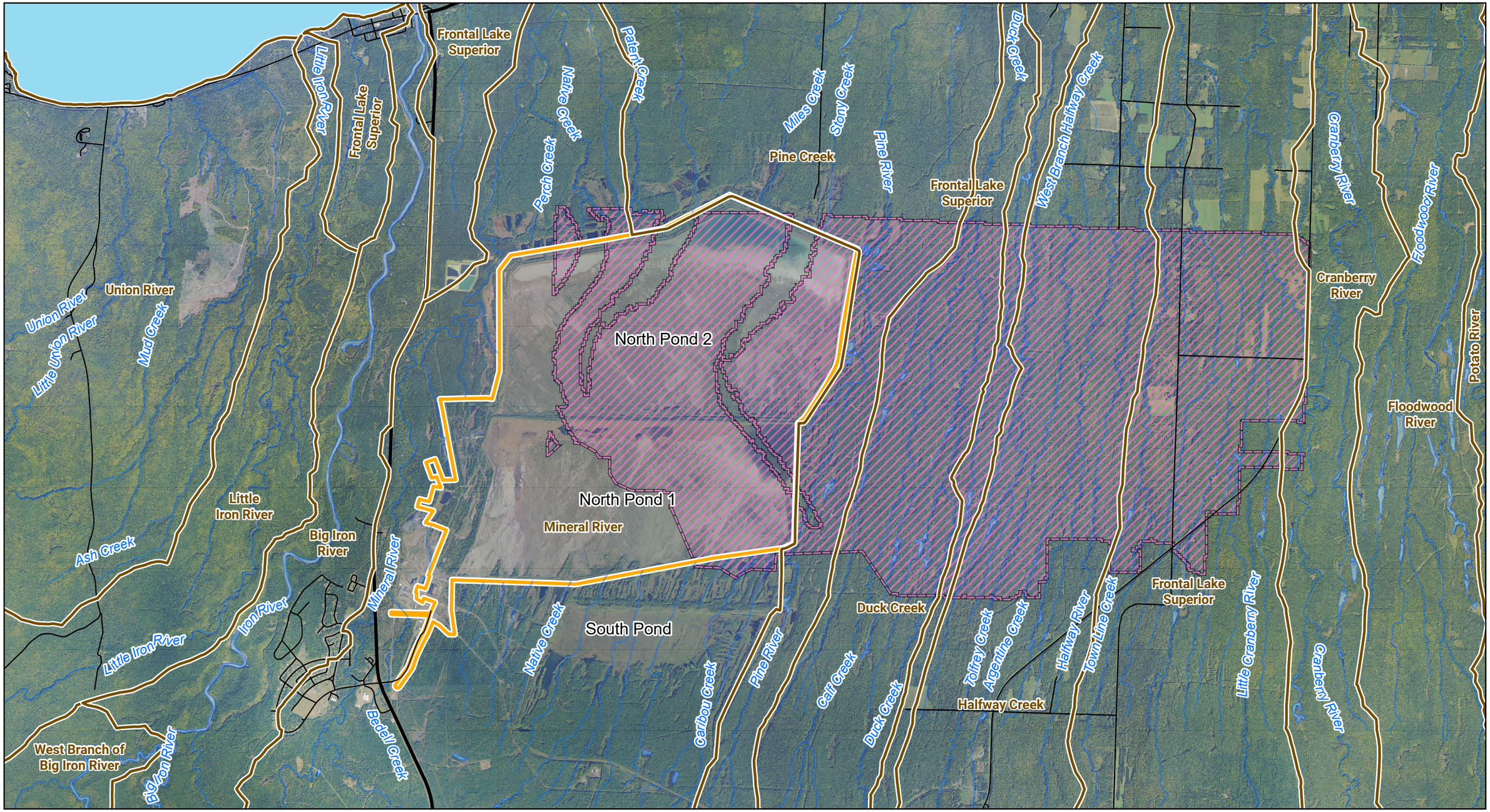
FIGURE 3-11
PROJECT AREA WATERSHEDS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 4 8 Miles

Date: JULY 2026

Drafted By: DAT

Project: 25W006



NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.

LEGEND

- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area

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PREPARED BY:	DAT		DATE:	AUG. '26
REVIEWED BY:	NAA2		DATE:	AUG. '26
APPROVED BY:	CER2		DATE:	AUG. '26

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FIGURE 3-12
PROJECT AREA SUBWATERSHEDS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

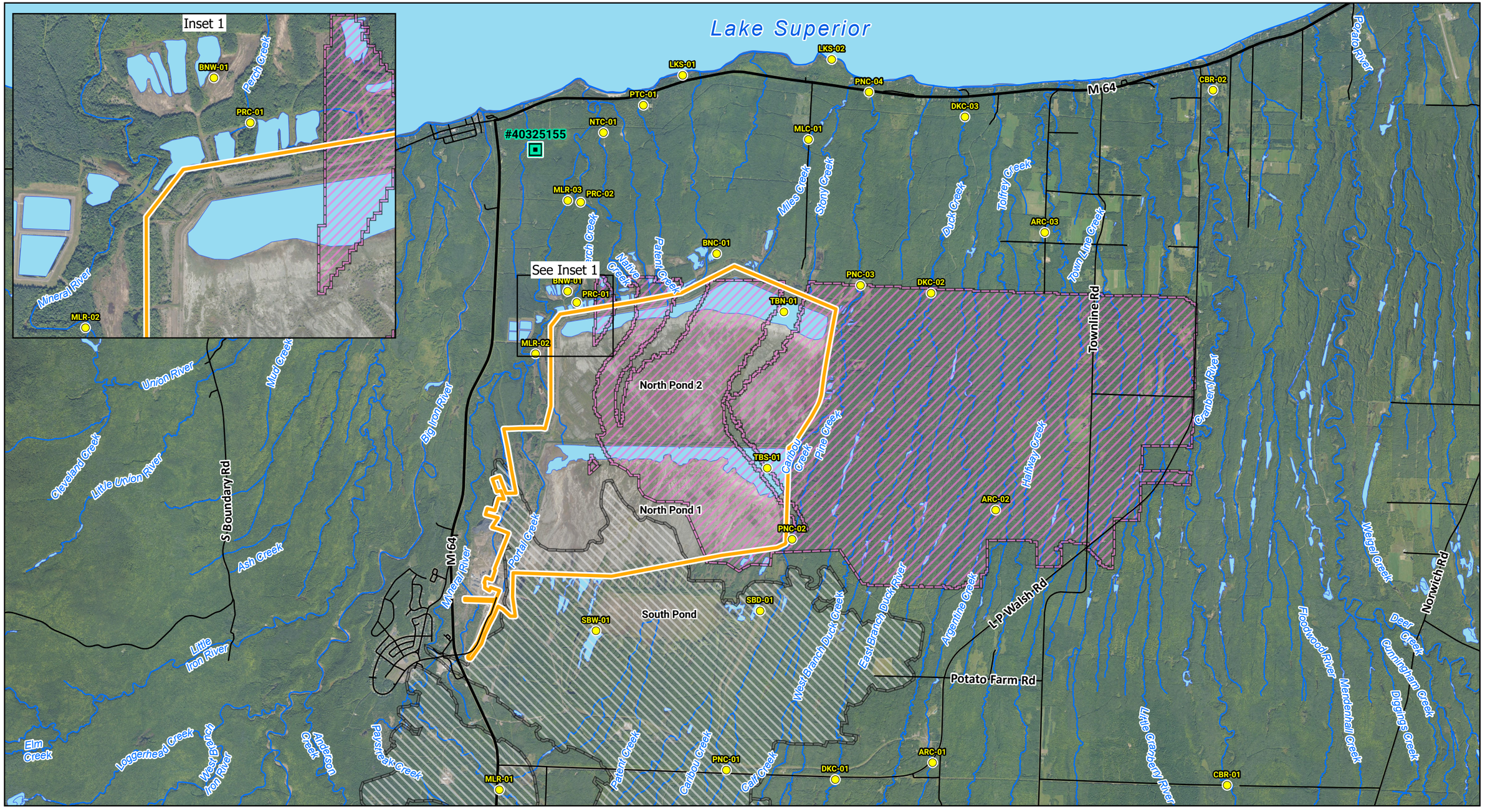
Scale: 0 2,000 4,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.

LEGEND

- USGS Flow Gage
- Part 632 Monitoring Location
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Historic Underground Mine Workings
- Proposed White Pine North Underground Mine Area
- Proposed Project Surface Extent

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Foth Infrastructure & Environment, LLC			
REVISED	DATE	BY	DESCRIPTION

PREPARED BY:	DAT	DATE:	AUG. '26
REVIEWED BY:	NAA2	DATE:	AUG. '26
APPROVED BY:	CER2	DATE:	AUG. '26

WHITE PINE COPPER LLC

FIGURE 3-13
SURFACE WATER MONITORING LOCATIONS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

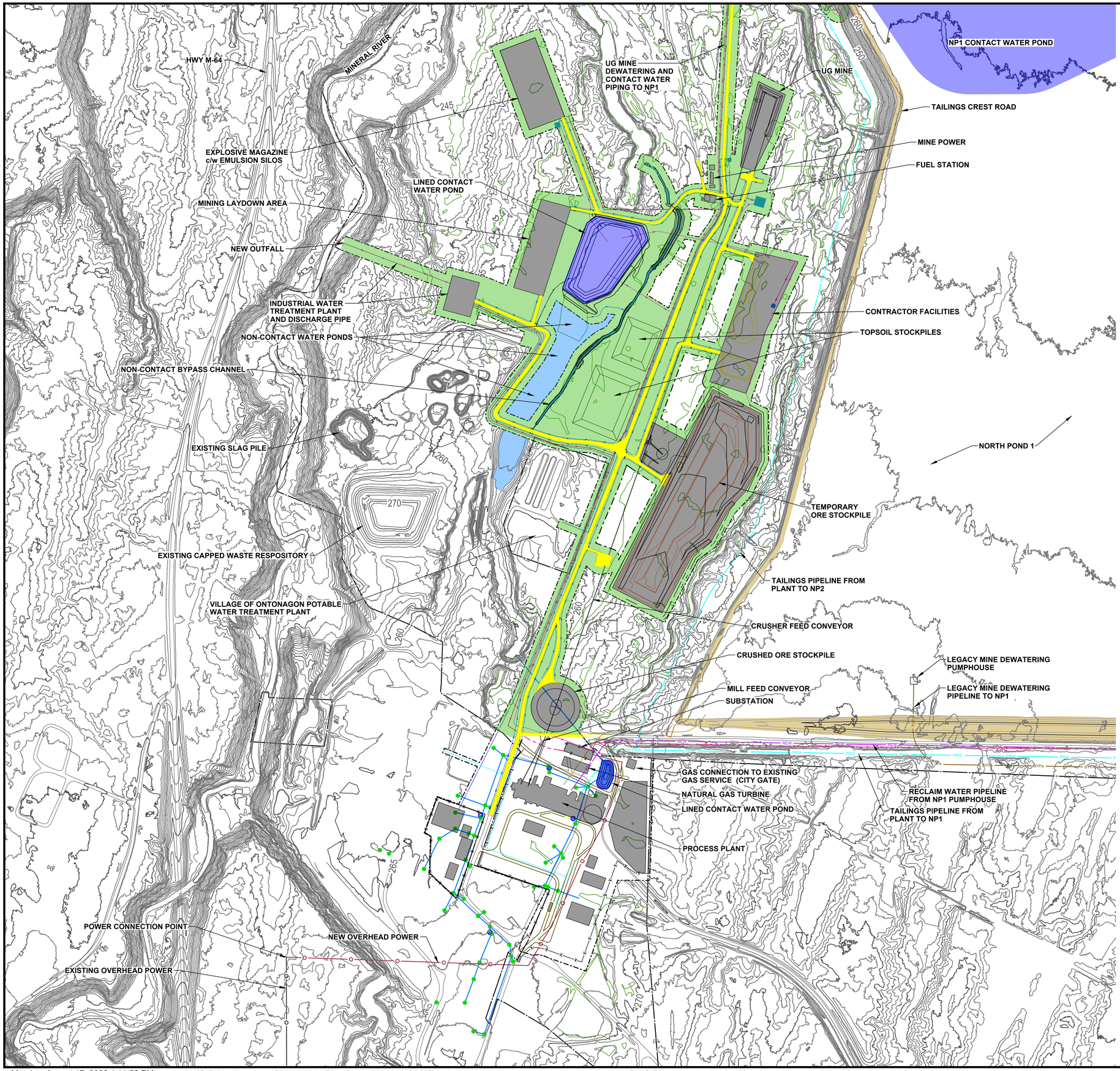
Scale: 0 4 8 Miles

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING STORM WATER PIPE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING CHANNEL FLOW
- EXISTING WATER
- EXISTING DELINEATED WETLAND
- PROPOSED ROAD
- NEW 13.8kV UNDERGROUND LINE
- NEW 13kV OH LINE
- NEW 69kV LINE
- PROPOSED WATER LINE
- NEW DISCHARGE PIPE
- BYPASS CHANNEL
- CULVERT
- DRAINAGE DITCH
- DISCHARGE PIPING
- RECLAIM WATER PIPELINE
- TAILINGS PIPELINE
- FORMER MINE DEWATERING PIPELINE
- TEMPORARY ORE STOCKPILE
- PHASE 1 BUILDING
- PHASE 1 SEEDING AREAS
- CONTACT WATER POND
- CONTACT WATER SUMP
- NON-CONTACT WATER POND
- PHASE 1 CREST WIDENING
- PHASE 1 CONSTRUCTION GRADING

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
2. HYDROGRAPHIC FROM USGS.
3. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
4. TOPOGRAPHY AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1 METER.
5. ROADWAYS, BUILDING FOOTPRINTS, AND EARTHEN MATERIAL STOCKPILE GRADES AND SLOPES ARE APPROXIMATE.
6. LEGACY MINE DEWATERING DISCHARGE TO BE ROUTED TO NP2 DURING CONSTRUCTION.

50 0 50 100 150 200 250 300 350 400m

SCALE

WHITE PINE COPPER
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ENVIRONMENTAL IMPACT ASSESSMENT

WHITE PINE COPPER
ONTONAGON COUNTY, MICHIGAN

REVISIONS			
NO.	BY	DATE	DESCRIPTION

DATE OF PREPARATION

	BY	DATE
SURVEYED		
DRAWN	JOW	JULY 2026
DESIGNED	DJM4	JULY 2026
CHECKED	DJM4	JULY 2026

SHEET TITLE:

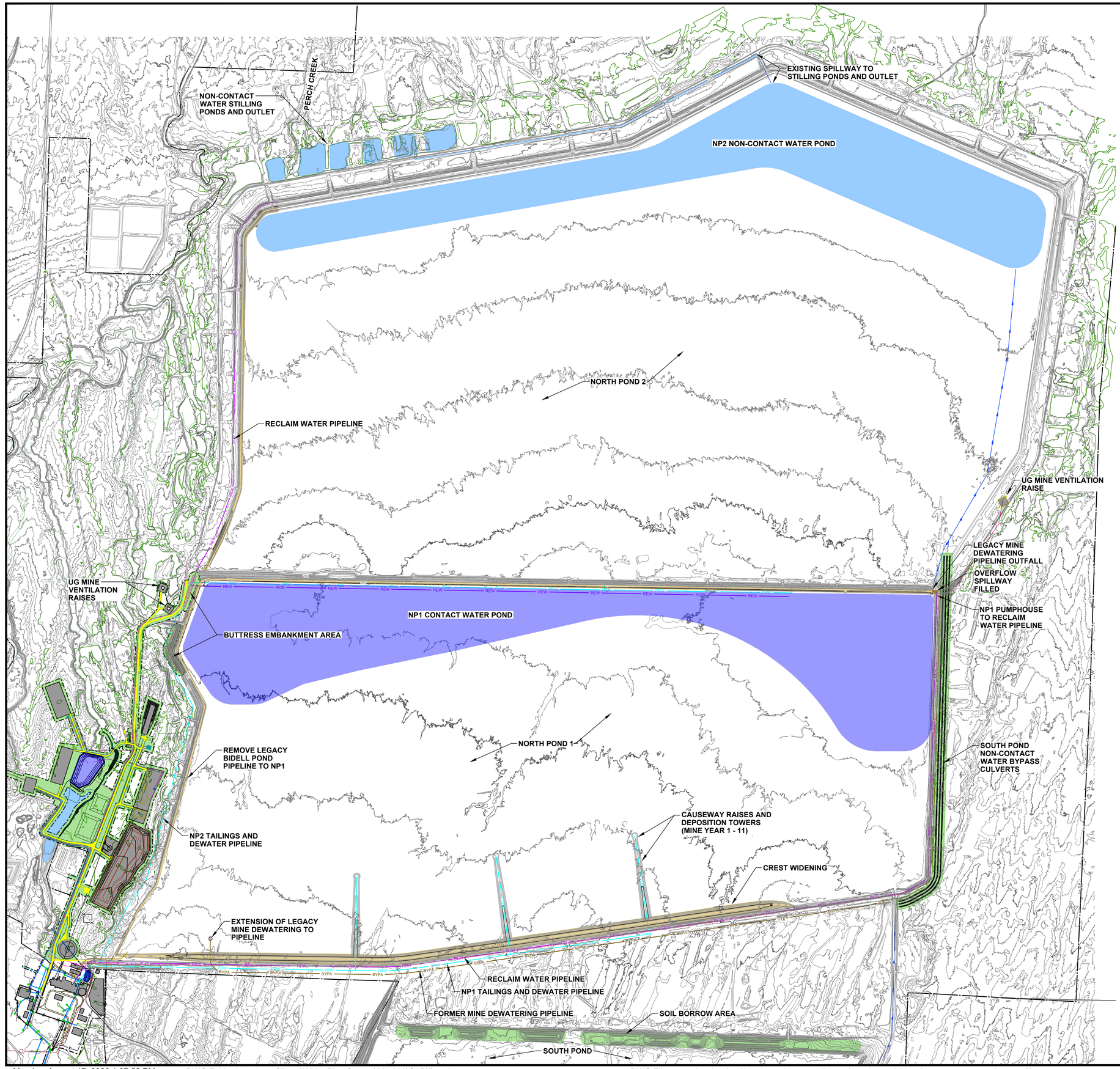
PHASE 1 - CONSTRUCTION RECLAMATION ACTIVITIES MINE YEAR -3 TO 0

ENVIRONMENTAL IMPACT ASSESSMENT

PROJECT NO: 23W200

FIGURE NUMBER

FIGURE 3-14A



LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING STORM WATER PIPE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING CHANNEL FLOW
- EXISTING WATER
- EXISTING DELINEATED WETLAND
- PROPOSED ROAD
- NEW 13.8kV UNDERGROUND LINE
- NEW 13kV OH LINE
- NEW 69kV LINE
- PROPOSED WATER LINE
- NEW DISCHARGE PIPE
- BYPASS CHANNEL
- CULVERT
- DRAINAGE DITCH
- DISCHARGE PIPING
- TEMPORARY ORE STOCKPILE
- RECLAIM WATER PIPELINE
- TAILINGS PIPELINE
- FORMER MINE DEWATERING PIPELINE
- PHASE 1 BUILDING/INFRASTRUCTURE
- PHASE 1 SEEDING AREAS
- CONTACT WATER POND
- CONTACT WATER SUMP
- NON-CONTACT WATER POND
- PHASE 1 CREST WIDENING
- PHASE 1 CONSTRUCTION GRADING

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
2. HYDROGRAPHIC FROM USGS.
3. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
4. TOPOGRAPHY AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1 METER.
5. ROADWAYS, BUILDING FOOTPRINTS, AND EARTHEN MATERIAL STOCKPILE GRADES AND SLOPES ARE APPROXIMATE.
6. SEE WATER MANAGEMENT FIGURES FOR ADDITIONAL SURFACE WATER MANAGEMENT PHASING DETAILS.
7. LEGACY MINE DEWATERING DISCHARGE TO BE ROUTED TO NP2 DURING CONSTRUCTION. NP1 SURFACE WATER TO BE TREATED AS CONTACT WATER IN PHASE 2.

125 0 125 250 375 500 625 750 875 1,000m

SCALE

WHITE PINE COPPER

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ENVIRONMENTAL IMPACT ASSESSMENT

WHITE PINE COPPER
ONTONAGON COUNTY, MICHIGAN

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DESIGNED	DJM4	JULY 2026
CHECKED	DJM4	JULY 2026

SHEET TITLE:

PHASE 1 - CONSTRUCTION RECLAMATION ACTIVITIES NORTH POND 1 & 2 MINE YEAR -3 TO 11

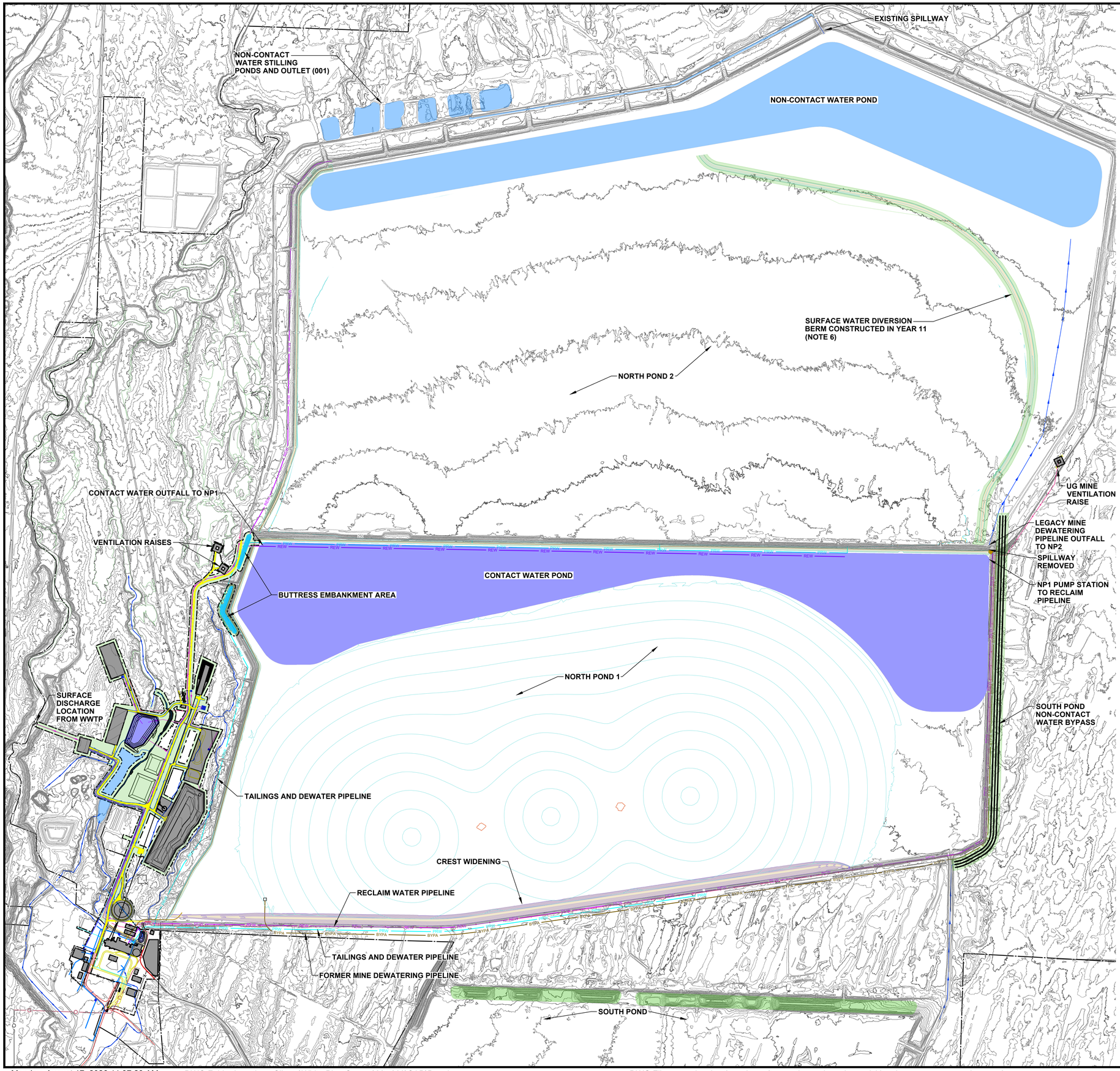
ENVIRONMENTAL IMPACT ASSESSMENT

PROJECT NO: 23W200

FIGURE NUMBER

FIGURE 3-14B

Monday, August 17, 2026 1:07:52 PM DWG Folder Location: Clients\White Pine Copper\23w200\CAD\Drawings DWG Filename: drawing 2a_2b - phase 1 construction reclamation activities.dwg Layout: 2b



LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING STORM WATER PIPE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING CHANNEL FLOW
- EXISTING WATER
- EXISTING DELINEATED WETLAND
- PROPOSED ROAD
- NEW 13.8kV UNDERGROUND LINE
- NEW 13kV OH LINE
- NEW 69kV LINE
- PROPOSED WATER LINE
- NEW DISCHARGE PIPE
- BYPASS CHANNEL
- CULVERT
- DRAINAGE DITCH
- DISCHARGE PIPING
- RECLAIM WATER PIPELINE
- TAILINGS PIPELINE
- FORMER MINE DEWATERING PIPELINE
- PHASE 1 BUILDING
- PHASE 2 SEEDING AREAS
- CONTACT WATER POND
- NON-CONTACT WATER POND
- TDF CREST WIDENING
- TAILINGS DEPOSITION CONTOUR
- TAILINGS DEPOSITION CONTOUR (DEPRESSION)
- PHASE 1 CONSTRUCTION GRADING

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
2. HYDROGRAPHIC FROM USGS.
3. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
4. TOPOGRAPHY AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1 METER.
5. ROADWAYS, BUILDING FOOTPRINTS, AND EARTHEN MATERIAL STOCKPILE GRADES AND SLOPES ARE APPROXIMATE.
6. SURFACE WATER DIVERSION AND DITCH ROUTING CONSTRUCTED IN MINE YEAR 11 IN ADVANCE OF NP2 DEPOSITION, YEARS 12-26.

125 0 125 250 375 500 625 750 875 1,000m

SCALE

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ENVIRONMENTAL IMPACT ASSESSMENT

WHITE PINE COPPER
ONTONAGON COUNTY, MICHIGAN

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DRAWN	JOW	JULY 2026
DESIGNED	DJM4	JULY 2026
CHECKED	DJM4	JULY 2026

SHEET TITLE:

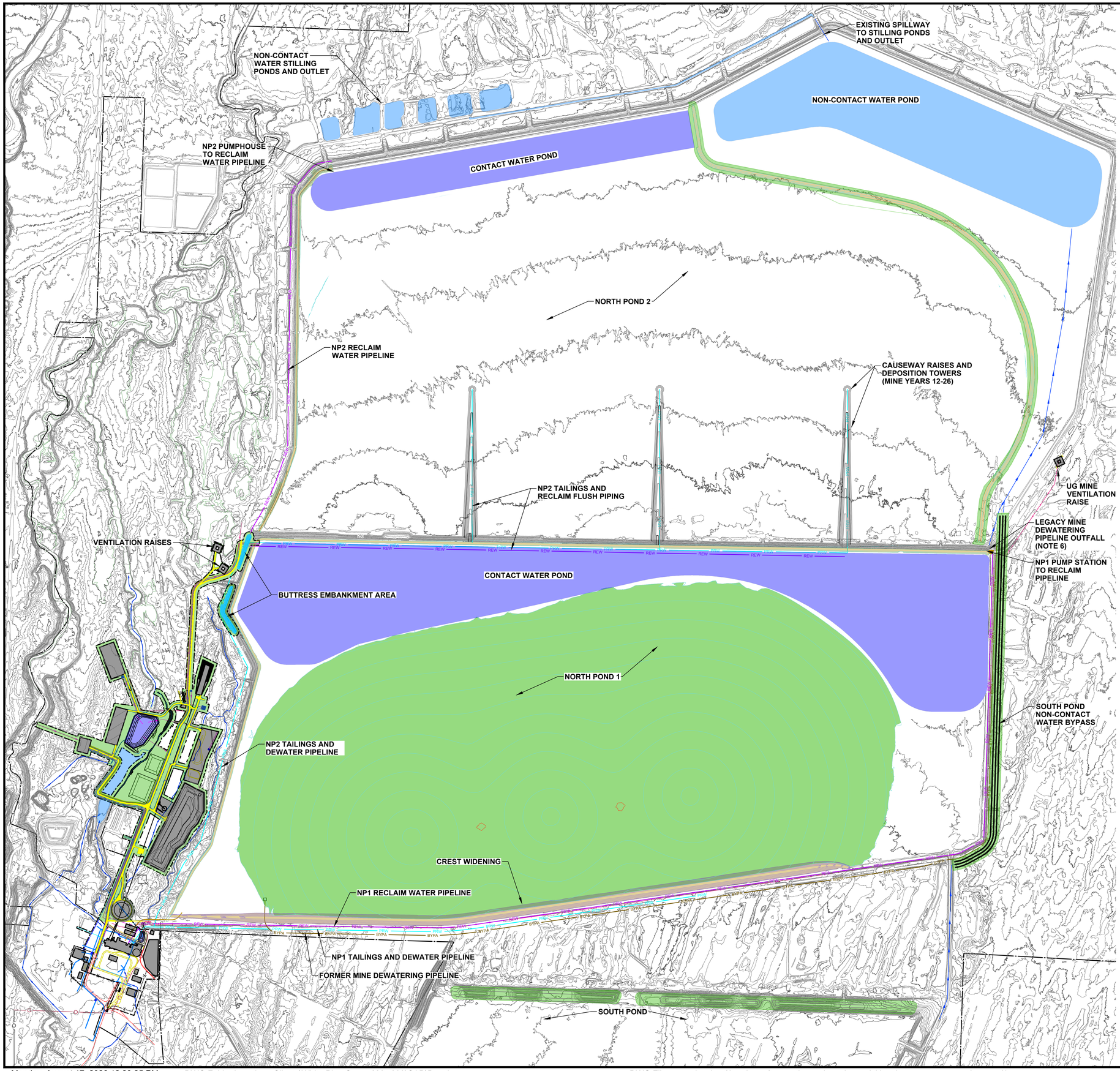
PHASE 2 - OPERATION RECLAMATION ACTIVITIES MINE YEAR 1-11

ENVIRONMENTAL IMPACT ASSESSMENT

PROJECT NO: 23W200

FIGURE NUMBER

FIGURE 3-15A



LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING STORM WATER PIPE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING CHANNEL FLOW
- EXISTING WATER
- EXISTING DELINEATED WETLAND
- PROPOSED ROAD
- NEW 13.8kV UNDERGROUND LINE
- NEW 13kV OH LINE
- NEW 69kV LINE
- PROPOSED WATER LINE
- NEW DISCHARGE PIPE
- BYPASS CHANNEL
- CULVERT
- DRAINAGE DITCH
- DISCHARGE PIPING
- RECLAIM WATER PIPELINE
- TAILINGS PIPELINE
- FORMER MINE DEWATERING PIPELINE
- PHASE 1 BUILDING
- PHASE 2 SEEDING AREAS
- CONTACT WATER POND
- NON-CONTACT WATER POND
- PHASE 1 TAILING ROADS
- TAILINGS DEPOSITION CONTOUR
- TAILINGS GRADING CONTOUR (DEPRESSION)
- PHASE 1 CONSTRUCTION GRADING

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
2. HYDROGRAPHIC FROM USGS.
3. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
4. TOPOGRAPHY AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1 METER.
5. ROADWAYS, BUILDING FOOTPRINTS, AND EARTHEN MATERIAL STOCKPILE GRADES AND SLOPES ARE APPROXIMATE.
6. NP1 AND NP2 CONTACT WATER POND PUMPED TO RECLAIM WATER DURING THIS PERIOD.
7. NP1 INTERIM SEEDING AND GRADING FOLLOWING DEPOSITION.

125 0 125 250 375 500 625 750 875 1,000m

SCALE

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WHITE PINE COPPER
ONTONAGON COUNTY, MICHIGAN

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DRAWN	JOW	JULY 2026
DESIGNED	DJM4	JULY 2026
CHECKED	DJM4	JULY 2026

SHEET TITLE:

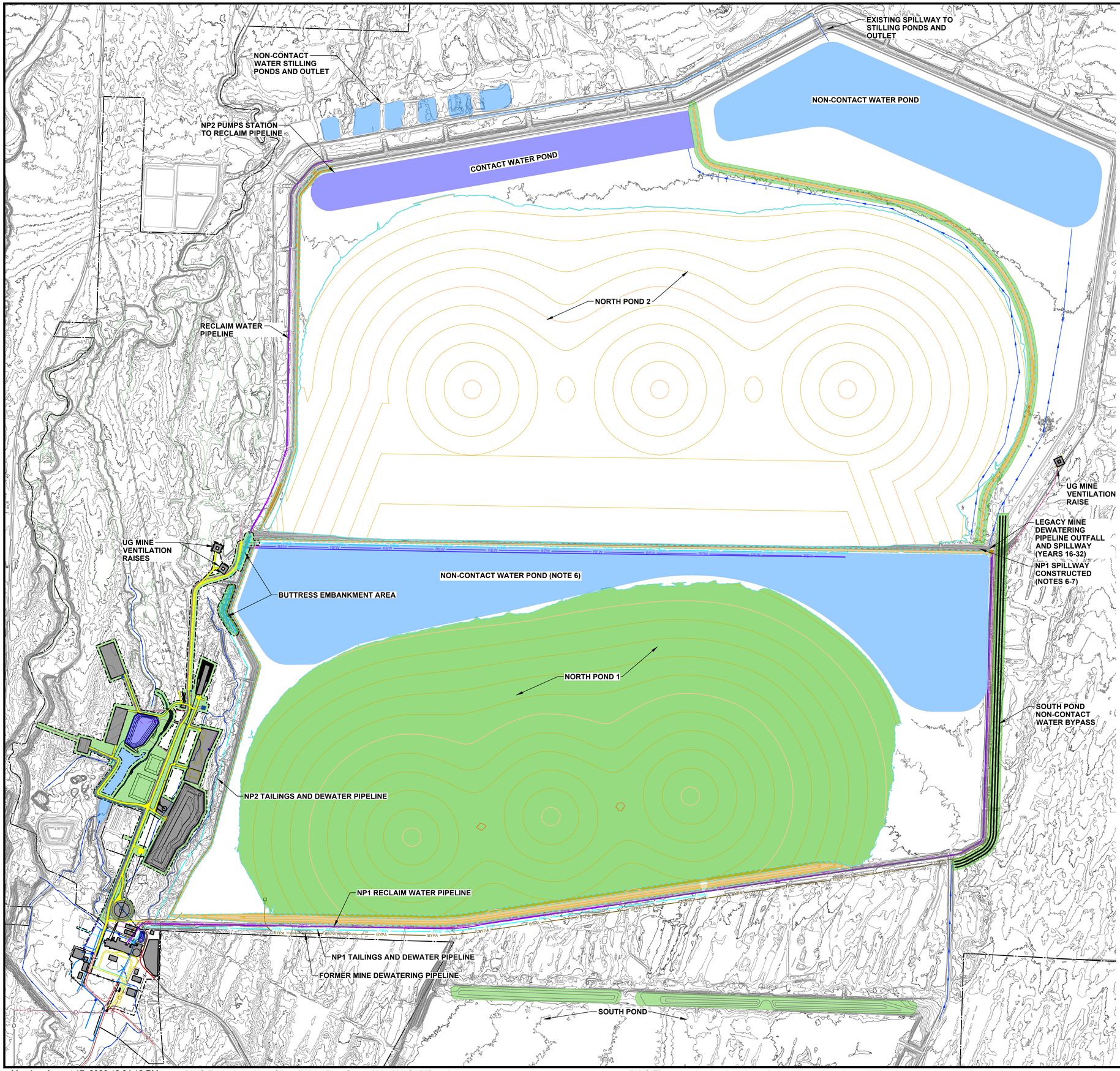
PHASE 2 - OPERATION RECLAMATION ACTIVITIES MINE YEAR 12-16

ENVIRONMENTAL IMPACT ASSESSMENT

PROJECT NO: 23W200

FIGURE NUMBER

FIGURE 3-15B



LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING STORM WATER PIPE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING CHANNEL FLOW
- EXISTING WATER
- EXISTING DELINEATED WETLAND
- PROPOSED ROAD
- NEW 13.8kV UNDERGROUND LINE
- NEW 13kV OH LINE
- NEW 69kV LINE
- PROPOSED WATER LINE
- NEW DISCHARGE PIPE
- BYPASS CHANNEL
- CULVERT
- DRAINAGE DITCH
- DISCHARGE PIPING
- RECLAIM WATER PIPELINE
- TAILINGS PIPELINE
- FORMER MINE DEWATERING PIPELINE
- PHASE 1 BUILDING
- PHASE 2 SEEDING AREAS
- CONTACT WATER POND
- NON-CONTACT WATER POND
- PHASE 1 TAILING ROADS
- FINAL GRADING CONTOUR (MAJOR)
- FINAL GRADING CONTOUR (MINOR)
- FINAL GRADING CONTOUR (DEPRESSION)

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
2. HYDROGRAPHIC FROM USGS.
3. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
4. TOPOGRAPHY AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1 METER.
5. ROADWAYS, BUILDING FOOTPRINTS, AND EARTHEN MATERIAL STOCKPILE GRADES AND SLOPES ARE APPROXIMATE.
6. NORTH POND 1 CONTACT WATER POND TO PUMP TO WWTP UNTIL YEAR 16. UPON MEETING WATER QUALITY STANDARDS, SPILLWAY IN NORTHEAST CORNER TO BE CONSTRUCTED TO DISCHARGE TO NORTH POND 2 NON-CONTACT WATER POND IN YEARS 16 THROUGH 32 AS SHOWN.
7. NP1 SPILLWAY DIRECTS NON-CONTACT WATER TO NP2 NON-CONTACT WATER POND.

125 0 125 250 375 500 625 750 875 1,000m

SCALE

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ENVIRONMENTAL IMPACT ASSESSMENT

WHITE PINE COPPER
ONTONAGON COUNTY, MICHIGAN

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	BY	DATE
SURVEYED		
DRAWN	JOW	JULY 2026
DESIGNED	DJM4	JULY 2026
CHECKED	DJM4	JULY 2026

SHEET TITLE:

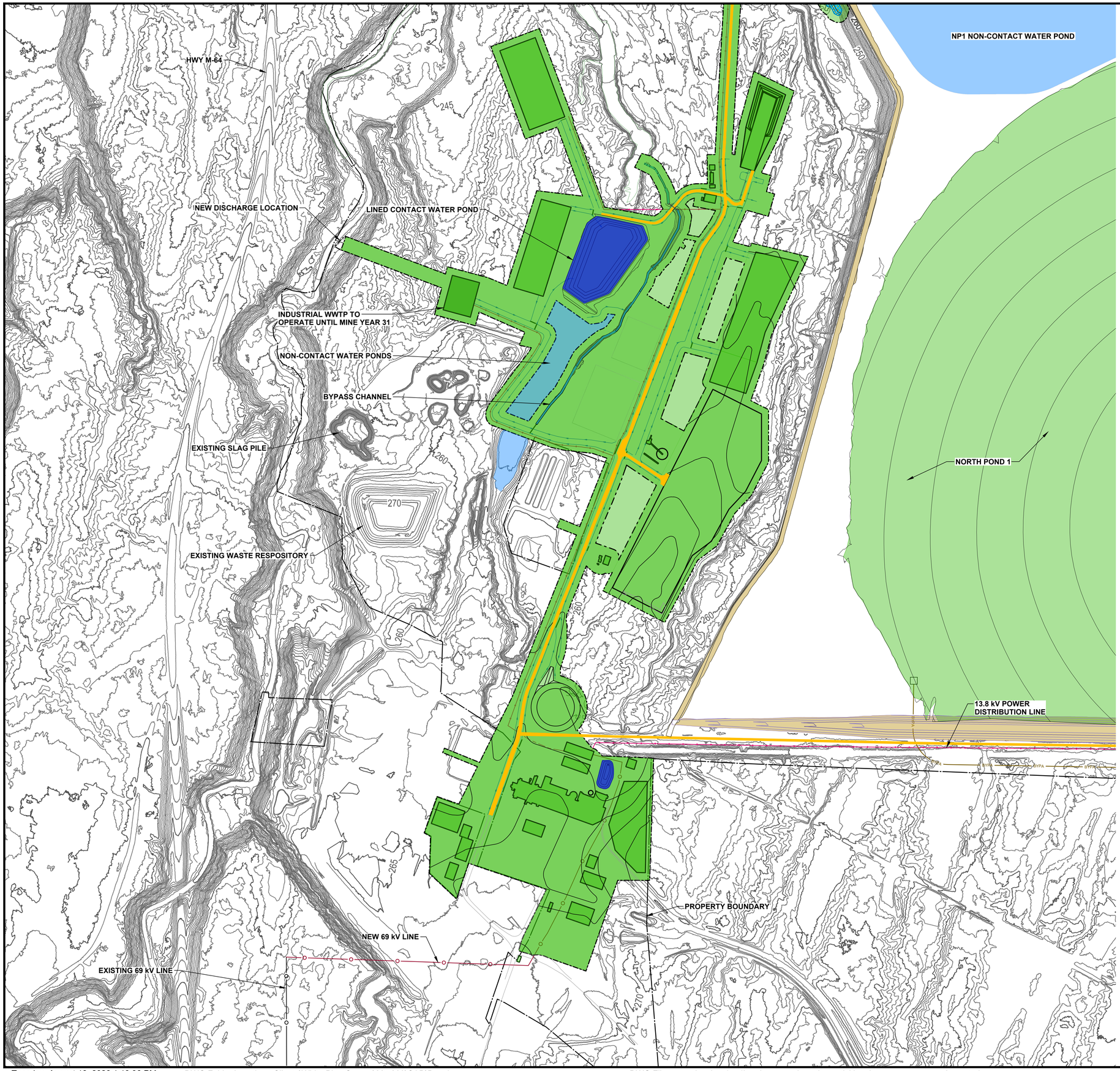
PHASE 2 - OPERATION RECLAMATION ACTIVITIES MINE YEAR 17-26

ENVIRONMENTAL IMPACT ASSESSMENT

PROJECT NO: 23W200

FIGURE NUMBER

FIGURE 3-15C



LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING CHANNEL FLOW
- EXISTING WATER
- EXISTING DELINEATED WETLAND
- FORMER MINE DEWATERING PIPELINE
- ROADS TO REMAIN
- TAILINGS CREST WIDENING
- UNDERGROUND ELECTRIC
- OVERHEAD ELECTRIC
- PROPOSED BYPASS CHANNEL
- CULVERT
- DRAINAGE DITCH
- FINAL GRADING
- PHASE 3 SEEDING AND MAINTENANCE AREAS
- CONTACT WATER POND
- NON-CONTACT WATER POND
- FINAL GRADING CONTOUR (MAJOR)
- FINAL GRADING CONTOUR (MINOR)
- FINAL GRADING CONTOUR (DEPRESSION)

NOTES:

1. BASE AIR PHOTO FROM LATEST BING AERIAL IMAGES.
2. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
3. HYDROGRAPHIC FROM USGS.
4. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
5. TOPOGRAPHY AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1'.
6. PROCESS PLANT FACILITY AND SURFACE INFRASTRUCTURE TO BE REMOVED IN PHASE 3 EXCEPT INDUSTRIAL WWTP AND ASSOCIATED PIPING AND ANCILLARY UTILITIES.

50 0 50 100 150 200 250 300 350 400m

SCALE

WHITE PINE COPPER

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WHITE PINE COPPER
ONTONAGON COUNTY, MICHIGAN

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DATE OF PREPARATION

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DRAWN	JRB2	JUNE 2026
DESIGNED	DJM4	JULY 2026
CHECKED	DJM4	JULY 2026

SHEET TITLE:

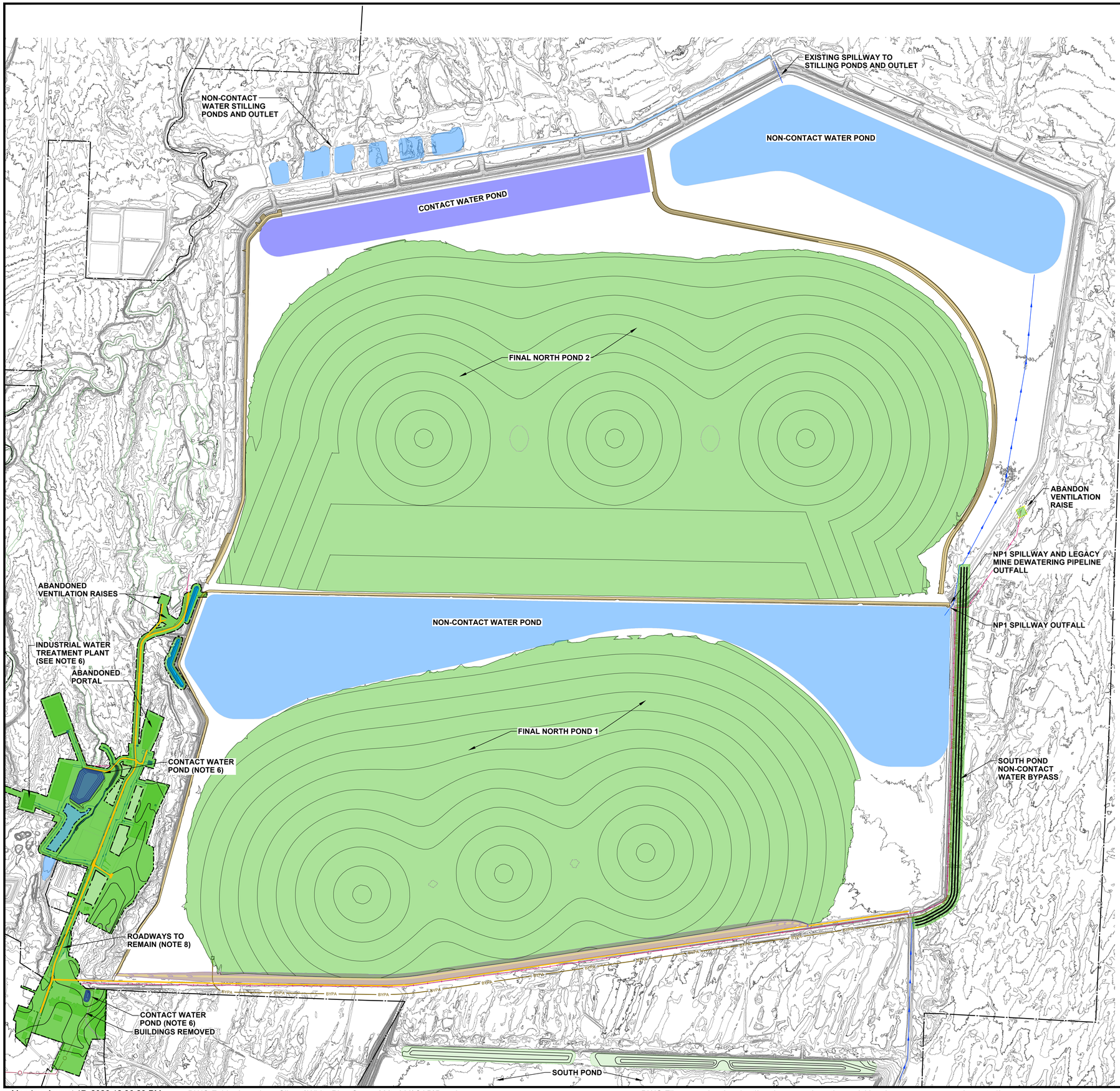
PHASE 3 CLOSURE RECLAMATION ACTIVITIES MILL AREA MINE YEAR 27-31

ENVIRONMENTAL IMPACT ASSESSMENT

PROJECT NO: 23W200

FIGURE NUMBER

FIGURE 3-16A



LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING STORM WATER PIPE
- EXISTING CATCH BASIN
- EXISTING MANHOLE
- EXISTING CHANNEL FLOW
- EXISTING WATER
- EXISTING DELINEATED WETLAND
- FORMER MINE DEWATERING PIPELINE (BYPA)
- ROADS TO REMAIN
- TAILINGS CREST WIDENING
- NEW 13.8kV UNDERGROUND LINE
- NEW 13kV OH LINE
- NEW 69kV LINE
- PROPOSED WATER LINE (W)
- NEW DISCHARGE PIPE (SS)
- BYPASS CHANNEL
- CULVERT
- DRAINAGE DITCH
- PHASE 1 BUILDING
- PHASE 3 SEEDING AND MAINTENANCE AREAS
- CONTACT WATER POND
- NON-CONTACT WATER POND
- FINAL GRADING CONTOUR (MAJOR)
- FINAL GRADING CONTOUR (MINOR)
- FINAL GRADING CONTOUR (DEPRESSION)

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
2. HYDROGRAPHIC FROM USGS.
3. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
4. TOPOGRAPHY AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1 METER.
5. ROADWAYS, BUILDING FOOTPRINTS, AND EARTHEN MATERIAL STOCKPILE GRADES AND SLOPES ARE APPROXIMATE.
6. INDUSTRIAL WATER TREATMENT PLANT AND ASSOCIATED PIPING AND INFRASTRUCTURE TO REMAIN WITH CONTACT WATER MANAGEMENT UNTIL MINE YEAR 31.
7. PHASE 3 TO CONSIST OF REMOVAL OF ALL NON-INERT MINE INFRASTRUCTURE, SURFACE INFRASTRUCTURE, AND NON-ESSENTIAL ROADS FOR POST-CLOSURE MONITORING. PORTAL AND VENTILATION RAISES TO BE CAPPED AND BULKHEADS INSTALLED.
8. ROADWAYS TO REMAIN IN PLACE TO SUPPORT CLOSURE ACTIVITIES. REMAINING ROADWAYS AT MINE YEAR 31 TO SUPPORT POSTCLOSURE ACTIVITIES.

125 0 125 250 375 500 625 750 875 1,000m
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DRAWN	JOW	JULY 2026
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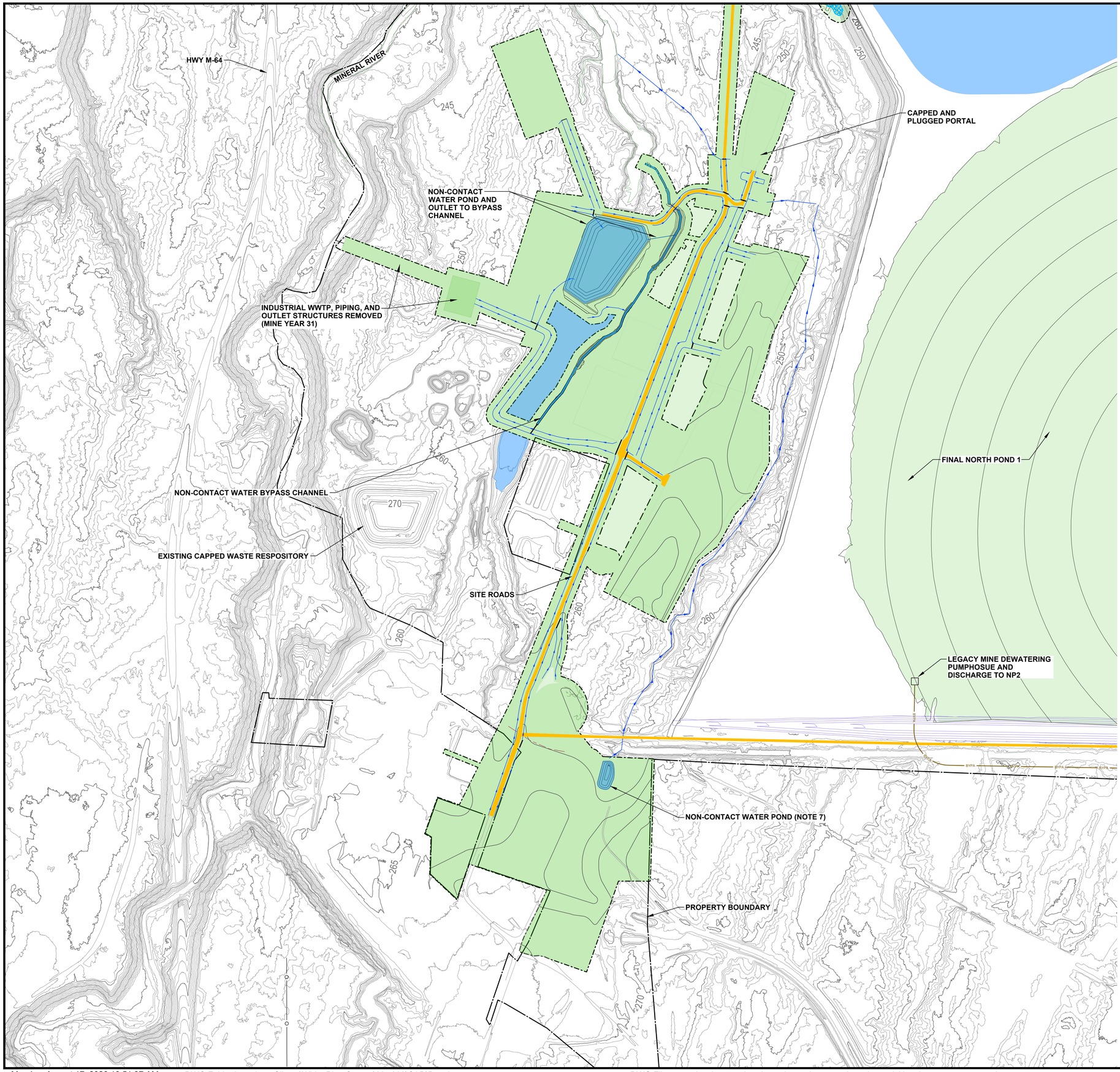
PHASE 3 CLOSURE RECLAMATION ACTIVITIES MINE YEAR 27-31

ENVIRONMENTAL IMPACT ASSESSMENT

PROJECT NO: 23W200

FIGURE NUMBER

FIGURE 3-16B



LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING CHANNEL FLOW
- EXISTING WATER
- EXISTING DELINEATED WETLAND
- BYPASS CHANNEL
- CULVERT
- DRAINAGE DITCH
- PHASE 4 SEEDING MAINTENANCE AREAS
- NON-CONTACT WATER POND
- POSTCLOSURE ROADS
- FINAL GRADING CONTOUR (MAJOR)
- FINAL GRADING CONTOUR (MINOR)
- FINAL GRADING CONTOUR
- BYPA — FORMER MINE DEWATERING PIPELINE

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
2. HYDROGRAPHIC FROM USGS.
3. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
4. TOPOGRAPHY AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1 METER.
5. ROADWAYS, BUILDING FOOTPRINTS, AND EARTHEN MATERIAL STOCKPILE GRADES AND SLOPES ARE APPROXIMATE.
6. FINAL GRADING CONTOURS SUBJECT TO CHANGE BASED ON FINAL CONDITIONS.
7. SURFACE WATER POND TO MAINTAIN EXISTING STORM DRAINAGE SYSTEM AND DISCHARGE TO SURFACE WATER.

50 0 50 100 150 200 250 300 350 400m

SCALE

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WHITE PINE COPPER
ONTONAGON COUNTY, MICHIGAN

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DRAWN	JOW	JULY 2026
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CHECKED	DJM4	JULY 2026

SHEET TITLE:

PHASE 4 - POSTCLOSURE RECLAMATION ACTIVITIES MINE YEAR 32+

ENVIRONMENTAL IMPACT ASSESSMENT

PROJECT NO: 23W200

FIGURE NUMBER

FIGURE 3-17A



LEGEND

- EXISTING INDEX CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING WATER
- EXISTING DELINEATED WETLAND
- BYPASS CHANNEL
- CULVERT
- DRAINAGE DITCH
- FORMER MINE DEWATERING PIPELINE
- PHASE 4 SEEDING MAINTENANCE AREAS
- NON-CONTACT WATER POND
- POSTCLOSURE ROADS
- FINAL GRADING CONTOUR (MAJOR)
- FINAL GRADING CONTOUR (MINOR)
- FINAL GRADING CONTOUR (DEPRESSION)

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
2. HYDROGRAPHIC FROM USGS.
3. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
4. TOPOGRAPHY AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1 METER.
5. ROADWAYS, BUILDING FOOTPRINTS, AND EARTHEN MATERIAL STOCKPILE GRADES AND SLOPES ARE APPROXIMATE.
6. SURFACE WATER POND TO MAINTAIN EXISTING STORM DRAINAGE SYSTEM AND DISCHARGE TO SURFACE WATERS.

125 0 125 250 375 500 625 750 875 1,000m

SCALE

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ENVIRONMENTAL IMPACT ASSESSMENT

WHITE PINE COPPER
ONTONAGON COUNTY, MICHIGAN

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DRAWN	JOW	JULY 2026
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CHECKED	DJM4	JULY 2026

SHEET TITLE:

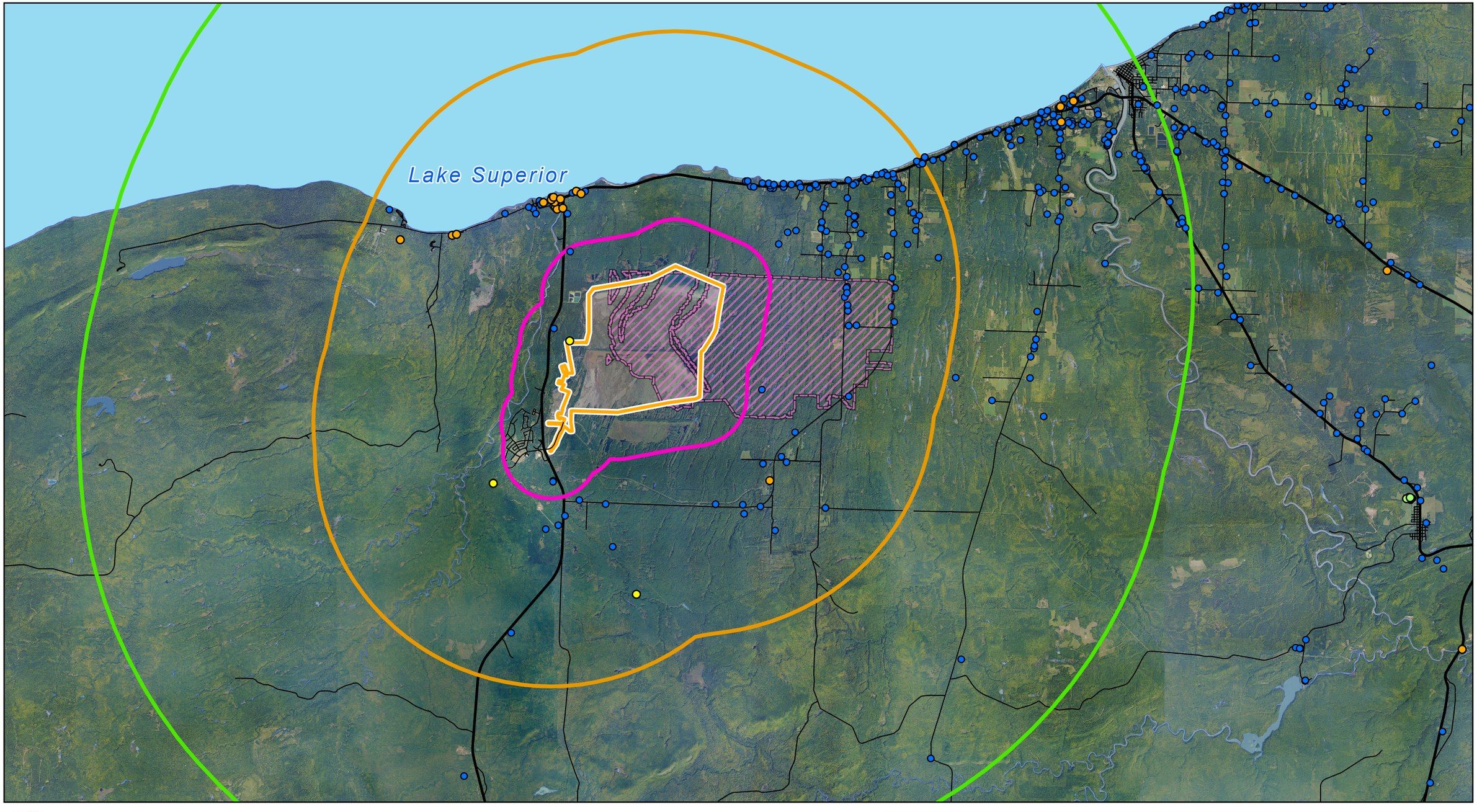
PHASE 4 - POSTCLOSURE RECLAMATION ACTIVITIES MINE YEAR 32+

ENVIRONMENTAL IMPACT ASSESSMENT

PROJECT NO: 23W200

FIGURE NUMBER

FIGURE 3-17B



NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Type II public Michigan water wells from Wellogic, the EGLE statewide ground water database and hosted by Michigan Dept. of Environment, Great Lakes, and Energy

LEGEND

- Type I Wells
- Type II Wells
- Mineral Wells
- Private Water Wells
- Major Road
- Minor Road
- Lake/Pond
- 10 Mile Site Buffer
- 5 Mile Site Buffer
- 1 Mile Site Buffer
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area

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APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-18
MAP OF EXISTING WELLS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

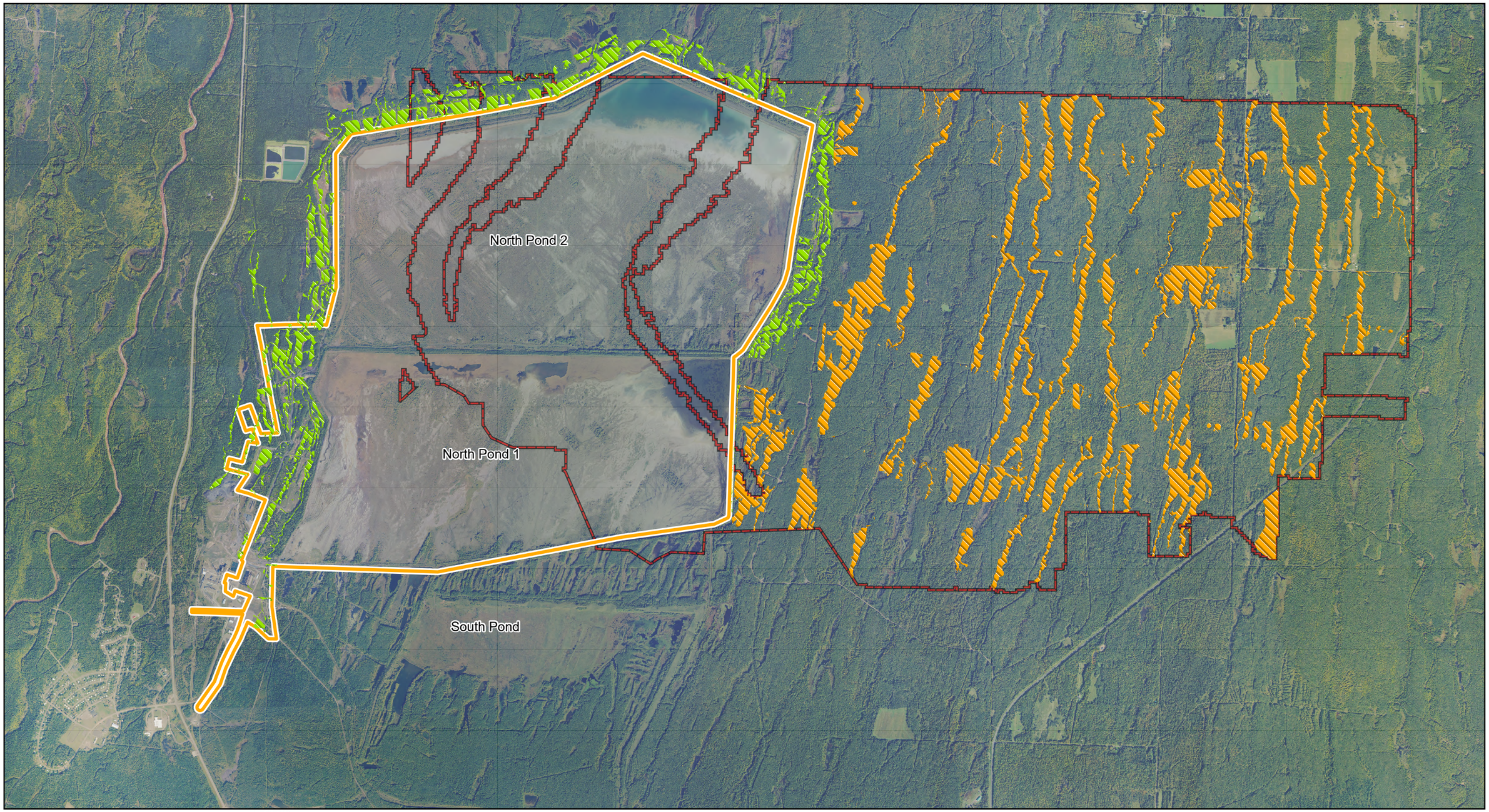
Scale: 0 1 2 Miles

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Wetlands supplied by Barr Engineering (2024, 2025 and 2026)

LEGEND

- Delineated Wetlands (Barr, 2024-2026)
- UG Mine Area Delineated Wetlands 2025
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area

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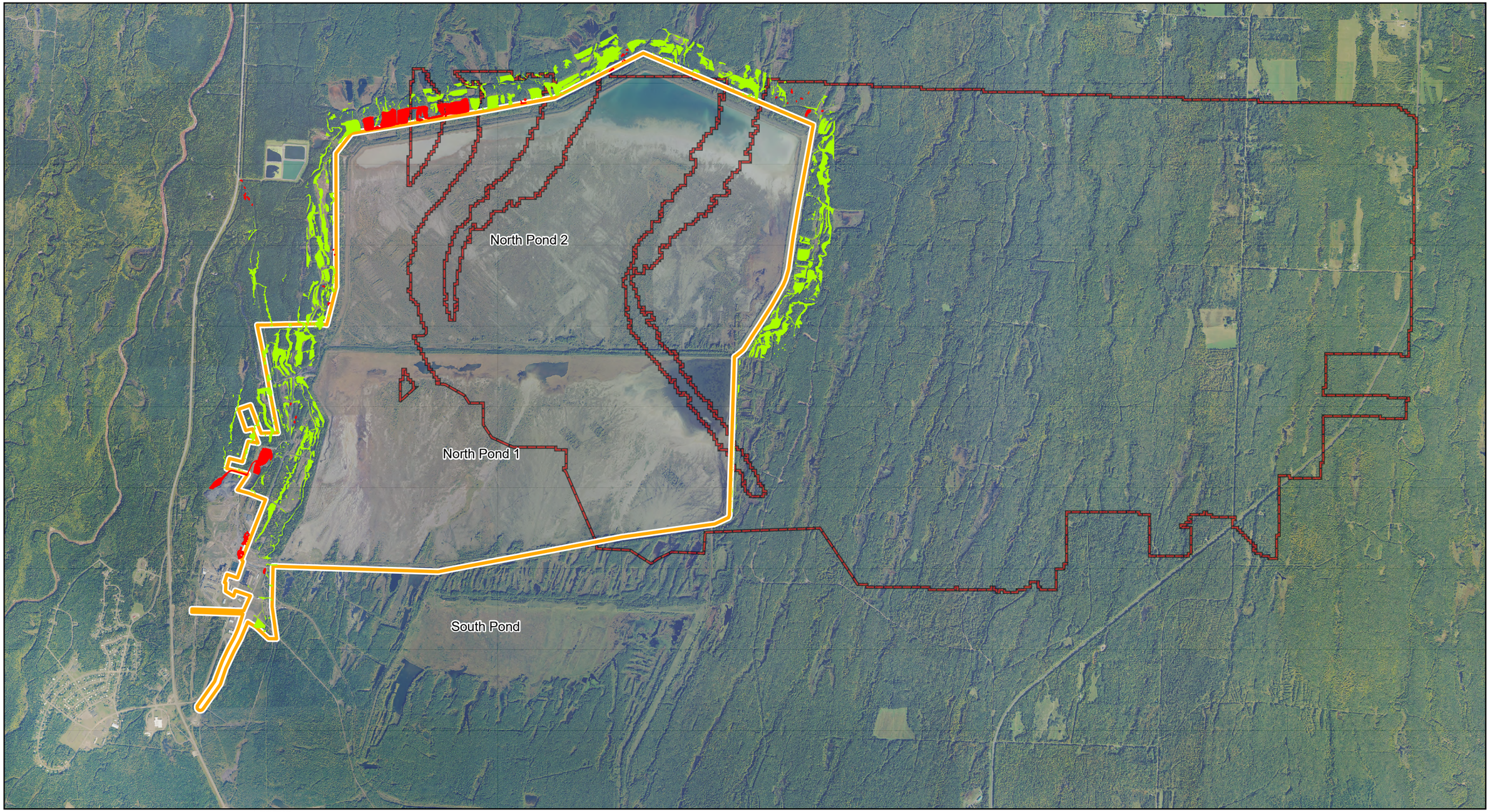
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FIGURE 3-19

WETLANDS AND FLOODPLAINS
WITHIN THE PROJECT AREA
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 1,500 3,000 Feet		Date:	JULY 2026
Drafted By:	DAT	Project:	25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Wetlands supplied by Barr Engineering (2024 and 2025)

LEGEND

- Regulated Under Part 303 of NREPA
- Nonregulated Under Part 303 of NREPA
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area

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FIGURE 3-20

PART 303 REGULATED AND UNREGULATED WETLANDS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

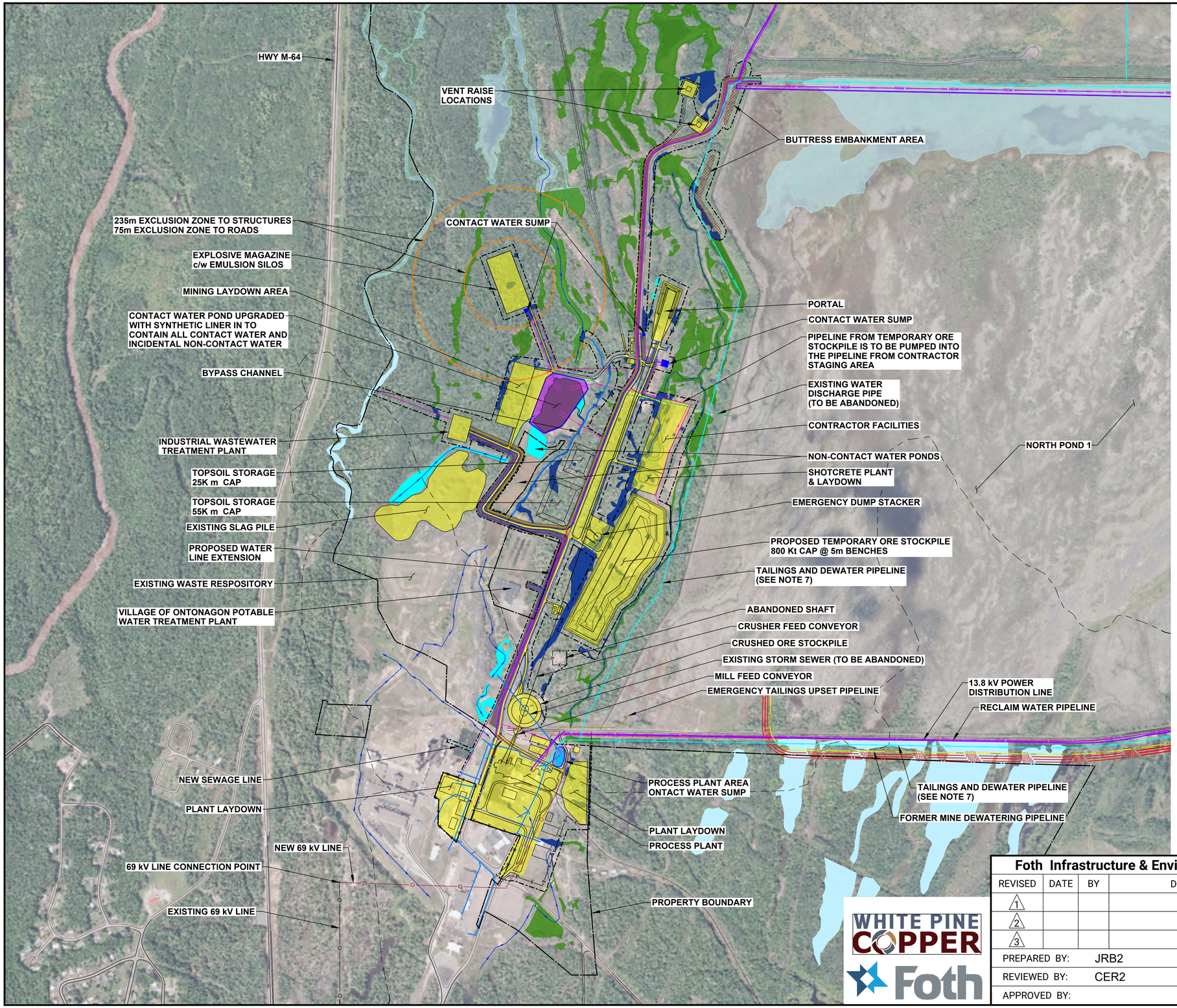
Scale: 0 1,500 3,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING STORM WATER PIPE
- EXISTING CHANNEL FLOW
- EXISTING STORMWATER PIPE
- EXISTING WATER AREA
- EXISTING DELINEATED WETLAND
- EXISTING NON-REGULATED DELINEATED WETLAND
- IMPACTED WETLAND
- PROPOSED ROAD
- NEW 13.8kV UNDERGROUND LINE
- NEW 13kV OH LINE
- NEW 69kV LINE
- PROPOSED WATER LINE
- NEW DISCHARGE PIPE
- PROPOSED CONTACT WATER POND (NON-REGULATED WETLAND)
- PROPOSED CONTACT WATER FACILITY AREAS
- PROPOSED BYPASS CHANNEL
- PROPOSED CULVERT
- PROPOSED SUMP
- PROPOSED DRAINAGE DITCH
- PROPOSED DISCHARGE PIPING W/ 5 METER SETBACK
- PROPOSED ROAD CORRIDOR FOR PIPING (SEE NOTE 6)
- APPROXIMATE LIMITS OF DISTURBANCE
- SOUTH POND DIVERSION PIPELINE
- RECLAIM WATER PIPELINE
- TAILINGS PIPELINE
- FORMER MINE DEWATERING PIPELINE
- ONTANOGAN WTP TO UG PORTAL
- ONTONAGON WTP TO RAW WATER TANK
- POTABLE WATER TO BUILDINGS
- SEWERLINE - BUILDINGS TO LIFT STATION
- TRUCK SHOP TO PLANT POND
- UG PORTAL TO NORTH POND
- USWP B TAILINGS CORRIDOR
- WATER PLANT NORTH POND
- WPC WTP TO UG WATER TANK
- WPC WTP TO UG PORTAL

NOTES:

1. BASE AIR PHOTO FROM LATEST BING AERIAL IMAGES.
2. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
3. HYDROGRAPHIC FROM USGS.
4. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
5. TOPOGRAPHY AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1'.
6. ROAD CORRIDOR SHALL CONTAIN ALL THE PROPOSED PIPING.
7. RECLAIM AND TAILINGS PIPELINES ARE CONTAINED WITHIN THE PERIMETER BERM OF THE TAILINGS FACILITY. THEY ARE SHOWN OUTSIDE FOR CLARITY ONLY. THE FORMER MINE DEWATERING PIPELINE IS LOCATED WITHIN THE CONTAINMENT BERM ALONG THE SOUTH EDGE OF THE THE TAILINGS FACILITY AND THEN TRANSITIONS OUTSIDE OF THE PERIMETER BERM ON THE EAST SIDE.

50 0 50 100 150 200 250 300m
SCALE

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REVISED	DATE	BY	DESCRIPTION
1			
2			
3			
PREPARED BY: JRB2		DATE: AUG.'26	
REVIEWED BY: CER2		DATE: AUG.'26	
APPROVED BY:		DATE:	

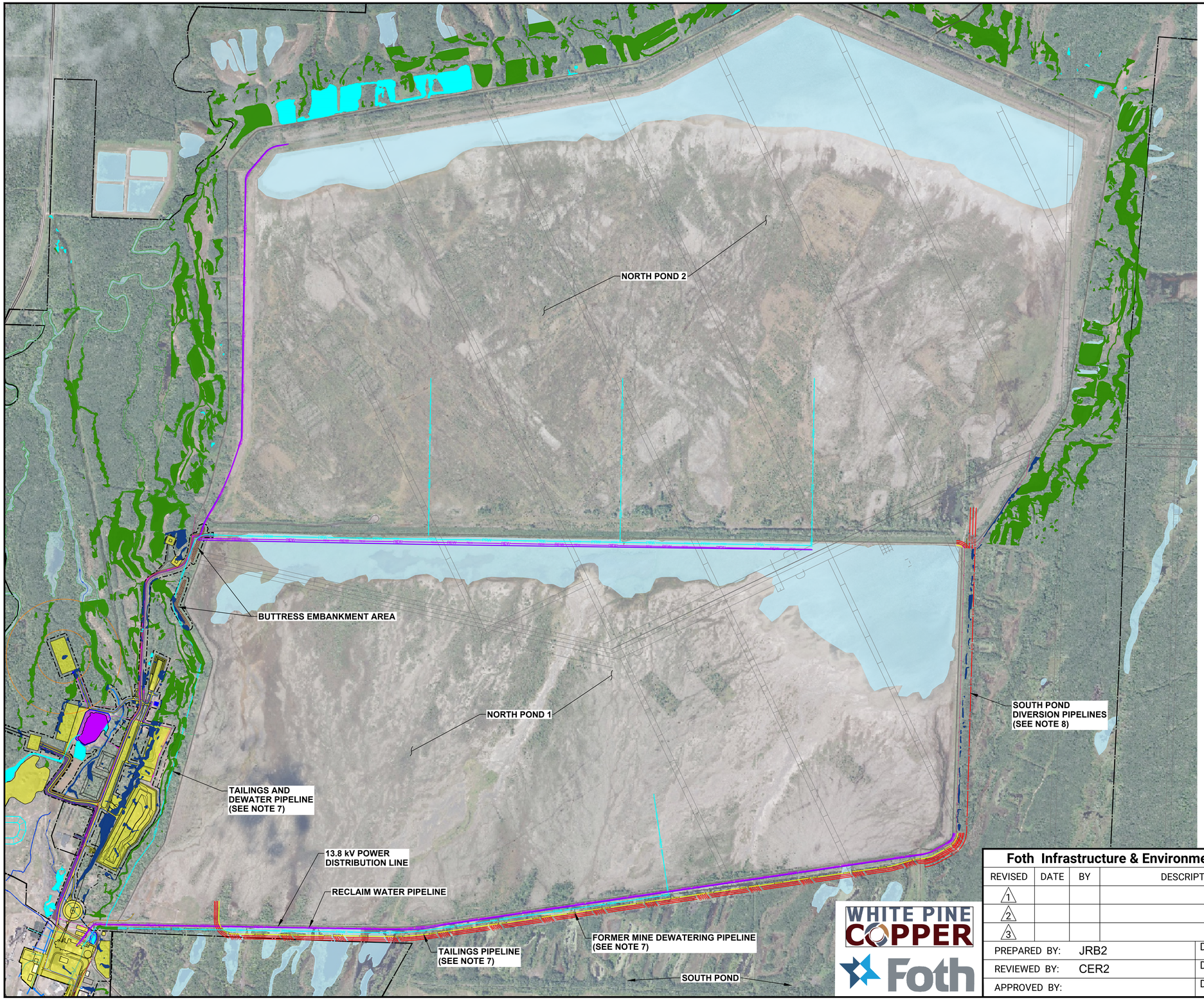
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FIGURE 3-21

AREA OF ANTICIPATED WETLAND AND FLOODPLAIN IMPACTS SURFACE FACILITY

Scale: SEE BAR SCALE	Date: AUG. 2026
Drafted By: JRB2	Project: 25W006

Wednesday, September 2, 2026 1:54:03 PM
DWG Filename: figs 3-21_3-22 area of anticipated wetland floodplain impacts.dwg Layout: fig 3-21
DWG Folder Location:



N

LEGEND

- APPROXIMATE PROPERTY LINE
- EXISTING ROADWAY
- EXISTING ELECTRIC LINE
- EXISTING STORM WATER PIPE
- EXISTING CHANNEL FLOW
- EXISTING STORMWATER PIPE
- EXISTING WATER AREA
- EXISTING DELINEATED WETLAND
- EXISTING NON-REGULATED DELINEATED WETLAND
- IMPACTED WETLAND
- PROPOSED ROAD
- NEW 13.8kV UNDERGROUND LINE
- NEW 13kV OH LINE
- NEW 69kV LINE
- W — PROPOSED WATER LINE
- SS — NEW DISCHARGE PIPE
- PROPOSED CONTACT WATER POND (NON-REGULATED WETLAND)
- PROPOSED CONTACT WATER FACILITY AREAS
- PROPOSED BYPASS CHANNEL
- PROPOSED CULVERT
- PROPOSED SUMP
- PROPOSED DRAINAGE DITCH
- PROPOSED DISCHARGE PIPING
- PROPOSED ROAD CORRIDOR FOR PIPING (SEE NOTE 6)
- APPROXIMATE LIMITS OF DISTURBANCE
- BYPA — SOUTH POND DIVERSION PIPELINE
- REW — RECLAIM WATER PIPELINE
- PRW — TAILINGS PIPELINE
- BYPA — FORMER MINE DEWATERING PIPELINE
- ONTANOGAN WTP TO UG PORTAL
- ONTONAGON WTP TO RAW WATER TANK
- POTABLE WATER TO BUILDINGS
- SEWERLINE - BUILDINGS TO LIFT STATION
- TRUCK SHOP TO PLANT POND
- UG PORTAL TO NORTH POND
- USWP B TAILINGS CORRIDOR
- WATER PLANT NORTH POND
- WPC WTP TO UG WATER TANK
- WPC WTP TO UG PORTAL

NOTES:

1. BASE AIR PHOTO FROM LATEST BING AERIAL IMAGES.
2. HORIZONTAL COORDINATE SYSTEM IS NAD 1983 UTM ZONE, 16N, UNITS IN METERS.
3. HYDROGRAPHIC FROM USGS.
4. ROAD AND BOUNDARY DATA FROM MICHIGAN GIS OPEN DATA AND THE USFS.
5. TOPOGRAPHY FROM AND PLANIMETRIC FEATURES FROM QUANTUM SPATIAL (2014). CONTOUR INTERVAL = 1'.
6. ROAD CORRIDOR SHALL CONTAIN ALL THE PROPOSED PIPING.
7. RECLAIM AND TAILINGS PIPLINES ARE CONTAINED WITHIN THE PERIMETER BERM OF THE TAILINGS FACILITY. THEY ARE SHOWN OUTSIDE FOR CLARITY ONLY. THE FORMER MINE DEWATERING PIPELINE IS LOCATED WITHIN THE CONTAINMENT BERM ALONG THE SOUTH EDGE OF THE TAILINGS FACILITY AND THEN TRANSITIONS OUTSIDE OF THE PERIMETER BERM ON THE EAST SIDE.
8. THE PIPING ALONG THE EAST SIDE OF NORTH POND 1 ARE NOT SHOWN TO CLEARLY DISPLAY THE IMPACTED WETLANDS. THE WETLAND IMPACTS ARE DERIVED FROM DESIGN PIPING LOCATIONS BASED ON A 60' WIDTH OF PLACEMENT.

125 0 125 250 375 500 625 750 875 1,000m
SCALE

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2			
3			

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APPROVED BY:		DATE:

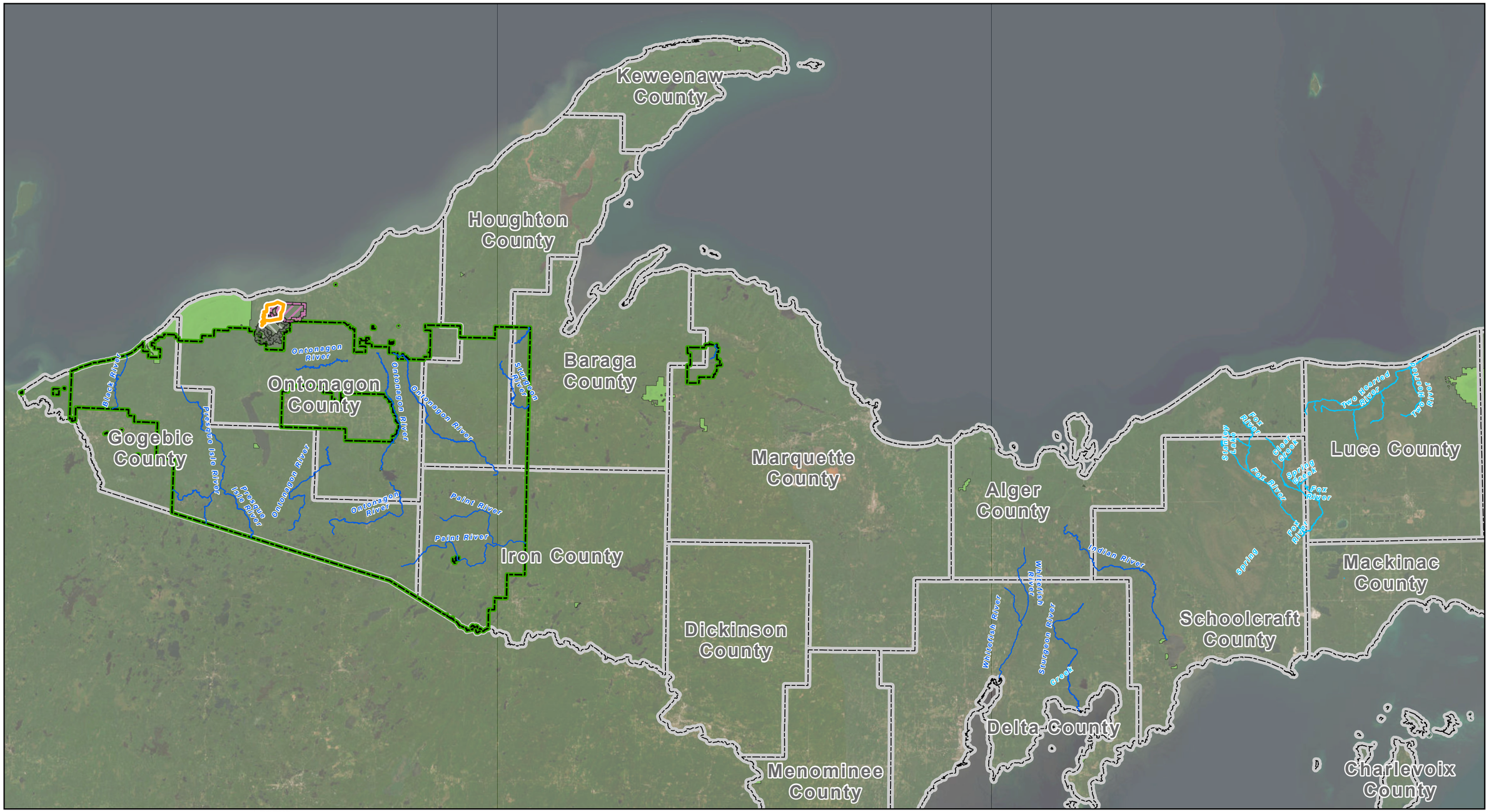
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FIGURE 3-22

AREA OF ANTICIPATED
WETLAND AND FLOODPLAIN IMPACTS
NP1 & NP2

Scale: SEE BAR SCALE	Date: AUG. 2026
Drafted By: JRB2	Project: 25W006

Friday, September 4, 2026 3:11:36 PM
DWG Filename: figs 3-21_3-22 area of anticipated wetland floodplain impacts.dwg Layout: fig 3-22
DWG Folder Location:



NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. National Wild and Scenic River supplied by US Forest Service, National Park Service, Bureau of Land Management, and the US Fish and Wildlife Service.

LEGEND

- Natural Rivers
- National Wild and Scenic Rivers
- Proposed Project Surface Extent
- Historic Underground Mine Workings
- Proposed White Pine North Underground Mine Area

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APPROVED BY:	CER2			DATE:	AUG. '26

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FIGURE 3-23

WILD AND SCENIC RIVERS (FEDERAL WSRA)
ENVIROMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

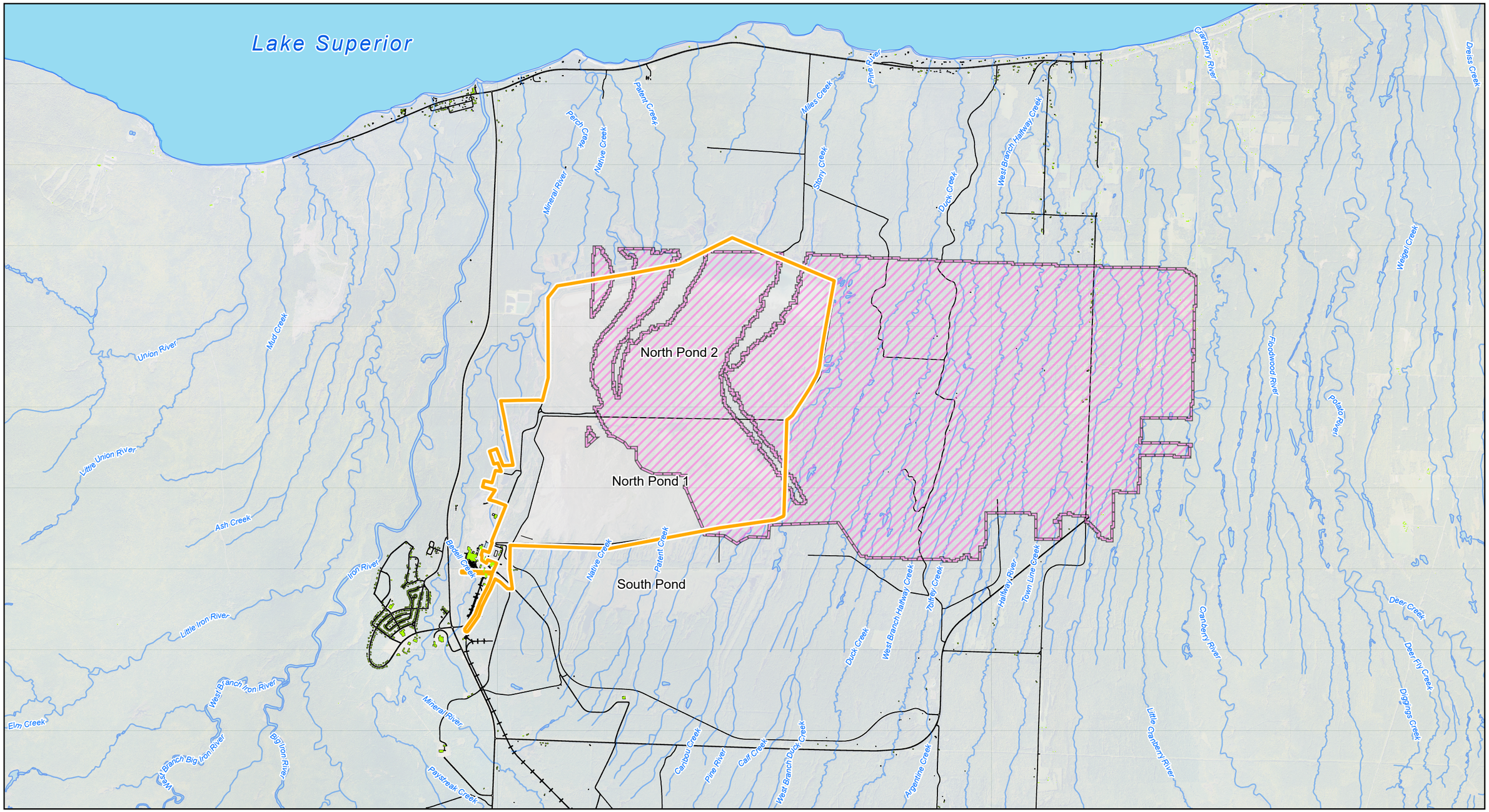
Scale: 0 8 16 Miles

Date: JUNE 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Topographic and planimetric data from Quantum Spatial, 2014.
5. Building Footprints supplied by Microsoft Maps.

LEGEND

- Building Footprints
- Road, Building, Bridge, Slab, Silo, Pad, Etc.
- Railroad
- River/Stream
- Lake/Pond
- Proposed Project Surface Extent

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FIGURE 3-24
PUBLIC AND PRIVATE BUILDINGS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

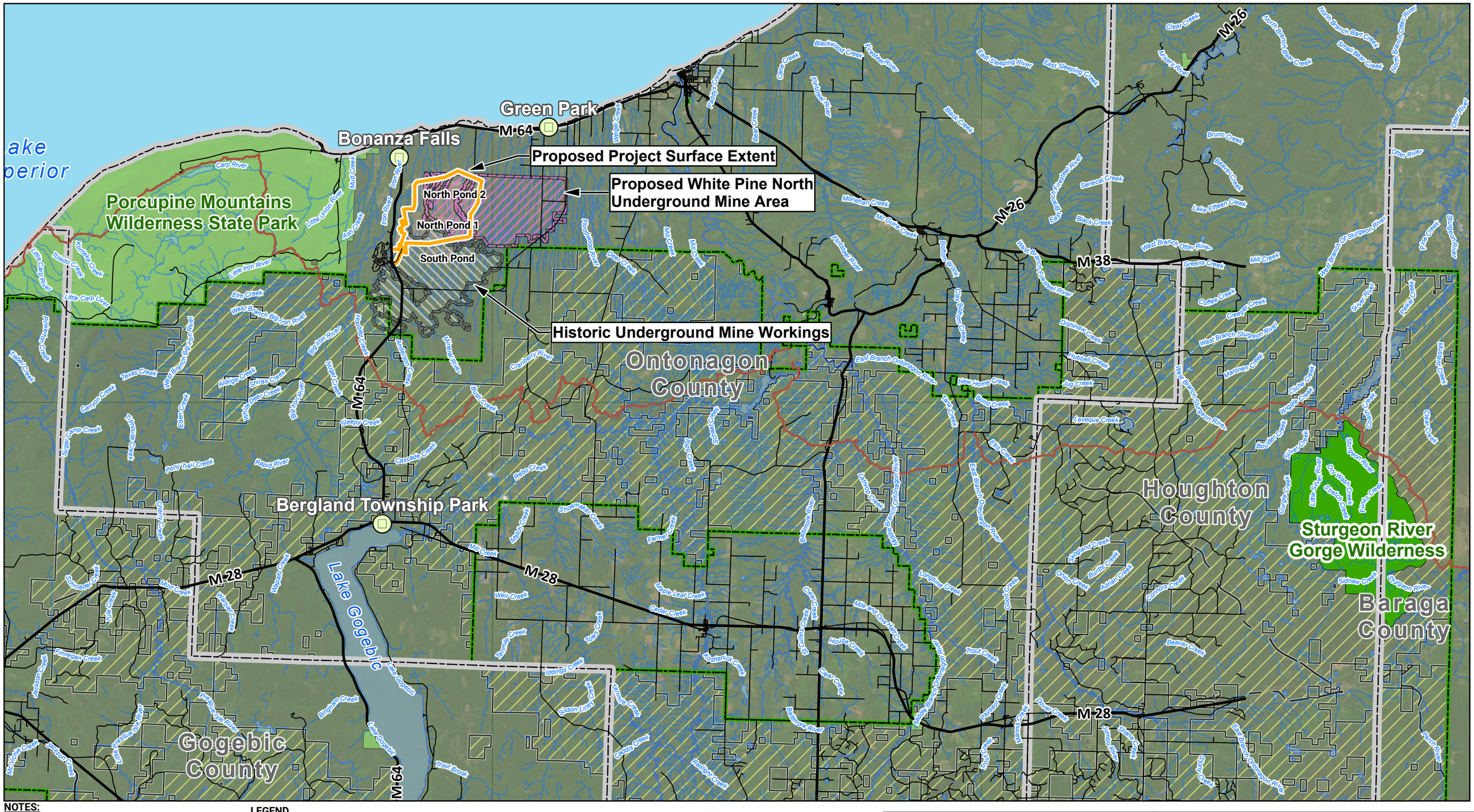
Scale: 0 2,500 5,000 Feet

Date: JUNE 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Protected lands supplied by Michigan DNR Open Data, Michigan Natural Areas Program (MNAP), Protected Areas Database of the United States (PAD-US), and U.S. Forest Service protected lands datasets

LEGEND

- Parks
- North County Trail
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area
- Historic Underground Mine Workings
- County Boundary
- Ottawa National Forest Boundary
- Porcupine Mountains Wilderness State Park
- Sturgeon River Gorge Wilderness
- USDA Forest Service Owned Property

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FIGURE 3-25

PUBLIC RECREATION AREAS AND PROTECTED LANDS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

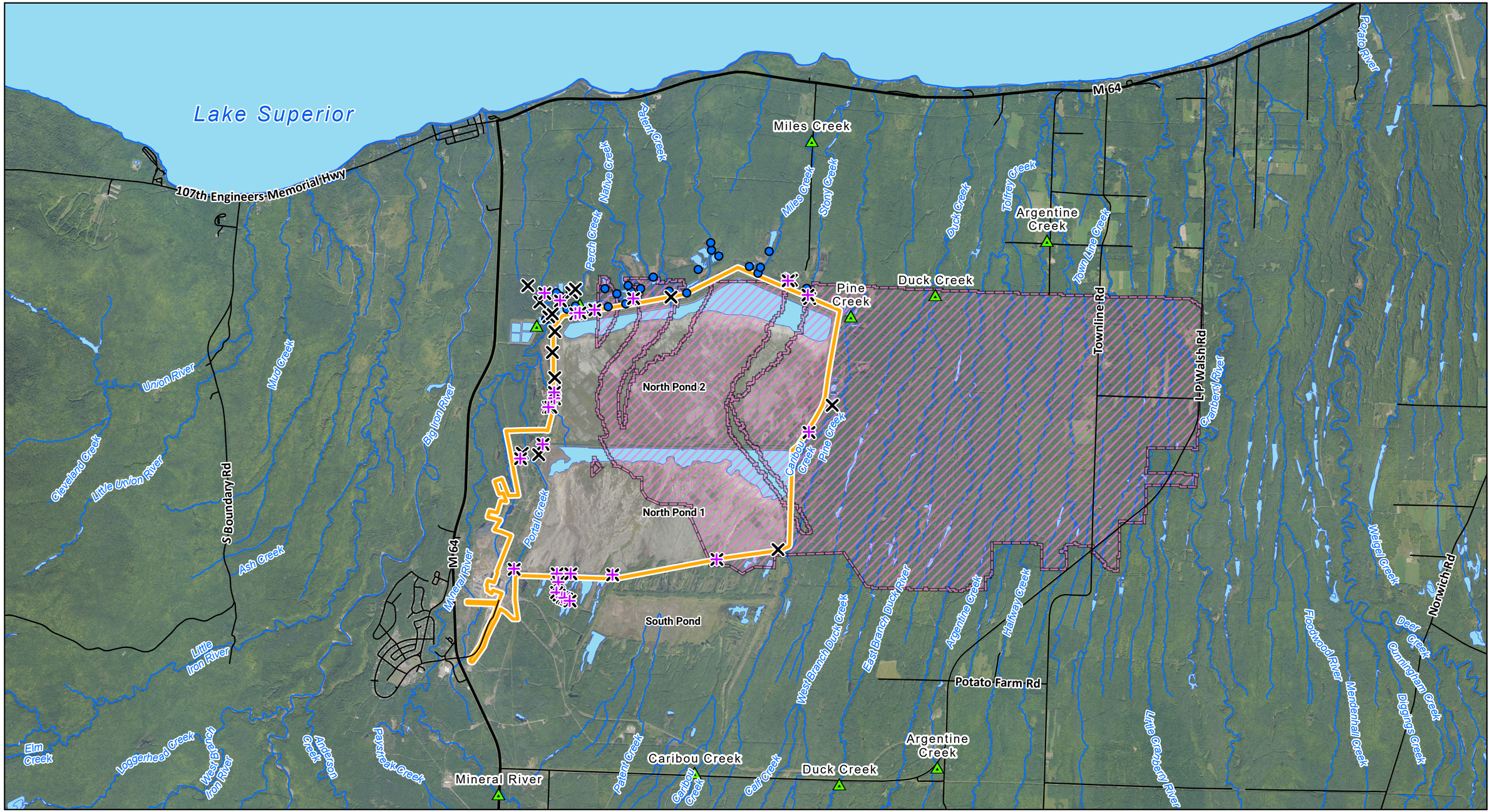
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Date: JUNE 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.
5. Pond Sample Locations supplied by AEM in 2025.
6. Reptile and Amphibian Locations supplied by AEM in 2024.

LEGEND

- Stream Sample Location
- Pond Sample Location (2025)
- Amphibian Survey Location (2024)
- Reptile Survey Location (2024)
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area

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FIGURE 3-26

AQUATIC SAMPLING STATION LOCATIONS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 2,500 5,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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PLANT COMMUNITIES LEGEND

Weland
- Northern Hardwood Swamp
- Northern Shrub Thicket
- Northern Wet Meadow
- Emergent Marsh
- Submergent Marsh

Upland
- Mesic Northern Forest - Early Successional
- Mesic Northern Forest - Mature
- Upland Meadow

Uncategorized
- Developed
- Open Water

North Pond 2
North Pond 1
South Pond
M 64
L P Walsh Rd
Iron River
Mineral River
Perch Creek
Patent Creek
Miles Creek
Stony Creek
Pine River
Argentine Creek
Cranberry River
Little Iron River
Native Creek
Caribou Creek
Calf Creek
Duck Creek
West Branch Halfway Creek
Tolkey Creek
Halfway River
Town Line Creek
Little Cranberry River
Bedsil Creek

NOTES:
1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Land Cover and Natural Community Types data provided by Stantec.

LEGEND
- Lake/Pond
- River/Stream
- Major Road
- Minor Road
- Proposed Project Surface Extent

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APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-27

LAND COVER AND NATURAL COMMUNITY TYPES
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

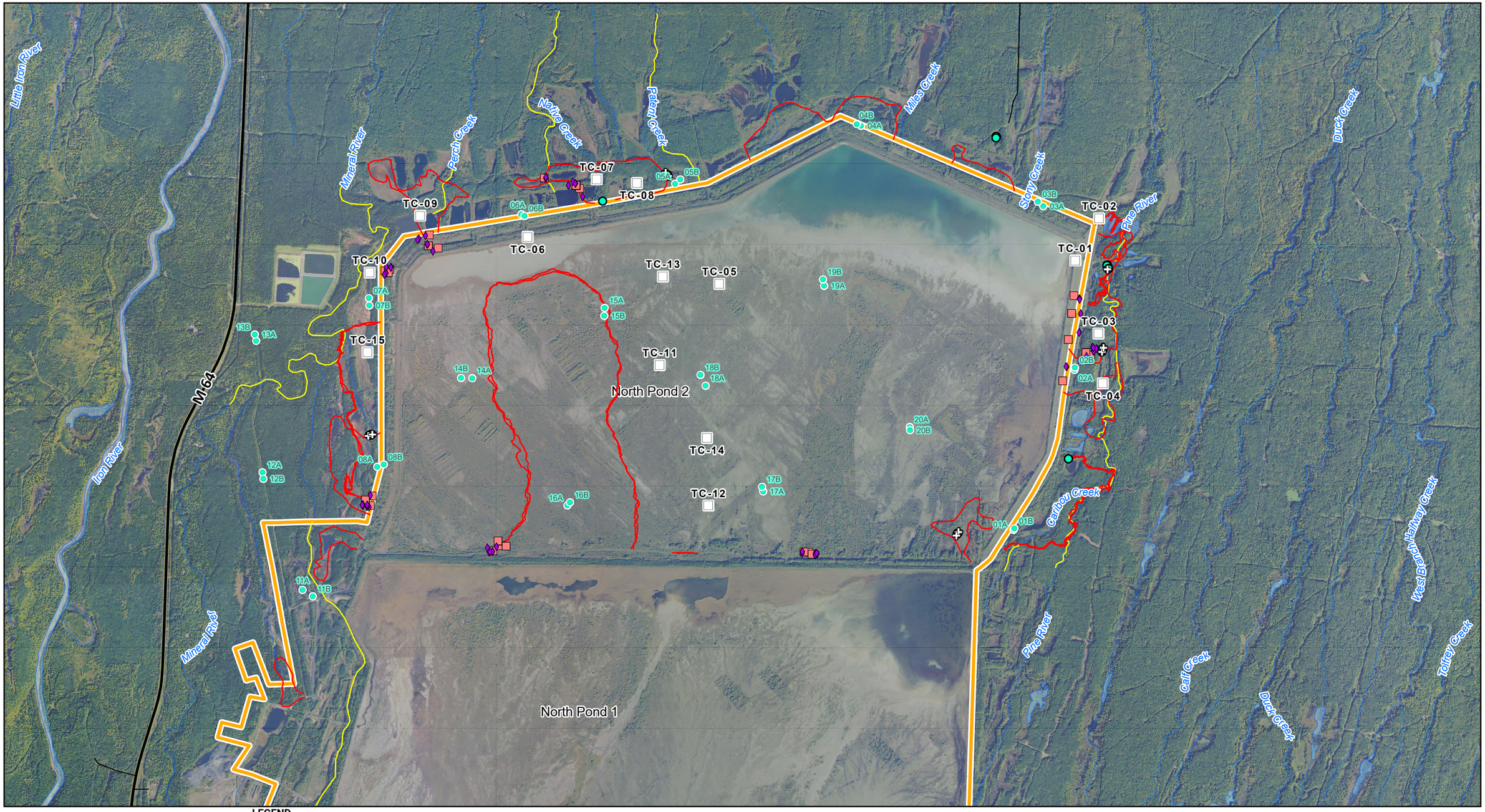
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Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Land Cover and Natural Community Types data provided by Stantec.

LEGEND

- Scent Station and Trail Camera
- Acoustic Monitoring Location
- Cover Board
- Funnel Trap
- Pitfall / Drift Fence
- Sherman Trap
- Survey Routes
- Survey Routes Pedestrian
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Proposed Project Surface Extent

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APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-28

MAMMAL, BAT, REPTILE, AND AMPHIBIAN SURVEY LOCATIONS & OBSERVATIONS ENVIRONMENTAL IMPACT ASSESSMENT WHITE PINE NORTH, ONTONAGON COUNTY, MI

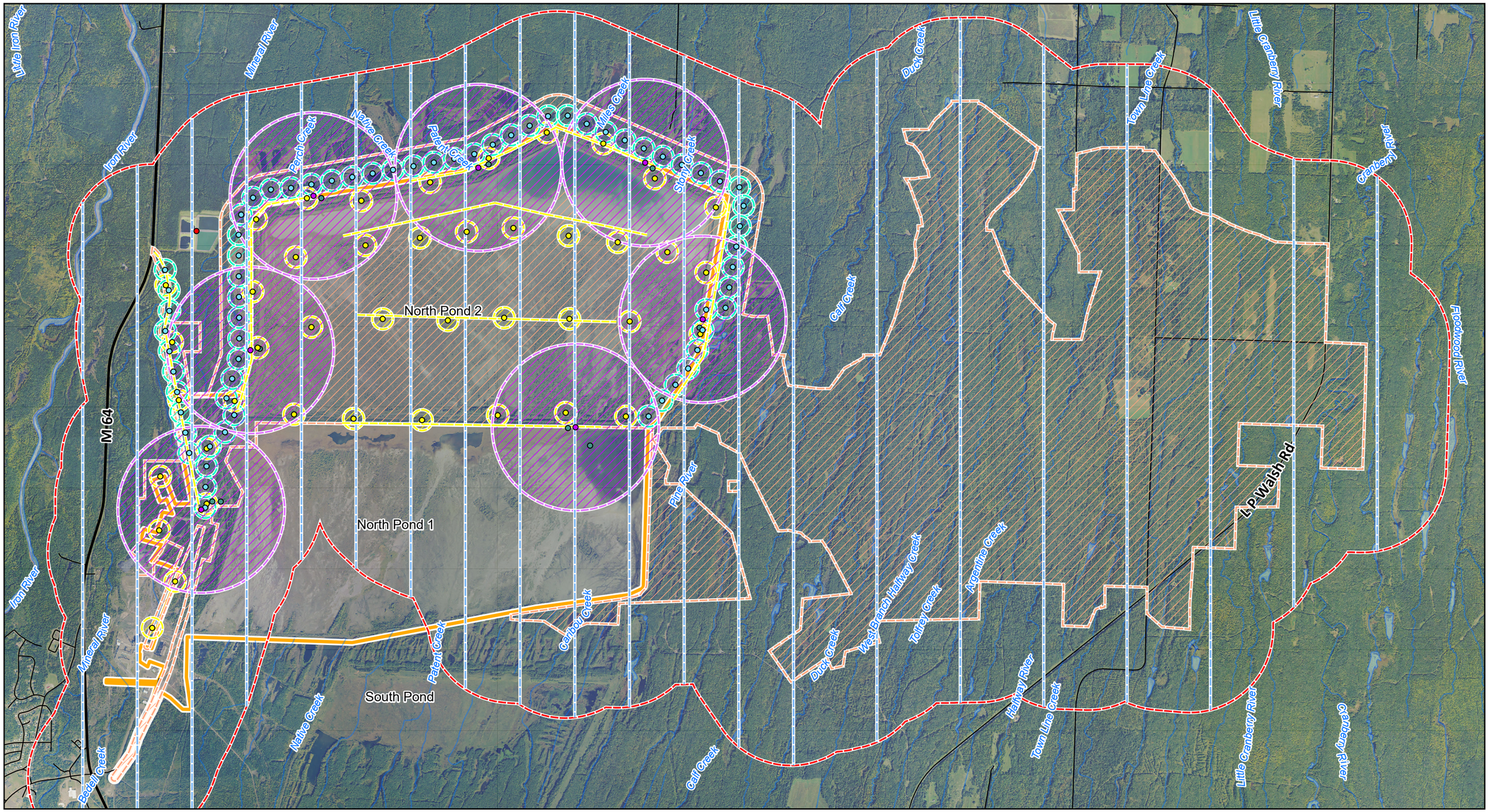
Scale: 0 1,000 2,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Bird Survey location and observation data provided by Stantec.

LEGEND

- Owl Nightjar
- Northern Goshawk
- Breeding Bird
- Owl Observations
- Bald Eagle Observations
- Owl Nightjar 1/2 Mi Buffer
- Northern Goshawk 100 m Buffer
- Breeding Bird 100 m Buffer
- Eagle Raptor 1/2 Mi Buffer
- Survey Area Eagle Raptor
- Proposed Project Surface Extent
- River/Stream
- Lake/Pond
- Major Road
- Minor Road

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PREPARED BY: DAT		DATE: AUG. '26	
REVIEWED BY: NAA2		DATE: AUG. '26	
APPROVED BY: CER2		DATE: AUG. '26	

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FIGURE 3-29

BIRD SURVEY LOCATIONS & OBSERVATIONS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

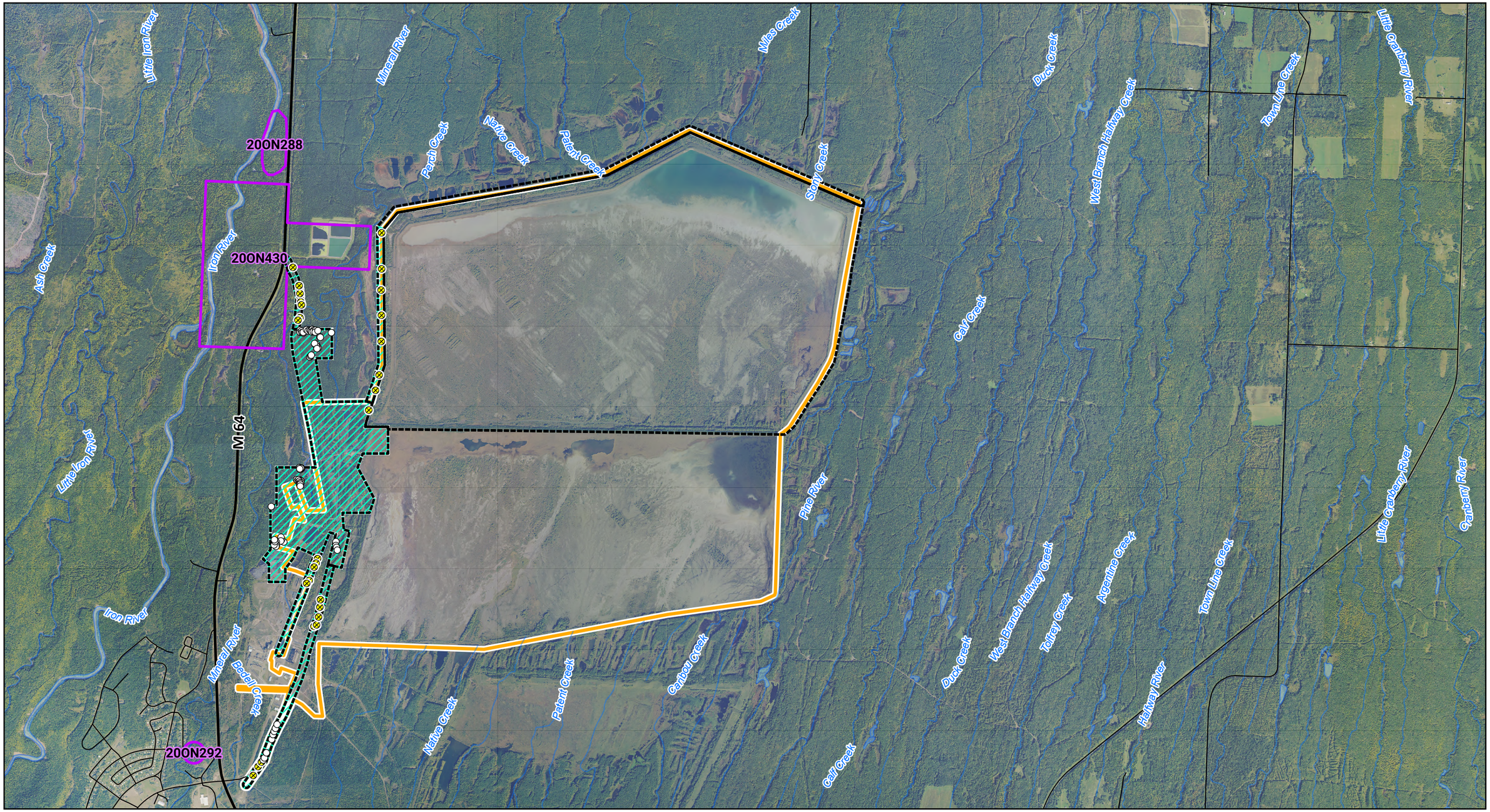
Scale: 0 1,500 3,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Cultural Data from Gray and Pape, Inc., 2024: Phase I Archaeological Investigations for the White Pine Copper North Project, Ontonagon County, Michigan

LEGEND

Shovel Test Location
- Shovel Test – Positive
- Shovel Test – Disturbed

Inundated/Disturbed
Previously Identified Sites
Area of Potential Effects (APE)
Proposed Project Surface Extent
Lake/Pond
River/Stream
Major Road
Minor Road

N

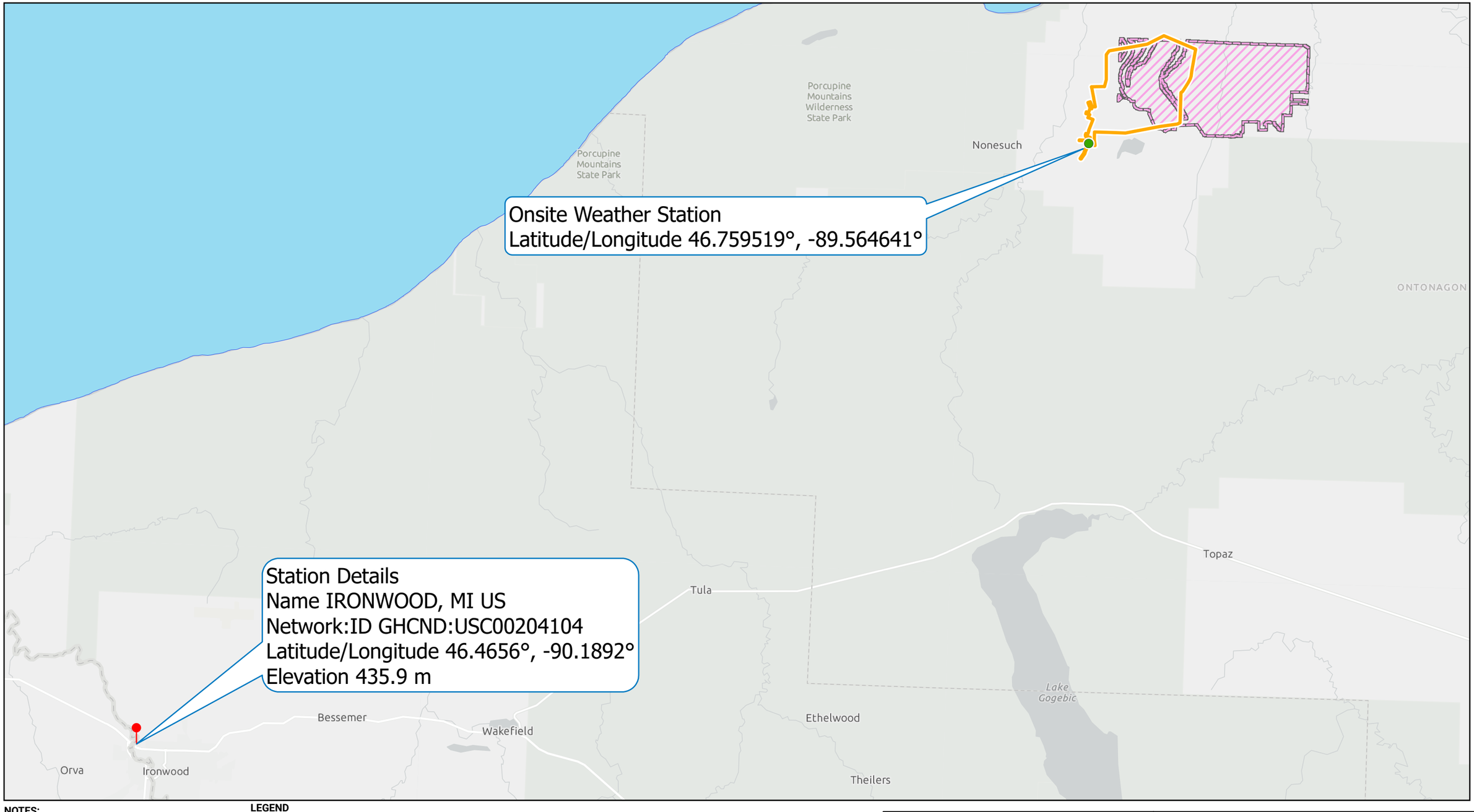
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REVIEWED BY:	NAA2		DATE:	AUG. '26	
APPROVED BY:	CER2		DATE:	AUG. '26	

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FIGURE 3-30
CULTURAL RESOURCES - GENERAL STUDY AREA
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 1,500 3,000 Feet
Date: JUNE 2026
Drafted By: DAT
Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.

LEGEND

- Onsite Weather Station
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area

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REVIEWED BY:	NAA2	DATE:	AUG. '26
APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-31
METEOROLOGICAL WEATHER STATION
ENVIROMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

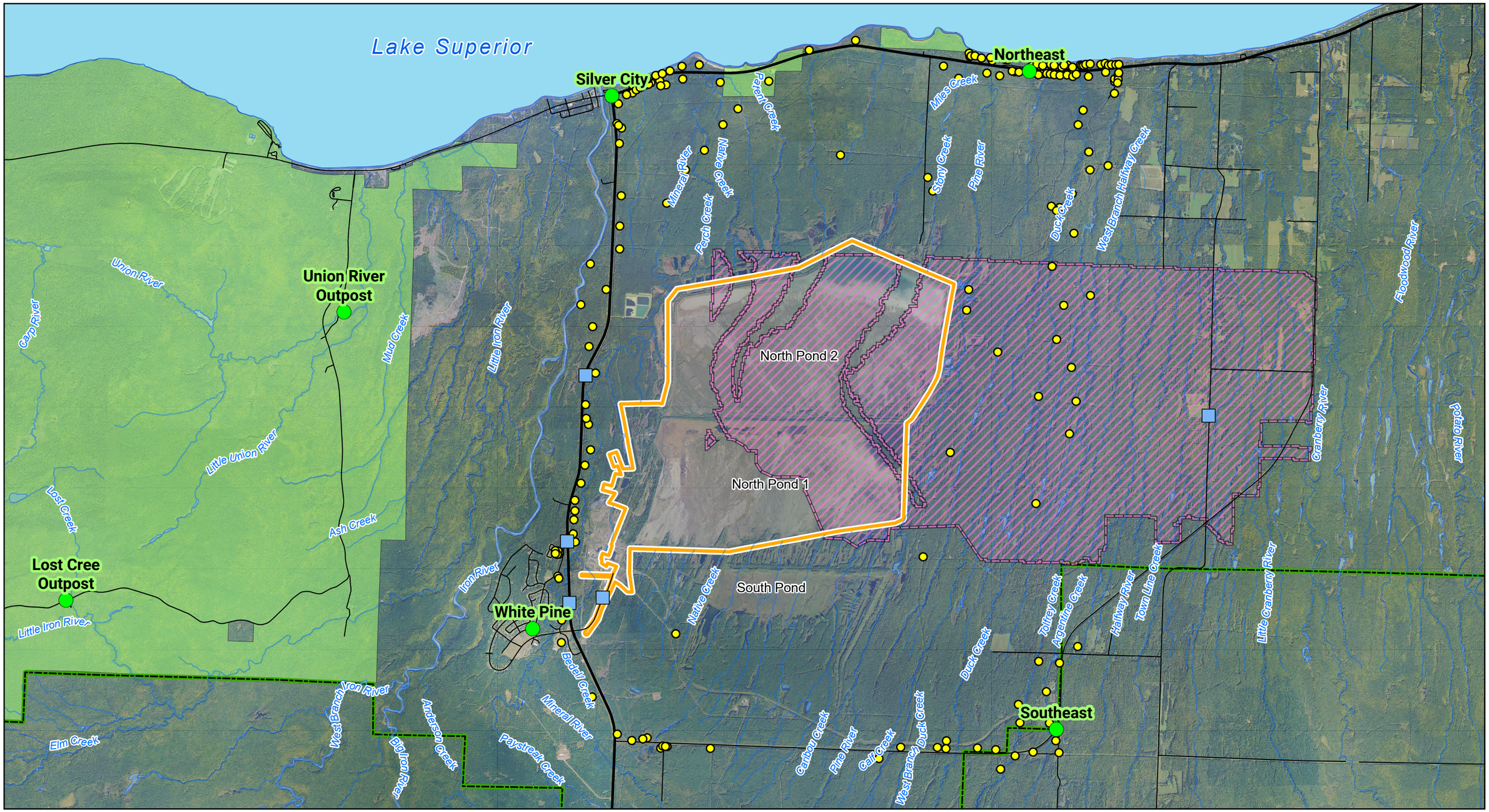
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Date: JUNE 2026

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Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Locations and Sensitive Receptors supplied by Stantec (2026)

LEGEND

- Key Observation Points (KOPs)
- Baseline Light Monitoring Locations
- Sensitive Receptors
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Ottawa National Forest Boundary
- Porcupine Mountains Wilderness State Park
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area

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PREPARED BY:	DAT	DATE:	AUG. '26
REVIEWED BY:	NAA2	DATE:	AUG. '26
APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-32

NEARBY POTENTIAL RECEPTORS AND BASELINE LIGHT MONITORING LOCATIONS ENVIRONMENTAL IMPACT ASSESSMENT WHITE PINE NORTH, ONTONAGON COUNTY, MI

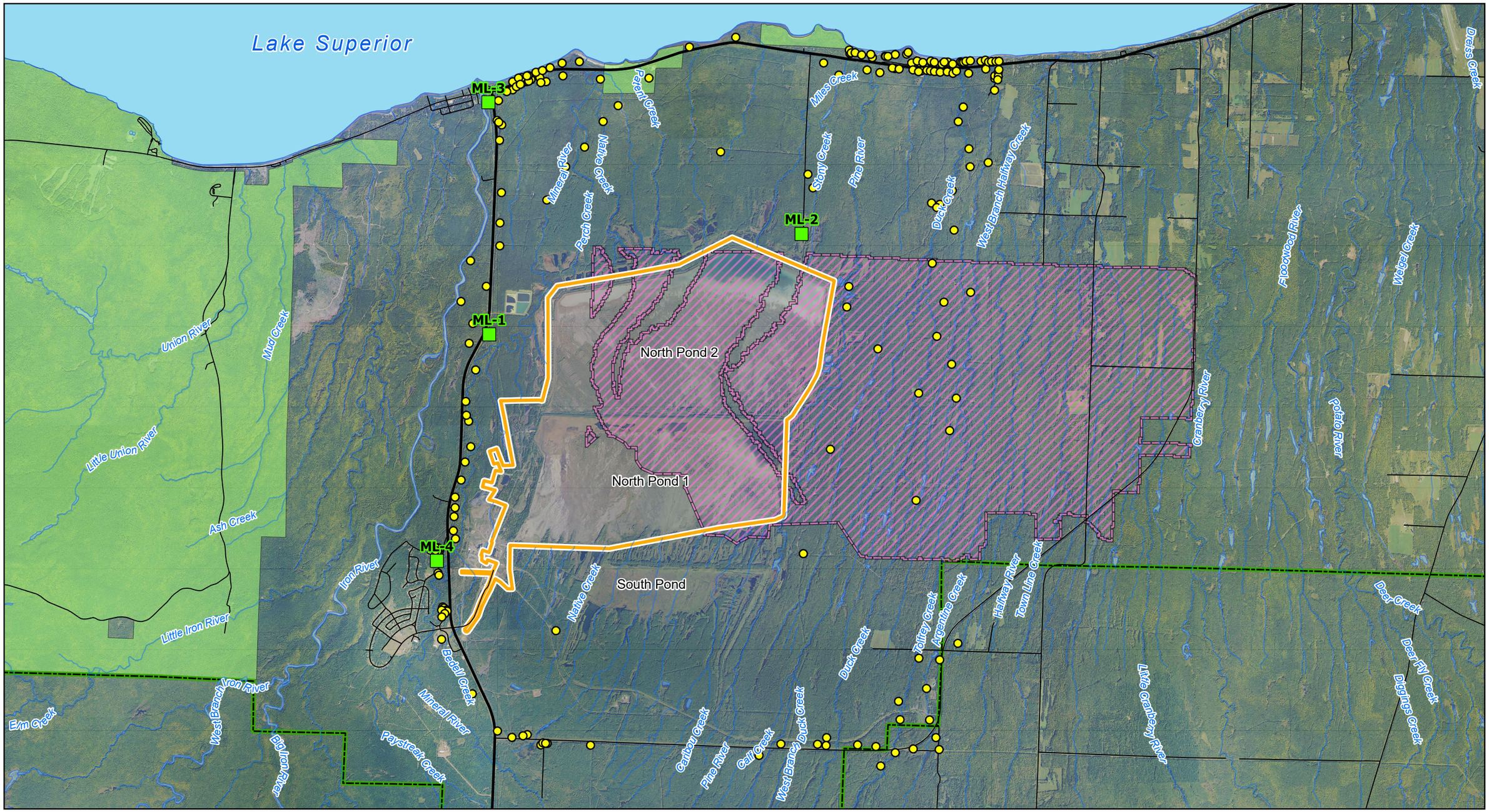
Scale: 0 2,500 5,000 Feet

Date: JULY 2026

Drafted By: DAT

Project: 25W006

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NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Sound Measurement Locations and Sensitive Receptors supplied by Stantec (2026)

LEGEND

- Sound Measurement Locations
- Sensitive Receptors
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Ottawa National Forest Boundary
- Porcupine Mountains Wilderness State Park
- Proposed Project Surface Extent
- Proposed White Pine North Underground Mine Area

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REVIEWED BY:	NAA2	DATE:	AUG. '26
APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-33
NOISE MONITORING LOCATIONS
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 2,500 5,000 Feet

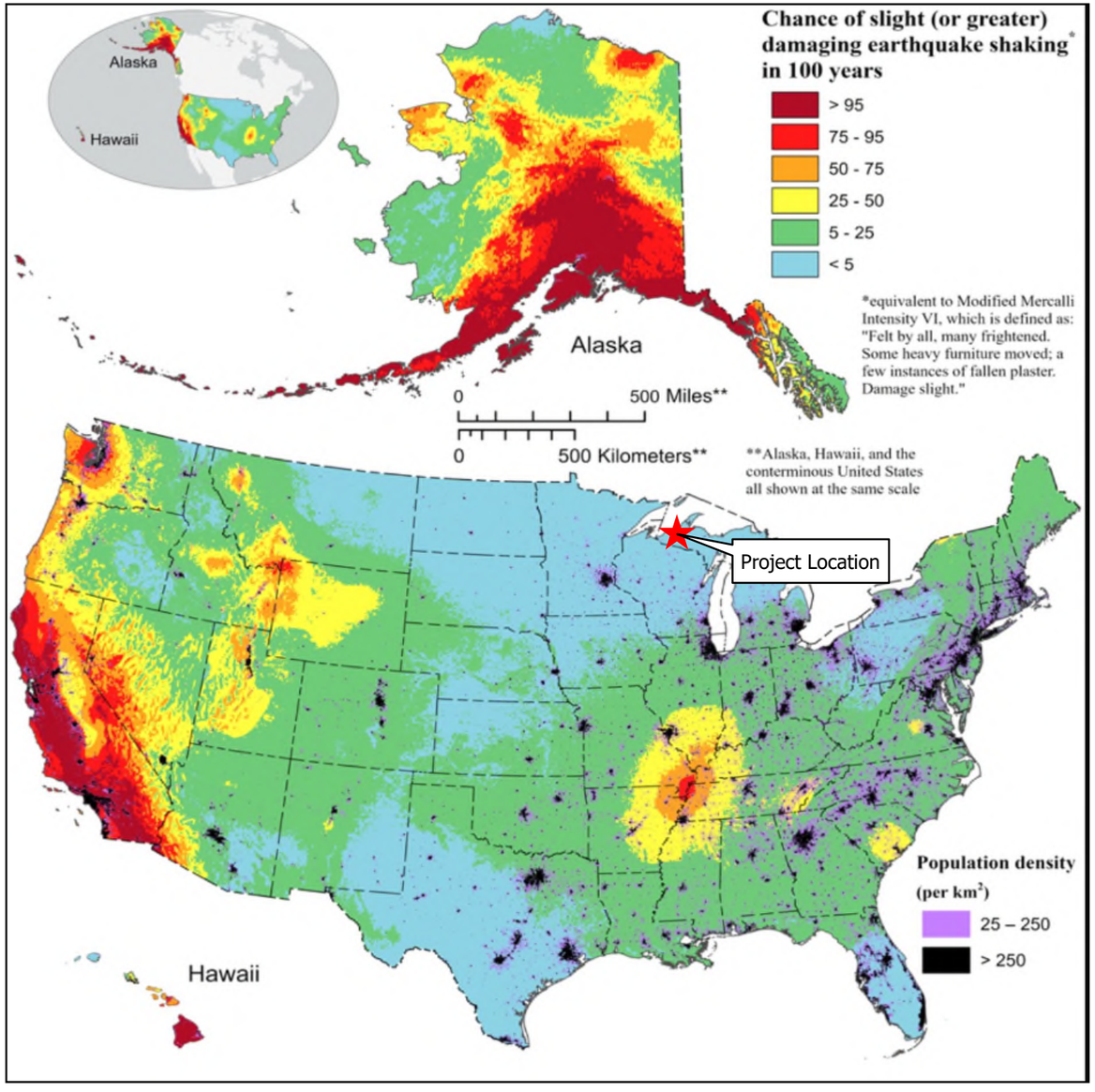
Date: JULY 2026

Drafted By: DAT

Project: 25W006

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2023 National Seismic Hazard Model



2014 Seismic Hazard Map Michigan



NOTES:

1. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
2. Road, boundary and hydrographic data from Michigan GIS Open Data.
3. Seismic graphics downloaded from USGS.

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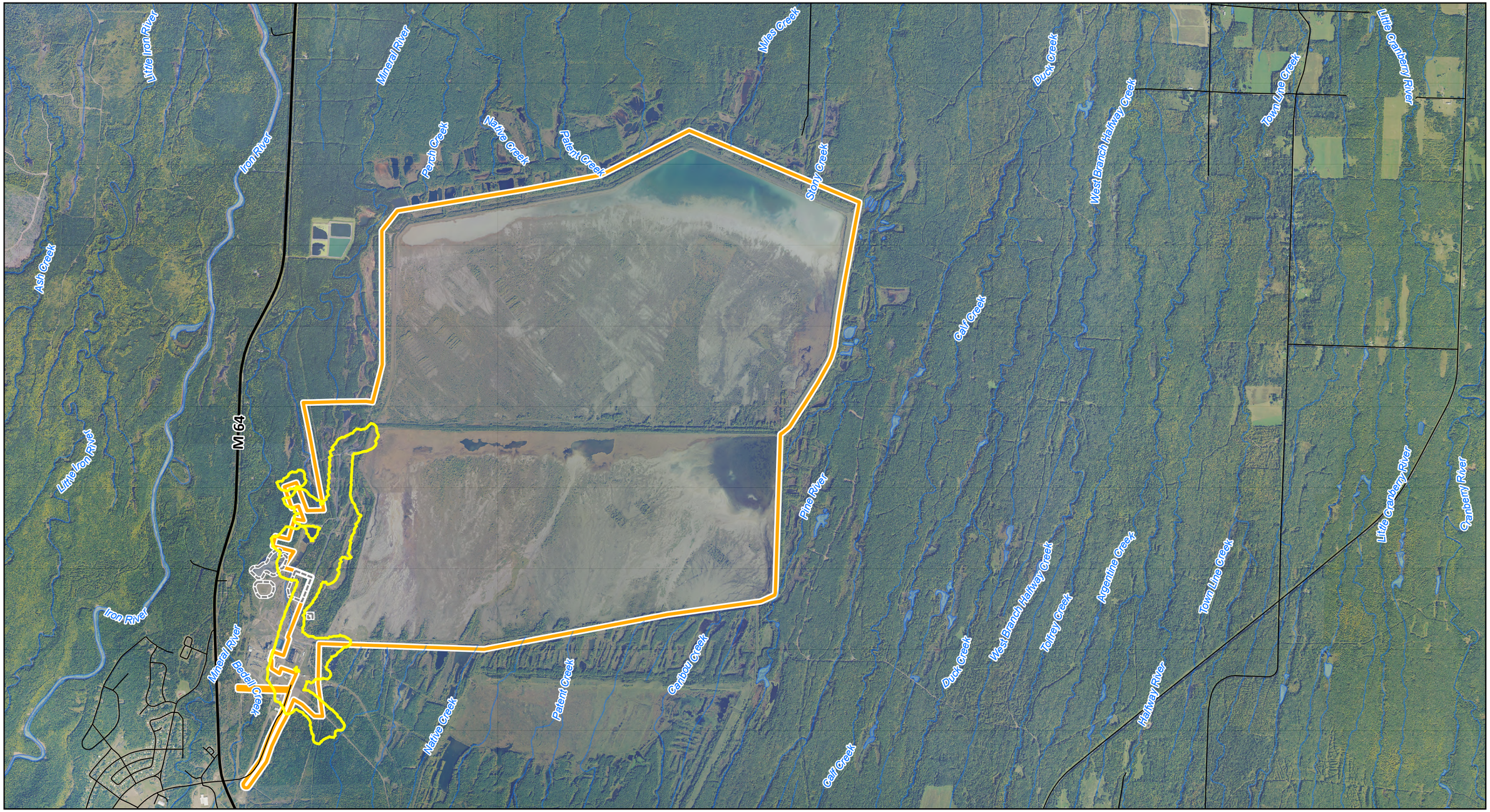
Foth Infrastructure & Environment, LLC			
REVISED	DATE	BY	DESCRIPTION

PREPARED BY:	DAT	DATE:	AUG. '26
REVIEWED BY:	NAA2	DATE:	AUG. '26
APPROVED BY:	CER2	DATE:	AUG. '26

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FIGURE 3-34
2023 NATIONAL SEISMIC HAZARD MODEL
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale:	AS SHOWN	Date:	JUNE 2026
Drafted By:	DAT	Project:	25W006



NOTES:

1. 2024 - 18in resolution air photo from the USDA NAIP.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Road, boundary and hydrographic data from Michigan GIS Open Data.
4. Predicted Illuminance Contour provided by Stantec, 2026.

LEGEND

- Predicted Illuminance Contour
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Proposed Project Surface Extent
- Existing Site Feature

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FIGURE 3-35
PREDICTED ILLUMINANCE LEVELS
FROM PROJECT LIGHTING
ENVIRONMENTAL IMPACT ASSESSMENT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Scale: 0 1,500 3,000 Feet

Date: JUNE 2026

Drafted By: DAT

Project: 25W006

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Appendix A

EIA Checklist

Environmental Impact Assessment Checklist

Rule 425.202 Seq.	Rule 425.202 Seq. Environmental Impact Assessment Requirements	Location in Application
1a	EIA requirements for each condition and feature listed in subrule (2)	Section 3
1a(i)	Description of condition or feature	Sections 3.1-3.20
1a(ii)	Mining activity that may affect the condition or feature	Sections 3.1-3.20 (Proposed Mining Activities subsections)
1a(iii)	Potential impacts and effects on the condition or feature and, where applicable, the effects of the conditions or feature on the mining activity	Sections 3.1-3.20 (Potential Impacts subsections)
1a(iv)	Mitigation measures	Sections 3.1-3.20 (Mitigation subsections)
1a(v)	Maps and photographs	Sections 3.1-3.20; Figures throughout Section 3; Appendices
1b	Cumulative impacts for each condition or feature listed in subrule (2)	Section 4
1c(i) - (iii)	Alternatives	Section 5
1d	Name of person(s) who prepared EIA	Section 1.2
1e	Methodologies	Section 1.3
1e(i)	QA/QC	Section 1.3
1e(ii)	Demonstrated appropriate and effective methodologies	Section 1.3
1f	Reference sources of information	Section 1.4
2	Requirements in Rule 202(2) for the following conditions and features	
2a	Topography	Section 3.1
2b	Soils series	Section 3.2
2c	Geology of bedrock and unconsolidated materials	Section 3.3
2d	Groundwater occurrence	Section 3.4
2d(i)	Thickness, k, connections between aquifers and surface water	Section 3.4
2d(ii)	Depth, recharge, flow direction, gradients, velocity, 3-D flow paths	Section 3.4
2d(iii)	Seasonal variations of d(ii) items	Section 3.4
2e	Surface water features (lakes, ponds, streams, etc.)	Section 3.5
2e(i)	Levels and/or discharge rates	Section 3.5
2e(ii)	Seasonal and long-term variations of levels and/or discharge rates	Section 3.5
2f	Site-wide water balance	Section 3.5; Section 3.4.6
2g	Groundwater and surface water quality	Sections 3.4, 3.5
2g(i)	Specific conductance	Sections 3.4, 3.5
2g(ii)	Temperature	Sections 3.4, 3.5
2g(iii)	Hydrogen ion concentration	Sections 3.4, 3.5
2g(iv)	Dissolved oxygen	Section 3.5
g(v)	Concentrations of the following:	
2g(v)(A)	Cations of calcium, sodium, magnesium, potassium and iron	Sections 3.4, 3.5
2g(v(B)	Anions of chloride, sulfate, and bicarbonate	Sections 3.4, 3.5
2g(v)(C)	Other dissolved elements and compounds associated with the mining activity	Sections 3.4, 3.5
2g(vi)	Predicted seasonal variations of parameters - 2g(i) - (v)	Sections 3.4.5, 3.5.3-3.5.5
2h	Existing, known groundwater contamination	Sections 3.4, 3.6
2i	Private water supply wells	Section 3.7
2j	Public water supply wells	Section 3.7
k	Irrigation and disposal wells	Section 3.7
2l	Designated wellhead protection areas	Section 3.7
2m	Floodplains, Great Lakes shorelines, wetlands	Section 3.8
2n	Natural Rivers, as defined in Section 30501	Section 3.9
2o	Wild and Scenic Rivers, per 1968 Public Law 90-542, 82 Stat. 906	Section 3.9
2p	Dwellings and other buildings for human occupancy all or part of year	Section 3.10
2q	Existing and proposed infrastructure and utilities	Section 3.11

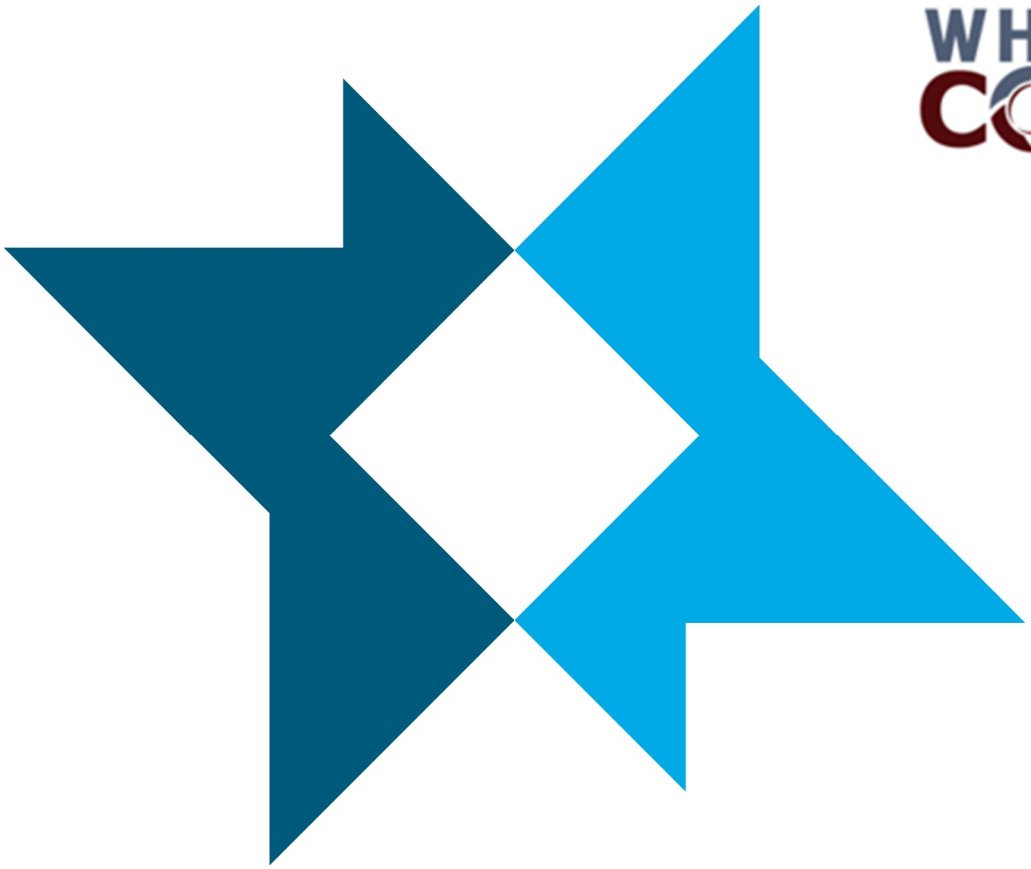
Environmental Impact Assessment Checklist

Rule 425.202 Seq.	Rule 425.202 Seq. Environmental Impact Assessment Requirements	Location in Application
2r	Public recreation areas	Section 3.12
2s	Natural areas, per R 324.35101	Section 3.12
2t	State Wilderness Areas, per MCL 324.35101	Section 3.12
2u	Federal Wilderness Areas, per 78 Stat. 890, 16 U.S.C. 1131	Section 3.12
2v	Wild areas, per MCL 324.35101	Section 3.12
2w	Research natural areas, per CFR Title 36, Section 251.23	Section 3.12
2x	Land uses, access, size/shape, current and historic trends	Section 3.13
2y	Aquatic and terrestrial flora/fauna species, variations (2 yrs of information)	Sections 3.14, 3.15
2z	Fish and wildlife habitats	Sections 3.14, 3.15
2aa	T & E species, per Act 365, per 1973 Act, and per Public Law 93-205, 87 Stat. 884	Section 3.16
2bb	Special concern species, per U.S. Forest Service Region 9	Section 3.16
2cc	Non-native or invasive plants and animals	Section 3.17
2dd	Ecological systems recognized in sources published	Section 3.15
2ee	Cultural, historical archaeological resources	Section 3.18
2ff	Air quality	Section 3.19
2gg	Meteorology, and predicted seasonal and long-term variations	Section 3.19
2hh	Visual resources	Section 3.20
2ii	Noise	Section 3.20
2jj	Light	Section 3.20
2kk	Seismisity	Section 3.20
3	For (d) groundwater, (e) surface water, (g) water quality, and (gg) meteorology, combination of 2 yrs data and statistical analysis	Sections 3.4, 3.5, 3.19
4	Description of Public Involvement	Section 1.5
5	Information required by other parts of the Act may be used in the EIA	Sections 1.5, 2-5, Appendices

Appendix B

Soil Sampling Report

Soil Sampling Report



White Pine Copper LLC
White Pine, Michigan

March 2026

Project ID: 23W200

Solving our clients' toughest science and engineering challenges.

Soil Sampling Report

Project ID: 23W200

Prepared for
White Pine Copper LLC
White Pine, Michigan

Prepared by
Foth Infrastructure & Environment, LLC

March 2026

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Soil Sampling Report

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Figure 6 Soil Sampling Locations – Northern Site Investigation Area
Figure 7 Soil Sampling Locations – East of Site Investigation Area

Appendices

Appendix A Field Forms
Appendix B Laboratory Analytical Data Reports
Appendix C Data Validation Report

List of Abbreviations, Acronyms, and Symbols

amsl	above mean sea level
bgs	below ground surface
DUP	duplicate
EB	equipment blank
EGLE	Michigan Department of Environment, Great Lakes, and Energy
Eurofins	Eurofins Environment Testing USA
FB	field blank
Foth	Foth Infrastructure & Environment, LLC
GPS	geographic positioning system
Highway 64	Michigan State Highway 64
IRA	Interim Remedial Action
NRCS	National Resource Conservation Service
PCB	polychlorinated biphenyls
QA/QC	quality assurance/quality control
QAPP	Quality Assurance Project Plan
Report	Soil Sampling Report
RI	Remedial Investigation
SOP	Standard Operating Procedure
SS	surface soil
SVOC	semi-volatile organic compound
the Site	study area including White Pine Mine, the location of proposed future mine operations, and the community of White Pine
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
WPC	White Pine Copper LLC

1. Introduction

White Pine Copper LLC (WPC), owned by Kinterra Copper USA LLC, is seeking to develop the brownfield site of White Pine Mine located approximately three miles south of Lake Superior, east of Michigan State Highway 64 (Highway 64), in Carp Lake Township, Ontonagon County, Michigan. White Pine Mine was part of the Upper Peninsula of Michigan's historical copper mining district. Underground mining on site began in the late 1800s. In 1952, the Copper Range Company began construction of a fully functioning underground mine and surface processing facilities including a concentrator, smelter, and refinery. Tailings were placed in three tailings areas: North Dam 1, North Dam 2, and the South Dam. Mining and processing ceased in 1997, and a State of Michigan Consent Decree was established.

WPC is planning to mine underground east of, and separate from, the historic underground mine workings of White Pine Mine. Copper ore will be extracted using conventional drill and blast room and pillar mining methods. A processing plant will be constructed on site to produce a copper concentrate, and processing will include crushing, grinding, flotation, concentrate thickening, and filtration. Tailings will be managed through the reuse of one or more of the existing tailings dams.

For purposes of this Soil Sampling Report (Report), the study area includes White Pine Mine and the location of proposed future mine operations, collectively referred to as the Site. The Site location is shown on Figure 1 and Figure 2.

1.1 Objectives and Purpose

This Report by Foth Infrastructure & Environment, LLC (Foth) provides the results of a surface soil sampling program aimed at understanding baseline metals concentrations in various areas of historic and future mining activities. Surface soil samples (0 to 6 inches below ground surface [bgs]) were collected in areas of previous mining activities to supplement previous soil sampling results, particularly those conducted as part of the Remedial Investigation (RI) as presented in the Remedial Investigation Report (RI Report) (MFG, 1999). Additional surface soil samples were collected in areas of proposed mine features including intake and exhaust raises, storage and stockpile areas, shop areas, processing areas, wastewater treatment plant, storm water pond, a laboratory, and the mine portal.

Ultimately, historical soil data and the data collected and presented in this Report help establish baseline metals concentrations in the area prior to the commencement of surface disturbing activities. The objective is not to further delineate or confirm previously identified shallow soil impacts, but to set a new baseline for areas that may have been remediated since prior sampling and for areas of potential impact from future mining activities. Foth has determined that the Site has been sufficiently characterized for compounds other than metals, such as pesticides, herbicides, polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs). It is unlikely that the soil distribution of these compounds extends beyond the areas identified in previous investigations. The concentrations of VOCs and SVOCs, where present, may have decreased since they were detected, but there have been no mechanisms in place by which the concentrations would have increased. Therefore, surface soils collected during this investigation were only analyzed for metals.

1.2 Scope of Investigation

The scope of work performed for the surficial soil sampling investigation conducted during September 2025 included:

- Surficial Soil Field Investigation
  - Surface Soil Sampling – Foth collected discrete surface soil samples (0 to 6 inches in depth) at pre-determined sample locations. Samples were collected using step probes or hand tools appropriate for the soil/material type encountered at each sample location. Samples were submitted to Eurofins Environment Testing USA (Eurofins) in Chicago, Illinois, for metals analysis.
  - Soil Description/Logging – Foth recorded detailed descriptions of soils encountered during sample collection. Soil descriptions are provided in Table 1.
- Analytical Data Validation
  - Analytical data is summarized in Table 2 and provided in Appendix A.
  - Foth performed data validation and verification on surface soil analytical data. Data validation and verification reports are provided in Appendix B.

1.3 Report Organization

This report describes existing soil conditions at the Site based on publicly available data and historical knowledge, field sampling activities, data acquisition, data analyses, and reporting efforts completed at White Pine Mine in 2025.

This report is organized into the following sections:

- Section 2 provides an overview of site characteristics and a summary of the National Resource Conservation Service (NRCS) soil data for the Site.
- Section 3 provides an overview of historical field investigation activities related to soil.
- Section 4 provides details regarding the field sampling program for surface soil sampling.
- Section 5 provides a summary of the investigation results and findings.
- Section 6 provides references used in the development of this report.

2. Site Characteristics

2.1 Topography

The Site ranges from approximately 900 feet above mean sea level (amsl) near the Town of White Pine to approximately 700 feet amsl at the northern portions of the Site. Numerous rivers and streams flow from south to north through the Site, ultimately reaching Lake Superior to the north. A network of primitive roads provides access to many site features from past mining activities and previous sampling activities.

2.2 Soils – NRCS Descriptions

Soil descriptions were obtained from the United States Department of Agriculture NRCS Soil Survey of Ontonagon County, Michigan (2024). Soil types at the Site are shown on Figure 3 and detailed descriptions of prominent soil types at the Site are included in Appendix A.

2.2.1 White Pine

Soil present in most of White Pine is primarily part of the Udorthents loams with slopes from 0 to 2%. Udorthents soils are typically loamy mine spoil fill to an approximate depth of 80 inches bgs. Udorthents soils are moderately well-drained with little runoff.

The other prominent soil present in White Pine, primarily at the north and south ends of the community, is a classification known as Big Iron-Flintsteel-Gull Point complex. The areas in Ontonagon County classified as Big Iron-Flintsteel-Gull Point are composed of approximately 40% Big Iron soils, 30% Flintsteel soils, and 15% Gull Point soils, with minor components including Watton (10%), Trap falls (3%), and Belding (2%). Big Iron soils are somewhat poorly drained fine loamy till with very high runoff and slopes ranging from 1 to 3%. Big Iron soils are typically silt loam and loam to an approximate depth of 66 inches, where it becomes gravelly silt loam. Flintsteel soils are moderately well drained fine loamy till with high runoff and slopes ranging from 1 to 15%. Flintsteel soils are typically loam to an approximate depth of 22 inches (with a band of fine sandy loam from approximately 9 to 12 inches in depth) with silt loam from approximately 22 to 80 inches of depth. Gull Point soils are poorly drained fine loamy alluvium over fine loamy till with very high runoff rates and slopes ranging from 1 to 2%. Gull Point soils have approximately an inch of peat overlaying loam to an approximate depth of 40 inches (with a band of clay loam from approximately 33 to 40 inches in depth) and silt loam from 40 to 80 inches in depth.

2.2.2 Main Facilities/Former Mining Operations Area

The Main Facilities/Former Mining Operations Area currently occupied by the electrical power plant and other structures is primarily classified as the NRCS soil classification described as “Dumps and Pits, Mine.”

Some areas at the north end of the Main Facilities/Former Mining Operations Area are classified as Big Iron-Flintsteel-Gull Point complex, as described in Section 2.2.1.

The tailings basins are classified as Slickens, sandy and silty mine spoil fill with 0 to 1% slopes.

2.2.3 Planned Mining Operations Area

The area west of the existing tailings basin is primarily composed of Big Iron-Flintsteel-Gull Point complex and Udorthents-Alfic Udarents-Epiaquents complex, as described in Section 2.2.1. The areas of Ontonagon County classified as Udorthents-Alfic Udarents-Epiaquents are composed of approximately 60% Udorthents, 20% Epiaquents, and 20% Alfic Udarents. Udorthents soils within this complex have slopes from 0 to 8%, are moderately well drained with little runoff and are typically loamy mine spoil fill to an approximate depth of 80 inches. Epiaquents soils have slopes from 0 to 4%, are very poorly drained with negligible runoff and are typically silt loam to an approximate depth of 80 inches. Alfic Udarents soils are typically loamy mine spoil fill to a depth of 80 inches.

The area within the former tailings basin and the listed NRCS soil classification is “Slickens: Mine Spoils/Fill.”

Soils overlaying much of the planned underground mine area east of the existing tailings basin are classified as Flintsteel-Watton-Gull Point complex. Flintsteel soils within this complex are moderately well drained fine loamy till with high runoff and slopes ranging from 1 to 10%. Flintsteel soils are typically loam to an approximate depth of 22 inches (with a band of fine sandy loam from approximately 9 to 12 inches in depth) with silt loam from approximately 22 to 80 inches of depth. Watton soils within this complex are well drained silt loam to a depth of 80 inches with high runoff and slopes from 20 to 35%. Gull Point soils within this complex are poorly drained fine loamy alluvium over fine loamy till with very high runoff rates and slopes ranging from 1 to 2%. Gull Point soils have approximately an inch of peat overlaying loam to an approximate depth of 40 inches (with a band of clay loam from approximately 33 to 40 inches in depth) and silt loam from 40 to 80 inches in depth.

3. Historical Sampling Summary

On October 29, 1997, a Consent Decree was executed by Copper Range Company and the Michigan Department of Environment, Great Lakes, and Energy (EGLE)) and entered in the District Court for Ingham County, Michigan, pursuant to Part 201 of the Michigan Natural Resources and Environmental Protection Act. A RI was conducted pursuant to the Consent Decree and included a field investigation to characterize the RI Study Areas, an evaluation of applicable EGLE generic human health risk-based criteria, and an evaluation of the need for an ecological risk assessment. The media evaluated in the RI included groundwater, surface water, and soils, tailings, and slag.

3.1 Remedial Investigation

The RI was conducted based on the results of 23 prior environmental investigations dating back to 1967 related to mining and smelting operations at the Site. Prior investigations were summarized in Table 4-1 of the RI, included in Appendix B of this report. The RI focused primarily on metals throughout the study area and included organics, including VOCs, SVOCs, polyaromatic hydrocarbons, and PCBs in targeted areas of known past isolated spills or potential releases from underground and aboveground storage tanks.

The RI identified potential sources of metals to surface soil including the airborne transport of metals contamination from historical smelting operations and from mine tailings and from transport of surface soil via surface water runoff.

Following the RI, an Interim Remedial Action (IRA) consisting of an engineered barrier of clean soil or asphalt placed over Site soils was performed in the Main Facilities Study Area. The IRA included the possible removal of contaminated material from the North and South Brick Loadout Areas for placement into an on-site repository. The IRA addressed the exposure pathways of direct contact, particulate soil inhalation, and potential contamination of surface water runoff by soils.

Selected tables and figures from the RI Report (MFG, 1999) are included in Appendix B.

3.2 Additional Soil Investigations

Additional soil sampling was conducted in 2015.

Soil samples were collected from 6 to 18 inches bgs at the Historic Dump located north of the Site on the west side of Highway 64. Samples were analyzed for metals, herbicides, pesticides, PCBs, VOCs, and SVOCs. Multiple metals, naphthalene, and multiple petroleum-related VOCs were detected above EGLE protection criteria for multiple exposure pathways including residential and non-residential direct contact, drinking water protection, and particulate soil inhalation.

Surface (0 to 6 inches and 0 to 30 inches bgs) and subsurface (12 to 24 inches) soil samples were collected at the Historic Ball Mill located between the community of White Pine and Highway 64. Samples were analyzed for metals and the subsurface sample was also analyzed for VOCs and SVOCs. Multiple metals were detected above EGLE protection criteria for groundwater/surface water interface protection and residential and non-residential drinking water protection pathways.

4. Field Sampling Program

This section describes the procedures for collecting surficial soil samples at the Site. Sampling was conducted in accordance with the June 2025 Soil Sampling Plan (Foth, 2025).

4.1 Health and Safety

All field activities were completed following procedures detailed in Foth's Health and Safety Plan dated June 2024.

Foth staff documented and communicated plans and changes to any field activities with Amanda Ziedler, Senior Director, Environment, WPC. Daily, weekly, and task-specific field forms ensure transparency, accountability, and completion of efficient and effective work. Each day Foth staff filled out daily forms that included Vehicle Inspection Forms and Tailgate Safety Meeting Forms, as well as a detailed field notebook. Vehicle Inspection Forms and Tailgate Safety Meeting Forms are included in Appendix A.

4.2 Sample Locations

Surface soil samples were collected at locations shown on Figures 4 through 7. Sample locations were limited to properties owned by or under consideration for purchase by WPC and properties which WPC had secured access agreements with landowners. One planned sample location (SS-099) was not sampled at the request of WPC due to access issues.

Background concentrations have been adequately established for the Site and no background sample locations were collected.

Sampling point locations were located using pre-identified coordinates using the Site geographic information system immediately prior to sampling using a high-resolution geographic positioning system (GPS). If the pre-identified sample location was obstructed by hardscape (e.g., asphalt) or any other obstruction, the sample location was moved to a suitable location as close to the original location as possible and the actual sample location was recorded using a high-resolution GPS. Sample location coordinates are included in Table 1.

4.2.1 Rail Lines

Foth collected a total of 11 surface soil samples along proposed rail lines to establish a baseline for metals prior to rail line construction and use. Sample locations were spaced approximately every 1,000 feet, on alternating sides of the track, approximately 25 feet from the center of the proposed rail line as shown on Figures 4 and 5.

4.2.2 Main Facilities/Former Mining Operations Area

Foth collected surface soil samples from within and adjacent to the former Main Facilities Area to determine a new baseline following the implementation of an engineered barrier in areas of potential disturbance for future infrastructure and affected areas. Foth collected 16 soil samples evenly spaced in areas owned by or under consideration for purchase by WPC as shown on Figure 4. Landowners in this area collected split samples at several locations for their own analysis.

4.2.3 Planned Mining Operations Area

Foth collected surface soil samples distributed in the areas of potential disturbance for future infrastructure and affected areas related to future mining activities in the remainder of the Site to provide a baseline prior to construction and future mining operations. Foth collected a total of 77 soil samples in these areas, including areas north of the tailings basins and east of the tailings basins to establish a baseline in the vicinity of exhaust raises. Sample locations are shown on Figures 5 through 7.

4.2.4 Discretionary Sample Locations

Foth planned to collect up to 20 additional discretionary surface soil samples if the field team determined that conditions warranted additional samples. The field team did not observe any conditions that warranted discretionary sample collection.

4.3 Sample Collection Methodology

Surface soil samples were collected in a consistent and systematic approach at each discrete sampling location. Samples were collected from soil 0 to 6 inches bgs using a step probe, hand trowel, shovel, or other hand tool suitable for sample collection. Discrete soil samples were placed directly into laboratory-provided sample containers and managed as described in the Quality Assurance Project Plan (QAPP).

4.4 Sample Handling and Analysis

The following sections provide procedures followed for the handling and shipment of samples for laboratory analysis.

4.4.1 Sample Labeling and Chain-of-Custody

Sample labels were completed and affixed to each sample container. Each label included at a minimum: sample identification, requested analysis, collection date and time, and name of the sample collector.

A sample numbering system identified each sample. The sample code provides a unique identifier for each sample, required by EQuIS data management software. Each sample was assigned a site-specific identification containing specific location identifiers to indicate where the sample was obtained. The site-specific identification is based on the following system: Sample Location Code_yyyymmdd. For example, a sample collected on September 3, 2025, at surface soil location SS-01 would be assigned a sample identification of SS-01_20250903.

Duplicate (DUP) samples were identified using the following system: DUP-number-matrix_yyyymmdd, with numbers starting at 01 and increasing by one for each subsequent sample assigned sequentially for the sampling event. Field blank (FB) and equipment blank (EB) samples were identified using the same system as for DUPs, except DUP was replaced with FB or EB.

Samples were handled and the Chain-of-Custody was completed consistent with the procedures in Foth Standard Operating Procedure (SOP) 3270, *Sample Chain of Custody*, included in

Appendix A of the QAPP. A Chain-of-Custody form was prepared and signed and accompanied each sample shipment. The requested sample turnaround time was 10 working days.

4.4.2 Sample Packaging and Sample Shipment

Samples were packaged consistent with the procedures in Foth SOP 3260, *Shipping and Packaging of Non-Hazardous Samples* (QAPP Appendix A). Samples were packed in a dry cooler, lined with bubble wrap, and lined with a sturdy trash bag prior to filling with samples and ice. A completed Chain-of-Custody accompanied each sample shipment and completed custody seals were used on each cooler shipped. Samples were sent to Eurofins Chicago using FedEx® as requested by Eurofins.

4.4.3 Analytical Procedures

Surface soil samples were analyzed for total trace metals listed below by United States Environmental Protection Agency (USEPA) SW-846 Method 6010D and Method 7471B. Aqueous Quality Assurance/Quality Control (QA/QC) samples, including field blanks and equipment blanks, were analyzed by USEPA SW-846 Method 6020B and Method 7470A.

CAS Number	Compound
7440-38-2	Arsenic
7440-39-3	Barium
7440-43-9	Cadmium
7440-47-3	Chromium (total)
7440-50-8	Copper
7439-92-1	Lead
7439-96-5	Manganese
7439-97-6	Mercury
7440-02-0	Nickel
7782-49-2	Selenium
7440-22-4	Silver
7440-66-6	Zinc

4.4.4 Decontamination

The step-probe, shovel, and other tools used for sample collection were decontaminated after each sample location. Decontamination was conducted using a bucket containing water with Liquinox® (or equivalent detergent) for initial decontamination followed by a second wash with Liquinox® in a spray bottle and a distilled water rinse.

4.4.5 Investigation-Derived Waste

Excess soil not included in samples was thin spread on the ground surface at the sample location. Personal protective equipment, including gloves, and other solid waste from decontamination were disposed of off site as solid waste. Decontamination liquids were poured on the ground at the last sample location of each day. Decontamination liquids were not

transported between sampling areas (e.g., White Pine, Main Facilities/Former Mining Operations Area, and Planned Mining Area) but were poured on the ground before leaving the sampling area.

4.5 Quality Assurance/Quality Control

This section discusses QA/QC elements that address the nature of a total, integrated effort assuring the reliability of measurement and monitoring data for this Site. All investigation activities at the Site were conducted under the project QAPP.

4.5.1 Blind Duplicates

Blind duplicate samples are used to test for sampling and analytical reproducibility (i.e., precision). Blind duplicates were collected by alternatively filling a primary set and secondary set of laboratory containers as close in time as practical. The parent sample of the blind duplicate sample was recorded in the field book. Blind duplicate samples were assigned an identification alias on the sample bottle label and on the Chain-of-Custody sheet to avoid alerting laboratories of the parent sample.

A relative percent difference calculation was performed between the primary (i.e., parent) and duplicate samples during data validation. Blind duplicate samples were collected at a frequency of one blank per 20 primary samples.

4.5.2 Field Blanks

Field blanks are used to detect potential background or method contamination. Field blanks were analyzed for target analytes. Sample containers used for field blanks were for aqueous samples of total metals and distilled water was used to fill the field blank sample containers. Two field blanks were collected and no analytes were detected in field blanks.

4.5.3 Equipment Blanks

Equipment blanks are used to detect potential cross-contamination resulting from inadequate decontamination procedures. Equipment blanks were collected from the soil sampling equipment following field decontamination procedures. Equipment blanks were collected at a frequency of one blank per 20 primary samples to evaluate decontamination effectiveness. Copper was detected in three equipment blanks and manganese and nickel were detected in one equipment blank. However, these detections were at very low levels and field decontamination was determined to be sufficient to provide data that meets project quality objectives.

4.5.4 Temperature Blanks

A temperature blank consisting of a laboratory-prepared container of water accompanied each sample cooler to measure the temperature of the cooler. The laboratory received all samples on ice and within the acceptable temperature range.

4.5.5 Chain-of-Custody

A Chain-of-Custody Form that identified the individuals in control, or possession, of the samples was maintained throughout sample handling for all samples shipped off site for laboratory analysis, as described in Section 4.4.1.

4.5.6 Analytical Laboratory Sample Review

Upon receipt of sample coolers by the analytical laboratory, the integrity of the sample cooler and samples was evaluated and reported by the laboratory using a laboratory-specific "Sample Receipt Checklist." The field sampling team reviewed the laboratory receipt documents to ensure that the samples were received in good condition and that the information contained in the Chain-of-Custody Form was understood and accepted by the laboratory. Any discrepancies noted by the laboratory between the Chain-of-Custody and the samples received were reconciled by the field team with the laboratory.

4.5.7 Analytical Laboratory Quality Control

The analytical laboratory utilized USEPA-approved methods to prepare and analyze soil samples according to a Laboratory QA/QC Plan. This plan is included with the project QAPP.

4.5.8 Data Verification and Data Validation

Laboratory analytical data reports are included in Appendix B. Data verification and Stage 2A data validation was performed as described in the project QAPP. A data verification and validation summary technical memorandum, including any data qualifiers assigned during validation, was produced for the sampling event and is provided in Appendix C.

5. Summary of Results

Shallow soils were logged in field notes and soil characteristics are summarized in Table 1. Shallow soils generally consisted of silts and clays, often with a high percentage of organic matter.

Laboratory analytical reports are included in Appendix B. Data validation reports are included in Appendix C. Analytical results are included in Table 2 with laboratory qualifiers and any additional qualifiers assigned during data validation. Analytical results were compared to EGLE Screening Criteria. If a listed statewide background concentration or site-specific background concentration (from the RI Report) exceeded a screening level, the background concentration was used as the screening criteria. Any results exceeding EGLE screening criteria are bold in Table 2.

A range of concentrations of each trace metal analyzed is in Exhibit 5-1 below. Median concentrations were calculated conservatively using the reporting limit for non-detect concentrations.

Exhibit 5-1
Range of Trace Metal Concentrations

Compound	Minimum Concentration (milligrams per kilogram)	Maximum Concentration (milligrams per kilogram)	Median Concentration (milligrams per kilogram)
Arsenic	1.3	28	3.1
Barium	15	330	60
Cadmium	0.084 (estimated value)	15	0.28
Chromium (total)	3.4	46	16
Copper	11	22,000	120
Lead	< 2.1	390	7.4
Manganese	31	21,000	210
Mercury	< 0.0066	0.48	0.018
Nickel	1.6	40	16
Selenium	< 0.56	11	0.66
Silver	< 0.13	47	0.8
Zinc	4.7	460	32

In general, higher concentrations were present in historically disturbed areas including the former Main Facilities Area and lower concentrations were typically present north and east of the tailings basin.

6. References

Foth Infrastructure & Environment, LLC, 2025. *Soil Sampling Work Plan.* June 2025.

MFG, Inc., 1999. Remedial Investigation Report, White Pine Mine. December 1999.

Michigan Department of Environmental Quality, Generic Residential/Nonresidential Cleanup Criteria, Integrated Tables of Part 201, Clean-up Criteria. Revised October 2023.

National Resource Conservation Service, 2024. Soil Survey, Ontonagon County, 2024.

Tables

Table 1
Soil Sampling Report
Shallow Soil Sampling Log
(0-0.5 feet below ground surface)

Location ID	Northing	Easting	From (ft)	To (ft)	Logged By	Domain Length (ft)	Date Sampled	Sample Time	Peat / Organics %	Cobbles / Boulders %	Gravel %	Sand %	Silt %	Clay %	% Check	Consistency	Color	Moisture	Plasticity	Cohesiveness	Comments
SS-001$_2$	25602728.89	728593.17	0.00	0.15	LDC	0.15	9/8/2025	8:45	30%	0%	5%	15%	50%	0%	100%	Soft/Loose	10YR, 3/1 (very dark gray)	Moist	Non-plastic	Non-Cohesive	Fill, ML/MH: Silt with sand.
SS-001$_2$	25602728.89	728593.17	0.15	0.50	LDC	0.35	9/8/2025	8:45	0%	0%	50%	30%	20%	0%	100%	Soft/Loose	10YR, 3/1 (very dark gray)	Moist	Non-plastic	Non-Cohesive	Fill, GM: Silty gravel with sand
SS-002$_2$	25603528.75	729882.88	0.00	0.10	LDC	0.10	9/8/2025	9:00	100%	0%	0%	0%	0%	0%	100%	Firm	7.5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-002$_2$	25603528.75	729882.88	0.10	0.50	LDC	0.40	9/8/2025	9:00	15%	0%	0%	30%	40%	15%	100%	Firm	7.5YR, 4/2 (brown)	Moist	Non-plastic	Non-Cohesive	Fill, ML/MH: Sandy silt with gravel
SS-003	25603936.71	730875.83	0.00	0.50	LDC	0.50	9/9/2025	17:10	0%	0%	5%	5%	15%	75%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Moist	Med plastic	Cohesive	Fill, CL: Lean clay
SS-004$_2$	25604320.25	731240.87	0.00	0.50	LDC	0.50	9/8/2025	9:15	5%	0%	0%	0%	5%	90%	100%	Firm	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	Fill, CH: Fat clay. Sample location moved off from proposed location on pavement.
SS-005$_2$	25605109.61	730734.60	0.00	0.50	LDC	0.50	9/8/2025	9:35	5%	0%	0%	0%	15%	80%	100%	Firm	2.5YR, 4/4 (reddish brown)	Moist	High plastic	Cohesive	Fill, CH: Fat clay
SS-006$_2$	25604535.97	731204.83	0.00	0.40	LDC	0.40	9/8/2025	9:50	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	5Y, 3/1 (very dark gray)	Wet	Non-plastic	Non-Cohesive	Fibric Peat. Sample location moved 10 ft. away from cable anchored to ground.
SS-006$_2$	25604535.97	731204.83	0.40	0.50	LDC	0.10	9/8/2025	9:50	0%	0%	0%	10%	0%	90%	100%	Firm	2.5YR, 3/3 (dark reddish brown)	Moist	High plastic	Cohesive	Fill, CH: Fat clay. Sample location moved 10 ft. away from cable anchored to
SS-007	25604982.89	731543.83	0.00	0.30	LDC	0.30	9/9/2025	16:15	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	10YR, 2/2 (very dark brown)	Moist	Non-plastic	Non-Cohesive	Fill: OL/OH: Organic soil
SS-007	25604982.89	731543.83	0.30	0.50	LDC	0.20	9/9/2025	16:15	15%	0%	10%	0%	75%	0%	100%	Soft/Loose	10YR, 4/2 (dark grayish brown)	Moist	Non-plastic	Non-Cohesive	Fill: ML or MH: Silt
SS-008	25604509.19	731610.36	0.00	0.50	LDC	0.50	9/9/2025	16:25	5%	0%	0%	0%	10%	85%	100%	Soft/Loose	2.5YR 4/3 (reddish brown)	Moist	High plastic	Cohesive	Fill: CH: Fat clay
SS-009	25604791.34	732120.53	0.00	0.50	LDC	0.50	9/9/2025	16:00	0%	0%	0%	5%	25%	70%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Moist	Med plastic	Cohesive	Fill, CL: Lean clay
SS-010	25604384.85	731898.31	0.00	0.50	LDC	0.50	9/9/2025	16:40	5%	0%	10%	0%	0%	85%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	Fill: CH: Fat clay. Sample location moved from proposed location on pavement
SS-011$_2$	25604012.90	731731.08	0.00	0.15	LDC	0.15	9/8/2025	10:10	5%	0%	0%	50%	45%	0%	100%	Medium Dense	10YR, 3/2 (very dark grayish brown)	Moist	Non-plastic	Non-Cohesive	Fill, SM: Silty sand. Sample location moved from proposed location on
SS-011$_2$	25604012.90	731731.08	0.15	0.50	LDC	0.35	9/8/2025	10:10	5%	0%	0%	0%	5%	90%	100%	Firm	7.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	Fill, CH: Fat clay. Sample location moved from proposed location on pavement
SS-012	25603692.28	732311.15	0.00	0.25	LDC	0.25	9/9/2025	16:50	5%	0%	5%	0%	10%	80%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	Fill, CH: Fat clay. Sample location moved to other side of building to get soil.
SS-012	25603692.28	732311.15	0.25	0.50	LDC	0.25	9/9/2025	16:50	0%	0%	50%	20%	20%	10%	100%	Soft/Loose	7.5YR, 4/2 (brown)	Moist	Non-plastic	Non-Cohesive	Fill, GM: Silty gravel with sand. Sample location moved to other side of building
SS-013$_2$	25604320.54	732194.70	0.00	0.50	LDC	0.50	9/8/2025	10:30	0%	0%	15%	5%	5%	75%	100%	Medium Dense	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	Fill, CH: Fat clay with gravel
SS-014	25604863.00	732409.38	0.00	0.10	LDC	0.10	9/9/2025	15:55	40%	0%	0%	10%	50%	0%	100%	Soft/Loose	10YR, 2/2 (very dark brown)	Wet	Non-plastic	Non-Cohesive	Fill, ML or MH: Silt, abundant organics
SS-014	25604863.00	732409.38	0.10	0.50	LDC	0.40	9/9/2025	15:55	0%	0%	50%	0%	0%	50%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Moist	Med plastic	Cohesive	Fill, CH or CL: Gravelly clay
SS-015	25604669.67	732959.89	0.00	0.25	LDC	0.25	9/9/2025	15:45	0%	0%	50%	30%	20%	0%	100%	Soft/Loose	2.5YR, 4/2 (weak red)	Moist	Non-plastic	Non-Cohesive	Fill, GM: Silty gravel with sand
SS-015	25604669.67	732959.89	0.25	0.50	LDC	0.25	9/9/2025	15:45	0%	0%	50%	30%	20%	0%	100%	Soft/Loose	5YR, 6/1 (gray)	Wet	Non-plastic	Non-Cohesive	Fill, GM: Silty gravel with sand
SS-016$_2$	25604005.37	733043.16	0.00	0.50	LDC	0.50	9/8/2025	11:15	5%	0%	5%	0%	0%	90%	100%	Medium Dense	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	Fill, CH: Fat clay
SS-017$_2$	25603972.06	732679.07	0.00	0.50	LDC	0.50	9/8/2025	11:30	0%	0%	5%	0%	5%	90%	100%	Medium Dense	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	Fill, CH: Fat clay. Sample location moved from proposed location on pavement
SS-018	25603035.11	734261.78	0.00	0.50	LDC	0.50	9/9/2025	13:13	5%	0%	0%	0%	10%	85%	100%	Medium Dense	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-019	25603611.85	734480.02	0.00	0.30	LDC	0.30	9/9/2025	13:30	90%	0%	0%	0%	10%	0%	100%	Very Soft / Loose	10YR, 2/2 (very dark brown)	Wet	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Fibric Peat. Sample location moved, original location inaccessible
SS-019	25603611.85	734480.02	0.30	0.50	LDC	0.20	9/9/2025	13:30	20%	0%	0%	0%	40%	40%	100%	Soft/Loose	5YR, 3/3 (dark reddish brown)	Wet	Low plastic	Cohesive	CL/ML: Silty Clay Sample location moved, original location inaccessible
SS-020	25603746.61	733923.18	0.00	0.50	LDC	0.50	9/9/2025	15:25	0%	0%	5%	0%	5%	90%	100%	Firm	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-021$_2$	25604642.56	733908.36	0.00	0.50	LDC	0.50	9/8/2025	10:50	20%	0%	0%	30%	50%	0%	100%	Medium Dense	2.5YR, 4/3 (reddish brown)	Moist	Non-plastic	Cohesive	ML/MH: Sandy silt

Table 1
Soil Sampling Report
Shallow Soil Sampling Log
(0-0.5 feet below ground surface)

Location ID	Northing	Easting	From (ft)	To (ft)	Logged By	Domain Length (ft)	Date Sampled	Sample Time	Peat / Organics %	Cobbles / Boulders %	Gravel %	Sand %	Silt %	Clay %	% Check	Consistency	Color	Moisture	Plasticity	Cohesiveness	Comments
SS-022	25604964.37	733617.39	0.00	0.25	LDC	0.25	9/9/2025	14:45	60%	0%	0%	25%	15%	0%	100%	Soft/Loose	7.5YR, 3/1 (very dark gray)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil with sand
SS-022	25604964.37	733617.39	0.25	0.50	LDC	0.25	9/9/2025	14:45	0%	0%	0%	0%	75%	25%	100%	Soft/Loose	7.5YR, 4/3 (brown)	Moist	Low plastic	Cohesive	ML or MH: Silt
SS-023	25605187.09	734474.86	0.00	0.20	LDC	0.20	9/9/2025	14:30	10%	0%	0%	60%	30%	0%	100%	Soft/Loose	10YR, 4/2 (dark grayish brown)	Wet	Non-plastic	Non-Cohesive	SM: Silty sand
SS-023	25605187.09	734474.86	0.20	0.50	LDC	0.30	9/9/2025	14:30	0%	0%	0%	0%	30%	70%	100%	Soft/Loose	7.5YR, 4/4 (brown)	Moist	Med plastic	Cohesive	CL: Lean clay
SS-024	25603721.21	734998.29	0.00	0.50	LDC	0.50	9/9/2025	13:00	0%	0%	15%	10%	0%	75%	100%	Firm	5YR, 4/4 (reddish brown)	Moist	Med plastic	Cohesive	CL: Lean clay with gravel
SS-025	25604091.35	735667.86	0.00	0.50	LDC	0.50	9/8/2025	17:05	5%	0%	0%	5%	10%	80%	100%	Medium Dense	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-026	25603698.03	736021.92	0.00	0.15	LDC	0.15	9/9/2025	12:15	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	2.5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil
SS-026	25603698.03	736021.92	0.20	0.50	LDC	0.30	9/9/2025	12:15	5%	0%	0%	0%	5%	90%	100%	Soft/Loose	5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-027	25604071.94	736271.76	0.00	0.50	LDC	0.50	9/8/2025	17:25	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-028	25604561.21	735947.83	0.00	0.20	LDC	0.20	9/8/2025	16:50	90%	0%	0%	0%	10%	0%	100%	Soft/Loose	5YR, 2.5/1 (black)	Wet	Non-plastic	Non-Cohesive	OL/OH: Organic material. Fibric Peat. Sample location moved, original location
SS-028	25604561.21	735947.83	0.20	0.50	LDC	0.30	9/8/2025	16:50	0%	0%	0%	10%	0%	90%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Wet	High plastic	Cohesive	CH: Fat clay. Sample location moved, original location inaccessible
SS-029	25605134.27	736172.23	0.00	0.50	LDC	0.50	9/9/2025	11:30	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	10YR, 2/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil
SS-030	25604774.06	735241.20	0.00	0.40	LDC	0.40	9/9/2025	11:40	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	7.5YR, 2.5/1 (black)	Wet	Non-plastic	Non-Cohesive	OL/OH: Organic soil
SS-030	25604774.06	735241.20	0.40	0.50	LDC	0.10	9/9/2025	11:40	15%	0%	0%	15%	70%	0%	100%	Soft/Loose	7.5YR, 4/3 (brown)	Moist	Non-plastic	Non-Cohesive	ML or MH: Silt with sand
SS-031	25605336.46	735298.84	0.00	0.50	LDC	0.50	9/8/2025	18:30	100%	0%	0%	0%	0%	0%	100%	Soft/Loose	7.5YR, 3/3 (dark brown)	Wet	Non-plastic	Non-Cohesive	OL/OH: Organic soil
SS-032	25605540.15	735844.55	0.00	0.10	LDC	0.10	9/8/2025	18:10	90%	0%	0%	0%	10%	0%	100%	Very Soft / Loose	2.5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-032	25605540.15	735844.55	0.10	0.50	LDC	0.40	9/8/2025	18:10	10%	0%	0%	20%	50%	20%	100%	Firm	7.5YR ,4/3 (brown)	Moist	Non-plastic	Cohesive	ML or MH: Silt with sand
SS-033	25605570.89	736611.19	0.00	0.50	LDC	0.50	9/9/2025	11:15	10%	0%	0%	20%	60%	10%	100%	Firm	7.5YR, 4/3 (brown)	Moist	Non-plastic	Cohesive	ML or MH: Silt with sand
SS-034	25605229.50	736884.36	0.00	0.50	LDC	0.50	9/7/2025	17:50	0%	0%	10%	10%	0%	80%	100%	Firm	2.5YR, 4/3 (reddish brown)	Moist	Med plastic	Cohesive	CL: Lean clay with sand gravel
SS-035	25604363.89	736592.10	0.00	0.25	LDC	0.25	9/9/2025	12:45	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	10YR 2/2 (very dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil
SS-035	25604363.89	736592.10	0.25	0.50	LDC	0.25	9/9/2025	12:45	5%	0%	0%	5%	90%	0%	100%	Firm	7.5YR ,4/3 (brown)	Moist	Non-plastic	Non-Cohesive	ML or MH: Silt
SS-036	25603768.02	736698.71	0.00	0.50	LDC	0.50	9/8/2025	16:10	15%	0%	0%	10%	75%	0%	100%	Medium Dense	5YR, 3/2 (dark reddish brown)	Moist	Non-plastic	Non-Cohesive	ML or MH: Silt
SS-037	25603682.97	737154.13	0.00	0.40	LDC	0.40	9/8/2025	15:35	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-037	25603682.97	737154.13	0.40	0.50	LDC	0.10	9/8/2025	15:35	10%	0%	0%	0%	30%	60%	100%	Firm	10YR, 3/2 (very dark grayish brown)	Moist	High plastic	Non-Cohesive	CH: Fat clay
SS-038	25604266.90	736967.09	0.00	0.20	LDC	0.20	9/8/2025	15:20	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic material. Fibric Peat
SS-038	25604266.90	736967.09	0.20	0.50	LDC	0.30	9/8/2025	15:20	5%	0%	0%	0%	70%	25%	100%	Firm	5YR, 4/2 (dark reddish gray)	Moist	Non-plastic	Cohesive	ML or MH: Silt
SS-039	25604832.83	737227.68	0.00	0.25	LDC	0.25	9/8/2025	17:40	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	2.5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-039	25604832.83	737227.68	0.25	0.50	LDC	0.25	9/8/2025	17:40	20%	0%	0%	0%	80%	0%	100%	Soft/Loose	7.5YR, 3/3 (dark brown)	Moist	Non-plastic	Non-Cohesive	ML or MH: Silt
SS-040	25605737.59	737265.06	0.00	0.10	LDC	0.10	9/9/2025	11:00	85%	0%	0%	5%	10%	0%	100%	Soft/Loose	5YR, 3/1 (dark gray)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil
SS-040	25605737.59	737265.06	0.10	0.50	LDC	0.40	9/9/2025	11:00	5%	0%	0%	10%	0%	85%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-041	25606298.21	737313.37	0.00	0.50	LDC	0.50	9/7/2025	17:30	15%	0%	0%	0%	0%	85%	100%	Soft/Loose	2.5YR, 4/4 (reddish brown)	Wet	High plastic	Cohesive	CH: Fat clay. Sample location moved, original location inaccessible

Table 1
Soil Sampling Report
Shallow Soil Sampling Log
(0-0.5 feet below ground surface)

Location ID	Northing	Easting	From (ft)	To (ft)	Logged By	Domain Length (ft)	Date Sampled	Sample Time	Peat / Organics %	Cobbles / Boulders %	Gravel %	Sand %	Silt %	Clay %	% Check	Consistency	Color	Moisture	Plasticity	Cohesiveness	Comments
SS-042	25606278.57	737856.81	0.00	0.10	LDC	0.10	9/7/2025	16:45	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	7.5YR, 2.5/2 (very dark brown)	Wet	Non-plastic	Cohesive	OL/OH: Organic material. Fibric Peat
SS-042	25606278.57	737856.81	0.10	0.50	LDC	0.40	9/7/2025	16:45	0%	0%	0%	0%	10%	90%	100%	Firm	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-043	25605778.63	738027.31	0.00	0.50	LDC	0.50	9/8/2025	13:45	0%	0%	0%	5%	10%	85%	100%	Medium Dense	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-044	25605434.25	737897.67	0.00	0.50	LDC	0.50	9/8/2025	13:37	5%	0%	5%	5%	0%	85%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Wet	High plastic	Cohesive	CH: Fat clay
SS-045	25604599.08	737526.68	0.00	0.50	LDC	0.50	9/8/2025	15:05	80%	0%	0%	0%	20%	0%	100%	Very Soft / Loose	2.5Y, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-046	25603879.39	737618.23	0.00	0.50	LDC	0.50	9/8/2025	14:50	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	7.5YR, 2.5/2 (very dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-047	25604148.00	738041.70	0.00	0.10	LDC	0.10	9/8/2025	14:15	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	7.5YR, 2.5/2 (very dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-047	25604148.00	738041.70	0.10	0.25	LDC	0.15	9/8/2025	14:15	30%	0%	0%	10%	60%	0%	100%	Soft/Loose	10YR, 3/3 (dark brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Silt
SS-047	25604148.00	738041.70	0.25	0.50	LDC	0.25	9/8/2025	14:15	0%	0%	0%	30%	70%	0%	100%	Soft/Loose	7.5YR, 4/4 (brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Sandy silt
SS-048	25603812.36	738413.51	0.00	0.20	LDC	0.20	9/8/2025	14:05	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	7.5YR, 2.5/2 (very dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-048	25603812.36	738413.51	0.20	0.50	LDC	0.30	9/8/2025	14:05	0%	0%	0%	25%	75%	0%	100%	Soft/Loose	7.5YR, 4/3 (brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Sandy silt
SS-049	25604466.57	738424.57	0.00	0.25	LDC	0.25	9/8/2025	14:30	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	7.5YR, 2.5/2 (very dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-049	25604466.57	738424.57	0.25	0.50	LDC	0.25	9/8/2025	14:30	10%	0%	0%	5%	85%	0%	100%	Soft/Loose	7.5YR, 4/3 (brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Silt
SS-050	25604905.26	737980.06	0.00	0.50	LDC	0.50	9/8/2025	13:20	5%	0%	5%	0%	5%	85%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Moist	Med plastic	Cohesive	CL: Lean clay
SS-051	25605379.88	738346.98	0.00	0.50	LDC	0.50	9/7/2025	15:05	0%	0%	5%	15%	0%	80%	100%	Medium Dense	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay with sand
SS-052	25606075.36	738354.20	0.00	0.10	LDC	0.10	9/7/2025	16:30	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	7.5YR, 2.5/2 (very dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-052	25606075.36	738354.20	0.10	0.50	LDC	0.40	9/7/2025	16:30	0%	0%	0%	60%	40%	0%	100%	Soft/Loose	7.5YR, 4/4 (brown)	Moist	Non-plastic	Non-Cohesive	SM: Silty sand
SS-053	25605165.03	738800.23	0.00	0.50	LDC	0.50	9/7/2025	12:40	0%	0%	10%	15%	0%	75%	100%	Firm	7.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay with sand and gravel
SS-054	25605819.47	738933.80	0.00	0.40	LDC	0.40	9/7/2025	10:55	75%	0%	0%	5%	20%	0%	100%	Very Soft / Loose	5YR, 3/3 (dark reddish brown)	Wet	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-054	25605819.47	738933.80	0.40	0.50	LDC	0.10	9/7/2025	10:55	0%	0%	0%	10%	0%	90%	100%	Firm	5YR, 4/4 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay with sand
SS-055	25605225.40	739398.90	0.00	0.10	LDC	0.10	9/8/2025	12:45	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic material. Fibric Peat
SS-056	25604880.22	739797.91	0.00	0.50	LDC	0.50	9/7/2025	12:30	0%	0%	10%	70%	20%	0%	100%	Very Soft / Loose	2.5YR, 3/4 (reddish brown)	Moist	Non-plastic	Non-Cohesive	SM: Silty sand with gravel. Trace roots
SS-057	25605779.85	739723.42	0.00	0.10	LDC	0.10	9/7/2025	15:50	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	5Y, 2.5/2 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic material. Fibric Peat
SS-057	25605779.85	739723.42	0.10	0.50	LDC	0.40	9/7/2025	15:50	0%	0%	5%	5%	15%	75%	100%	Firm	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-058	25606131.20	739375.60	0.00	0.15	LDC	0.15	9/7/2025	10:30	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	5YR, 2.5/2 (dark reddish brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-058	25606131.20	739375.60	0.15	0.50	LDC	0.35	9/7/2025	10:30	0%	0%	0%	10%	0%	90%	100%	Firm	5YR, 4/4 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay with sand
SS-069	25607156.91	743108.95	0.00	0.20	LDC	0.20	9/7/2025	8:45	75%	0%	0%	0%	25%	0%	100%	Very Soft / Loose	5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic material. Fibric Peat
SS-069	25607156.91	743108.95	0.20	0.50	LDC	0.30	9/7/2025	8:45	0%	0%	0%	10%	0%	90%	100%	Soft/Loose	5YR, 4/4 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay with sand
SS-059	25606592.96	739782.94	0.00	0.15	LDC	0.15	9/7/2025	10:10	90%	0%	0%	5%	5%	0%	100%	Soft/Loose	5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil
SS-059	25606592.96	739782.94	0.15	0.50	LDC	0.35	9/7/2025	10:10	0%	0%	0%	50%	20%	30%	100%	Soft/Loose	5YR, 4/3 (reddish brown)	Moist	Med plastic	Cohesive	Clayey sand with silt
SS-060	25606994.42	739336.72	0.00	0.15	LDC	0.15	9/7/2025	9:45	90%	0%	0%	0%	10%	0%	100%	Very Soft / Loose	5YR, 2.5/2 (dark reddish brown)	Wet	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic peat.
SS-060	25606994.42	739336.72	0.15	0.50	LDC	0.35	9/7/2025	9:45	0%	0%	0%	90%	10%	0%	100%	Soft/Loose	10Y, 3/1 (very dark greenish gray)	Wet	Non-plastic	Non-Cohesive	SP-SM: Poorly graded sand with silt. Sand is fine-grained.

Table 1
Soil Sampling Report
Shallow Soil Sampling Log
(0-0.5 feet below ground surface)

Location ID	Northing	Easting	From (ft)	To (ft)	Logged By	Domain Length (ft)	Date Sampled	Sample Time	Peat / Organics %	Cobbles / Boulders %	Gravel %	Sand %	Silt %	Clay %	% Check	Consistency	Color	Moisture	Plasticity	Cohesiveness	Comments
SS-061	25604407.06	743841.83	0.00	0.50	LDC	0.50	9/7/2025	11:45	0%	0%	0%	5%	0%	95%	100%	Firm	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-062	25605257.25	742778.27	0.00	0.25	LDC	0.25	9/7/2025	14:00	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	7.5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-062	25605257.25	742778.27	0.25	0.50	LDC	0.25	9/7/2025	14:00	0%	0%	15%	5%	50%	30%	100%	Soft/Loose	7.5YR, 3/1 (very dark gray)	Moist	Med plastic	Cohesive	CL-ML: Clayey silt with gravel
SS-063	25604520.89	742167.48	0.00	0.25	LDC	0.25	9/7/2025	12:02	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	7.5YR, 2.5/2 (very dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-063	25604520.89	742167.48	0.25	0.50	LDC	0.25	9/7/2025	12:02	0%	0%	0%	0%	100%	0%	100%	Firm	7.5YR, 5/3 (brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Silt
SS-064	25604660.65	740985.01	0.00	0.25	LDC	0.25	9/7/2025	12:15	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	7.5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-064	25604660.65	740985.01	0.25	0.50	LDC	0.25	9/7/2025	12:15	0%	0%	0%	20%	30%	50%	100%	Firm	7.5YR, 3/3 (dark brown)	Moist	Low plastic	Cohesive	CL: Lean clay with sand and silt
SS-065	25605260.47	740486.76	0.00	0.15	LDC	0.15	9/7/2025	14:40	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	10YR, 3/3 (dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic Peat
SS-065	25605260.47	740486.76	0.15	0.50	LDC	0.35	9/7/2025	14:40	0%	0%	20%	40%	40%	0%	100%	Firm	7.5YR, 4/4 (brown)	Moist	Non-plastic	Non-Cohesive	SM: Silty sand with gravel.
SS-066	25606374.01	740226.21	0.00	0.30	LDC	0.30	9/7/2025	9:20	100%	0%	0%	0%	0%	0%	100%	Soft/Loose	10YR, 2/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Hemic peat.
SS-066	25606374.01	740226.21	0.30	0.50	LDC	0.20	9/7/2025	9:20	0%	0%	0%	15%	10%	75%	100%	Soft/Loose	5YR, 4/4 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay with sand
SS-067	25606494.51	740543.72	0.00	0.25	LDC	0.25	9/7/2025	9:10	75%	0%	0%	0%	25%	0%	100%	Very Soft / Loose	5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic material. Fibric Peat
SS-067	25606494.51	740543.72	0.25	0.50	LDC	0.25	9/7/2025	9:10	10%	0%	40%	30%	20%	0%	100%	Soft/Loose	5YR, 3/3 (dark reddish brown)	Moist	Non-plastic	Non-Cohesive	SM: Silty sand with clay
SS-068	25606953.54	741451.86	0.00	0.15	LDC	0.15	9/6/2025	17:40	100%	0%	0%	0%	0%	0%	100%	Very Soft / Loose	10YR, 3/2 (very dark grayish brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: organic material. Hemic peat.
SS-068	25606953.54	741451.86	0.15	0.50	LDC	0.35	9/6/2025	17:40	0%	0%	0%	5%	15%	80%	100%	Soft/Loose	5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-070	25607146.07	744650.45	0.00	0.20	LDC	0.20	9/7/2025	8:25	75%	0%	0%	0%	25%	0%	100%	Soft/Loose	5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	OL/OH: organic material. Hemic peat.
SS-070	25607146.07	744650.45	0.20	0.50	LDC	0.30	9/7/2025	8:25	0%	0%	0%	70%	30%	0%	100%	Soft/Loose	5YR, 4/4 (reddish brown)	Moist	Non-plastic	Non-Cohesive	SM: Silty Sand
SS-071	25607241.58	746187.52	0.00	0.15	LDC	0.15	9/6/2025	12:05	50%	0%	0%	20%	30%	0%	100%	Soft/Loose	10YR, 3/1 (very dark gray)	Moist	Non-plastic	Non-Cohesive	Fill, OL/OH: organic material with sand and silt
SS-071	25607241.58	746187.52	0.15	0.50	LDC	0.35	9/6/2025	12:05	0%	0%	25%	40%	35%	0%	100%	Soft/Loose	5YR, 3/3 (dark reddish brown)	Wet	Non-plastic	Non-Cohesive	Fill: Silty sand with gravel
SS-072	25607004.52	747102.49	0.00	0.25	LDC	0.25	9/6/2025	12:30	85%	0%	0%	0%	15%	0%	100%	Soft/Loose	7.5YR, 3/2 (dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: organic material
SS-072	25607004.52	747102.49	0.25	0.50	LDC	0.25	9/6/2025	12:30	0%	0%	0%	70%	30%	0%	100%	Soft/Loose	7.5YR, 4/4 (brown)	Moist	Non-plastic	Non-Cohesive	SM: Silty Sand
SS-073	25608115.49	747226.72	0.00	0.25	LDC	0.25	9/6/2025	12:50	5%	0%	0%	70%	25%	0%	100%	Soft/Loose	5YR, 4/2 (dark reddish gray)	Moist	Non-plastic	Non-Cohesive	SM: Silty Sand with trace organics. Sample location moved, original location
SS-073	25608115.49	747226.72	0.25	0.50	LDC	0.25	9/6/2025	12:50	5%	0%	0%	70%	25%	0%	100%	Soft/Loose	5YR, 4/2 (dark reddish gray)	Moist	Non-plastic	Non-Cohesive	SM: Silty sand with organics. Sample location moved, original location
SS-074	25608733.01	748039.01	0.00	0.50	LDC	0.50	9/6/2025	14:40	0%	0%	5%	10%	0%	85%	100%	Soft/Loose	10YR, 4/3 (weak red)	Moist	High plastic	Cohesive	CH: Fat clay with sand
SS-075	25609460.09	747442.61	0.00	0.50	LDC	0.50	9/6/2025	14:00	0%	0%	30%	20%	10%	40%	100%	Soft/Loose	2.5YR, 3/4 (reddish brown)	Wet	High plastic	Cohesive	CL/CH: Gravelly clay with sand
SS-076	25610611.71	748362.71	0.00	0.15	LDC	0.15	9/6/2025	13:30	10%	0%	0%	80%	5%	5%	100%	Soft/Loose	5YR, 2.5/2 (dark reddish brown)	Wet	Non-plastic	Non-Cohesive	SP-SM: Poorly graded sand with silt
SS-076	25610611.71	748362.71	0.15	0.50	LDC	0.35	9/6/2025	13:30	0%	0%	0%	85%	10%	5%	100%	Soft/Loose	5YR, 4/4 (reddish brown)	Wet	Non-plastic	Non-Cohesive	SP-SM: Poorly graded sand with silt
SS-077	25611607.74	747801.55	0.00	0.15	LDC	0.15	9/6/2025	13:05	75%	0%	0%	5%	20%	0%	100%	Soft/Loose	7.5YR, 3/2 (dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: organic material
SS-077	25611607.74	747801.55	0.20	0.50	LDC	0.30	9/6/2025	13:05	0%	0%	5%	15%	15%	65%	100%	Soft/Loose	5YR, 4/3 (reddish brown)	Moist	Med plastic	Cohesive	CL/CH: Sandy clay
SS-078	25612165.97	748786.05	0.00	0.50	LDC	0.50	9/6/2025	15:12	0%	0%	0%	10%	0%	90%	100%	Soft/Loose	5YR, 4/4 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay with sand
SS-079	25613051.48	748140.85	0.00	0.25	LDC	0.25	9/6/2025	15:00	75%	0%	0%	15%	10%	0%	100%	Soft/Loose	10RY, 3/2 (very dark grayish brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: organic material

Table 1
Soil Sampling Report
Shallow Soil Sampling Log
(0-0.5 feet below ground surface)

Location ID	Northing	Easting	From (ft)	To (ft)	Logged By	Domain Length (ft)	Date Sampled	Sample Time	Peat / Organics %	Cobbles / Boulders %	Gravel %	Sand %	Silt %	Clay %	% Check	Consistency	Color	Moisture	Plasticity	Cohesiveness	Comments
SS-079	25613051.48	748140.85	0.25	0.50	LDC	0.25	9/6/2025	15:00	0%	0%	0%	60%	40%	0%	100%	Soft/Loose	2.5YR, 3/1 (dark reddish gray)	Dry	Non-plastic	Non-Cohesive	SM: Silty Sand
SS-080	25613612.03	749169.89	0.00	0.15	LDC	0.15	9/6/2025	17:05	90%	0%	0%	0%	10%	0%	100%	Soft/Loose	7.5YR, 3/3 (dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: organic material
SS-080	25613612.03	749169.89	0.15	0.50	LDC	0.35	9/6/2025	17:05	0%	0%	0%	15%	0%	85%	100%	Soft/Loose	5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay with sand
SS-081	25614702.98	748663.71	0.00	0.50	LDC	0.50	9/6/2025	16:45	0%	0%	25%	5%	0%	70%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay with gravel
SS-082	25615193.93	749593.47	0.00	0.50	LDC	0.50	9/6/2025	16:20	0%	0%	5%	20%	75%	0%	100%	Soft/Loose	10YR, 3/6 (dark yellowish brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Silt with sand. *Could not walk to planned location,
SS-083	25616251.62	749334.52	0.00	0.50	LDC	0.50	9/6/2025	16:00	0%	0%	5%	10%	0%	85%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay with sand
SS-084	25617123.90	749645.83	0.00	0.50	LDC	0.50	9/6/2025	11:30	0%	0%	5%	50%	45%	0%	100%	Soft/Loose	10YR, 4/4 (dark yellowish brown)	Moist	Non-plastic	Non-Cohesive	SM: Silty sand, trace gravel
SS-085	25618138.17	749014.56	0.00	0.30	LDC	0.30	9/6/2025	10:52	75%	0%	0%	10%	15%	0%	100%	Soft/Loose	10YR, 2/2 (very dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: organic material
SS-085	25618138.17	749014.56	0.30	0.50	LDC	0.20	9/6/2025	10:52	0%	0%	15%	40%	30%	15%	100%	Soft/Loose	2.5YR, 4/3 (reddish brown)	Moist	Non-plastic	Non-Cohesive	SM: Silty sand with clay and gravel
SS-086	25619321.84	749604.98	0.00	0.30	LDC	0.30	9/6/2025	10:40	75%	0%	0%	0%	25%	0%	100%	Soft/Loose	2.5Y, 3/2 (very dark grayish brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic material
SS-086	25619321.84	749604.98	0.30	0.50	LDC	0.20	9/6/2025	10:40	0%	0%	5%	20%	75%	0%	100%	Soft/Loose	5YR, 3/4 (dark reddish brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Sandy silt
SS-087	25619897.46	748273.61	0.00	0.25	LDC	0.25	9/6/2025	9:50	100%	0%	0%	0%	0%	0%	100%	Soft/Loose	2.5Y, 4/4 (olive brown)	Wet	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Fibric Peat. Sample location moved, original location
SS-087	25619897.46	748273.61	0.30	0.50	LDC	0.20	9/6/2025	9:50	70%	0%	0%	10%	20%	0%	100%	Soft/Loose	7.5YR, 3/2 (dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil. Fibric Peat. Sample location moved, original location
SS-088	25621358.57	748682.35	0.00	0.20	LDC	0.20	9/6/2025	9:20	20%	0%	0%	30%	50%	0%	100%	Soft/Loose	2.5Y, 3/2 (very dark grayish brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Sandy silt with organics
SS-088	25621358.57	748682.35	0.20	0.50	LDC	0.30	9/6/2025	9:20	0%	0%	0%	40%	50%	10%	100%	Soft/Loose	10YR, 4/3 (brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Sandy silt
SS-089	25621900.13	747468.19	0.00	0.25	LDC	0.25	9/3/2025	18:10	100%	0%	0%	0%	0%	0%	100%	Soft/Loose	7.5YR, 2.5/2 (very dark brown)	Moist	Non-plastic	Cohesive	OL/OH: Organic soil. Fibric Peat
SS-089	25621900.13	747468.19	0.30	0.50	LDC	0.20	9/4/2025	10:50	0%	0%	0%	40%	60%	0%	100%	Very Soft / Loose	5YR, 4/4 (reddish brown	Moist	Non-plastic	Cohesive	ML: Sandy silt
SS-090	25625971.12	747336.51	0.00	0.50	LDC	0.50	9/5/2025	17:00	0%	0%	0%	45%	45%	10%	100%	Soft/Loose	7.5YR, 3/3 (dark brown)	Moist	Non-plastic	Non-Cohesive	SM: Silty sand.
SS-091	25633176.84	745692.10	0.00	0.50	LDC	0.50	9/5/2025	8:30	10%	0%	0%	30%	60%	0%	100%	Soft/Loose	7.5 YR, 2.5/3 (very dark brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Sandy silt
SS-092	25639998.05	744038.54	0.00	0.50	LDC	0.50	9/3/2025	17:35	50%	0%	0%	0%	50%	0%	100%	Very Soft / Loose	7.5YR, 2.5/3 (very dark brown)	Moist	Non-plastic	Non-Cohesive	ML or MH: Silt with some roots and organics.
SS-093	25622961.40	744591.06	0.00	0.50	LDC	0.50	9/5/2025	10:30	5%	0%	0%	25%	65%	5%	100%	Soft/Loose	5YR, 3/3 (dark reddish brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Sandy silt with trace roots
SS-094	25628638.74	743252.83	0.00	0.15	LDC	0.15	9/4/2025	15:40	100%	0%	0%	0%	0%	0%	100%	Soft/Loose	10YR, 3/2 (very dark grayish brown)	Moist	Non-plastic	Cohesive	OL/OH: Organic soil
SS-094	25628638.74	743252.83	0.20	0.50	LDC	0.30	9/4/2025	15:40	0%	0%	0%	15%	85%	0%	100%	Soft/Loose	7.5YR, 4/3 (brown)	Moist	Non-plastic	Non-Cohesive	ML/MH: Silt with sand.
SS-095	25633626.78	742060.57	0.00	0.50	LDC	0.50	9/5/2025	9:35	5%	0%	0%	50%	30%	15%	100%	Soft/Loose	5YR, 3/3 (dark reddish brown)	Moist	Low plastic	Non-Cohesive	SM: Silty sand.
SS-096	25640946.28	740274.54	0.00	0.50	LDC	0.50	9/4/2025	17:10	5%	0%	0%	0%	0%	95%	100%	Firm	5YR, 3/3 (dark reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-097	25622062.96	740500.45	0.00	0.20	LDC	0.20	9/4/2025	13:30	95%	0%	0%	0%	5%	0%	100%	Soft/Loose	10YR, 2/2 (very dark brown)	Moist	Non-plastic	Non-Cohesive	OL/OH: Organic soil
SS-097	25622062.96	740500.45	0.20	0.50	LDC	0.30	9/4/2025	13:30	5%	0%	0%	5%	90%	0%	100%	Soft/Loose	7.5YR, 4/3 (weak red)	Moist	Non-plastic	Non-Cohesive	ML: Lean silt with trace roots.
SS-098	25629257.12	738788.98	0.00	0.25	LDC	0.25	9/4/2025	10:50	30%	0%	0%	20%	50%	0%	100%	Very Soft / Loose	5YR, 2.5/2 (dark reddish brown)	Moist	Non-plastic	Non-Cohesive	ML: Sandy silt. Organics present
SS-098	25629257.12	738788.98	0.25	0.50	LDC	0.25	9/4/2025	10:50	5%	0%	0%	80%	15%	0%	100%	Soft/Loose	5YR, 4/3 (reddish brown)	Moist	Non-plastic	Non-Cohesive	SP-SM: Sand with silt. Trace organics present.
SS-099	25633678.94	737680.73																			Not sampled due to access issues.
SS-100	25638334.43	736589.38	0.00	0.30	LDC	0.30	9/5/2025	11:00	20%	0%	0%	30%	50%	0%	100%	Soft/Loose	2.5Y, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	ML/MH: Sandy silt with roots

Table 1
Soil Sampling Report
Shallow Soil Sampling Log
(0-0.5 feet below ground surface)

Location ID	Northing	Easting	From (ft)	To (ft)	Logged By	Domain Length (ft)	Date Sampled	Sample Time	Peat / Organics %	Cobbles / Boulders %	Gravel %	Sand %	Silt %	Clay %	% Check	Consistency	Color	Moisture	Plasticity	Cohesiveness	Comments
SS-100	25638334.43	736589.38	0.30	0.50	LDC	0.20	9/5/2025	11:00	0%	0%	0%	10%	10%	80%	100%	Soft/Loose	10YR, 6/3 (pale brown)	Moist	Med plastic	Cohesive	CL: Lean clay with sand and silt
SS-101	25622319.73	737734.37	0.00	0.25	LDC	0.25	9/4/2025	12:45	100%	0%	0%	0%	0%	0%	100%	Soft/Loose	7.5YR, 2.5/1 (black)	Moist	Non-plastic	Cohesive	OL/OH: Organic soil. Fibric Peat
SS-101	25622319.73	737734.37	0.25	0.50	LDC	0.25	9/4/2025	12:45	5%	0%	0%	5%	5%	85%	100%	Firm	5YR, 3/3 (dark reddish brown)	Moist	High plastic	Cohesive	CH: Fat clay
SS-102	25627593.54	735659.00	0.00	0.20	LDC	0.20	9/4/2025	11:50	20%	0%	0%	30%	50%	0%	100%	Soft/Loose	5YR, 2.5/1 (black)	Moist	Non-plastic	Non-Cohesive	ML or MH: Sandy silt with roots.
SS-102	25627593.54	735659.00	0.20	0.50	LDC	0.30	9/4/2025	11:50	0%	0%	0%	85%	15%	0%	100%	Soft/Loose	7.5YR, 5/3 (brown)	Moist	Non-plastic	Non-Cohesive	SP-SM: Poorly graded fine-grained sand with silt.
SS-103	25632907.27	732535.69	0.00	0.50	LDC	0.50	9/5/2025	14:50	5%	0%	0%	5%	40%	50%	100%	Soft/Loose	10YR, 3/2 (very dark grayish brown)	Moist	Med plastic	Cohesive	ML-CL: Silty clay *Sample location moved. Sampled 100 ft. off of road per request of land owner
SS-104	25636472.43	733539.79	0.00	0.25	LDC	0.25	9/5/2025	14:00	5%	0%	0%	15%	50%	30%	100%	Soft/Loose	2.5Y, 3/1 (very dark gray)	Moist	Low plastic	Cohesive	ML/MH: Silt with sand
SS-104	25636472.43	733539.79	0.30	0.50	LDC	0.20	9/5/2025	14:00	0%	0%	0%	5%	5%	90%	100%	Soft/Loose	7.5YR, 4/3 (brown)	Moist	High plastic	Cohesive	CH: Fat clay

Notes:
Northings and eastings iniNAD 1983 State Plane North, US Feet
Elevations in NAVD88, in feet above mean sea level
Subscript 2 - Land owner collected split sample

Prepared by: LDC
Checked by: DJD

Table 2
Soil Sampling Report
Shallow Soil Sampling Analytical Results
(0-0.5 feet below ground surface)

Analyte	Arsenic			Barium			Cadmium			Chromium (Total)*			Copper			Lead			Manganese			Mercury			Nickel			Selenium			Silver			Zinc			Moisture
CAS Number	7440-38-2			7440-39-3			7440-43-9			7440-47-3			7440-50-8			7439-92-1			7439-96-5			7439-97-6			7440-02-0			7782-49-2			7440-22-4			7440-66-6			
Analytical Method	EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 7471B			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			
Unit	mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			%
Sample ID	Sample Date	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result
SS-001_20250908	9/8/2025	**6.2**			54	B		0.54			12			**3900**			9			390	B		**0.27**			12			< 0.7	U		**2.6**			41			16.6
SS-002_20250908	9/8/2025	2.9			26	B		1			5.6			**1200**			8.2			65			0.037			2.8			< 0.69	U		0.78			18			17
SS-003_20250909	9/9/2025	**9.1**			49	B		1.4			17			**5500**			21			170			0.018			17			< 0.63	U		**3.4**			82			15.2
SS-004_20250908	9/8/2025	2.9			62	B		0.093	J		16			16			5.1			200			< 0.0076	U		16			< 0.57	U		0.71			32			12
SS-005_20250908	9/8/2025	**5.6**	F1	J-	58	B		0.91			19			**2600**	F2		9.8			130	F1	J-	0.016	J		15			< 0.64	U		**1.9**	F1	J-	32			16.2
SS-006_20250908	9/8/2025	3.6			56	B		0.87			19			**720**			12			260			0.035			17			< 0.68	U		**1.3**			**200**			25.2
SS-007_20250909	9/9/2025	**20**			130			**5.8**	B		**37**			**9400**			< 43	U		**1500**			0.091			35			< 2.2	U		**5.9**			**160**	J		75.3
SS-008_20250909	9/9/2025	3.2			98			< 0.21	JB	U	13			30			6.3			240			0.0082	J		21			< 0.62	U		0.69			32			14.4
SS-009_20250909	9/9/2025	4.3			81			0.59	B		19			**1400**			8.3			260			0.018			21			< 0.67	U		**1.2**			41			15.9
SS-010_20250909	9/9/2025	2.7			77			< 0.21	JB	U	15			27			5.1			210			< 0.0075	U		16			< 0.63	U		0.65			26			11.3
SS-011_20250908	9/8/2025	3.3			63	B		0.12	J		17			120			5.5			200			0.0099	J		16			< 0.64	U		0.97			33			11.2
SS-012_20250909	9/9/2025	**5.2**			60			0.37	B		16			**1000**			11			220			0.037			19			< 0.63	U		**1**			67			14.7
SS-013_20250908	9/8/2025	2.9			60	B		0.1	J		16			48			5.1			200			< 0.0066	U		15			< 0.58	U		0.81			32			9.4
SS-014_20250909	9/9/2025	**7**			66			1.4	B		15			**3600**			< 12	U		280			0.019			21			< 0.6	U		**2.2**			54	J		13.7
SS-015_20250909	9/9/2025	2.2			23	B		0.27			5.4			**620**			2.9	J		62			0.03			3.9			< 0.56	U		0.98			23			6
SS-016_20250908	9/8/2025	3.4			72	B		0.19			16			110			5			210	B		< 0.0069	U		16			< 0.57	U		0.88			33			10.8
SS-017_20250908	9/8/2025	2.8			65	B		0.089	J		16			28			5.1			200			< 0.007	U		15			< 0.61	U		0.76			31			10.2
SS-018_20250909	9/9/2025	2.8			75			< 0.21	JB	U	12			11			5.3			220			< 0.0073	U		17			< 0.63	U		0.64			27			12.4
SS-019_20250909	9/9/2025	**7.9**			85	B		0.84			**24**			**860**			16			250			0.016	J		22			< 1.1	U		**2.3**			78			47.3
SS-020_20250909	9/9/2025	3.7			82			< 0.21	JB	U	20			90			8.4			260			0.011	J		21			< 0.62	U		0.86			37			16.2
SS-021_20250908	9/8/2025	4.2			32	B		1.7			11			**2000**			3.4			96	B		0.026			9.3			< 0.65	U		**1.5**			18			22.5
SS-022_20250909	9/9/2025	**7.3**			40			1.6	B		13			**6800**			< 16	U		200			0.047			14			< 0.84	U		**4**			< 63	U		32.8
SS-023_20250909	9/9/2025	2.3			32			0.36	B		14			**800**			6.7			130			0.016	J		13			< 0.68	U		0.5	J		30			19.1
SS-024_20250909	9/9/2025	3.2			64			0.41	B		18			**3500**			51			220			< 0.0068	U		17			< 0.65	U		0.76			**460**			11.2
SS-025_20250908	9/8/2025	3.3			61	B		0.091	J		16			14			4.9			180			< 0.0072	U		15			< 0.65	U		0.8			32			10.1
DUP-06_20250908 (SS-025_20250908)	9/8/2025	2.7			63	B		0.095	J		15			14			6.6			200			< 0.0068	U		17			< 0.57	U		0.87			31			10.6
SS-026_20250909	9/9/2025	**4.9**			81			0.64	B		21			**500**			6.5			510			0.016	J		16			< 0.77	U		**1.2**			84			24.3
SS-027_20250908	9/8/2025	**28**			**330**	B		**8.1**			21			**22000**			110			**21000**			**0.48**			19			**11**			**47**			**150**			69.8
SS-028_20250908	9/8/2025	2.6			77			< 0.24	JB	U	17			20			5.8			190			< 0.0083	U		19			< 0.7	U		< 0.15	U		28			21.5
SS-029_20250909	9/9/2025	3.4	J		52			**15**	B		7			**3300**			11			310			**0.16**			11			< 2.1	U		**4.5**			**100**			75.4
SS-030_20250909	9/9/2025	**7.6**			31			0.94	B		6.8			**2900**			< 16	U		90			0.032			3.9			< 0.82	U		0.8			< 61	U		31.3
SS-031_20250908	9/8/2025	**20**			100	B		**4.9**			5.4			**7700**			21			120			**0.18**			8.3			< 2.0	U		**5.8**			51			73.5
SS-032_20250908	9/8/2025	4.2			31	B		0.91			13			**2700**			9.9			100			0.045			11			< 0.7	U		**2.2**			31			20.4
SS-033_20250909	9/9/2025	**4.7**			45	B		0.39			14			**480**			9.6			160			0.028			12			< 0.71	U		**1.2**			30			16.9
SS-034_20250907	9/7/2025	2.7			63			0.1	J		16			33			5.2			220			< 0.0074	U		16			< 0.64	U		0.64			29			11.2
SS-035_20250909	9/9/2025	1.8			30			0.28	B		9.5			**200**			6.5			190			0.019			8.4			< 0.61	U		0.56			29			16.5
SS-036_20250908	9/8/2025	2.2			36	B		0.84			11			**960**			8.9			92	B		0.011	J		8.3			< 0.62	U		0.75			33			16.4
SS-037_20250908	9/8/2025	**5.9**			120	B		1.7			**26**			**2100**			23			320	B		0.11			17			**1.5**	J		**3**			**110**			45.1
SS-038_20250908	9/8/2025	2.8			57	B		**2.8**			8.1			**5900**			19			450	B		0.027			7.6			< 0.75	U		**2.8**			68			31.3
SS-039_20250908	9/8/2025	**9.5**			**290**	B		1.2			**41**			**530**			13			**5000**			0.12			40			**2.5**			**7.4**			**240**			41.4
SS-040_20250909	9/9/2025	2.8			68			0.26	B		17			32			5.7			300			0.014	J		19			< 0.65	U		0.87			35			17.4
SS-041_20250907	9/7/2025	**7**			150	B		0.63			**37**			**1000**			18			440	B		0.036			40			< 0.76	U		**2.4**			**200**			27.3
SS-042_20250907	9/7/2025	3.6			60			0.77			16			**160**			5.6			180			< 0.0078	U		16			< 0.68	U		0.7			33			19.2
SS-043_20250908	9/8/2025	3.7			78	B		0.11	J		17			25			5.2			300	B		< 0.0074	U		20			< 0.65	U		**1.2**			37			10.6
SS-044_20250908	9/8/2025	3			64	B		0.13	J		16			35			5.3			200	B		< 0.0075	U		16			< 0.6	U		0.9			32			13.1
SS-045_20250908	9/8/2025	**16**			120	B		**5.5**			12			**8200**			50			**3600**	B		**0.16**			10			**3.5**			**11**			53			65.4
SS-046_20250908	9/8/2025	**16**			90	B		**15**			11			**13000**			61			860	B		**0.27**			14			**3.8**			**5.9**			**120**			62.9
SS-047_20250908	9/8/2025	3.4			45	B		0.41			18			**220**			12			330	B		0.016	J		13			< 0.62	U		**1.5**			62			15.6
SS-048_20250908	9/8/2025	1.8			22	B		0.18	J		11			96			8			130	B		0.019			11			< 0.63	U		0.73			32			15
SS-049_20250908	9/8/2025	3			46	B		0.28			8			80			21			**1700**	B		0.017	J		4			< 0.71	U		**4.1**			32			20.8
SS-050_20250908	9/8/2025	2.8			60	B		0.11	J		16			16			5.3			180			< 0.0071	U		15			< 0.61	U		0.72			31			12
SS-051_20250907	9/7/2025	3			63	B		0.11	J		16			91			5.6			200	B		< 0.0075	U		17			< 0.59	U		0.96			33			14
SS-052_20250907	9/7/2025	3.2			59			0.14	J		14			110			5.7			170			0.012	J		14			< 0.59	U		0.7			30			13.6
DUP-04_20250907 (SS-052_20250907)	9/7/2025	3.5			59			0.23			15			140			5.6			160			0.013	J		13			< 0.62	U		0.65			29			10.9

Table 2
Soil Sampling Report
Shallow Soil Sampling Analytical Results
(0-0.5 feet below ground surface)

Analyte		Arsenic			Barium			Cadmium			Chromium (Total)*			Copper			Lead			Manganese			Mercury			Nickel			Selenium			Silver			Zinc			Moisture
CAS Number		7440-38-2			7440-39-3			7440-43-9			7440-47-3			7440-50-8			7439-92-1			7439-96-5			7439-97-6			7440-02-0			7782-49-2			7440-22-4			7440-66-6			
Analytical Method		EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 7471B			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			
Unit		mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			%
Sample ID	Sample Date	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result
SS-053_20250907	9/7/2025	2.8			66	B		0.1	J		17			13			5.3			230	B		< 0.0073	U		17			< 0.62	U		**1**			33			12.8
SS-054_20250907	9/7/2025	2.7			50			0.43			19			**890**			6			290			0.022			17			< 0.73	U		**1.4**			53			30.5
SS-055_20250908	9/8/2025	3.9			67	B		0.21			19			**210**			7.4			250			0.014	J		20			< 0.6	U		**1.1**			42			15.6
DUP-05_20250908 (SS-055_20250908)	9/8/2025	4.5			72	B		0.36			21			**290**			8.1			250			0.025			22			< 0.67	U		**1.1**			47			15.7
SS-056_20250907	9/7/2025	**8.1**			61			1.9			**34**			**1600**			8.2			200			< 0.0072	U		14			< 0.62	U		**1.2**			**120**			8.5
SS-057_20250907	9/7/2025	3			51	B		0.13	J		15			80	F1F2	J+	5.2			160	BF1	J+	< 0.0071	U		15			< 0.58	U		0.64		J	31			15.3
SS-058_20250907	9/7/2025	2.8			63			0.12	J		17			36		J	5.2			190			< 0.0075	U		16			< 0.61	U		0.54			29			11.8
DUP-03_20250907 (SS-058_20250907)	9/7/2025	3.1			58			0.11	J		17			15		J	5.5			220			< 0.0075	U		17			< 0.61	U		0.64			29			11
SS-059_20250907	9/7/2025	3.3			51			0.37			16			**360**			6			250			0.0074	J		16			< 0.63	U		0.8			31			15.6
SS-060_20250907	9/7/2025	3.5			120			0.37			**35**			**2400**			< 2.1	U		720			0.017	J		35			< 1	U		**2.1**			**100**			45.6
SS-061_20250907	9/7/2025	3.2			63	B		0.17	J		18			36			5.7			260	B		0.01	J		19			< 0.64	U		**1.1**			49			13.4
SS-062_20250907	9/7/2025	**5**			78			0.73			12			**270**			13			650			0.027			8.9			< 0.68	U		**1.8**			57			24.8
SS-063_20250907	9/7/2025	1.7			25	B		0.12	J		6.6			46			5.4			48	B		0.033			4.6			< 0.64	U		0.22	J		16			18.4
SS-064_20250907	9/7/2025	**6.3**			140			0.45			**46**			**380**			19			**1400**			0.082			23			< 1.2	U		**3.9**			**91**			50.7
SS-065_20250907 (labeled, reported as SS-056_20250907)	9/7/2025	2.8			27	B		0.47			13			**360**			7			120	B		0.027			11			< 0.66	U		0.64			29			16.5
SS-066_20250907	9/7/2025	3			80			0.29			19			**360**			390			240			0.0086	J		19			< 0.61	U		0.56			41			16
SS-067_20250907	9/7/2025	2.8			42			0.26			13			140			6.8			180			0.018	J		9.3			< 0.72	U		0.58	J		31			22.5
SS-068_20250906	9/6/2025	3.8			62			0.81			22			**520**			7.6			280			< 0.0082	U		22			< 0.63	U		0.96			63			21.4
SS-069_20250907	9/7/2025	3.3			56			0.3			19			**280**			5.8			210			0.0092	J		17			< 0.59	U		0.55			35			15
SS-070_20250907	9/7/2025	2.7			56			0.24			15			130			5.5			190			0.0098	J		14			< 0.63	U		0.43	J		25			11.5
SS-071_20250906	9/6/2025	3			42			0.52			18			**430**			4.5			300			< 0.0076	U		18			< 0.63	U		< 0.14	U		44			14.7
SS-072_20250906	9/6/2025	3.1			55			0.4			20			85			7.4			310			0.033			15			< 0.68	U		< 0.15	U		25			15.8
SS-073_20250906	9/6/2025	1.6			15			0.13	J		6			150			4.5			41			0.033			2.3			< 0.68	U		0.19	J		12			18.4
SS-074_20250906	9/6/2025	3.2			93			0.13	J		20			14			6.3			240			< 0.0074	U		20			< 0.63	U		< 0.14	U		32			13.2
SS-075_20250906	9/6/2025	3.6			73			0.14	J		18			23			7.5			240			< 0.0076	U		23			< 0.66	U		< 0.14	U		35			13.4
SS-076_20250906	9/6/2025	2			32			0.24			8.4			11			3.1			130			< 0.0072	U		8.1			< 0.58	U		< 0.13	U		26			12.1
SS-077_20250906	9/6/2025	3.5			84			0.17	J		20			60			6.9			240			0.01	J		20			< 0.66	U		< 0.15	U		31			11.7
SS-078_20250906	9/6/2025	2.6			93			0.17	J		**26**			19			7.3			190			0.02	J		20			< 0.79	U		**1.4**			35			29.9
SS-079_20250906	9/6/2025	3.1			38			0.69			7.2			**220**			8.1			150			0.063			4.5			< 0.8	U		0.35	J		24			37.7
SS-080_20250906	9/6/2025	3.1			80			0.084	J		16			18			5.1			140			0.0079	J		12			< 0.63	U		0.26	J		23			16.3
SS-081_20250906	9/6/2025	3.4			120			0.11	J		22			18			7.3			300			< 0.0069	U		25			< 0.61	U		0.64			44			13.1
SS-082_20250906	9/6/2025	2.9			58			0.19	J		17			43			7.1			200			0.018			14			< 0.62	U		< 0.14	U		30			10.2
SS-083_20250906	9/6/2025	4			100			0.33			22			60			8.8			300			< 0.0078	U		25			< 0.69	U		**1.8**			47			20.2
DUP-02_20250906 (SS-083_20250906	9/6/2025	4.2			110			0.14	J	J	21			72	F1	J-	8.9			290		J	0.012	J		24			< 0.67	UF1	UJ	0.49	JF1	J-	46	F1	J+	20.1
SS-084_20250906	9/6/2025	3.4			91			0.4	B		17			98			7.9			280			0.032			16			< 0.69	U		< 0.15	U		31			15.5
SS-085_20250906	9/6/2025	2.9			46			< 0.22	JB	U	19			77			6.8			190			0.025			17			< 0.64	U		< 0.14	U		29			14.7
SS-086_20250906	9/6/2025	1.9			58			0.18	J		17			30	B		9.9			330			0.024			18			< 0.6	U		**1.2**			51			11.7
SS-087_20250906	9/6/2025	3			64			0.71			11			**190**	B		4.8			150			0.03	J		11			< 1.6	U		0.81	J		23			68.4
SS-088_20250906	9/6/2025	3			35			0.24	J		12			100	B		9.8			130			0.067			8.7			< 0.74	U		0.74			24			24.3
SS-089_20250903	9/3/2025	**5.2**			150			0.39	B		**29**			**160**			11			440			0.025	J		32			< 1	U		< 0.22	U		50			49.2
SS-090_20250905	9/5/2025	2.1			24			0.18	J		7.1			50	B		7.1			88			0.028			4.5			< 0.7	U		0.5	J		19			20
SS-091_20250905	9/5/2025	3.1			44			0.24	J		9.4			44	B		11			900	F2	J	0.053			4			**0.96**	J		**2.2**	F1	J+	21	F1	J+	33.7
SS-092_20250905	9/5/2025	2.5			56			0.28	B		14			31			8.9			190			0.029			14			< 0.72	U		< 0.16	U		29			23.7
SS-093_20250903	9/3/2025	2.8			49			0.76	B		9.9			**190**			14			180			0.024			7.7			< 0.72	U		< 0.16	U		30			24.8
SS-094_20250904	9/4/2025	1.4			17			< 0.25	JB	U	6.8			14			4.9			56			0.019	J		5.6			< 0.73	U		0.42	J		15			20.4
SS-095_20250905	9/5/2025	2			28			0.19	J		12			28	B		7.8			180			0.019			9.2			< 0.67	U		0.67			28			18.9
SS-096_20250904	9/4/2025	4			120			0.3	B		22			38			12			410			0.044			26			< 0.75	U		< 0.17	U		51			34.5
SS-097_20250904	9/4/2025	2.4			50			< 0.24	JB	U	15			52			10			91			0.04			12			**1.1**	J		0.65			28			23.6
SS-098_20250904	9/4/2025	2.9			44			0.37	B		6.7			120		J	13		J	160			0.0094	J		4.3			**0.89**	J		0.9			16			22.7
DUP-01-SS_20250904 (SS-098_20250904)	9/4/2025	1.7			31			< 0.23	JB	U	6.6			58		J	7.2		J	140			0.013	J		3.7			< 0.67	U		< 0.15	U		12			16.5

Table 2
Soil Sampling Report
Shallow Soil Sampling Analytical Results
(0-0.5 feet below ground surface)

Analyte		Arsenic			Barium			Cadmium			Chromium (Total)*			Copper			Lead			Manganese			Mercury			Nickel			Selenium			Silver			Zinc			Moisture
CAS Number		7440-38-2			7440-39-3			7440-43-9			7440-47-3			7440-50-8			7439-92-1			7439-96-5			7439-97-6			7440-02-0			7782-49-2			7440-22-4			7440-66-6			
Analytical Method		EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			EPA 7471B			EPA 6010D			EPA 6010D			EPA 6010D			EPA 6010D			
Unit		mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			mg/Kg			%
Sample ID	Sample Date	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result	Lab Qual	Val Qual	Sample Result
SS-100_20250905	9/5/2025	2			38			< 0.23	JB	U	15			12			6.9			140			0.039			12			< 0.67	U		< 0.15	U		28			20.8
SS-101_20250904	9/4/2025	**8**			130			0.42	B		**41**			91			21			**4500**			0.062			27			**1.5**			**9.5**			**91**			35.2
SS-102_20250904	9/4/2025	1.3			15			< 0.21	JB	U	3.4			51			5.2			31			< 0.0073	U		1.6			< 0.61	U		0.16	J		4.7			8.2
SS-103_20250905	9/5/2025	2.8			83			0.75			15			51	B		11			490			0.04			12			< 0.82	U		**1.5**			64			28.6
SS-104_20250905	9/5/2025	2.3			50			0.14	J		17			25	B		9.6			140			0.029			13			< 0.7	U		0.8			31			27.2
	(Median)	3.1			60			0.28			16			120			7.4			210			0.018			16			0.66			0.8			32			16.5
EGLE Screening Criteria (1)																				hm																		
GSI-SWP		5.8	bg		200	calc		2.2	calc		24	bg		151	bg		2,500	calc		1,400	bg		0.13	bg		41	calc		0.5	bg		1.0	bg		88	calc		-
NDW-SWP		5.8	bg		1,300			6			30			5,800			700			1,400	bg		1.7			100			4.0			13.0			5,000			-
RDW-SWP		5.8	bg		1,300			6			30			5,800			700			1,400	bg		1.7			100			4.0			4.5			2,400			-
RPSI		720			330,000			1,700			260			130,000			100,000			3,300			20,000			13,000			130,000			6,700			ID			-
NPSI		910			150,000			2,200			240			59,000			44,000			1,500			8,800			16,000			59,000			2,900			ID			-
Residential Direct Contact		7.6			37,000			550			2,500			20,000			400			25,000			160			40,000			2,600			2,500			170,000			-
Nonresidential Direct Contact		37			130,000			2,100			9,200			73,000			900			90,000			580			150,000			9,600			9,000			630,000			-
Statewide Background (2)		5.8			75			1.2			18	(total)		32			21			440			0.13			20			0.41			1.0			47			-
Site Specific Background (3)		-			86			-			24			151			-			1,400			-			-			0.50			-			63			-

Notes:

Prepared by: DJD
Checked by: KB

Bold = Detections exceeding one or more EGLE Screening Criteria
J = Estimated value, may be potentially biased high (+) or low (-).
U = Not detected.
UJ = Not detected at an estimated reporting limit.
B = Detected in Method Blank.
F1 = Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) recovery outside control limits.
F2 = MS/MSD Relative Percent Difference (RPD) recovery outside control limits.
1. EGLE Generic Residential/Nonresidential Cleanup Criteria, Integrated Tables of Part 201 Clean-up Criteria. Revised October 2023.
2. Statewide Default Background Levels, Integrated Tables of Part 201 Clean-up Criteria. Revised October 2023.
3. Site-specific background levels provided in the RI report.
calc = GSI-SWP values are hardness dependent. Average hardness of the Mineral River (72 mg/L CaCO3) used for calculation.

bg = If Screening Level is above statewide or site specific background, the background concentration is used.
* Screening criteria is for Chromium VI unless otherwise noted.
GSI = Groundwater/Surface Water Interface
ID = Insufficient data per EGLE.
mg/Kg = milligram per kilogram
NDW = Non-residential Drinking Water
NPSI = Non-residential Partiulate Soil Inhalation
RDW = Residential Drinking Water
RPSI = Residential Particulate Soil Inhalation
SWP = Soil-Water Partitioning

Figures



Lake Superior

M-64

Rockland Rd

Porcupine Mountains Wilderness State Park

Ontonagon Township

Carp Lake Township

White Pine North Underground Mine Area

M-64

Ontonagon County

Rockland Township

Ironwood Township

Gogebic County

Bergland Township

Matchwood Township

Stannard Township

M-28

Wakefield Township

M-64

Lake Gogebic

M-28

McMillan Township

M-28

Bessemer Township

City of Bessemer

City of Wakefield

Marenisco Township

Haight Township

NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.
5. Site layout and infrastructure is based on 2019 White Pine North Copper Project PEA.

LEGEND

- Major Road
- Minor Road
- Lake/Pond
- River/Stream
- Site Investigation Area
- Proposed White Pine North Underground Mine Area
- Municipal Boundary
- County Boundary
- Ottawa National Forest Boundary
- Porcupine Mountains Wilderness State Park
- USDA Forest Service Owned Property

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

Foth

N

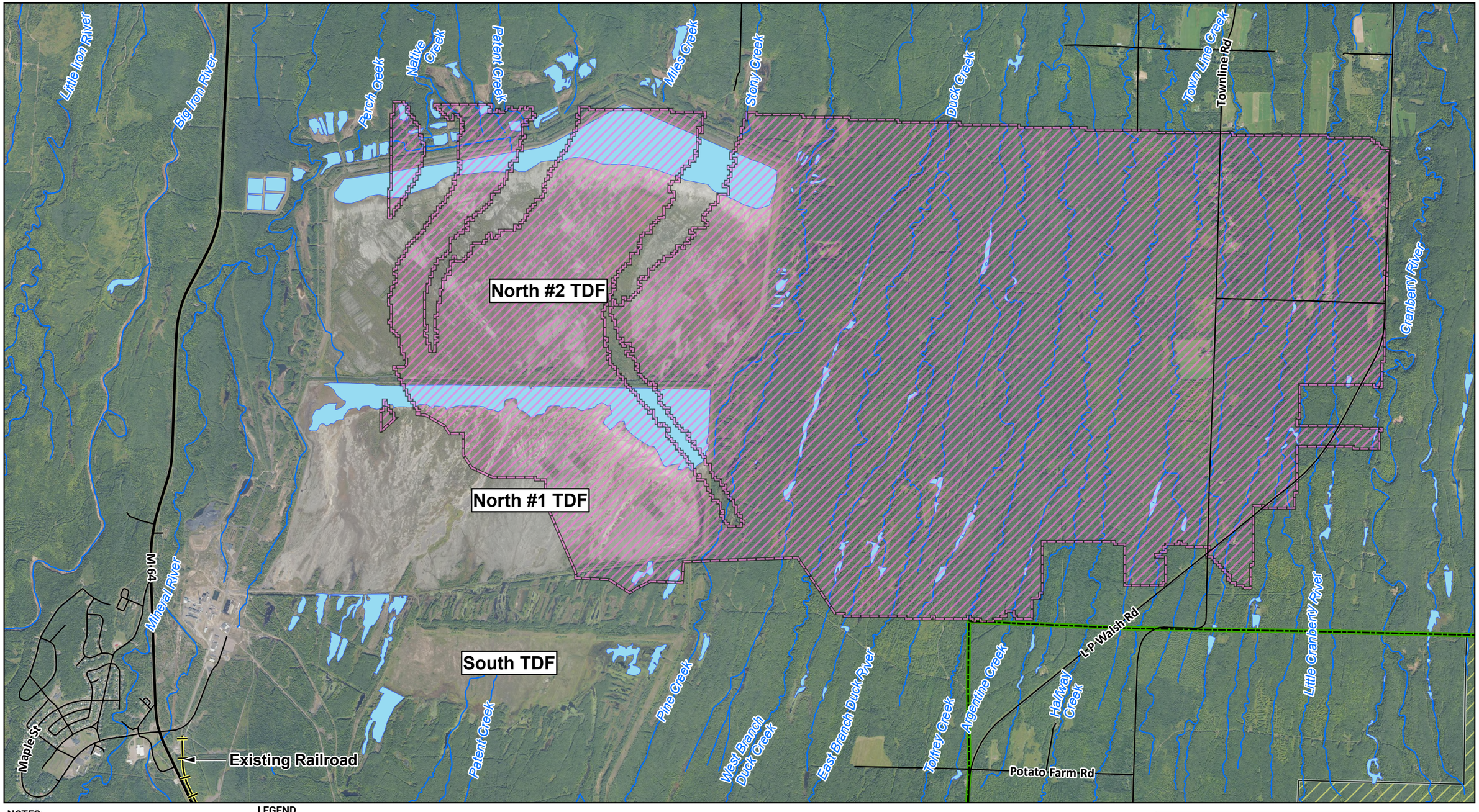
0 1,000 2,000 Feet

WHITE PINE COPPER LLC

FIGURE 1
PROJECT LOCATION MAP
SOIL SAMPLING REPORT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Date: FEBRUARY 2026	Revision Date:		
Drawn By: ACS1	Checked By: DJD4	Project: 25W006	

Q:\White Pine Copper\23W200\GIS\aprx\2025 Soil Sampling Work Plan.aprx 8/28/2025 3:15 PM



NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.
5. Site layout and infrastructure is based on 2019 White Pine North Copper Project PEA.

LEGEND

- Proposed White Pine North Underground Mine Area
- Ottawa National Forest Boundary
- Major Road
- Minor Road
- Existing Railroad
- River/Stream
- Lake/Pond

Foth

N

0 1,500 3,000 Feet

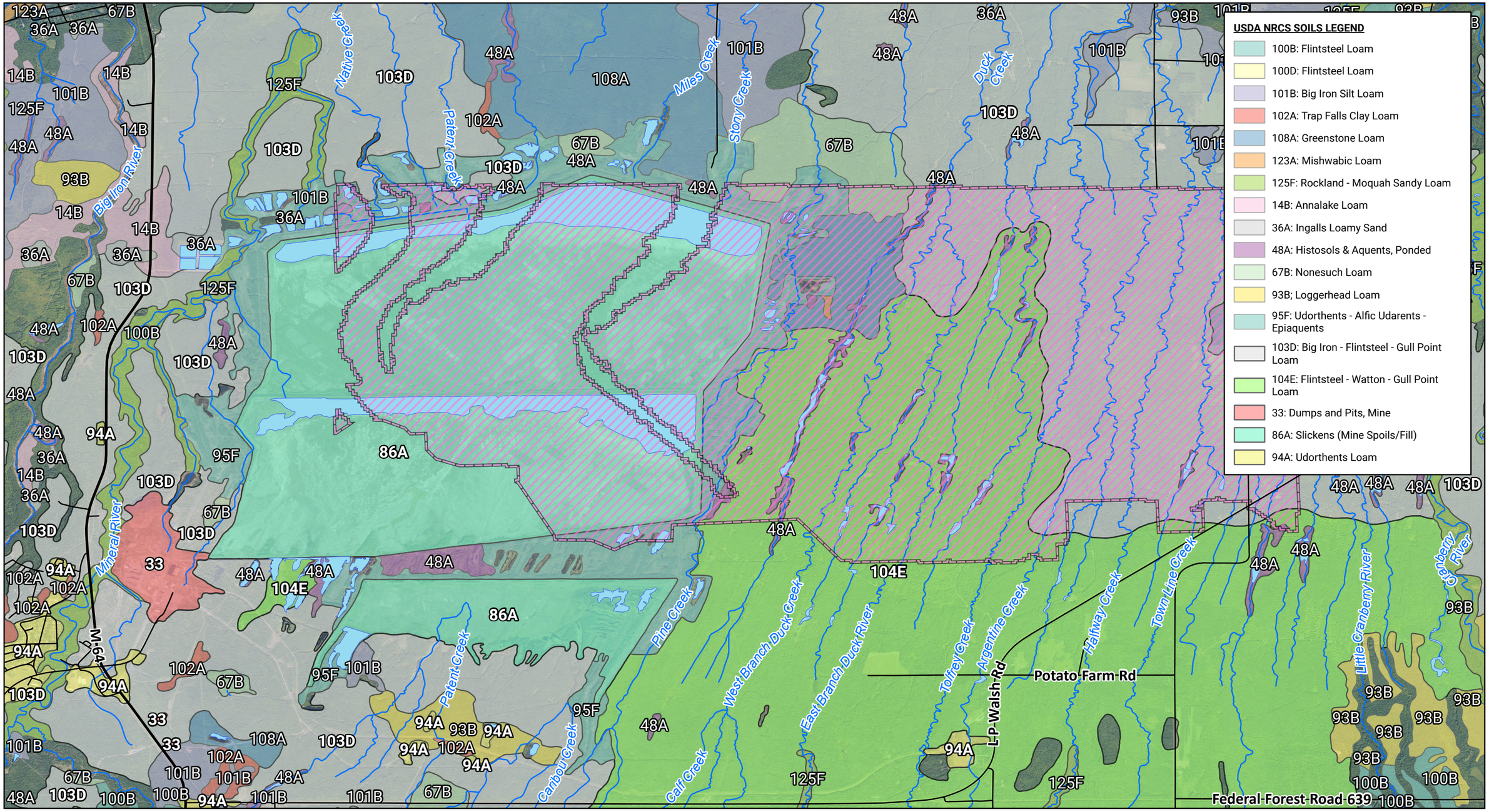
This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

WHITE PINE COPPER LLC

FIGURE 2
SITE INVESTIGATION AREA
SOIL SAMPLING REPORT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Date: FEBRUARY 2026	Revision Date:	
Drawn By: ACS1	Checked By: DJD4	Project: 25W006

Q:\White Pine Copper\23W200\GIS\aprx\2025 Soil Sampling Work Plan.aprx 2/27/2026 11:01 AM



NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.
5. Site layout and infrastructure is based on 2019 White Pine North Copper Project PEA.
6. Soils data from USDA NRCS.

LEGEND

- Proposed White Pine North Underground Mine Area
- Major Road
- Minor Road
- River/Stream
- Lake/Pond

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

Foth

N

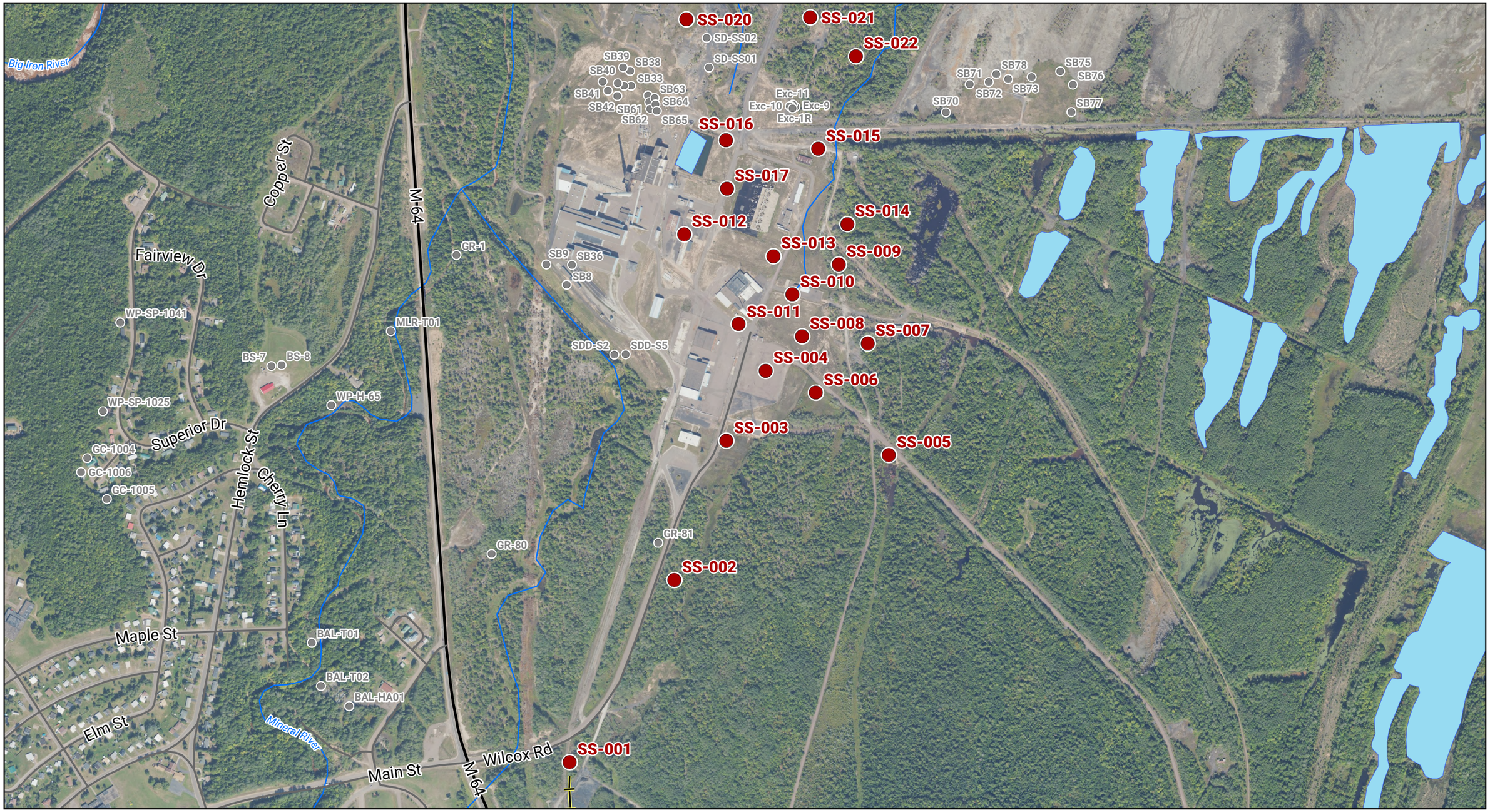
0 2,000 4,000 Feet

WHITE PINE COPPER LLC

FIGURE 3
USDA NRCS SOILS MAP
SOIL SAMPLING REPORT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Date: FEBRUARY 2026	Revision Date:		
Drawn By: ACS1	Checked By: DJD4	Project: 25W006	

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NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.
5. Site layout and infrastructure is based on 2019 White Pine North Copper Project PEA.

LEGEND

- Soil Sampling Locations
- Historical Soil Sample Locations
- Existing Railroad
- Major Road
- Minor Road
- River/Stream
- Lake/Pond

Foth

N

0 500 1,000 Feet

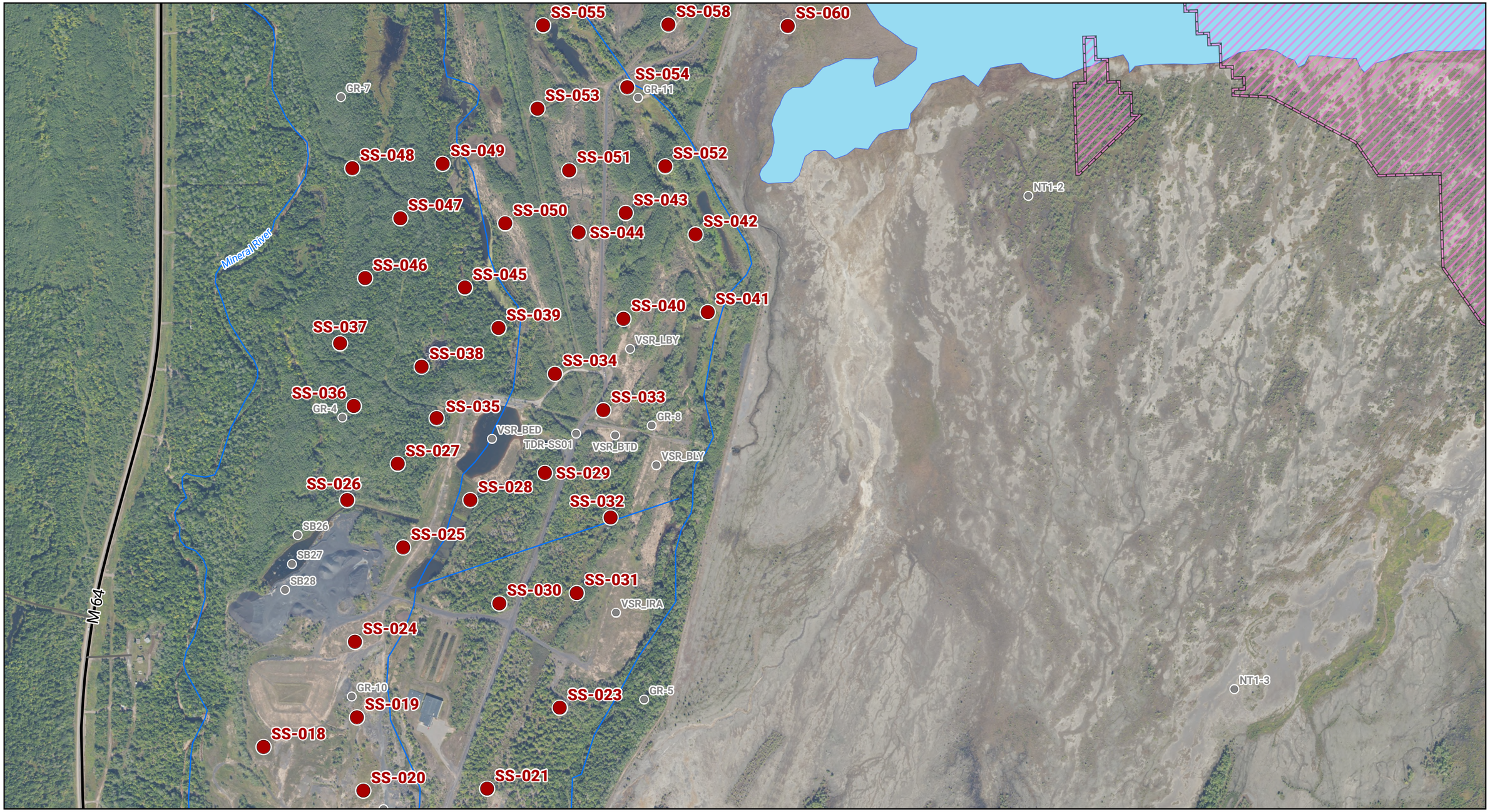
This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

WHITE PINE COPPER LLC

FIGURE 4
SOIL SAMPLING LOCATIONS
FORMER MAIN FACILITIES AREA
SOIL SAMPLING REPORT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Date: FEBRUARY 2026	Revision Date:	
Drawn By: ACS1	Checked By: DJD4	Project: 25W006

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NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.
5. Site layout and infrastructure is based on 2019 White Pine North Copper Project PEA.

LEGEND

- Soil Sampling Location
- Historical Soil Sample Locations
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Proposed White Pine North Underground Mine Area

Foth

N

0 500 1,000 Feet

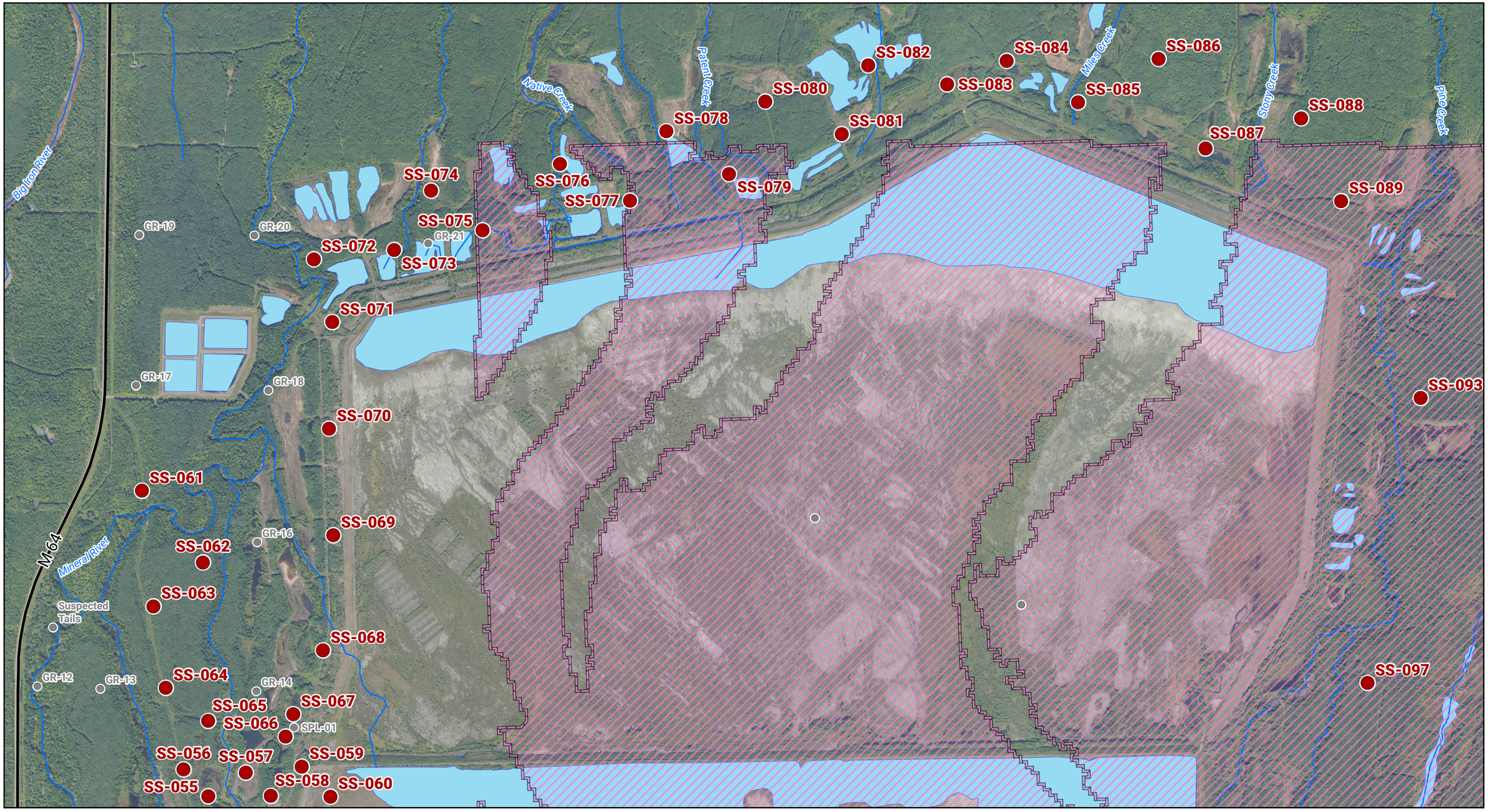
This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

WHITE PINE COPPER LLC

FIGURE 5
SOIL SAMPLING LOCATIONS
SOUTHERN SITE INVESTIGATION AREA
SOIL SAMPLING REPORT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Date: FEBRUARY 2026	Revision Date:		
Drawn By: ACS1	Checked By: DJD4	Project: 25W006	

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NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.
5. Site layout and infrastructure is based on 2019 White Pine North Copper Project PEA.

LEGEND

- Soil Sampling Location
- Historical Soil Sample Location
- Major Road
- Minor Road
- River/Stream
- Lake/Pond
- Proposed White Pine North Underground Mine Area

Foth

N

0 1,000 2,000 Feet

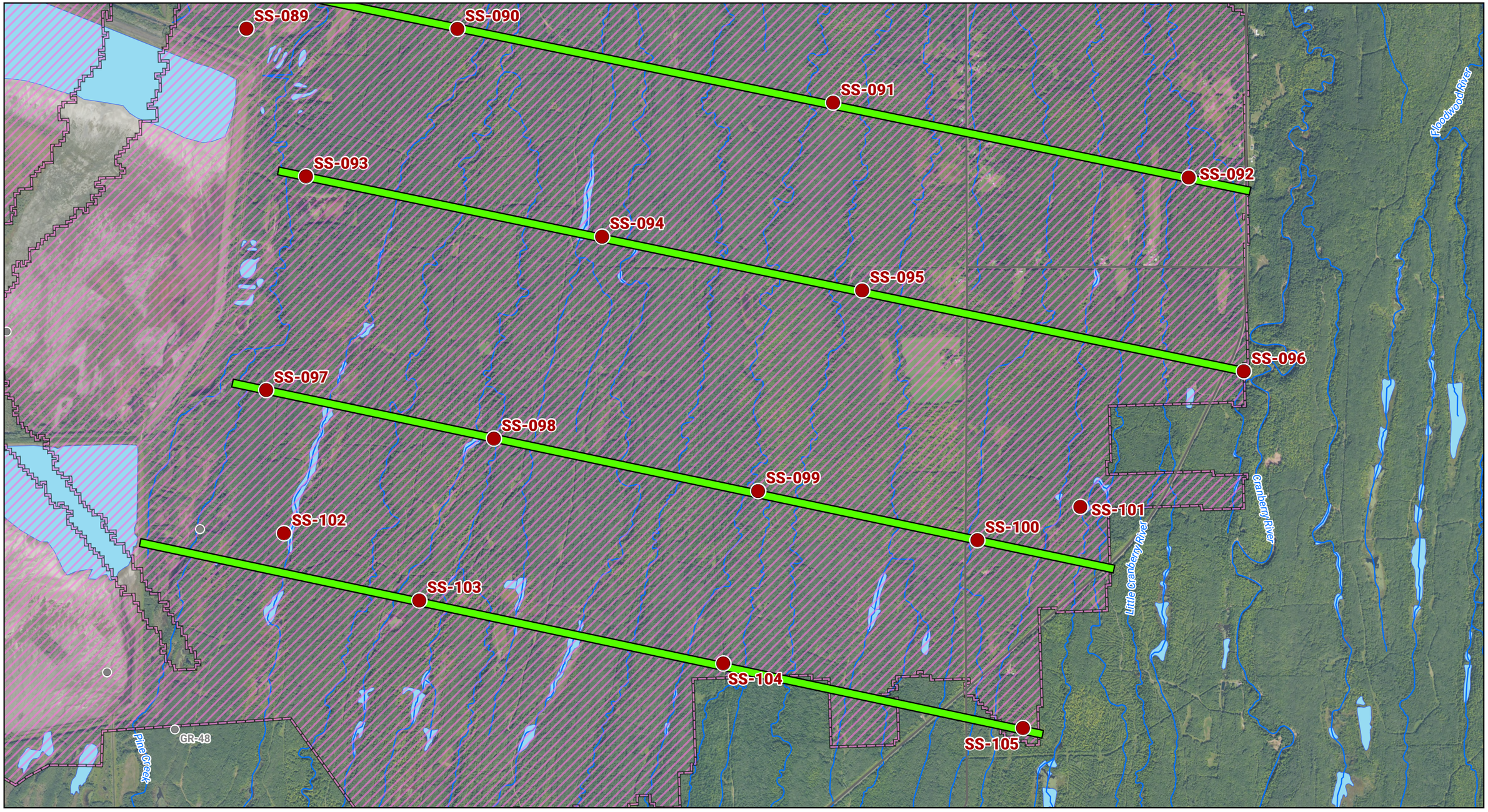
This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

WHITE PINE COPPER LLC

FIGURE 6
SOIL SAMPLING LOCATIONS
NORTHERN SITE INVESTIGATION AREA
SOIL SAMPLING REPORT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Date: FEBRUARY 2026	Revision Date:		
Drawn By: ACS1	Checked By: DJD4	Project: 25W006	

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NOTES:

1. Base air photo from the USDA.
2. Horizontal coordinate system is NAD1983 UTM Zone, 16N, units in meters.
3. Hydrographic data from the USGS.
4. Road and boundary data from Michigan GIS Open Data and the USFS.
5. Site layout and infrastructure is based on 2019 White Pine North Copper Project PEA.

LEGEND

- Soil Sampling Location
- Historical Soil Sample Location
- Wetland Transect
- Proposed White Pine North Underground Mine Area
- Minor Road
- River/Stream
- Lake/Pond

Foth

N

0 1,250 2,500 Feet

This drawing is neither a legally recorded map nor a survey and is not intended to be used as one. This drawing is a compilation of records, information and data used for reference purposes only.

WHITE PINE COPPER LLC

FIGURE 7
SOIL SAMPLING LOCATIONS
EAST OF SITE INVESTIGATION AREA
SOIL SAMPLING REPORT
WHITE PINE NORTH, ONTONAGON COUNTY, MI

Date: FEBRUARY 2026	Revision Date:		
Drawn By: ACS1	Checked By: DJD4	Project: 25W006	

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Appendix A

Field Forms

Foth Tailgate Safety Meeting Form

GENERAL INFORMATION			
Project:	White Pine Soil Sampling	Today's Date/ Time:	9/3/25
Location:	White Pine Area		

Wheel Chocks [✓] Strobe Used [✓] Backed into Parking Spot [✓] Radio in Working Order [✓]

Safety Topics Presented	
Daily Activities	Drive to site, Soil Sample
Weather/Work:	Rainy, Cloudy - 45-60° F West/NW Wind 5-10 mph
Health and Safety Issues:	Slips/Trips/Falls Driving, Storms
Special Review Topic:	UTV Safety
Questions:	

Participants		
Name (printed):	Signature:	Company
Justin Brown		Foth
Logan Carpenter		FOTH

Meeting Details			
Meeting Conducted By (Name)		Signature:	Justin Brown

Date: 9/3/25

Foth

Truck Inspection (Prior to entering site)

Pick-ups/Non Airbrake Equipped Trucks

Make/Model:	Ram 1500
VIN or License Plate #:	RM8904
Odometer Reading:	~~65~~ 65769

Fuel Level: E - - - - - | - - - - - (F)

	Satisfactory Yes	No
VEHICLE EXTERIOR:		
Windows/Windshield crack/chipped:	☑	☐
Functional windshield wipers:	☑	☐
Headlights (low/high beam):	☑	☐
Tail lights/Brake lights:	☑	☐
Emergency hazard lights:	☑	☐
Emergency brake in good working order:	☑	☐
Power brakes are in good working order:	☑	☐
Horn:	☑	☐
Tires in good shape (no damage/bald tires/properly inflated):	☑	☐
No oil/grease leaks (at wheel seals or under vehicle):	☑	☐
Mirrors are in good position and properly adjusted:	☑	☐
Exhaust system in good working order:	☑	☐
Wheels and lug nuts are fitted tightly:	☑	☐
Turn signals:	☑	☐
Vehicle is free of excessive damage:	☑	☐
All loads are fastened / secured appropriately:	☑	☐
Vehicle condition is satisfactory:	☑	☐
ENGINE COMPARTMENT:		
Engine oil level:	☑	☐
Coolant level:	☑	☐
Battery secured:	☑	☐
Battery clean from corrosion	☑	☐
Brake fluid level:	☑	☐
Transmission fluid level:	☑	☐
Windshield washer fluid level:	☑	☐

	Satisfactory Yes	Satisfactory No
VEHICLE INTERIOR:		
Heating:	☑	☐
Air Conditioning:	☑	☐
Windshield defogging system:	☑	☐
Window operation:	☑	☐
Door handles/ locks:	☑	☐
Seat condition:	☑	☐
Seat belts work and free of damage / excessive wear:	☑	☐
Interior lights:	☑	☐
Mirrors are in good condition and properly adjusted:	☑	☐
No warning lights are on:	☑	☐
Gauges functional:	☑	☐
Housekeeping (Clean/ Free of excess garbage):	☑	☐
	☑	☐
	☑	☐
SAFETY EQUIPMENT:		
Chock Blocks:	☑	☐
Standard First Aid Kit:	☑	☐
Fire extinguisher (charged/up to date):	☑	☐
Material/Equipment safely secured:	☑	☐

ADDITIONAL COMMENTS:

Drive Safe

Inspection Performed By:

Employee Name: Justin Brown

Signature:

Date and Time: 9/3/25 0640

Foth Tailgate Safety Meeting Form

GENERAL INFORMATION			
Project:	2025 White Pine Soil	Today's Date/ Time:	9/4/25 0800
Location:	WP Area		

Wheel Chocks [✓] Strobe Used [✓] Backed into Parking Spot [✓] Radio in Working Order [✓]

Safety Topics Presented	
Daily Activities	Driving, Soil Sampling, Piezo installs
Weather/Work:	Partly Cloudy 45-55°F Spotty Showers West wind 15-25 mph
Health and Safety Issues:	Slips/Trips/Falls Driving/UTV Lifting Material
Special Review Topic:	always utilize a spotter whenever possible when Backing up
Questions:	

Participants		
Name (printed):	Signature:	Company
Justin Brown		Foth
Logan Carpenter		Foth

Meeting Details			
Meeting Conducted By (Name)	Justin Brown	Signature:	

Date: 9/4/25

Foth

Truck Inspection (Prior to entering site)

Pick-ups/Non Airbrake Equipped Trucks

Make/Model:	Ram 1500
VIN or License Plate #:	Rm 8904
Odometer Reading:	

Fuel Level: E - -(-)- - | - - - - - F
getting Fuel this morning

	Satisfactory Yes	Satisfactory No
VEHICLE EXTERIOR:		
Windows/Windshield crack/chipped:	☑	☐
Functional windshield wipers:	☑	☐
Headlights (low/high beam):	☑	☐
Tail lights/Brake lights:	☑	☐
Emergency hazard lights:	☑	☐
Emergency brake in good working order:	☑	☐
Power brakes are in good working order:	☑	☐
Horn:	☑	☐
Tires in good shape (no damage/bald tires/properly inflated):	☑	☐
No oil/grease leaks (at wheel seals or under vehicle):	☑	☐
Mirrors are in good position and properly adjusted:	☑	☐
Exhaust system in good working order:	☑	☐
Wheels and lug nuts are fitted tightly:	☑	☐
Turn signals:	☑	☐
Vehicle is free of excessive damage:	☑	☐
All loads are fastened / secured appropriately:	☑	☐
Vehicle condition is satisfactory:	☑	☐
	☑	☐
ENGINE COMPARTMENT:		
Engine oil level:		
Coolant level:	☑	☐
Battery secured:	☑	☐
Battery clean from corrosion	☑	☐
Brake fluid level:	☑	☐
Transmission fluid level:	☑	☐
Windshield washer fluid level:	☑	☐
	☑	☐
	☑	☐

	Satisfactory Yes	No
VEHICLE INTERIOR:		
Heating:	☑	☐
Air Conditioning:	☑	☐
Windshield defogging system:	☑	☐
Window operation:	☑	☐
Door handles/ locks:	☑	☐
Seat condition:	☑	☐
Seat belts work and free of damage / excessive wear:	☑	☐
Interior lights:	☑	☐
Mirrors are in good condition and properly adjusted:	☑	☐
No warning lights are on:	☑	☐
Gauges functional:	☑	☐
Housekeeping (Clean/ Free of excess garbage):	☑	☐
	☑	☐
	☑	☐
SAFETY EQUIPMENT:		
Chock Blocks:	☑	☐
Standard First Aid Kit:	☑	☐
Fire extinguisher (charged/up to date):	☑	☐
Material/Equipment safely secured:	☑	☐
	☑	☐

ADDITIONAL COMMENTS:

Drive Safe

Inspection Performed By:

Employee Name: Justin Brown

Signature:

Date and Time: 9/9/25 0748

Foth Tailgate Safety Meeting Form

GENERAL INFORMATION			
Project:	2025 Soil sampling	Today's Date/ Time:	9/5/25 0800
Location:	White Pine Area		

Wheel Chocks [✓] Strobe Used [✓] Backed into Parking Spot [✓] Radio in Working Order [ ]

Safety Topics Presented	
Daily Activities	Driving, soil sampling
Weather/Work:	Cloudy - 45-55 Chance of rain wind 20-40mph
Health and Safety Issues:	Driving, slips trips falls, UTV use, wind
Special Review Topic:	When working in forested areas, look above for dead or loose limbs and avoid working under those limbs
Questions:	

Participants		
Name (printed):	Signature:	Company
Justin Brown		Foth
Logan Carpenter		Foth

Meeting Details			
Meeting Conducted By (Name)	Justin Brown	Signature:	

Date: 9/5/25

Foth

Truck Inspection (Prior to entering site)

Pick-ups/Non Airbrake Equipped Trucks

Make/Model:	Ram 1500
VIN or License Plate #:	12M8904
Odometer Reading:	66060

Fuel Level: E - - - - - | - - - - F

	Satisfactory Yes	Satisfactory No
VEHICLE EXTERIOR:		
Windows/Windshield crack/chipped:	☑	☐
Functional windshield wipers:	☑	☐
Headlights (low/high beam):	☑	☐
Tail lights/Brake lights:	☑	☐
Emergency hazard lights:	☑	☐
Emergency brake in good working order:	☑	☐
Power brakes are in good working order:	☑	☐
Horn:	☑	☐
Tires in good shape (no damage/bald tires/properly inflated):	☑	☐
No oil/grease leaks (at wheel seals or under vehicle):	☑	☐
Mirrors are in good position and properly adjusted:	☑	☐
Exhaust system in good working order:	☑	☐
Wheels and lug nuts are fitted tightly:	☑	☐
Turn signals:	☑	☐
Vehicle is free of excessive damage:	☑	☐
All loads are fastened / secured appropriately:	☑	☐
Vehicle condition is satisfactory:	☑	☐
ENGINE COMPARTMENT:		
Engine oil level:	☑	☐
Coolant level:	☑	☐
Battery secured:	☑	☐
Battery clean from corrosion	☑	☐
Brake fluid level:	☑	☐
Transmission fluid level:	☑	☐
Windshield washer fluid level:	☑	☐

	Satisfactory Yes	No
VEHICLE INTERIOR:		
Heating:	☑	☐
Air Conditioning:	☑	☐
Windshield defogging system:	☑	☐
Window operation:	☑	☐
Door handles/ locks:	☑	☐
Seat condition:	☑	☐
Seat belts work and free of damage / excessive wear:	☑	☐
Interior lights:	☑	☐
Mirrors are in good condition and properly adjusted:	☑	☐
No warning lights are on:	☑	☐
Gauges functional:	☑	☐
Housekeeping (Clean/ Free of excess garbage):	☑	☐
SAFETY EQUIPMENT:		
Chock Blocks:	☑	☐
Standard First Aid Kit:	☑	☐
Fire extinguisher (charged/up to date):	☑	☐
Material/Equipment safely secured:	☑	☐

ADDITIONAL COMMENTS:

Inspection Performed By:

Employee Name: Justin Bach

Signature:

Date and Time: 9/5/25 0745

Foth Tailgate Safety Meeting Form

GENERAL INFORMATION			
Project: 2025 Soil Sampling		Today's Date/ Time:	8/6/25 0730
Location: White Pine Area			

Wheel Chocks [✓] Strobe Used [✓] Backed into Parking Spot [✓] Radio in Working Order [✓]

Safety Topics Presented	
Daily Activities	Driving, soil sampling
Weather/Work:	Sunny - 45-55°F west wind 10-20mph
Health and Safety Issues:	Slips trips falls, Poor road conditions,
Special Review Topic:	Use 3 points of contact when entering vehicles, trailers,
Questions:	

Participants		
Name (printed):	Signature:	Company
Justin Baun		foth
Logan Carpenter		FOTH

Meeting Details			
Meeting Conducted By (Name)	Justin Baun	Signature:	

Date: 9/6/25

Foth

Truck Inspection (Prior to entering site)

Pick-ups/Non Airbrake Equipped Trucks

Make/Model:	Ram 1500
VIN or License Plate #:	RM8904
Odometer Reading:	66126

Fuel Level: E - - - - | - - - - F

	Satisfactory Yes	Satisfactory No
VEHICLE EXTERIOR:		
Windows/Windshield crack/chipped:	☑	☐
Functional windshield wipers:	☑	☐
Headlights (low/high beam):	☑	☐
Tail lights/Brake lights:	☑	☐
Emergency hazard lights:	☑	☐
Emergency brake in good working order:	☑	☐
Power brakes are in good working order:	☑	☐
Horn:	☑	☐
Tires in good shape (no damage/bald tires/properly inflated):	☑	☐
No oil/grease leaks (at wheel seals or under vehicle):	☑	☐
Mirrors are in good position and properly adjusted:	☑	☐
Exhaust system in good working order:	☑	☐
Wheels and lug nuts are fitted tightly:	☑	☐
Turn signals:	☑	☐
Vehicle is free of excessive damage:	☑	☐
All loads are fastened / secured appropriately:	☑	☐
Vehicle condition is satisfactory:	☑	☐
ENGINE COMPARTMENT:		
Engine oil level:		
Coolant level:	☑	☐
Battery secured:	☑	☐
Battery clean from corrosion	☑	☐
Brake fluid level:	☑	☐
Transmission fluid level:	☑	☐
Windshield washer fluid level:	☑	☐
	☑	☐

	Satisfactory Yes	No
VEHICLE INTERIOR:		
Heating:	☑	☐
Air Conditioning:	☑	☐
Windshield defogging system:	☑	☐
Window operation:	☑	☐
Door handles/ locks:	☑	☐
Seat condition:	☑	☐
Seat belts work and free of damage / excessive wear:	☑	☐
Interior lights:	☑	☐
Mirrors are in good condition and properly adjusted:	☑	☐
No warning lights are on:	☑	☐
Gauges functional:	☑	☐
Housekeeping (Clean/ Free of excess garbage):	☑	☐
SAFETY EQUIPMENT:		
Chock Blocks:	☑	☐
Standard First Aid Kit:	☑	☐
Fire extinguisher (charged/up to date):	☑	☐
Material/Equipment safely secured:	☑	☐

ADDITIONAL COMMENTS:

Right Rear tire is showing excessive wear

Inspection Performed By:

Employee Name: Justin Bou

Signature: [signature]

Date and Time: 9/6/25 0745

Foth Tailgate Safety Meeting Form

GENERAL INFORMATION			
Project:	2025 Soil Sampling	Today's Date/ Time:	0725 09/08/25
Location:	White Pine Area		

Wheel Chocks [✓] Strobe Used [✓] Backed into Parking Spot [✓] Radio in Working Order [✓]

Safety Topics Presented	
Daily Activities	Driving, Soil Sampling
Weather/Work:	Sunny - 50-70°F South wind 5-10mph
Health and Safety Issues:	Slips, trips, Falls Driving, UTV use
Special Review Topic:	Sit with good Posture while Driving to Keep the Back Healthy and happy
Questions:	

Participants		
Name (printed):	Signature:	Company
Justin Bram		Foth
Logan Carpenter		FOTH

Meeting Details			
Meeting Conducted By (Name)	Justin Bram	Signature:	

Date: 9/8/25

Foth

Truck Inspection (Prior to entering site)

Pick-ups/Non Airbrake Equipped Trucks

Make/Model:	Ram 1500
VIN or License Plate #:	RM8904
Odometer Reading:	

Fuel Level: E - 0 - - | - - - - - F

	Satisfactory Yes	Satisfactory No
VEHICLE EXTERIOR:		
Windows/Windshield crack/chipped:	☑	☐
Functional windshield wipers:	☑	☐
Headlights (low/high beam):	☑	☐
Tail lights/Brake lights:	☑	☐
Emergency hazard lights:	☑	☐
Emergency brake in good working order:	☑	☐
Power brakes are in good working order:	☑	☐
Horn:	☑	☐
Tires in good shape (no damage/bald tires/properly inflated):	☑	☐
No oil/grease leaks (at wheel seals or under vehicle):	☑	☐
Mirrors are in good position and properly adjusted:	☑	☐
Exhaust system in good working order:	☑	☐
Wheels and lug nuts are fitted tightly:	☑	☐
Turn signals:	☑	☐
Vehicle is free of excessive damage:	☑	☐
All loads are fastened / secured appropriately:	☑	☐
Vehicle condition is satisfactory:	☑	☐
	☑	☐
ENGINE COMPARTMENT:		
Engine oil level:		
Coolant level:	☑	☐
Battery secured:	☑	☐
Battery clean from corrosion	☑	☐
Brake fluid level:	☑	☐
Transmission fluid level:	☑	☐
Windshield washer fluid level:	☑	☐
	☑	☐
	☑	☐

	Satisfactory Yes	No
VEHICLE INTERIOR:		
Heating:	☑	☐
Air Conditioning:	☑	☐
Windshield defogging system:	☑	☐
Window operation:	☑	☐
Door handles/ locks:	☑	☐
Seat condition:	☑	☐
Seat belts work and free of damage / excessive wear:	☑	☐
Interior lights:	☑	☐
Mirrors are in good condition and properly adjusted:	☑	☐
No warning lights are on:	☑	☐
Gauges functional:	☑	☐
Housekeeping (Clean/ Free of excess garbage):	☑	☐
	☑	☐
	☑	☐
SAFETY EQUIPMENT:		
Chock Blocks:	☑	☐
Standard First Aid Kit:	☑	☐
Fire extinguisher (charged/up to date):	☑	☐
Material/Equipment safely secured:	☑	☐

ADDITIONAL COMMENTS:

Drive Safe use good Posture

Inspection Performed By:

Employee Name:	Justin Brown
Signature:	
Date and Time:	9/8/25 0730

Appendix B

Laboratory Analytical Data Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 9/19/2025 1:30:00 PM

JOB DESCRIPTION

White Pine Copper Soils

JOB NUMBER

500-274542-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

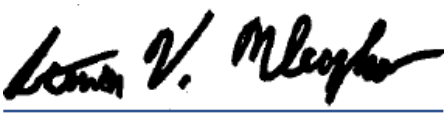
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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9/19/2025 1:30:00 PM

Authorized for release by
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Job ID: 500-274542-1 — Eurofins Chicago

Job Narrative
500-274542-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/12/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 4.0°C, 5.0°C, 5.6°C, 5.7°C and 5.8°C.

Metals
Method 6010D: The method blank for preparation batch 500-834227 and analytical batch 500-834531 contained Cadmium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010D: The method blank for preparation batch 500-834228 and analytical batch 500-834531 contained Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-093_20250903 — Lab Sample ID: 500-274542-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.2	0.42	mg/Kg	1	☼	6010D	Total/NA
Barium	49		1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.76	B	0.25	0.044	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.9		1.2	0.61	mg/Kg	1	☼	6010D	Total/NA
Copper	190		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Lead	14		0.62	0.28	mg/Kg	1	☼	6010D	Total/NA
Manganese	180		1.2	0.18	mg/Kg	1	☼	6010D	Total/NA
Nickel	7.7		1.2	0.36	mg/Kg	1	☼	6010D	Total/NA
Zinc	30		2.5	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.024		0.020	0.0084	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-089_20250903 — Lab Sample ID: 500-274542-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		1.7	0.58	mg/Kg	1	☼	6010D	Total/NA
Barium	150		1.7	0.19	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.39	B	0.34	0.061	mg/Kg	1	☼	6010D	Total/NA
Chromium	29		1.7	0.84	mg/Kg	1	☼	6010D	Total/NA
Copper	160		1.7	0.48	mg/Kg	1	☼	6010D	Total/NA
Lead	11		0.85	0.39	mg/Kg	1	☼	6010D	Total/NA
Manganese	440		1.7	0.25	mg/Kg	1	☼	6010D	Total/NA
Nickel	32		1.7	0.49	mg/Kg	1	☼	6010D	Total/NA
Zinc	50		3.4	1.5	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.025	J	0.032	0.013	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-094_20250904 — Lab Sample ID: 500-274542-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.4		1.2	0.42	mg/Kg	1	☼	6010D	Total/NA
Barium	17		1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.13	J B	0.25	0.045	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.8		1.2	0.61	mg/Kg	1	☼	6010D	Total/NA
Copper	14		1.2	0.35	mg/Kg	1	☼	6010D	Total/NA
Lead	4.9		0.62	0.29	mg/Kg	1	☼	6010D	Total/NA
Manganese	56		1.2	0.18	mg/Kg	1	☼	6010D	Total/NA
Nickel	5.6		1.2	0.36	mg/Kg	1	☼	6010D	Total/NA
Silver	0.42	J	0.62	0.16	mg/Kg	1	☼	6010D	Total/NA
Zinc	15		2.5	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.019	J	0.020	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-101_20250904 — Lab Sample ID: 500-274542-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		1.3	0.46	mg/Kg	1	☼	6010D	Total/NA
Barium	130		1.3	0.15	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.42	B	0.27	0.048	mg/Kg	1	☼	6010D	Total/NA
Chromium	41		1.3	0.66	mg/Kg	1	☼	6010D	Total/NA
Copper	91		1.3	0.37	mg/Kg	1	☼	6010D	Total/NA
Lead	21		0.67	0.31	mg/Kg	1	☼	6010D	Total/NA
Manganese	4500		6.7	0.97	mg/Kg	5	☼	6010D	Total/NA
Nickel	27		1.3	0.39	mg/Kg	1	☼	6010D	Total/NA
Selenium	1.5		1.3	0.79	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-101_20250904 (Continued) — Lab Sample ID: 500-274542-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	9.5		3.3	0.86	mg/Kg	5	☼	6010D	Total/NA
Zinc	91		2.7	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.062		0.023	0.0094	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-097_20250904 — Lab Sample ID: 500-274542-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.4		1.2	0.40	mg/Kg	1	☼	6010D	Total/NA
Barium	50		1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.19	J B	0.24	0.042	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		1.2	0.58	mg/Kg	1	☼	6010D	Total/NA
Copper	52		1.2	0.33	mg/Kg	1	☼	6010D	Total/NA
Lead	10		0.59	0.27	mg/Kg	1	☼	6010D	Total/NA
Manganese	91		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	12		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Selenium	1.1	J	1.2	0.69	mg/Kg	1	☼	6010D	Total/NA
Silver	0.65		0.59	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	28		2.4	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.040		0.021	0.0086	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-098_20250904 — Lab Sample ID: 500-274542-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9		1.3	0.44	mg/Kg	1	☼	6010D	Total/NA
Barium	44		1.3	0.15	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.37	B	0.26	0.046	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.7		1.3	0.64	mg/Kg	1	☼	6010D	Total/NA
Copper	120		1.3	0.36	mg/Kg	1	☼	6010D	Total/NA
Lead	13		0.64	0.30	mg/Kg	1	☼	6010D	Total/NA
Manganese	160		1.3	0.19	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.3		1.3	0.37	mg/Kg	1	☼	6010D	Total/NA
Selenium	0.89	J	1.3	0.76	mg/Kg	1	☼	6010D	Total/NA
Silver	0.90		0.64	0.17	mg/Kg	1	☼	6010D	Total/NA
Zinc	16		2.6	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0094	J	0.020	0.0083	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-096_20250904 — Lab Sample ID: 500-274542-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.0		1.3	0.44	mg/Kg	1	☼	6010D	Total/NA
Barium	120		1.3	0.15	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.30	B	0.26	0.046	mg/Kg	1	☼	6010D	Total/NA
Chromium	22		1.3	0.63	mg/Kg	1	☼	6010D	Total/NA
Copper	38		1.3	0.36	mg/Kg	1	☼	6010D	Total/NA
Lead	12		0.64	0.30	mg/Kg	1	☼	6010D	Total/NA
Manganese	410		1.3	0.19	mg/Kg	1	☼	6010D	Total/NA
Nickel	26		1.3	0.37	mg/Kg	1	☼	6010D	Total/NA
Zinc	51		2.6	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.044		0.024	0.010	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-102_20250904 — Lab Sample ID: 500-274542-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.3		1.0	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	15		1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.13	J B	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	3.4		1.0	0.52	mg/Kg	1	☼	6010D	Total/NA
Copper	51		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	5.2		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	31		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	1.6		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	0.16	J	0.52	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	4.7		2.1	0.92	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: DUP-01-SS_20250904 — Lab Sample ID: 500-274542-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.7		1.1	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	31		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.19	J B	0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.6		1.1	0.56	mg/Kg	1	☼	6010D	Total/NA
Copper	58		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	7.2		0.57	0.26	mg/Kg	1	☼	6010D	Total/NA
Manganese	140		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.7		1.1	0.33	mg/Kg	1	☼	6010D	Total/NA
Zinc	12		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.013	J	0.019	0.0077	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-100_20250905 — Lab Sample ID: 500-274542-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.0		1.1	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	38		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.15	J B	0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		1.1	0.57	mg/Kg	1	☼	6010D	Total/NA
Copper	12		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	6.9		0.57	0.26	mg/Kg	1	☼	6010D	Total/NA
Manganese	140		1.1	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	12		1.1	0.33	mg/Kg	1	☼	6010D	Total/NA
Zinc	28		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.039		0.020	0.0084	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-092_20250905 — Lab Sample ID: 500-274542-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.5		1.2	0.42	mg/Kg	1	☼	6010D	Total/NA
Barium	56		1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.28	B	0.24	0.044	mg/Kg	1	☼	6010D	Total/NA
Chromium	14		1.2	0.60	mg/Kg	1	☼	6010D	Total/NA
Copper	31		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Lead	8.9		0.61	0.28	mg/Kg	1	☼	6010D	Total/NA
Manganese	190		1.2	0.18	mg/Kg	1	☼	6010D	Total/NA
Nickel	14		1.2	0.36	mg/Kg	1	☼	6010D	Total/NA
Zinc	29		2.4	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.029		0.020	0.0085	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-085_20250906 — Lab Sample ID: 500-274542-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	46		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.20	J B	0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Copper	77		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	6.8		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	190		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Zinc	29		2.2	0.96	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.025		0.018	0.0076	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-084_20250906 — Lab Sample ID: 500-274542-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4		1.2	0.40	mg/Kg	1	☼	6010D	Total/NA
Barium	91		1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.40	B	0.24	0.042	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.2	0.58	mg/Kg	1	☼	6010D	Total/NA
Copper	98		1.2	0.33	mg/Kg	1	☼	6010D	Total/NA
Lead	7.9		0.59	0.27	mg/Kg	1	☼	6010D	Total/NA
Manganese	280		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Zinc	31		2.4	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.032		0.019	0.0077	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-071_20250906 — Lab Sample ID: 500-274542-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.0		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	42		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.52		0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	18		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	430		5.4	1.5	mg/Kg	5	☼	6010D	Total/NA
Lead	4.5		2.7	1.2	mg/Kg	5	☼	6010D	Total/NA
Manganese	300		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	18		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Zinc	44		11	4.7	mg/Kg	5	☼	6010D	Total/NA

Client Sample ID: SS-072_20250906 — Lab Sample ID: 500-274542-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		1.1	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	55		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.40		0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	20		1.1	0.57	mg/Kg	1	☼	6010D	Total/NA
Copper	85		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	7.4		0.57	0.27	mg/Kg	1	☼	6010D	Total/NA
Manganese	310		1.1	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	15		1.1	0.33	mg/Kg	1	☼	6010D	Total/NA
Zinc	25		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.033		0.019	0.0078	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-073_20250906 — Lab Sample ID: 500-274542-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.6		1.2	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	15		1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.13	J	0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.0		1.2	0.57	mg/Kg	1	☼	6010D	Total/NA
Copper	150		1.2	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	4.5		0.58	0.27	mg/Kg	1	☼	6010D	Total/NA
Manganese	41		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.3		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Silver	0.19	J	0.58	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	12		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.033		0.020	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-077_20250906 — Lab Sample ID: 500-274542-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.5		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Barium	84		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.17	J	0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	20		1.1	0.56	mg/Kg	1	☼	6010D	Total/NA
Copper	60		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	6.9		0.56	0.26	mg/Kg	1	☼	6010D	Total/NA
Manganese	240		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	20		1.1	0.33	mg/Kg	1	☼	6010D	Total/NA
Zinc	31		2.3	0.99	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.010	J	0.017	0.0069	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-076_20250906 — Lab Sample ID: 500-274542-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.0		0.99	0.34	mg/Kg	1	☼	6010D	Total/NA
Barium	32		0.99	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.24		0.20	0.036	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.4		0.99	0.49	mg/Kg	1	☼	6010D	Total/NA
Copper	11		0.99	0.28	mg/Kg	1	☼	6010D	Total/NA
Lead	3.1		0.50	0.23	mg/Kg	1	☼	6010D	Total/NA
Manganese	130		0.99	0.14	mg/Kg	1	☼	6010D	Total/NA
Nickel	8.1		0.99	0.29	mg/Kg	1	☼	6010D	Total/NA
Zinc	26		2.0	0.87	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-075_20250906 — Lab Sample ID: 500-274542-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Barium	73		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.14	J	0.22	0.040	mg/Kg	1	☼	6010D	Total/NA
Chromium	18		1.1	0.55	mg/Kg	1	☼	6010D	Total/NA
Copper	23		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Lead	7.5		0.56	0.26	mg/Kg	1	☼	6010D	Total/NA
Manganese	240		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	23		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Zinc	35		2.2	0.98	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-079_20250906 — Lab Sample ID: 500-274542-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		1.4	0.47	mg/Kg	1	☼	6010D	Total/NA
Barium	38		1.4	0.16	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.69		0.27	0.049	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.2		1.4	0.67	mg/Kg	1	☼	6010D	Total/NA
Copper	220		1.4	0.38	mg/Kg	1	☼	6010D	Total/NA
Lead	8.1		0.68	0.31	mg/Kg	1	☼	6010D	Total/NA
Manganese	150		1.4	0.20	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.5		1.4	0.40	mg/Kg	1	☼	6010D	Total/NA
Silver	0.35	J	0.68	0.18	mg/Kg	1	☼	6010D	Total/NA
Zinc	24		2.7	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.063		0.025	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-078_20250906 — Lab Sample ID: 500-274542-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6		1.3	0.46	mg/Kg	1	☼	6010D	Total/NA
Barium	93		1.3	0.15	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.17	J	0.27	0.048	mg/Kg	1	☼	6010D	Total/NA
Chromium	26		1.3	0.66	mg/Kg	1	☼	6010D	Total/NA
Copper	19		1.3	0.38	mg/Kg	1	☼	6010D	Total/NA
Lead	7.3		0.67	0.31	mg/Kg	1	☼	6010D	Total/NA
Manganese	190		1.3	0.19	mg/Kg	1	☼	6010D	Total/NA
Nickel	20		1.3	0.39	mg/Kg	1	☼	6010D	Total/NA
Silver	1.4		0.67	0.17	mg/Kg	1	☼	6010D	Total/NA
Zinc	35		2.7	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.020	J	0.023	0.0093	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-074_20250906 — Lab Sample ID: 500-274542-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.2		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	93		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.13	J	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	20		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	14		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	6.3		0.53	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	240		1.1	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	20		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Zinc	32		2.1	0.94	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: White Pine Copper LLC
Job ID: 500-274542-1
Project/Site: White Pine Copper Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-274542-1	SS-093_20250903	Solid	09/03/25 17:35	09/12/25 09:00	Michigan
500-274542-2	SS-089_20250903	Solid	09/03/25 18:10	09/12/25 09:00	Michigan
500-274542-3	SS-094_20250904	Solid	09/04/25 15:35	09/12/25 09:00	Michigan
500-274542-4	SS-101_20250904	Solid	09/04/25 12:45	09/12/25 09:00	Michigan
500-274542-5	SS-097_20250904	Solid	09/04/25 13:30	09/12/25 09:00	Michigan
500-274542-6	SS-098_20250904	Solid	09/04/25 10:50	09/12/25 09:00	Michigan
500-274542-7	SS-096_20250904	Solid	09/04/25 17:10	09/12/25 09:00	Michigan
500-274542-8	SS-102_20250904	Solid	09/04/25 11:50	09/12/25 09:00	Michigan
500-274542-9	DUP-01-SS_20250904	Solid	09/04/25 00:00	09/12/25 09:00	Michigan
500-274542-10	SS-100_20250905	Solid	09/05/25 11:35	09/12/25 09:00	Michigan
500-274542-11	SS-092_20250905	Solid	09/05/25 10:30	09/12/25 09:00	Michigan
500-274542-12	SS-085_20250906	Solid	09/06/25 11:05	09/12/25 09:00	Michigan
500-274542-13	SS-084_20250906	Solid	09/06/25 11:30	09/12/25 09:00	Michigan
500-274542-14	SS-071_20250906	Solid	09/06/25 12:05	09/12/25 09:00	Michigan
500-274542-15	SS-072_20250906	Solid	09/06/25 12:30	09/12/25 09:00	Michigan
500-274542-16	SS-073_20250906	Solid	09/06/25 12:50	09/12/25 09:00	Michigan
500-274542-17	SS-077_20250906	Solid	09/06/25 13:05	09/12/25 09:00	Michigan
500-274542-18	SS-076_20250906	Solid	09/06/25 13:30	09/12/25 09:00	Michigan
500-274542-19	SS-075_20250906	Solid	09/06/25 14:00	09/12/25 09:00	Michigan
500-274542-20	SS-079_20250906	Solid	09/06/25 14:55	09/12/25 09:00	Michigan
500-274542-21	SS-078_20250906	Solid	09/06/25 15:15	09/12/25 09:00	Michigan
500-274542-22	SS-074_20250906	Solid	09/06/25 14:40	09/12/25 09:00	Michigan

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-093_20250903
Date Collected: 09/03/25 17:35
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-1
Matrix: Solid
Percent Solids: 75.2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.2	0.42	mg/Kg	☼	09/16/25 15:22	09/18/25 16:29	1
Barium	49		1.2	0.14	mg/Kg	☼	09/16/25 15:22	09/17/25 17:04	1
Cadmium	0.76	B	0.25	0.044	mg/Kg	☼	09/16/25 15:22	09/17/25 17:04	1
Chromium	9.9		1.2	0.61	mg/Kg	☼	09/16/25 15:22	09/17/25 17:04	1
Copper	190		1.2	0.34	mg/Kg	☼	09/16/25 15:22	09/17/25 17:04	1
Lead	14		0.62	0.28	mg/Kg	☼	09/16/25 15:22	09/17/25 17:04	1
Manganese	180		1.2	0.18	mg/Kg	☼	09/16/25 15:22	09/17/25 17:04	1
Nickel	7.7		1.2	0.36	mg/Kg	☼	09/16/25 15:22	09/17/25 17:04	1
Selenium	<0.72		1.2	0.72	mg/Kg	☼	09/16/25 15:22	09/17/25 17:04	1
Silver	<0.16		0.62	0.16	mg/Kg	☼	09/16/25 15:22	09/17/25 17:04	1
Zinc	30		2.5	1.1	mg/Kg	☼	09/16/25 15:22	09/17/25 17:04	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.020	0.0084	mg/Kg	☼	09/18/25 15:55	09/19/25 06:30	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-089_20250903
Date Collected: 09/03/25 18:10
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-2
Matrix: Solid
Percent Solids: 50.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		1.7	0.58	mg/Kg	☼	09/16/25 15:22	09/18/25 16:33	1
Barium	150		1.7	0.19	mg/Kg	☼	09/16/25 15:22	09/17/25 17:08	1
Cadmium	0.39	B	0.34	0.061	mg/Kg	☼	09/16/25 15:22	09/17/25 17:08	1
Chromium	29		1.7	0.84	mg/Kg	☼	09/16/25 15:22	09/17/25 17:08	1
Copper	160		1.7	0.48	mg/Kg	☼	09/16/25 15:22	09/17/25 17:08	1
Lead	11		0.85	0.39	mg/Kg	☼	09/16/25 15:22	09/17/25 17:08	1
Manganese	440		1.7	0.25	mg/Kg	☼	09/16/25 15:22	09/17/25 17:08	1
Nickel	32		1.7	0.49	mg/Kg	☼	09/16/25 15:22	09/17/25 17:08	1
Selenium	<1.0		1.7	1.0	mg/Kg	☼	09/16/25 15:22	09/17/25 17:08	1
Silver	<0.22		0.85	0.22	mg/Kg	☼	09/16/25 15:22	09/17/25 17:08	1
Zinc	50		3.4	1.5	mg/Kg	☼	09/16/25 15:22	09/17/25 17:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025	J	0.032	0.013	mg/Kg	☼	09/18/25 15:55	09/19/25 06:32	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-094_20250904
Date Collected: 09/04/25 15:35
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-3
Matrix: Solid
Percent Solids: 79.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.4		1.2	0.42	mg/Kg	☼	09/16/25 15:22	09/18/25 16:37	1
Barium	17		1.2	0.14	mg/Kg	☼	09/16/25 15:22	09/17/25 17:13	1
Cadmium	0.13	J B	0.25	0.045	mg/Kg	☼	09/16/25 15:22	09/17/25 17:13	1
Chromium	6.8		1.2	0.61	mg/Kg	☼	09/16/25 15:22	09/17/25 17:13	1
Copper	14		1.2	0.35	mg/Kg	☼	09/16/25 15:22	09/17/25 17:13	1
Lead	4.9		0.62	0.29	mg/Kg	☼	09/16/25 15:22	09/17/25 17:13	1
Manganese	56		1.2	0.18	mg/Kg	☼	09/16/25 15:22	09/17/25 17:13	1
Nickel	5.6		1.2	0.36	mg/Kg	☼	09/16/25 15:22	09/17/25 17:13	1
Selenium	<0.73		1.2	0.73	mg/Kg	☼	09/16/25 15:22	09/17/25 17:13	1
Silver	0.42	J	0.62	0.16	mg/Kg	☼	09/16/25 15:22	09/17/25 17:13	1
Zinc	15		2.5	1.1	mg/Kg	☼	09/16/25 15:22	09/17/25 17:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019	J	0.020	0.0081	mg/Kg	☼	09/18/25 15:55	09/19/25 06:37	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-101_20250904
Date Collected: 09/04/25 12:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-4
Matrix: Solid
Percent Solids: 64.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		1.3	0.46	mg/Kg	☼	09/16/25 15:22	09/18/25 16:42	1
Barium	130		1.3	0.15	mg/Kg	☼	09/16/25 15:22	09/17/25 17:17	1
Cadmium	0.42	B	0.27	0.048	mg/Kg	☼	09/16/25 15:22	09/17/25 17:17	1
Chromium	41		1.3	0.66	mg/Kg	☼	09/16/25 15:22	09/17/25 17:17	1
Copper	91		1.3	0.37	mg/Kg	☼	09/16/25 15:22	09/17/25 17:17	1
Lead	21		0.67	0.31	mg/Kg	☼	09/16/25 15:22	09/17/25 17:17	1
Manganese	4500		6.7	0.97	mg/Kg	☼	09/16/25 15:22	09/18/25 16:46	5
Nickel	27		1.3	0.39	mg/Kg	☼	09/16/25 15:22	09/17/25 17:17	1
Selenium	1.5		1.3	0.79	mg/Kg	☼	09/16/25 15:22	09/17/25 17:17	1
Silver	9.5		3.3	0.86	mg/Kg	☼	09/16/25 15:22	09/18/25 16:46	5
Zinc	91		2.7	1.2	mg/Kg	☼	09/16/25 15:22	09/17/25 17:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.062		0.023	0.0094	mg/Kg	☼	09/18/25 15:55	09/19/25 06:39	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-097_20250904
Date Collected: 09/04/25 13:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-5
Matrix: Solid
Percent Solids: 76.4

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.4		1.2	0.40	mg/Kg	☼	09/16/25 15:22	09/18/25 16:50	1
Barium	50		1.2	0.13	mg/Kg	☼	09/16/25 15:22	09/17/25 17:21	1
Cadmium	0.19	J B	0.24	0.042	mg/Kg	☼	09/16/25 15:22	09/17/25 17:21	1
Chromium	15		1.2	0.58	mg/Kg	☼	09/16/25 15:22	09/17/25 17:21	1
Copper	52		1.2	0.33	mg/Kg	☼	09/16/25 15:22	09/17/25 17:21	1
Lead	10		0.59	0.27	mg/Kg	☼	09/16/25 15:22	09/17/25 17:21	1
Manganese	91		1.2	0.17	mg/Kg	☼	09/16/25 15:22	09/17/25 17:21	1
Nickel	12		1.2	0.34	mg/Kg	☼	09/16/25 15:22	09/17/25 17:21	1
Selenium	1.1	J	1.2	0.69	mg/Kg	☼	09/16/25 15:22	09/17/25 17:21	1
Silver	0.65		0.59	0.15	mg/Kg	☼	09/16/25 15:22	09/17/25 17:21	1
Zinc	28		2.4	1.0	mg/Kg	☼	09/16/25 15:22	09/17/25 17:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.021	0.0086	mg/Kg	☼	09/18/25 15:55	09/19/25 06:41	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-098_20250904
Date Collected: 09/04/25 10:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-6
Matrix: Solid
Percent Solids: 77.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		1.3	0.44	mg/Kg	☼	09/16/25 15:22	09/18/25 16:55	1
Barium	44		1.3	0.15	mg/Kg	☼	09/16/25 15:22	09/17/25 17:26	1
Cadmium	0.37	B	0.26	0.046	mg/Kg	☼	09/16/25 15:22	09/17/25 17:26	1
Chromium	6.7		1.3	0.64	mg/Kg	☼	09/16/25 15:22	09/17/25 17:26	1
Copper	120		1.3	0.36	mg/Kg	☼	09/16/25 15:22	09/17/25 17:26	1
Lead	13		0.64	0.30	mg/Kg	☼	09/16/25 15:22	09/17/25 17:26	1
Manganese	160		1.3	0.19	mg/Kg	☼	09/16/25 15:22	09/17/25 17:26	1
Nickel	4.3		1.3	0.37	mg/Kg	☼	09/16/25 15:22	09/17/25 17:26	1
Selenium	0.89	J	1.3	0.76	mg/Kg	☼	09/16/25 15:22	09/17/25 17:26	1
Silver	0.90		0.64	0.17	mg/Kg	☼	09/16/25 15:22	09/17/25 17:26	1
Zinc	16		2.6	1.1	mg/Kg	☼	09/16/25 15:22	09/17/25 17:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0094	J	0.020	0.0083	mg/Kg	☼	09/18/25 15:55	09/19/25 06:43	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-096_20250904
Date Collected: 09/04/25 17:10
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-7
Matrix: Solid
Percent Solids: 65.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0		1.3	0.44	mg/Kg	☼	09/16/25 15:22	09/18/25 17:08	1
Barium	120		1.3	0.15	mg/Kg	☼	09/16/25 15:22	09/17/25 17:30	1
Cadmium	0.30	B	0.26	0.046	mg/Kg	☼	09/16/25 15:22	09/17/25 17:30	1
Chromium	22		1.3	0.63	mg/Kg	☼	09/16/25 15:22	09/17/25 17:30	1
Copper	38		1.3	0.36	mg/Kg	☼	09/16/25 15:22	09/17/25 17:30	1
Lead	12		0.64	0.30	mg/Kg	☼	09/16/25 15:22	09/17/25 17:30	1
Manganese	410		1.3	0.19	mg/Kg	☼	09/16/25 15:22	09/17/25 17:30	1
Nickel	26		1.3	0.37	mg/Kg	☼	09/16/25 15:22	09/17/25 17:30	1
Selenium	<0.75		1.3	0.75	mg/Kg	☼	09/16/25 15:22	09/17/25 17:30	1
Silver	<0.17		0.64	0.17	mg/Kg	☼	09/16/25 15:22	09/17/25 17:30	1
Zinc	51		2.6	1.1	mg/Kg	☼	09/16/25 15:22	09/17/25 17:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.044		0.024	0.010	mg/Kg	☼	09/18/25 15:55	09/19/25 06:45	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-102_20250904
Date Collected: 09/04/25 11:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-8
Matrix: Solid
Percent Solids: 91.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.3		1.0	0.36	mg/Kg	☼	09/16/25 15:22	09/18/25 17:13	1
Barium	15		1.0	0.12	mg/Kg	☼	09/16/25 15:22	09/17/25 17:35	1
Cadmium	0.13	J B	0.21	0.038	mg/Kg	☼	09/16/25 15:22	09/17/25 17:35	1
Chromium	3.4		1.0	0.52	mg/Kg	☼	09/16/25 15:22	09/17/25 17:35	1
Copper	51		1.0	0.29	mg/Kg	☼	09/16/25 15:22	09/17/25 17:35	1
Lead	5.2		0.52	0.24	mg/Kg	☼	09/16/25 15:22	09/17/25 17:35	1
Manganese	31		1.0	0.15	mg/Kg	☼	09/16/25 15:22	09/17/25 17:35	1
Nickel	1.6		1.0	0.30	mg/Kg	☼	09/16/25 15:22	09/17/25 17:35	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	09/16/25 15:22	09/17/25 17:35	1
Silver	0.16	J	0.52	0.13	mg/Kg	☼	09/16/25 15:22	09/17/25 17:35	1
Zinc	4.7		2.1	0.92	mg/Kg	☼	09/16/25 15:22	09/17/25 17:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0073		0.018	0.0073	mg/Kg	☼	09/18/25 15:55	09/19/25 06:46	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: DUP-01-SS_20250904
Date Collected: 09/04/25 00:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-9
Matrix: Solid
Percent Solids: 83.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.7		1.1	0.39	mg/Kg	☼	09/16/25 15:22	09/18/25 17:17	1
Barium	31		1.1	0.13	mg/Kg	☼	09/16/25 15:22	09/17/25 17:48	1
Cadmium	0.19	J B	0.23	0.041	mg/Kg	☼	09/16/25 15:22	09/17/25 17:48	1
Chromium	6.6		1.1	0.56	mg/Kg	☼	09/16/25 15:22	09/17/25 17:48	1
Copper	58		1.1	0.32	mg/Kg	☼	09/16/25 15:22	09/17/25 17:48	1
Lead	7.2		0.57	0.26	mg/Kg	☼	09/16/25 15:22	09/17/25 17:48	1
Manganese	140		1.1	0.16	mg/Kg	☼	09/16/25 15:22	09/17/25 17:48	1
Nickel	3.7		1.1	0.33	mg/Kg	☼	09/16/25 15:22	09/17/25 17:48	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	09/16/25 15:22	09/17/25 17:48	1
Silver	<0.15		0.57	0.15	mg/Kg	☼	09/16/25 15:22	09/17/25 17:48	1
Zinc	12		2.3	1.0	mg/Kg	☼	09/16/25 15:22	09/17/25 17:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.019	0.0077	mg/Kg	☼	09/18/25 15:55	09/19/25 06:48	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-100_20250905
Date Collected: 09/05/25 11:35
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-10
Matrix: Solid
Percent Solids: 79.2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		1.1	0.39	mg/Kg	☼	09/16/25 15:22	09/18/25 17:21	1
Barium	38		1.1	0.13	mg/Kg	☼	09/16/25 15:22	09/17/25 17:52	1
Cadmium	0.15	J B	0.23	0.041	mg/Kg	☼	09/16/25 15:22	09/17/25 17:52	1
Chromium	15		1.1	0.57	mg/Kg	☼	09/16/25 15:22	09/17/25 17:52	1
Copper	12		1.1	0.32	mg/Kg	☼	09/16/25 15:22	09/17/25 17:52	1
Lead	6.9		0.57	0.26	mg/Kg	☼	09/16/25 15:22	09/17/25 17:52	1
Manganese	140		1.1	0.17	mg/Kg	☼	09/16/25 15:22	09/17/25 17:52	1
Nickel	12		1.1	0.33	mg/Kg	☼	09/16/25 15:22	09/17/25 17:52	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	09/16/25 15:22	09/17/25 17:52	1
Silver	<0.15		0.57	0.15	mg/Kg	☼	09/16/25 15:22	09/17/25 17:52	1
Zinc	28		2.3	1.0	mg/Kg	☼	09/16/25 15:22	09/17/25 17:52	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.039		0.020	0.0084	mg/Kg	☼	09/18/25 15:55	09/19/25 06:50	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-092_20250905
Date Collected: 09/05/25 10:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-11
Matrix: Solid
Percent Solids: 76.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.5		1.2	0.42	mg/Kg	☼	09/16/25 15:22	09/18/25 17:26	1
Barium	56		1.2	0.14	mg/Kg	☼	09/16/25 15:22	09/17/25 17:56	1
Cadmium	0.28	B	0.24	0.044	mg/Kg	☼	09/16/25 15:22	09/17/25 17:56	1
Chromium	14		1.2	0.60	mg/Kg	☼	09/16/25 15:22	09/17/25 17:56	1
Copper	31		1.2	0.34	mg/Kg	☼	09/16/25 15:22	09/17/25 17:56	1
Lead	8.9		0.61	0.28	mg/Kg	☼	09/16/25 15:22	09/17/25 17:56	1
Manganese	190		1.2	0.18	mg/Kg	☼	09/16/25 15:22	09/17/25 17:56	1
Nickel	14		1.2	0.36	mg/Kg	☼	09/16/25 15:22	09/17/25 17:56	1
Selenium	<0.72		1.2	0.72	mg/Kg	☼	09/16/25 15:22	09/17/25 17:56	1
Silver	<0.16		0.61	0.16	mg/Kg	☼	09/16/25 15:22	09/17/25 17:56	1
Zinc	29		2.4	1.1	mg/Kg	☼	09/16/25 15:22	09/17/25 17:56	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.020	0.0085	mg/Kg	☼	09/18/25 15:55	09/19/25 06:51	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-085_20250906
Date Collected: 09/06/25 11:05
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-12
Matrix: Solid
Percent Solids: 85.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		1.1	0.37	mg/Kg	☼	09/16/25 15:22	09/18/25 17:30	1
Barium	46		1.1	0.12	mg/Kg	☼	09/16/25 15:22	09/17/25 18:01	1
Cadmium	0.20	J B	0.22	0.039	mg/Kg	☼	09/16/25 15:22	09/17/25 18:01	1
Chromium	19		1.1	0.54	mg/Kg	☼	09/16/25 15:22	09/17/25 18:01	1
Copper	77		1.1	0.30	mg/Kg	☼	09/16/25 15:22	09/17/25 18:01	1
Lead	6.8		0.54	0.25	mg/Kg	☼	09/16/25 15:22	09/17/25 18:01	1
Manganese	190		1.1	0.16	mg/Kg	☼	09/16/25 15:22	09/17/25 18:01	1
Nickel	17		1.1	0.32	mg/Kg	☼	09/16/25 15:22	09/17/25 18:01	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	09/16/25 15:22	09/17/25 18:01	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	09/16/25 15:22	09/17/25 18:01	1
Zinc	29		2.2	0.96	mg/Kg	☼	09/16/25 15:22	09/17/25 18:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0076	mg/Kg	☼	09/18/25 15:55	09/19/25 07:03	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-084_20250906
Date Collected: 09/06/25 11:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-13
Matrix: Solid
Percent Solids: 84.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		1.2	0.40	mg/Kg	☼	09/16/25 15:22	09/18/25 17:35	1
Barium	91		1.2	0.13	mg/Kg	☼	09/16/25 15:22	09/17/25 18:05	1
Cadmium	0.40	B	0.24	0.042	mg/Kg	☼	09/16/25 15:22	09/17/25 18:05	1
Chromium	17		1.2	0.58	mg/Kg	☼	09/16/25 15:22	09/17/25 18:05	1
Copper	98		1.2	0.33	mg/Kg	☼	09/16/25 15:22	09/17/25 18:05	1
Lead	7.9		0.59	0.27	mg/Kg	☼	09/16/25 15:22	09/17/25 18:05	1
Manganese	280		1.2	0.17	mg/Kg	☼	09/16/25 15:22	09/17/25 18:05	1
Nickel	16		1.2	0.34	mg/Kg	☼	09/16/25 15:22	09/17/25 18:05	1
Selenium	<0.69		1.2	0.69	mg/Kg	☼	09/16/25 15:22	09/17/25 18:05	1
Silver	<0.15		0.59	0.15	mg/Kg	☼	09/16/25 15:22	09/17/25 18:05	1
Zinc	31		2.4	1.0	mg/Kg	☼	09/16/25 15:22	09/17/25 18:05	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.032		0.019	0.0077	mg/Kg	☼	09/18/25 15:55	09/19/25 07:05	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-071_20250906
Date Collected: 09/06/25 12:05
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-14
Matrix: Solid
Percent Solids: 85.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		1.1	0.37	mg/Kg	☼	09/16/25 15:25	09/18/25 01:55	1
Barium	42		1.1	0.12	mg/Kg	☼	09/16/25 15:25	09/18/25 01:55	1
Cadmium	0.52		0.22	0.039	mg/Kg	☼	09/16/25 15:25	09/18/25 01:55	1
Chromium	18		1.1	0.53	mg/Kg	☼	09/16/25 15:25	09/18/25 01:55	1
Copper	430		5.4	1.5	mg/Kg	☼	09/16/25 15:25	09/18/25 12:21	5
Lead	4.5		2.7	1.2	mg/Kg	☼	09/16/25 15:25	09/18/25 12:21	5
Manganese	300		1.1	0.16	mg/Kg	☼	09/16/25 15:25	09/18/25 01:55	1
Nickel	18		1.1	0.31	mg/Kg	☼	09/16/25 15:25	09/18/25 01:55	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/16/25 15:25	09/18/25 01:55	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	09/16/25 15:25	09/18/25 01:55	1
Zinc	44		11	4.7	mg/Kg	☼	09/16/25 15:25	09/18/25 12:21	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0076		0.018	0.0076	mg/Kg	☼	09/18/25 15:55	09/19/25 07:06	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-072_20250906
Date Collected: 09/06/25 12:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-15
Matrix: Solid
Percent Solids: 84.2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		1.1	0.39	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1
Barium	55		1.1	0.13	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1
Cadmium	0.40		0.23	0.041	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1
Chromium	20		1.1	0.57	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1
Copper	85		1.1	0.32	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1
Lead	7.4		0.57	0.27	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1
Manganese	310		1.1	0.17	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1
Nickel	15		1.1	0.33	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1
Selenium	<0.68		1.1	0.68	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1
Silver	<0.15		0.57	0.15	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1
Zinc	25		2.3	1.0	mg/Kg	☼	09/16/25 15:25	09/18/25 01:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.019	0.0078	mg/Kg	☼	09/18/25 15:55	09/19/25 07:08	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-073_20250906
Date Collected: 09/06/25 12:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-16
Matrix: Solid
Percent Solids: 81.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		1.2	0.39	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1
Barium	15		1.2	0.13	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1
Cadmium	0.13	J	0.23	0.041	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1
Chromium	6.0		1.2	0.57	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1
Copper	150		1.2	0.32	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1
Lead	4.5		0.58	0.27	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1
Manganese	41		1.2	0.17	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1
Nickel	2.3		1.2	0.34	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1
Selenium	<0.68		1.2	0.68	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1
Silver	0.19	J	0.58	0.15	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1
Zinc	12		2.3	1.0	mg/Kg	☼	09/16/25 15:25	09/18/25 02:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0081	mg/Kg	☼	09/18/25 15:55	09/19/25 07:10	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-077_20250906
Date Collected: 09/06/25 13:05
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-17
Matrix: Solid
Percent Solids: 88.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		1.1	0.38	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1
Barium	84		1.1	0.13	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1
Cadmium	0.17	J	0.23	0.041	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1
Chromium	20		1.1	0.56	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1
Copper	60		1.1	0.32	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1
Lead	6.9		0.56	0.26	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1
Manganese	240		1.1	0.16	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1
Nickel	20		1.1	0.33	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1
Selenium	<0.66		1.1	0.66	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1
Silver	<0.15		0.56	0.15	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1
Zinc	31		2.3	0.99	mg/Kg	☼	09/16/25 15:25	09/18/25 02:08	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.017	0.0069	mg/Kg	☼	09/18/25 15:55	09/19/25 07:12	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-076_20250906
Date Collected: 09/06/25 13:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-18
Matrix: Solid
Percent Solids: 87.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		0.99	0.34	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1
Barium	32		0.99	0.11	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1
Cadmium	0.24		0.20	0.036	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1
Chromium	8.4		0.99	0.49	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1
Copper	11		0.99	0.28	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1
Lead	3.1		0.50	0.23	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1
Manganese	130		0.99	0.14	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1
Nickel	8.1		0.99	0.29	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1
Selenium	<0.58		0.99	0.58	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1
Silver	<0.13		0.50	0.13	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1
Zinc	26		2.0	0.87	mg/Kg	☼	09/16/25 15:25	09/18/25 02:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0072		0.017	0.0072	mg/Kg	☼	09/18/25 15:55	09/19/25 07:14	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-075_20250906
Date Collected: 09/06/25 14:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-19
Matrix: Solid
Percent Solids: 86.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		1.1	0.38	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1
Barium	73		1.1	0.13	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1
Cadmium	0.14	J	0.22	0.040	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1
Chromium	18		1.1	0.55	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1
Copper	23		1.1	0.31	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1
Lead	7.5		0.56	0.26	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1
Manganese	240		1.1	0.16	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1
Nickel	23		1.1	0.32	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1
Selenium	<0.66		1.1	0.66	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1
Silver	<0.14		0.56	0.14	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1
Zinc	35		2.2	0.98	mg/Kg	☼	09/16/25 15:25	09/18/25 02:17	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0076		0.018	0.0076	mg/Kg	☼	09/18/25 15:55	09/19/25 07:15	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-079_20250906
Date Collected: 09/06/25 14:55
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-20
Matrix: Solid
Percent Solids: 62.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		1.4	0.47	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1
Barium	38		1.4	0.16	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1
Cadmium	0.69		0.27	0.049	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1
Chromium	7.2		1.4	0.67	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1
Copper	220		1.4	0.38	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1
Lead	8.1		0.68	0.31	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1
Manganese	150		1.4	0.20	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1
Nickel	4.5		1.4	0.40	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1
Selenium	<0.80		1.4	0.80	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1
Silver	0.35	J	0.68	0.18	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1
Zinc	24		2.7	1.2	mg/Kg	☼	09/16/25 15:25	09/18/25 02:21	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.063		0.025	0.011	mg/Kg	☼	09/18/25 15:55	09/19/25 07:21	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-078_20250906
Date Collected: 09/06/25 15:15
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-21
Matrix: Solid
Percent Solids: 70.1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		1.3	0.46	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1
Barium	93		1.3	0.15	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1
Cadmium	0.17	J	0.27	0.048	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1
Chromium	26		1.3	0.66	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1
Copper	19		1.3	0.38	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1
Lead	7.3		0.67	0.31	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1
Manganese	190		1.3	0.19	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1
Nickel	20		1.3	0.39	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1
Selenium	<0.79		1.3	0.79	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1
Silver	1.4		0.67	0.17	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1
Zinc	35		2.7	1.2	mg/Kg	☼	09/16/25 15:25	09/18/25 02:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020	J	0.023	0.0093	mg/Kg	☼	09/18/25 15:55	09/19/25 07:26	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-074_20250906
Date Collected: 09/06/25 14:40
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274542-22
Matrix: Solid
Percent Solids: 86.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		1.1	0.37	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1
Barium	93		1.1	0.12	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1
Cadmium	0.13	J	0.21	0.038	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1
Chromium	20		1.1	0.53	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1
Copper	14		1.1	0.30	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1
Lead	6.3		0.53	0.25	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1
Manganese	240		1.1	0.15	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1
Nickel	20		1.1	0.31	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1
Zinc	32		2.1	0.94	mg/Kg	☼	09/16/25 15:25	09/18/25 02:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0074		0.018	0.0074	mg/Kg	☼	09/18/25 15:55	09/19/25 07:28	1

Definitions/Glossary

Client: White Pine Copper LLC
Job ID: 500-274542-1
Project/Site: White Pine Copper Soils

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 834227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-1	SS-093_20250903	Total/NA	Solid	3050B	
500-274542-2	SS-089_20250903	Total/NA	Solid	3050B	
500-274542-3	SS-094_20250904	Total/NA	Solid	3050B	
500-274542-4	SS-101_20250904	Total/NA	Solid	3050B	
500-274542-5	SS-097_20250904	Total/NA	Solid	3050B	
500-274542-6	SS-098_20250904	Total/NA	Solid	3050B	
500-274542-7	SS-096_20250904	Total/NA	Solid	3050B	
500-274542-8	SS-102_20250904	Total/NA	Solid	3050B	
500-274542-9	DUP-01-SS_20250904	Total/NA	Solid	3050B	
500-274542-10	SS-100_20250905	Total/NA	Solid	3050B	
500-274542-11	SS-092_20250905	Total/NA	Solid	3050B	
500-274542-12	SS-085_20250906	Total/NA	Solid	3050B	
500-274542-13	SS-084_20250906	Total/NA	Solid	3050B	
MB 500-834227/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-834227/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 834228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-14	SS-071_20250906	Total/NA	Solid	3050B	
500-274542-15	SS-072_20250906	Total/NA	Solid	3050B	
500-274542-16	SS-073_20250906	Total/NA	Solid	3050B	
500-274542-17	SS-077_20250906	Total/NA	Solid	3050B	
500-274542-18	SS-076_20250906	Total/NA	Solid	3050B	
500-274542-19	SS-075_20250906	Total/NA	Solid	3050B	
500-274542-20	SS-079_20250906	Total/NA	Solid	3050B	
500-274542-21	SS-078_20250906	Total/NA	Solid	3050B	
500-274542-22	SS-074_20250906	Total/NA	Solid	3050B	
MB 500-834228/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-834228/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 834531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-1	SS-093_20250903	Total/NA	Solid	6010D	834227
500-274542-2	SS-089_20250903	Total/NA	Solid	6010D	834227
500-274542-3	SS-094_20250904	Total/NA	Solid	6010D	834227
500-274542-4	SS-101_20250904	Total/NA	Solid	6010D	834227
500-274542-5	SS-097_20250904	Total/NA	Solid	6010D	834227
500-274542-6	SS-098_20250904	Total/NA	Solid	6010D	834227
500-274542-7	SS-096_20250904	Total/NA	Solid	6010D	834227
500-274542-8	SS-102_20250904	Total/NA	Solid	6010D	834227
500-274542-9	DUP-01-SS_20250904	Total/NA	Solid	6010D	834227
500-274542-10	SS-100_20250905	Total/NA	Solid	6010D	834227
500-274542-11	SS-092_20250905	Total/NA	Solid	6010D	834227
500-274542-12	SS-085_20250906	Total/NA	Solid	6010D	834227
500-274542-13	SS-084_20250906	Total/NA	Solid	6010D	834227
500-274542-14	SS-071_20250906	Total/NA	Solid	6010D	834228
500-274542-15	SS-072_20250906	Total/NA	Solid	6010D	834228
500-274542-16	SS-073_20250906	Total/NA	Solid	6010D	834228
500-274542-17	SS-077_20250906	Total/NA	Solid	6010D	834228
500-274542-18	SS-076_20250906	Total/NA	Solid	6010D	834228
500-274542-19	SS-075_20250906	Total/NA	Solid	6010D	834228

Metals (Continued)

Analysis Batch: 834531 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-20	SS-079_20250906	Total/NA	Solid	6010D	834228
500-274542-21	SS-078_20250906	Total/NA	Solid	6010D	834228
500-274542-22	SS-074_20250906	Total/NA	Solid	6010D	834228
MB 500-834227/1-A	Method Blank	Total/NA	Solid	6010D	834227
MB 500-834228/1-A	Method Blank	Total/NA	Solid	6010D	834228
LCS 500-834227/2-A	Lab Control Sample	Total/NA	Solid	6010D	834227
LCS 500-834228/2-A	Lab Control Sample	Total/NA	Solid	6010D	834228

Prep Batch: 834601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-1	SS-093_20250903	Total/NA	Solid	7471B	
500-274542-2	SS-089_20250903	Total/NA	Solid	7471B	
500-274542-3	SS-094_20250904	Total/NA	Solid	7471B	
500-274542-4	SS-101_20250904	Total/NA	Solid	7471B	
500-274542-5	SS-097_20250904	Total/NA	Solid	7471B	
500-274542-6	SS-098_20250904	Total/NA	Solid	7471B	
500-274542-7	SS-096_20250904	Total/NA	Solid	7471B	
500-274542-8	SS-102_20250904	Total/NA	Solid	7471B	
500-274542-9	DUP-01-SS_20250904	Total/NA	Solid	7471B	
500-274542-10	SS-100_20250905	Total/NA	Solid	7471B	
500-274542-11	SS-092_20250905	Total/NA	Solid	7471B	
500-274542-12	SS-085_20250906	Total/NA	Solid	7471B	
500-274542-13	SS-084_20250906	Total/NA	Solid	7471B	
500-274542-14	SS-071_20250906	Total/NA	Solid	7471B	
500-274542-15	SS-072_20250906	Total/NA	Solid	7471B	
500-274542-16	SS-073_20250906	Total/NA	Solid	7471B	
500-274542-17	SS-077_20250906	Total/NA	Solid	7471B	
500-274542-18	SS-076_20250906	Total/NA	Solid	7471B	
500-274542-19	SS-075_20250906	Total/NA	Solid	7471B	
500-274542-20	SS-079_20250906	Total/NA	Solid	7471B	
MB 500-834601/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-834601/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-274542-11 MS	SS-092_20250905	Total/NA	Solid	7471B	
500-274542-11 MSD	SS-092_20250905	Total/NA	Solid	7471B	
500-274542-11 DU	SS-092_20250905	Total/NA	Solid	7471B	

Prep Batch: 834616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-21	SS-078_20250906	Total/NA	Solid	7471B	
500-274542-22	SS-074_20250906	Total/NA	Solid	7471B	
MB 500-834616/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-834616/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 834706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-1	SS-093_20250903	Total/NA	Solid	7471B	834601
500-274542-2	SS-089_20250903	Total/NA	Solid	7471B	834601
500-274542-3	SS-094_20250904	Total/NA	Solid	7471B	834601
500-274542-4	SS-101_20250904	Total/NA	Solid	7471B	834601
500-274542-5	SS-097_20250904	Total/NA	Solid	7471B	834601
500-274542-6	SS-098_20250904	Total/NA	Solid	7471B	834601

Metals (Continued)

Analysis Batch: 834706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-7	SS-096_20250904	Total/NA	Solid	7471B	834601
500-274542-8	SS-102_20250904	Total/NA	Solid	7471B	834601
500-274542-9	DUP-01-SS_20250904	Total/NA	Solid	7471B	834601
500-274542-10	SS-100_20250905	Total/NA	Solid	7471B	834601
500-274542-11	SS-092_20250905	Total/NA	Solid	7471B	834601
500-274542-12	SS-085_20250906	Total/NA	Solid	7471B	834601
500-274542-13	SS-084_20250906	Total/NA	Solid	7471B	834601
500-274542-14	SS-071_20250906	Total/NA	Solid	7471B	834601
500-274542-15	SS-072_20250906	Total/NA	Solid	7471B	834601
500-274542-16	SS-073_20250906	Total/NA	Solid	7471B	834601
500-274542-17	SS-077_20250906	Total/NA	Solid	7471B	834601
500-274542-18	SS-076_20250906	Total/NA	Solid	7471B	834601
500-274542-19	SS-075_20250906	Total/NA	Solid	7471B	834601
500-274542-20	SS-079_20250906	Total/NA	Solid	7471B	834601
500-274542-21	SS-078_20250906	Total/NA	Solid	7471B	834616
500-274542-22	SS-074_20250906	Total/NA	Solid	7471B	834616
MB 500-834601/12-A	Method Blank	Total/NA	Solid	7471B	834601
MB 500-834616/12-A	Method Blank	Total/NA	Solid	7471B	834616
LCS 500-834601/13-A	Lab Control Sample	Total/NA	Solid	7471B	834601
LCS 500-834616/13-A	Lab Control Sample	Total/NA	Solid	7471B	834616
500-274542-11 MS	SS-092_20250905	Total/NA	Solid	7471B	834601
500-274542-11 MSD	SS-092_20250905	Total/NA	Solid	7471B	834601
500-274542-11 DU	SS-092_20250905	Total/NA	Solid	7471B	834601

Analysis Batch: 834730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-1	SS-093_20250903	Total/NA	Solid	6010D	834227
500-274542-2	SS-089_20250903	Total/NA	Solid	6010D	834227
500-274542-3	SS-094_20250904	Total/NA	Solid	6010D	834227
500-274542-4	SS-101_20250904	Total/NA	Solid	6010D	834227
500-274542-4	SS-101_20250904	Total/NA	Solid	6010D	834227
500-274542-5	SS-097_20250904	Total/NA	Solid	6010D	834227
500-274542-6	SS-098_20250904	Total/NA	Solid	6010D	834227
500-274542-7	SS-096_20250904	Total/NA	Solid	6010D	834227
500-274542-8	SS-102_20250904	Total/NA	Solid	6010D	834227
500-274542-9	DUP-01-SS_20250904	Total/NA	Solid	6010D	834227
500-274542-10	SS-100_20250905	Total/NA	Solid	6010D	834227
500-274542-11	SS-092_20250905	Total/NA	Solid	6010D	834227
500-274542-12	SS-085_20250906	Total/NA	Solid	6010D	834227
500-274542-13	SS-084_20250906	Total/NA	Solid	6010D	834227
MB 500-834227/1-A	Method Blank	Total/NA	Solid	6010D	834227
LCS 500-834227/2-A	Lab Control Sample	Total/NA	Solid	6010D	834227

Analysis Batch: 834731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-14	SS-071_20250906	Total/NA	Solid	6010D	834228

General Chemistry

Analysis Batch: 833756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-1	SS-093_20250903	Total/NA	Solid	Moisture	
500-274542-2	SS-089_20250903	Total/NA	Solid	Moisture	
500-274542-3	SS-094_20250904	Total/NA	Solid	Moisture	
500-274542-4	SS-101_20250904	Total/NA	Solid	Moisture	
500-274542-5	SS-097_20250904	Total/NA	Solid	Moisture	
500-274542-6	SS-098_20250904	Total/NA	Solid	Moisture	
500-274542-7	SS-096_20250904	Total/NA	Solid	Moisture	
500-274542-8	SS-102_20250904	Total/NA	Solid	Moisture	
500-274542-9	DUP-01-SS_20250904	Total/NA	Solid	Moisture	
500-274542-10	SS-100_20250905	Total/NA	Solid	Moisture	
500-274542-11	SS-092_20250905	Total/NA	Solid	Moisture	
500-274542-12	SS-085_20250906	Total/NA	Solid	Moisture	
500-274542-13	SS-084_20250906	Total/NA	Solid	Moisture	
500-274542-14	SS-071_20250906	Total/NA	Solid	Moisture	
500-274542-15	SS-072_20250906	Total/NA	Solid	Moisture	
500-274542-16	SS-073_20250906	Total/NA	Solid	Moisture	
500-274542-17	SS-077_20250906	Total/NA	Solid	Moisture	
500-274542-18	SS-076_20250906	Total/NA	Solid	Moisture	
500-274542-19	SS-075_20250906	Total/NA	Solid	Moisture	
500-274542-20	SS-079_20250906	Total/NA	Solid	Moisture	
500-274542-1 DU	SS-093_20250903	Total/NA	Solid	Moisture	

Analysis Batch: 833762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274542-21	SS-078_20250906	Total/NA	Solid	Moisture	
500-274542-22	SS-074_20250906	Total/NA	Solid	Moisture	
500-274542-21 DU	SS-078_20250906	Total/NA	Solid	Moisture	

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-834227/1-A
Matrix: Solid
Analysis Batch: 834531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	<0.11		1.0	0.11	mg/Kg		09/16/25 15:22	09/17/25 15:50	1
Cadmium	0.0502	J	0.20	0.036	mg/Kg		09/16/25 15:22	09/17/25 15:50	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/16/25 15:22	09/17/25 15:50	1
Copper	<0.28		1.0	0.28	mg/Kg		09/16/25 15:22	09/17/25 15:50	1
Lead	<0.23		0.50	0.23	mg/Kg		09/16/25 15:22	09/17/25 15:50	1
Manganese	<0.15		1.0	0.15	mg/Kg		09/16/25 15:22	09/17/25 15:50	1
Nickel	<0.29		1.0	0.29	mg/Kg		09/16/25 15:22	09/17/25 15:50	1
Selenium	<0.59		1.0	0.59	mg/Kg		09/16/25 15:22	09/17/25 15:50	1
Silver	<0.13		0.50	0.13	mg/Kg		09/16/25 15:22	09/17/25 15:50	1
Zinc	<0.88		2.0	0.88	mg/Kg		09/16/25 15:22	09/17/25 15:50	1

Lab Sample ID: MB 500-834227/1-A
Matrix: Solid
Analysis Batch: 834730

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834227

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/16/25 15:22	09/18/25 15:10	1

Lab Sample ID: LCS 500-834227/2-A
Matrix: Solid
Analysis Batch: 834531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	200	171		mg/Kg		86	80 - 120
Cadmium	5.00	4.24		mg/Kg		85	80 - 120
Chromium	20.0	16.8		mg/Kg		84	80 - 120
Copper	25.0	20.6		mg/Kg		82	80 - 120
Lead	10.0	9.21		mg/Kg		92	80 - 120
Manganese	50.0	41.4		mg/Kg		83	80 - 120
Nickel	50.0	44.8		mg/Kg		90	80 - 120
Selenium	10.0	9.02		mg/Kg		90	80 - 120
Silver	5.00	4.29		mg/Kg		86	80 - 120
Zinc	50.0	41.0		mg/Kg		82	80 - 120

Lab Sample ID: LCS 500-834227/2-A
Matrix: Solid
Analysis Batch: 834730

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834227

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.10		mg/Kg		91	80 - 120

Lab Sample ID: MB 500-834228/1-A
Matrix: Solid
Analysis Batch: 834531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Barium	<0.11		1.0	0.11	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Cadmium	<0.036		0.20	0.036	mg/Kg		09/16/25 15:25	09/18/25 01:14	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 500-834228/1-A
Matrix: Solid
Analysis Batch: 834531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.50		1.0	0.50	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Copper	<0.28		1.0	0.28	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Lead	<0.23		0.50	0.23	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Manganese	<0.15		1.0	0.15	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Nickel	<0.29		1.0	0.29	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Selenium	0.596	J	1.0	0.59	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Silver	<0.13		0.50	0.13	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Zinc	<0.88		2.0	0.88	mg/Kg		09/16/25 15:25	09/18/25 01:14	1

Lab Sample ID: LCS 500-834228/2-A
Matrix: Solid
Analysis Batch: 834531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.05		mg/Kg		91	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Cadmium	5.00	4.74		mg/Kg		95	80 - 120
Chromium	20.0	20.0		mg/Kg		100	80 - 120
Copper	25.0	23.6		mg/Kg		95	80 - 120
Lead	10.0	10.5		mg/Kg		105	80 - 120
Manganese	50.0	47.1		mg/Kg		94	80 - 120
Nickel	50.0	51.8		mg/Kg		104	80 - 120
Selenium	10.0	9.75		mg/Kg		97	80 - 120
Silver	5.00	4.77		mg/Kg		95	80 - 120
Zinc	50.0	47.5		mg/Kg		95	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-834601/12-A
Matrix: Solid
Analysis Batch: 834706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		09/18/25 15:55	09/19/25 06:26	1

Lab Sample ID: LCS 500-834601/13-A
Matrix: Solid
Analysis Batch: 834706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.165		mg/Kg		99	80 - 120

Lab Sample ID: 500-274542-11 MS
Matrix: Solid
Analysis Batch: 834706

Client Sample ID: SS-092_20250905
Prep Type: Total/NA
Prep Batch: 834601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.029		0.102	0.143		mg/Kg	☼	112	75 - 125

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-274542-11 MSD
Matrix: Solid
Analysis Batch: 834706

Client Sample ID: SS-092_20250905
Prep Type: Total/NA
Prep Batch: 834601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.029		0.102	0.146		mg/Kg	☼	115	75 - 125	2	20

Lab Sample ID: 500-274542-11 DU
Matrix: Solid
Analysis Batch: 834706

Client Sample ID: SS-092_20250905
Prep Type: Total/NA
Prep Batch: 834601

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.029		0.0307		mg/Kg	☼	6	20

Lab Sample ID: MB 500-834616/12-A
Matrix: Solid
Analysis Batch: 834706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		09/18/25 15:55	09/19/25 07:22	1

Lab Sample ID: LCS 500-834616/13-A
Matrix: Solid
Analysis Batch: 834706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.164		mg/Kg		98	80 - 120

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-093_20250903

Lab Sample ID: 500-274542-1

Date Collected: 09/03/25 17:35
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-093_20250903

Lab Sample ID: 500-274542-1

Date Collected: 09/03/25 17:35
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 16:29
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:04
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:30

Client Sample ID: SS-089_20250903

Lab Sample ID: 500-274542-2

Date Collected: 09/03/25 18:10
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-089_20250903

Lab Sample ID: 500-274542-2

Date Collected: 09/03/25 18:10
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 50.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 16:33
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:08
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:32

Client Sample ID: SS-094_20250904

Lab Sample ID: 500-274542-3

Date Collected: 09/04/25 15:35
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-094_20250904

Lab Sample ID: 500-274542-3

Date Collected: 09/04/25 15:35
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 ¹
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 16:37
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:13
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:37

Client Sample ID: SS-101_20250904

Lab Sample ID: 500-274542-4

Date Collected: 09/04/25 12:45
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-101_20250904

Lab Sample ID: 500-274542-4

Date Collected: 09/04/25 12:45
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 64.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 ¹
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 16:42
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 ¹
Total/NA	Analysis	6010D		5	834730	S1Z	EET CHI	09/18/25 16:46
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:17
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:39

Client Sample ID: SS-097_20250904

Lab Sample ID: 500-274542-5

Date Collected: 09/04/25 13:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-097_20250904

Lab Sample ID: 500-274542-5

Date Collected: 09/04/25 13:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 ¹
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 16:50
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:21
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:41

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-098_20250904

Lab Sample ID: 500-274542-6
Matrix: Solid
Date Collected: 09/04/25 10:50
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-098_20250904

Lab Sample ID: 500-274542-6
Matrix: Solid
Date Collected: 09/04/25 10:50
Date Received: 09/12/25 09:00
Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 16:55
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:26
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:43

Client Sample ID: SS-096_20250904

Lab Sample ID: 500-274542-7
Matrix: Solid
Date Collected: 09/04/25 17:10
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-096_20250904

Lab Sample ID: 500-274542-7
Matrix: Solid
Date Collected: 09/04/25 17:10
Date Received: 09/12/25 09:00
Percent Solids: 65.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 17:08
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:30
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:45

Client Sample ID: SS-102_20250904

Lab Sample ID: 500-274542-8
Matrix: Solid
Date Collected: 09/04/25 11:50
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-102_20250904

Lab Sample ID: 500-274542-8
Date Collected: 09/04/25 11:50
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 17:13
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:35
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:46

Client Sample ID: DUP-01-SS_20250904

Lab Sample ID: 500-274542-9
Date Collected: 09/04/25 00:00
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: DUP-01-SS_20250904

Lab Sample ID: 500-274542-9
Date Collected: 09/04/25 00:00
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 17:17
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:48
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:48

Client Sample ID: SS-100_20250905

Lab Sample ID: 500-274542-10
Date Collected: 09/05/25 11:35
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-100_20250905

Lab Sample ID: 500-274542-10
Date Collected: 09/05/25 11:35
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 17:21
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:52
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:50

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-092_20250905

Lab Sample ID: 500-274542-11

Date Collected: 09/05/25 10:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-092_20250905

Lab Sample ID: 500-274542-11

Date Collected: 09/05/25 10:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 76.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 17:26
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 17:56
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 06:51

Client Sample ID: SS-085_20250906

Lab Sample ID: 500-274542-12

Date Collected: 09/06/25 11:05
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-085_20250906

Lab Sample ID: 500-274542-12

Date Collected: 09/06/25 11:05
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 17:30
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 [1]
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 18:01
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:03

Client Sample ID: SS-084_20250906

Lab Sample ID: 500-274542-13

Date Collected: 09/06/25 11:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-084_20250906

Lab Sample ID: 500-274542-13

Date Collected: 09/06/25 11:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 ¹
Total/NA	Analysis	6010D		1	834730	S1Z	EET CHI	09/18/25 17:35
Total/NA	Prep	3050B			834227	MS	EET CHI	09/16/25 15:22 - 09/16/25 20:22 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/17/25 18:05
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:05

Client Sample ID: SS-071_20250906

Lab Sample ID: 500-274542-14

Date Collected: 09/06/25 12:05
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-071_20250906

Lab Sample ID: 500-274542-14

Date Collected: 09/06/25 12:05
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 01:55
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		5	834731	S1Z	EET CHI	09/18/25 12:21
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:06

Client Sample ID: SS-072_20250906

Lab Sample ID: 500-274542-15

Date Collected: 09/06/25 12:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-072_20250906

Lab Sample ID: 500-274542-15

Date Collected: 09/06/25 12:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 01:59
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:08

Client Sample ID: SS-073_20250906
Lab Sample ID: 500-274542-16
Date Collected: 09/06/25 12:50
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-073_20250906
Lab Sample ID: 500-274542-16
Date Collected: 09/06/25 12:50
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 02:03
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:10

Client Sample ID: SS-077_20250906
Lab Sample ID: 500-274542-17
Date Collected: 09/06/25 13:05
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-077_20250906
Lab Sample ID: 500-274542-17
Date Collected: 09/06/25 13:05
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 02:08
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:12

Client Sample ID: SS-076_20250906
Lab Sample ID: 500-274542-18
Date Collected: 09/06/25 13:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-076_20250906
Lab Sample ID: 500-274542-18
Date Collected: 09/06/25 13:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 02:12
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:14

Client Sample ID: SS-075_20250906
Lab Sample ID: 500-274542-19
Date Collected: 09/06/25 14:00
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-075_20250906
Lab Sample ID: 500-274542-19
Date Collected: 09/06/25 14:00
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 02:17
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:15

Client Sample ID: SS-079_20250906
Lab Sample ID: 500-274542-20
Date Collected: 09/06/25 14:55
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833756	RB	EET CHI	09/12/25 13:27

Client Sample ID: SS-079_20250906
Lab Sample ID: 500-274542-20
Date Collected: 09/06/25 14:55
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 62.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 02:21
Total/NA	Prep	7471B			834601	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:21

Client Sample ID: SS-078_20250906
Lab Sample ID: 500-274542-21
Date Collected: 09/06/25 15:15
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833762	RB	EET CHI	09/12/25 13:50

Client Sample ID: SS-078_20250906
Lab Sample ID: 500-274542-21
Date Collected: 09/06/25 15:15
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 70.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 02:26
Total/NA	Prep	7471B			834616	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:26

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Client Sample ID: SS-074_20250906

Lab Sample ID: 500-274542-22

Date Collected: 09/06/25 14:40

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833762	RB	EET CHI	09/12/25 13:50

Client Sample ID: SS-074_20250906

Lab Sample ID: 500-274542-22

Date Collected: 09/06/25 14:40

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 [1]
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 02:30
Total/NA	Prep	7471B			834616	MJG	EET CHI	09/18/25 15:55
Total/NA	Analysis	7471B		1	834706	MJG	EET CHI	09/19/25 07:28

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274542-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-26
Georgia (DW)	State	939	05-31-26
Illinois	NELAP	100201	05-31-26
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-26
Kentucky (WW)	State	KY90023	12-31-25
Louisiana (All)	NELAP	02046	06-30-26
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	12-31-25
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	12-31-25
South Carolina	State	77001003	05-31-26
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	399172840	08-31-26
Wyoming	State	8TMS-Q	05-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708-534-5200 Fax 708 534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: Logan Carpenter, Justin Bolan	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500 140483-53677 1
Client Contact: Amanda Zeidler	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin:	Page: Page 1 of 13
Company: White Pine Copper LLC	PWSID:	Analysis Requested		Job #: 500-274542
Address: 35362 Mall Circle Drive	Due Date Requested:			Preservation Codes: N None; D HNO3
City: White Pine	TAT Requested (days): Standard			
State Zip: MI 49971	Compliance Project: Δ Yes Δ No			
Phone: 500-274542 COC	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine ~~Cooper~~ Copper Soils	Project #: 50025458			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B, 7470A	6020B, 7470A	6010D, 7471B	Total Number of containers	Special Instructions/Note:
			Preservation Code				N	D	2		
1 SS-093_20250903	9/3/25	17:35	G	Solid	N	N	N		✓		
2 SS-089_20250903	9/3/25	18:10	G	Solid	N	N	N		✓		
3 SS-094_20250904	9/4/25	15:35	G	Solid	N	N	N		✓		
4 SS101_20250904	9/4/25	12:45	G	Solid	N	N	N		✓		
5 SS-097_20250904	9/4/25	13:30	G	Solid	N	N	N		✓		
6 SS-098_20250904	9/4/25	10:50	G	Solid	N	N	N		✓		
7 SS-096_20250904	9/4/25	17:10	G	Solid	N	N	N		✓		
8 SS-102_20250904	9/4/25	11:50	G	Solid	N	N	N		✓		
9 DUP-01-SS_20250904	9/4/25		G	Solid	N	N	N		✓		
10 SS-100_20250905	9/5/25	11:35	G	Solid	N	N	N		✓		
11 SS-092_20250905	9/5/25	10:30	G	Solid	N	N	N		✓		

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Justin Bolan	9/11/25 1200	Fath	[signature]	9/12/25 0900	EEPA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		5.8-7.5, 4.2-7.4, 5.8-7.5, 6.0 → 5.8, 5.2-7.5

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708 534-5200 Fax 708 534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: Logan Carpenter, Justin Brown	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-140483 53677 3
Client Contact: Amanda Zeidler	Phone:	E Mail: Sandra Fredrick@et eurofinsus com	State of Origin:	Page: Page 3 of 13
Company: White Pine Copper LLC	PWSID:			Job #: 500-274502
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): Standard			
State, Zip: MI 49971	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine Copper Soils	Project #: 50025458			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N None; D HNO3

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D 7471B	6020B, 7470A	Total Number of containers	Special Instructions/Note.
			Preservation Code				N	D		
12 SS-085_20250906	9/6/25	11:05	G	Solid	N	N	✓			
13 SS-084_20250906	9/6/25	11:30	G	Solid	N	N	✓			
14 SS-071_20250906	9/6/25	12:05	G	Solid	N	N	✓			
15 SS-072_20250906	9/6/25	12:30	G	Solid	N	N	✓			
16 SS-073_20250906	9/6/25	12:50	G	Solid	N	N	✓			
17 SS-077_20250906	9/6/25	13:05	G	Solid	N	N	✓			
18 SS-076_20250906	9/6/25	13:30	G	Solid	N	N	✓			
19 SS-075_20250906	9/6/25	14:00	G	Solid	N	N	✓			
20 SS-079_20250906	9/6/25	14:55	G	Solid	N	N	✓			
21 SS-078_20250906	9/6/25	15:15	G	Solid	N	N	✓			
22 SS-074_20250906	9/6/25	14:40	G	Solid	N	N	✓			

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II, III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Justin Brown	9/11/25 1200	Eurofins			
Relinquished by:	Date/Time	Company	Received by:	Date/Time: 9/12/25 0900	Company: EETA
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-274542-1

Login Number: 274542

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6,4.0,5.0,5.8,5.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

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JOB DESCRIPTION

White Pine Copper Soils

JOB NUMBER

500-274546-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-274546-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/12/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 4.0°C, 5.0°C, 5.6°C, 5.7°C and 5.8°C.

Receipt Exceptions
Received bottle for sample 10 with ID of SS-067_20250907 and time of 0910, logged per bottles per client

Metals
Method 6010D: The method blank for preparation batch 500-834228 and analytical batch 500-834531 contained Selenium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-083_20250906 — Lab Sample ID: 500-274546-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.0		1.2	0.40	mg/Kg	1	☼	6010D	Total/NA
Barium	100		1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.33		0.23	0.042	mg/Kg	1	☼	6010D	Total/NA
Chromium	22		1.2	0.58	mg/Kg	1	☼	6010D	Total/NA
Copper	60		1.2	0.33	mg/Kg	1	☼	6010D	Total/NA
Lead	8.8		0.58	0.27	mg/Kg	1	☼	6010D	Total/NA
Manganese	300		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	25		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Silver	1.8		0.58	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	47		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-082_20250906 — Lab Sample ID: 500-274546-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	58		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.19	J	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	43		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	7.1		0.53	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	200		1.1	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	14		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Zinc	30		2.1	0.93	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.018		0.017	0.0070	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP-02_20250906 — Lab Sample ID: 500-274546-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		1.1	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	110		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.14	J	0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	21		1.1	0.57	mg/Kg	1	☼	6010D	Total/NA
Copper	72	F1	1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	8.9		0.57	0.26	mg/Kg	1	☼	6010D	Total/NA
Manganese	290		1.1	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	24		1.1	0.33	mg/Kg	1	☼	6010D	Total/NA
Silver	0.49	J F1	0.57	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	46	F1	2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.012	J	0.019	0.0078	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-081_20250906 — Lab Sample ID: 500-274546-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	120		1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.11	J	0.21	0.037	mg/Kg	1	☼	6010D	Total/NA
Chromium	22		1.0	0.51	mg/Kg	1	☼	6010D	Total/NA
Copper	18		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	7.3		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	300		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	25		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	0.64		0.52	0.13	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: SS-081_20250906 (Continued) — Lab Sample ID: 500-274546-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	44		2.1	0.90	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-080_20250906 — Lab Sample ID: 500-274546-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	80		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.084	J	0.21	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	18		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	5.1		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	140		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	12		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.26	J	0.54	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	23		2.1	0.94	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0079	J	0.018	0.0073	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-068_20250906 — Lab Sample ID: 500-274546-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	62		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.81		0.21	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	22		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	520		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	7.6		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	280		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	22		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.96		0.54	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	63		2.1	0.94	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-054_20250907 — Lab Sample ID: 500-274546-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		1.2	0.42	mg/Kg	1	☼	6010D	Total/NA
Barium	50		1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.43		0.25	0.045	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.2	0.61	mg/Kg	1	☼	6010D	Total/NA
Copper	890		1.2	0.35	mg/Kg	1	☼	6010D	Total/NA
Lead	6.0		0.62	0.29	mg/Kg	1	☼	6010D	Total/NA
Manganese	290		1.2	0.18	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.2	0.36	mg/Kg	1	☼	6010D	Total/NA
Silver	1.4		0.62	0.16	mg/Kg	1	☼	6010D	Total/NA
Zinc	53		2.5	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.022		0.022	0.0090	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-060_20250907 — Lab Sample ID: 500-274546-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.5		1.8	0.61	mg/Kg	1	☼	6010D	Total/NA
Barium	120		1.8	0.20	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.37		0.36	0.064	mg/Kg	1	☼	6010D	Total/NA
Chromium	35		1.8	0.88	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-060_20250907 (Continued) — Lab Sample ID: 500-274546-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2400		8.9	2.5	mg/Kg	5	☼	6010D	Total/NA
Manganese	720		1.8	0.26	mg/Kg	1	☼	6010D	Total/NA
Nickel	35		1.8	0.52	mg/Kg	1	☼	6010D	Total/NA
Silver	2.1		0.89	0.23	mg/Kg	1	☼	6010D	Total/NA
Zinc	100		18	7.8	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.017	J	0.028	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-069_20250907 — Lab Sample ID: 500-274546-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.3		1.0	0.34	mg/Kg	1	☼	6010D	Total/NA
Barium	56		1.0	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.30		0.20	0.036	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.0	0.49	mg/Kg	1	☼	6010D	Total/NA
Copper	280		1.0	0.28	mg/Kg	1	☼	6010D	Total/NA
Lead	5.8		0.50	0.23	mg/Kg	1	☼	6010D	Total/NA
Manganese	210		1.0	0.14	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Silver	0.55		0.50	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	35		2.0	0.88	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0092	J	0.018	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-067_20250907 — Lab Sample ID: 500-274546-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.2	0.42	mg/Kg	1	☼	6010D	Total/NA
Barium	42		1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.26		0.25	0.044	mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.2	0.61	mg/Kg	1	☼	6010D	Total/NA
Copper	140		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Lead	6.8		0.61	0.28	mg/Kg	1	☼	6010D	Total/NA
Manganese	180		1.2	0.18	mg/Kg	1	☼	6010D	Total/NA
Nickel	9.3		1.2	0.36	mg/Kg	1	☼	6010D	Total/NA
Silver	0.58	J	0.61	0.16	mg/Kg	1	☼	6010D	Total/NA
Zinc	31		2.5	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.018	J	0.020	0.0083	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP-03_20250907 — Lab Sample ID: 500-274546-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	58		1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.11	J	0.21	0.037	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.0	0.51	mg/Kg	1	☼	6010D	Total/NA
Copper	15		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	5.5		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	220		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	0.64		0.52	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	29		2.1	0.91	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-058_20250907 — Lab Sample ID: 500-274546-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	63		1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.12	J	0.21	0.037	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.0	0.51	mg/Kg	1	☼	6010D	Total/NA
Copper	36		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	5.2		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	190		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	0.54		0.52	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	29		2.1	0.91	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-066_20250907 — Lab Sample ID: 500-274546-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.0		1.0	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	80		1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.29		0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.0	0.52	mg/Kg	1	☼	6010D	Total/NA
Copper	360		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	390		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	240		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	19		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	0.56		0.52	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	41		2.1	0.92	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0086	J	0.019	0.0078	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-070_20250907 — Lab Sample ID: 500-274546-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	56		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.24		0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	130		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	5.5		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	190		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	14		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.43	J	0.54	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	25		2.2	0.95	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0098	J	0.018	0.0073	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-059_20250907 — Lab Sample ID: 500-274546-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.3		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	51		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.37		0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	360		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	6.0		0.53	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	250		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client Sample ID: SS-059_20250907 (Continued) — Lab Sample ID: 500-274546-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.80		0.53	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	31		2.1	0.94	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0074	J	0.018	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-034_20250907 — Lab Sample ID: 500-274546-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	63		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.10	J	0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Copper	33		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Lead	5.2		0.55	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	220		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Silver	0.64		0.55	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	29		2.2	0.96	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-052_20250907 — Lab Sample ID: 500-274546-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.2		1.0	0.34	mg/Kg	1	☼	6010D	Total/NA
Barium	59		1.0	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.14	J	0.20	0.036	mg/Kg	1	☼	6010D	Total/NA
Chromium	14		1.0	0.50	mg/Kg	1	☼	6010D	Total/NA
Copper	110		1.0	0.28	mg/Kg	1	☼	6010D	Total/NA
Lead	5.7		0.50	0.23	mg/Kg	1	☼	6010D	Total/NA
Manganese	170		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	14		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Silver	0.70		0.50	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	30		2.0	0.88	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.012	J	0.018	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-042_20250907 — Lab Sample ID: 500-274546-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6		1.2	0.40	mg/Kg	1	☼	6010D	Total/NA
Barium	60		1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.77		0.23	0.042	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.2	0.57	mg/Kg	1	☼	6010D	Total/NA
Copper	160		1.2	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	5.6		0.58	0.27	mg/Kg	1	☼	6010D	Total/NA
Manganese	180		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Silver	0.70		0.58	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	33		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-062_20250907 — Lab Sample ID: 500-274546-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		1.2	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	78		1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.73		0.23	0.041	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-062_20250907 (Continued)

Lab Sample ID: 500-274546-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	12		1.2	0.57	mg/Kg	1	☼	6010D	Total/NA
Copper	270		1.2	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	13		0.58	0.27	mg/Kg	1	☼	6010D	Total/NA
Manganese	650		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	8.9		1.2	0.33	mg/Kg	1	☼	6010D	Total/NA
Silver	1.8		0.58	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	57		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.027		0.021	0.0086	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP-04_20250907

Lab Sample ID: 500-274546-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.5		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	59		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.23		0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		1.1	0.52	mg/Kg	1	☼	6010D	Total/NA
Copper	140		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	5.6		0.53	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	160		1.1	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	13		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.65		0.53	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	29		2.1	0.93	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.013	J	0.017	0.0070	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-056_20250907

Lab Sample ID: 500-274546-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.1		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	61		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.9		0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	34		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	1600		5.3	1.5	mg/Kg	5	☼	6010D	Total/NA
Lead	8.2		2.7	1.2	mg/Kg	5	☼	6010D	Total/NA
Manganese	200		1.1	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	14		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	1.2		0.53	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	120		11	4.7	mg/Kg	5	☼	6010D	Total/NA

Client Sample ID: SS-064_20250907

Lab Sample ID: 500-274546-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.3		2.0	0.68	mg/Kg	1	☼	6010D	Total/NA
Barium	140		2.0	0.23	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.45		0.40	0.072	mg/Kg	1	☼	6010D	Total/NA
Chromium	46		2.0	0.99	mg/Kg	1	☼	6010D	Total/NA
Copper	380		2.0	0.56	mg/Kg	1	☼	6010D	Total/NA
Lead	19		1.0	0.46	mg/Kg	1	☼	6010D	Total/NA
Manganese	1400		2.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Nickel	23		2.0	0.58	mg/Kg	1	☼	6010D	Total/NA
Silver	3.9		1.0	0.26	mg/Kg	1	☼	6010D	Total/NA
Zinc	91		4.0	1.8	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.082		0.031	0.013	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: White Pine Copper LLC
Job ID: 500-274546-1
Project/Site: White Pine Copper Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-274546-1	SS-083_20250906	Solid	09/06/25 16:00	09/12/25 09:00	Michigan
500-274546-2	SS-082_20250906	Solid	09/06/25 16:20	09/12/25 09:00	Michigan
500-274546-3	DUP-02_20250906	Solid	09/06/25 00:00	09/12/25 09:00	Michigan
500-274546-4	SS-081_20250906	Solid	09/06/25 16:45	09/12/25 09:00	Michigan
500-274546-5	SS-080_20250906	Solid	09/06/25 17:05	09/12/25 09:00	Michigan
500-274546-6	SS-068_20250906	Solid	09/06/25 17:40	09/12/25 09:00	Michigan
500-274546-7	SS-054_20250907	Solid	09/07/25 10:55	09/12/25 09:00	Michigan
500-274546-8	SS-060_20250907	Solid	09/07/25 09:45	09/12/25 09:00	Michigan
500-274546-9	SS-069_20250907	Solid	09/07/25 08:45	09/12/25 09:00	Michigan
500-274546-10	SS-067_20250907	Solid	09/07/25 09:10	09/12/25 09:00	Michigan
500-274546-11	DUP-03_20250907	Solid	09/07/25 00:00	09/12/25 09:00	Michigan
500-274546-12	SS-058_20250907	Solid	09/07/25 10:30	09/12/25 09:00	Michigan
500-274546-13	SS-066_20250907	Solid	09/07/25 09:20	09/12/25 09:00	Michigan
500-274546-14	SS-070_20250907	Solid	09/07/25 08:25	09/12/25 09:00	Michigan
500-274546-15	SS-059_20250907	Solid	09/07/25 10:10	09/12/25 09:00	Michigan
500-274546-16	SS-034_20250907	Solid	09/07/25 17:50	09/12/25 09:00	Michigan
500-274546-17	SS-052_20250907	Solid	09/07/25 16:30	09/12/25 09:00	Michigan
500-274546-18	SS-042_20250907	Solid	09/07/25 16:45	09/12/25 09:00	Michigan
500-274546-19	SS-062_20250907	Solid	09/07/25 14:00	09/12/25 09:00	Michigan
500-274546-20	DUP-04_20250907	Solid	09/07/25 00:00	09/12/25 09:00	Michigan
500-274546-21	SS-056_20250907	Solid	09/07/25 12:30	09/12/25 09:00	Michigan
500-274546-22	SS-064_20250907	Solid	09/07/25 12:45	09/12/25 09:00	Michigan

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-083_20250906
Date Collected: 09/06/25 16:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-1
Matrix: Solid
Percent Solids: 79.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.0**		1.2	0.40	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1
Barium	**100**		1.2	0.13	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1
Cadmium	**0.33**		0.23	0.042	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1
Chromium	**22**		1.2	0.58	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1
Copper	**60**		1.2	0.33	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1
Lead	**8.8**		0.58	0.27	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1
Manganese	**300**		1.2	0.17	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1
Nickel	**25**		1.2	0.34	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1
Selenium	<0.69		1.2	0.69	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1
Silver	**1.8**		0.58	0.15	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1
Zinc	**47**		2.3	1.0	mg/Kg	☼	09/16/25 15:25	09/18/25 02:35	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0078		0.019	0.0078	mg/Kg	☼	09/19/25 12:45	09/22/25 07:18	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-082_20250906
Date Collected: 09/06/25 16:20
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-2
Matrix: Solid
Percent Solids: 89.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		1.1	0.36	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1
Barium	58		1.1	0.12	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1
Cadmium	0.19	J	0.21	0.038	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1
Chromium	17		1.1	0.53	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1
Copper	43		1.1	0.30	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1
Lead	7.1		0.53	0.25	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1
Manganese	200		1.1	0.15	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1
Nickel	14		1.1	0.31	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1
Zinc	30		2.1	0.93	mg/Kg	☼	09/16/25 15:25	09/18/25 02:48	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.017	0.0070	mg/Kg	☼	09/19/25 12:45	09/22/25 07:20	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: DUP-02_20250906
Date Collected: 09/06/25 00:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-3
Matrix: Solid
Percent Solids: 79.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		1.1	0.39	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1
Barium	110		1.1	0.13	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1
Cadmium	0.14	J	0.23	0.041	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1
Chromium	21		1.1	0.57	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1
Copper	72	F1	1.1	0.32	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1
Lead	8.9		0.57	0.26	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1
Manganese	290		1.1	0.17	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1
Nickel	24		1.1	0.33	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1
Selenium	<0.67	F1	1.1	0.67	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1
Silver	0.49	J F1	0.57	0.15	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1
Zinc	46	F1	2.3	1.0	mg/Kg	☼	09/17/25 15:07	09/19/25 19:39	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.019	0.0078	mg/Kg	☼	09/19/25 12:45	09/22/25 07:22	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-081_20250906
Date Collected: 09/06/25 16:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-4
Matrix: Solid
Percent Solids: 86.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		1.0	0.35	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1
Barium	120		1.0	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1
Cadmium	0.11	J	0.21	0.037	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1
Chromium	22		1.0	0.51	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1
Copper	18		1.0	0.29	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1
Lead	7.3		0.52	0.24	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1
Manganese	300		1.0	0.15	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1
Nickel	25		1.0	0.30	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1
Silver	0.64		0.52	0.13	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1
Zinc	44		2.1	0.90	mg/Kg	☼	09/17/25 15:07	09/19/25 20:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg	☼	09/19/25 12:45	09/22/25 07:24	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-080_20250906
Date Collected: 09/06/25 17:05
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-5
Matrix: Solid
Percent Solids: 83.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		1.1	0.37	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1
Barium	80		1.1	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1
Cadmium	0.084	J	0.21	0.039	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1
Chromium	16		1.1	0.53	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1
Copper	18		1.1	0.30	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1
Lead	5.1		0.54	0.25	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1
Manganese	140		1.1	0.16	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1
Nickel	12		1.1	0.31	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1
Silver	0.26	J	0.54	0.14	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1
Zinc	23		2.1	0.94	mg/Kg	☼	09/17/25 15:07	09/19/25 20:14	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0079	J	0.018	0.0073	mg/Kg	☼	09/19/25 12:45	09/22/25 07:26	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-068_20250906
Date Collected: 09/06/25 17:40
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-6
Matrix: Solid
Percent Solids: 78.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.1	0.37	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1
Barium	62		1.1	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1
Cadmium	0.81		0.21	0.039	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1
Chromium	22		1.1	0.53	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1
Copper	520		1.1	0.30	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1
Lead	7.6		0.54	0.25	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1
Manganese	280		1.1	0.16	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1
Nickel	22		1.1	0.31	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1
Silver	0.96		0.54	0.14	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1
Zinc	63		2.1	0.94	mg/Kg	☼	09/17/25 15:07	09/19/25 20:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0082		0.020	0.0082	mg/Kg	☼	09/19/25 12:45	09/22/25 07:27	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-054_20250907
Date Collected: 09/07/25 10:55
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-7
Matrix: Solid
Percent Solids: 69.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		1.2	0.42	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1
Barium	50		1.2	0.14	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1
Cadmium	0.43		0.25	0.045	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1
Chromium	19		1.2	0.61	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1
Copper	890		1.2	0.35	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1
Lead	6.0		0.62	0.29	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1
Manganese	290		1.2	0.18	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1
Nickel	17		1.2	0.36	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1
Selenium	<0.73		1.2	0.73	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1
Silver	1.4		0.62	0.16	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1
Zinc	53		2.5	1.1	mg/Kg	☼	09/17/25 15:07	09/19/25 20:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.022	0.0090	mg/Kg	☼	09/19/25 12:45	09/22/25 07:29	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-060_20250907
Date Collected: 09/07/25 09:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-8
Matrix: Solid
Percent Solids: 54.4

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		1.8	0.61	mg/Kg	☼	09/17/25 15:07	09/19/25 20:27	1
Barium	120		1.8	0.20	mg/Kg	☼	09/17/25 15:07	09/19/25 20:27	1
Cadmium	0.37		0.36	0.064	mg/Kg	☼	09/17/25 15:07	09/19/25 20:27	1
Chromium	35		1.8	0.88	mg/Kg	☼	09/17/25 15:07	09/19/25 20:27	1
Copper	2400		8.9	2.5	mg/Kg	☼	09/17/25 15:07	09/22/25 19:02	5
Lead	<2.1		4.5	2.1	mg/Kg	☼	09/17/25 15:07	09/22/25 19:02	5
Manganese	720		1.8	0.26	mg/Kg	☼	09/17/25 15:07	09/19/25 20:27	1
Nickel	35		1.8	0.52	mg/Kg	☼	09/17/25 15:07	09/19/25 20:27	1
Selenium	<1.0		1.8	1.0	mg/Kg	☼	09/17/25 15:07	09/19/25 20:27	1
Silver	2.1		0.89	0.23	mg/Kg	☼	09/17/25 15:07	09/19/25 20:27	1
Zinc	100		18	7.8	mg/Kg	☼	09/17/25 15:07	09/22/25 19:02	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.028	0.011	mg/Kg	☼	09/19/25 12:45	09/22/25 07:36	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-069_20250907
Date Collected: 09/07/25 08:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-9
Matrix: Solid
Percent Solids: 85.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		1.0	0.34	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1
Barium	56		1.0	0.11	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1
Cadmium	0.30		0.20	0.036	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1
Chromium	19		1.0	0.49	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1
Copper	280		1.0	0.28	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1
Lead	5.8		0.50	0.23	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1
Manganese	210		1.0	0.14	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1
Nickel	17		1.0	0.29	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1
Silver	0.55		0.50	0.13	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1
Zinc	35		2.0	0.88	mg/Kg	☼	09/17/25 15:07	09/19/25 20:32	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0092	J	0.018	0.0074	mg/Kg	☼	09/19/25 12:45	09/22/25 07:38	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-067_20250907
Date Collected: 09/07/25 09:10
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-10
Matrix: Solid
Percent Solids: 77.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.2	0.42	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1
Barium	42		1.2	0.14	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1
Cadmium	0.26		0.25	0.044	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1
Chromium	13		1.2	0.61	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1
Copper	140		1.2	0.34	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1
Lead	6.8		0.61	0.28	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1
Manganese	180		1.2	0.18	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1
Nickel	9.3		1.2	0.36	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1
Selenium	<0.72		1.2	0.72	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1
Silver	0.58	J	0.61	0.16	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1
Zinc	31		2.5	1.1	mg/Kg	☼	09/17/25 15:07	09/19/25 20:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018	J	0.020	0.0083	mg/Kg	☼	09/19/25 12:45	09/22/25 07:39	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: DUP-03_20250907
Date Collected: 09/07/25 00:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-11
Matrix: Solid
Percent Solids: 89.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		1.0	0.35	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1
Barium	58		1.0	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1
Cadmium	0.11	J	0.21	0.037	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1
Chromium	17		1.0	0.51	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1
Copper	15		1.0	0.29	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1
Lead	5.5		0.52	0.24	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1
Manganese	220		1.0	0.15	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1
Nickel	17		1.0	0.30	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1
Silver	0.64		0.52	0.13	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1
Zinc	29		2.1	0.91	mg/Kg	☼	09/17/25 15:07	09/19/25 20:49	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0075		0.018	0.0075	mg/Kg	☼	09/19/25 12:45	09/22/25 07:47	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-058_20250907
Date Collected: 09/07/25 10:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-12
Matrix: Solid
Percent Solids: 88.2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.8**		1.0	0.35	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1
Barium	**63**		1.0	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1
Cadmium	**0.12**	**J**	0.21	0.037	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1
Chromium	**17**		1.0	0.51	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1
Copper	**36**		1.0	0.29	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1
Lead	**5.2**		0.52	0.24	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1
Manganese	**190**		1.0	0.15	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1
Nickel	**16**		1.0	0.30	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1
Silver	**0.54**		0.52	0.13	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1
Zinc	**29**		2.1	0.91	mg/Kg	☼	09/17/25 15:07	09/19/25 20:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0075		0.018	0.0075	mg/Kg	☼	09/19/25 12:45	09/22/25 07:49	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-066_20250907
Date Collected: 09/07/25 09:20
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-13
Matrix: Solid
Percent Solids: 84.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		1.0	0.36	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1
Barium	80		1.0	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1
Cadmium	0.29		0.21	0.038	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1
Chromium	19		1.0	0.52	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1
Copper	360		1.0	0.29	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1
Lead	390		0.52	0.24	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1
Manganese	240		1.0	0.15	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1
Nickel	19		1.0	0.30	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1
Silver	0.56		0.52	0.13	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1
Zinc	41		2.1	0.92	mg/Kg	☼	09/17/25 15:07	09/19/25 20:58	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0086	J	0.019	0.0078	mg/Kg	☼	09/19/25 12:45	09/22/25 07:51	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-070_20250907
Date Collected: 09/07/25 08:25
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-14
Matrix: Solid
Percent Solids: 88.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		1.1	0.37	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1
Barium	56		1.1	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1
Cadmium	0.24		0.22	0.039	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1
Chromium	15		1.1	0.53	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1
Copper	130		1.1	0.30	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1
Lead	5.5		0.54	0.25	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1
Manganese	190		1.1	0.16	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1
Nickel	14		1.1	0.31	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1
Silver	0.43	J	0.54	0.14	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1
Zinc	25		2.2	0.95	mg/Kg	☼	09/17/25 15:07	09/19/25 21:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0098	J	0.018	0.0073	mg/Kg	☼	09/19/25 12:45	09/22/25 07:52	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-059_20250907
Date Collected: 09/07/25 10:10
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-15
Matrix: Solid
Percent Solids: 84.4

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		1.1	0.37	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1
Barium	51		1.1	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1
Cadmium	0.37		0.21	0.038	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1
Chromium	16		1.1	0.53	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1
Copper	360		1.1	0.30	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1
Lead	6.0		0.53	0.25	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1
Manganese	250		1.1	0.16	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1
Nickel	16		1.1	0.31	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1
Silver	0.80		0.53	0.14	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1
Zinc	31		2.1	0.94	mg/Kg	☼	09/17/25 15:07	09/19/25 21:07	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0074	J	0.018	0.0074	mg/Kg	☼	09/19/25 12:45	09/22/25 07:59	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-034_20250907
Date Collected: 09/07/25 17:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-16
Matrix: Solid
Percent Solids: 88.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		1.1	0.37	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1
Barium	63		1.1	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1
Cadmium	0.10	J	0.22	0.039	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1
Chromium	16		1.1	0.54	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1
Copper	33		1.1	0.31	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1
Lead	5.2		0.55	0.25	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1
Manganese	220		1.1	0.16	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1
Nickel	16		1.1	0.32	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1
Silver	0.64		0.55	0.14	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1
Zinc	29		2.2	0.96	mg/Kg	☼	09/17/25 15:07	09/19/25 21:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0074		0.018	0.0074	mg/Kg	☼	09/19/25 12:45	09/22/25 08:01	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-052_20250907
Date Collected: 09/07/25 16:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-17
Matrix: Solid
Percent Solids: 86.4

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		1.0	0.34	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1
Barium	59		1.0	0.11	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1
Cadmium	0.14	J	0.20	0.036	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1
Chromium	14		1.0	0.50	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1
Copper	110		1.0	0.28	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1
Lead	5.7		0.50	0.23	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1
Manganese	170		1.0	0.15	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1
Nickel	14		1.0	0.29	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1
Silver	0.70		0.50	0.13	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1
Zinc	30		2.0	0.88	mg/Kg	☼	09/17/25 15:07	09/19/25 21:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.012	J	0.018	0.0074	mg/Kg	☼	09/19/25 12:45	09/22/25 08:02	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-042_20250907
Date Collected: 09/07/25 16:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-18
Matrix: Solid
Percent Solids: 80.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		1.2	0.40	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1
Barium	60		1.2	0.13	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1
Cadmium	0.77		0.23	0.042	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1
Chromium	16		1.2	0.57	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1
Copper	160		1.2	0.32	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1
Lead	5.6		0.58	0.27	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1
Manganese	180		1.2	0.17	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1
Nickel	16		1.2	0.34	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1
Selenium	<0.68		1.2	0.68	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1
Silver	0.70		0.58	0.15	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1
Zinc	33		2.3	1.0	mg/Kg	☼	09/17/25 15:07	09/19/25 21:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0078		0.019	0.0078	mg/Kg	☼	09/19/25 12:45	09/22/25 08:04	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-062_20250907
Date Collected: 09/07/25 14:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-19
Matrix: Solid
Percent Solids: 75.1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		1.2	0.39	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1
Barium	78		1.2	0.13	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1
Cadmium	0.73		0.23	0.041	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1
Chromium	12		1.2	0.57	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1
Copper	270		1.2	0.32	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1
Lead	13		0.58	0.27	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1
Manganese	650		1.2	0.17	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1
Nickel	8.9		1.2	0.33	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1
Selenium	<0.68		1.2	0.68	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1
Silver	1.8		0.58	0.15	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1
Zinc	57		2.3	1.0	mg/Kg	☼	09/17/25 15:07	09/19/25 21:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.021	0.0086	mg/Kg	☼	09/19/25 12:45	09/22/25 08:06	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: DUP-04_20250907
Date Collected: 09/07/25 00:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-20
Matrix: Solid
Percent Solids: 89.1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.5		1.1	0.36	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1
Barium	59		1.1	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1
Cadmium	0.23		0.21	0.038	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1
Chromium	15		1.1	0.52	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1
Copper	140		1.1	0.30	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1
Lead	5.6		0.53	0.24	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1
Manganese	160		1.1	0.15	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1
Nickel	13		1.1	0.31	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1
Silver	0.65		0.53	0.14	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1
Zinc	29		2.1	0.93	mg/Kg	☼	09/17/25 15:07	09/19/25 21:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.013	J	0.017	0.0070	mg/Kg	☼	09/19/25 12:45	09/22/25 08:07	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-056_20250907
Date Collected: 09/07/25 12:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-21
Matrix: Solid
Percent Solids: 91.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.1		1.1	0.36	mg/Kg	☼	09/17/25 15:07	09/19/25 21:42	1
Barium	61		1.1	0.12	mg/Kg	☼	09/17/25 15:07	09/19/25 21:42	1
Cadmium	1.9		0.21	0.038	mg/Kg	☼	09/17/25 15:07	09/19/25 21:42	1
Chromium	34		1.1	0.53	mg/Kg	☼	09/17/25 15:07	09/19/25 21:42	1
Copper	1600		5.3	1.5	mg/Kg	☼	09/17/25 15:07	09/22/25 19:06	5
Lead	8.2		2.7	1.2	mg/Kg	☼	09/17/25 15:07	09/22/25 19:06	5
Manganese	200		1.1	0.15	mg/Kg	☼	09/17/25 15:07	09/19/25 21:42	1
Nickel	14		1.1	0.31	mg/Kg	☼	09/17/25 15:07	09/19/25 21:42	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	09/17/25 15:07	09/19/25 21:42	1
Silver	1.2		0.53	0.14	mg/Kg	☼	09/17/25 15:07	09/19/25 21:42	1
Zinc	120		11	4.7	mg/Kg	☼	09/17/25 15:07	09/22/25 19:06	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0072		0.017	0.0072	mg/Kg	☼	09/19/25 12:45	09/22/25 09:13	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-064_20250907
Date Collected: 09/07/25 12:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274546-22
Matrix: Solid
Percent Solids: 49.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.3		2.0	0.68	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1
Barium	140		2.0	0.23	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1
Cadmium	0.45		0.40	0.072	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1
Chromium	46		2.0	0.99	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1
Copper	380		2.0	0.56	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1
Lead	19		1.0	0.46	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1
Manganese	1400		2.0	0.29	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1
Nickel	23		2.0	0.58	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1
Selenium	<1.2		2.0	1.2	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1
Silver	3.9		1.0	0.26	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1
Zinc	91		4.0	1.8	mg/Kg	☼	09/17/25 15:07	09/19/25 21:47	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.082		0.031	0.013	mg/Kg	☼	09/19/25 12:45	09/22/25 09:16	1

Client: White Pine Copper LLC
Job ID: 500-274546-1
Project/Site: White Pine Copper Soils

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 834228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-1	SS-083_20250906	Total/NA	Solid	3050B	
500-274546-2	SS-082_20250906	Total/NA	Solid	3050B	
MB 500-834228/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-834228/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 834421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-3	DUP-02_20250906	Total/NA	Solid	3050B	
500-274546-4	SS-081_20250906	Total/NA	Solid	3050B	
500-274546-5	SS-080_20250906	Total/NA	Solid	3050B	
500-274546-6	SS-068_20250906	Total/NA	Solid	3050B	
500-274546-7	SS-054_20250907	Total/NA	Solid	3050B	
500-274546-8	SS-060_20250907	Total/NA	Solid	3050B	
500-274546-9	SS-069_20250907	Total/NA	Solid	3050B	
500-274546-10	SS-067_20250907	Total/NA	Solid	3050B	
500-274546-11	DUP-03_20250907	Total/NA	Solid	3050B	
500-274546-12	SS-058_20250907	Total/NA	Solid	3050B	
500-274546-13	SS-066_20250907	Total/NA	Solid	3050B	
500-274546-14	SS-070_20250907	Total/NA	Solid	3050B	
500-274546-15	SS-059_20250907	Total/NA	Solid	3050B	
500-274546-16	SS-034_20250907	Total/NA	Solid	3050B	
500-274546-17	SS-052_20250907	Total/NA	Solid	3050B	
500-274546-18	SS-042_20250907	Total/NA	Solid	3050B	
500-274546-19	SS-062_20250907	Total/NA	Solid	3050B	
500-274546-20	DUP-04_20250907	Total/NA	Solid	3050B	
500-274546-21	SS-056_20250907	Total/NA	Solid	3050B	
500-274546-22	SS-064_20250907	Total/NA	Solid	3050B	
MB 500-834421/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-834421/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-274546-3 MS	DUP-02_20250906	Total/NA	Solid	3050B	
500-274546-3 MSD	DUP-02_20250906	Total/NA	Solid	3050B	
500-274546-3 DU	DUP-02_20250906	Total/NA	Solid	3050B	

Analysis Batch: 834531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-1	SS-083_20250906	Total/NA	Solid	6010D	834228
500-274546-2	SS-082_20250906	Total/NA	Solid	6010D	834228
MB 500-834228/1-A	Method Blank	Total/NA	Solid	6010D	834228
LCS 500-834228/2-A	Lab Control Sample	Total/NA	Solid	6010D	834228

Prep Batch: 834658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-1	SS-083_20250906	Total/NA	Solid	7471B	
500-274546-2	SS-082_20250906	Total/NA	Solid	7471B	
500-274546-3	DUP-02_20250906	Total/NA	Solid	7471B	
500-274546-4	SS-081_20250906	Total/NA	Solid	7471B	
500-274546-5	SS-080_20250906	Total/NA	Solid	7471B	
500-274546-6	SS-068_20250906	Total/NA	Solid	7471B	
500-274546-7	SS-054_20250907	Total/NA	Solid	7471B	
500-274546-8	SS-060_20250907	Total/NA	Solid	7471B	
500-274546-9	SS-069_20250907	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 834658 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-10	SS-067_20250907	Total/NA	Solid	7471B	
500-274546-11	DUP-03_20250907	Total/NA	Solid	7471B	
500-274546-12	SS-058_20250907	Total/NA	Solid	7471B	
500-274546-13	SS-066_20250907	Total/NA	Solid	7471B	
500-274546-14	SS-070_20250907	Total/NA	Solid	7471B	
500-274546-15	SS-059_20250907	Total/NA	Solid	7471B	
500-274546-16	SS-034_20250907	Total/NA	Solid	7471B	
500-274546-17	SS-052_20250907	Total/NA	Solid	7471B	
500-274546-18	SS-042_20250907	Total/NA	Solid	7471B	
500-274546-19	SS-062_20250907	Total/NA	Solid	7471B	
500-274546-20	DUP-04_20250907	Total/NA	Solid	7471B	
MB 500-834658/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-834658/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-274546-10 MS	SS-067_20250907	Total/NA	Solid	7471B	
500-274546-10 MSD	SS-067_20250907	Total/NA	Solid	7471B	
500-274546-10 DU	SS-067_20250907	Total/NA	Solid	7471B	

Prep Batch: 834664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-21	SS-056_20250907	Total/NA	Solid	7471B	
500-274546-22	SS-064_20250907	Total/NA	Solid	7471B	
MB 500-834664/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-834664/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 834931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-3	DUP-02_20250906	Total/NA	Solid	6010D	834421
500-274546-4	SS-081_20250906	Total/NA	Solid	6010D	834421
500-274546-5	SS-080_20250906	Total/NA	Solid	6010D	834421
500-274546-6	SS-068_20250906	Total/NA	Solid	6010D	834421
500-274546-7	SS-054_20250907	Total/NA	Solid	6010D	834421
500-274546-8	SS-060_20250907	Total/NA	Solid	6010D	834421
500-274546-9	SS-069_20250907	Total/NA	Solid	6010D	834421
500-274546-10	SS-067_20250907	Total/NA	Solid	6010D	834421
500-274546-11	DUP-03_20250907	Total/NA	Solid	6010D	834421
500-274546-12	SS-058_20250907	Total/NA	Solid	6010D	834421
500-274546-13	SS-066_20250907	Total/NA	Solid	6010D	834421
500-274546-14	SS-070_20250907	Total/NA	Solid	6010D	834421
500-274546-15	SS-059_20250907	Total/NA	Solid	6010D	834421
500-274546-16	SS-034_20250907	Total/NA	Solid	6010D	834421
500-274546-17	SS-052_20250907	Total/NA	Solid	6010D	834421
500-274546-18	SS-042_20250907	Total/NA	Solid	6010D	834421
500-274546-19	SS-062_20250907	Total/NA	Solid	6010D	834421
500-274546-20	DUP-04_20250907	Total/NA	Solid	6010D	834421
500-274546-21	SS-056_20250907	Total/NA	Solid	6010D	834421
500-274546-22	SS-064_20250907	Total/NA	Solid	6010D	834421
MB 500-834421/1-A	Method Blank	Total/NA	Solid	6010D	834421
LCS 500-834421/2-A	Lab Control Sample	Total/NA	Solid	6010D	834421
500-274546-3 MS	DUP-02_20250906	Total/NA	Solid	6010D	834421
500-274546-3 MSD	DUP-02_20250906	Total/NA	Solid	6010D	834421
500-274546-3 DU	DUP-02_20250906	Total/NA	Solid	6010D	834421

Metals

Analysis Batch: 834950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-1	SS-083_20250906	Total/NA	Solid	7471B	834658
500-274546-2	SS-082_20250906	Total/NA	Solid	7471B	834658
500-274546-3	DUP-02_20250906	Total/NA	Solid	7471B	834658
500-274546-4	SS-081_20250906	Total/NA	Solid	7471B	834658
500-274546-5	SS-080_20250906	Total/NA	Solid	7471B	834658
500-274546-6	SS-068_20250906	Total/NA	Solid	7471B	834658
500-274546-7	SS-054_20250907	Total/NA	Solid	7471B	834658
500-274546-8	SS-060_20250907	Total/NA	Solid	7471B	834658
500-274546-9	SS-069_20250907	Total/NA	Solid	7471B	834658
500-274546-10	SS-067_20250907	Total/NA	Solid	7471B	834658
500-274546-11	DUP-03_20250907	Total/NA	Solid	7471B	834658
500-274546-12	SS-058_20250907	Total/NA	Solid	7471B	834658
500-274546-13	SS-066_20250907	Total/NA	Solid	7471B	834658
500-274546-14	SS-070_20250907	Total/NA	Solid	7471B	834658
500-274546-15	SS-059_20250907	Total/NA	Solid	7471B	834658
500-274546-16	SS-034_20250907	Total/NA	Solid	7471B	834658
500-274546-17	SS-052_20250907	Total/NA	Solid	7471B	834658
500-274546-18	SS-042_20250907	Total/NA	Solid	7471B	834658
500-274546-19	SS-062_20250907	Total/NA	Solid	7471B	834658
500-274546-20	DUP-04_20250907	Total/NA	Solid	7471B	834658
500-274546-21	SS-056_20250907	Total/NA	Solid	7471B	834664
500-274546-22	SS-064_20250907	Total/NA	Solid	7471B	834664
MB 500-834658/12-A	Method Blank	Total/NA	Solid	7471B	834658
MB 500-834664/12-A	Method Blank	Total/NA	Solid	7471B	834664
LCS 500-834658/13-A	Lab Control Sample	Total/NA	Solid	7471B	834658
LCS 500-834664/13-A	Lab Control Sample	Total/NA	Solid	7471B	834664
500-274546-10 MS	SS-067_20250907	Total/NA	Solid	7471B	834658
500-274546-10 MSD	SS-067_20250907	Total/NA	Solid	7471B	834658
500-274546-10 DU	SS-067_20250907	Total/NA	Solid	7471B	834658

Analysis Batch: 835174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-8	SS-060_20250907	Total/NA	Solid	6010D	834421
500-274546-21	SS-056_20250907	Total/NA	Solid	6010D	834421

General Chemistry

Analysis Batch: 833762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-1	SS-083_20250906	Total/NA	Solid	Moisture	
500-274546-2	SS-082_20250906	Total/NA	Solid	Moisture	
500-274546-3	DUP-02_20250906	Total/NA	Solid	Moisture	

Analysis Batch: 833909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-4	SS-081_20250906	Total/NA	Solid	Moisture	
500-274546-5	SS-080_20250906	Total/NA	Solid	Moisture	
500-274546-6	SS-068_20250906	Total/NA	Solid	Moisture	
500-274546-7	SS-054_20250907	Total/NA	Solid	Moisture	
500-274546-8	SS-060_20250907	Total/NA	Solid	Moisture	
500-274546-9	SS-069_20250907	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 833909 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-10	SS-067_20250907	Total/NA	Solid	Moisture	
500-274546-11	DUP-03_20250907	Total/NA	Solid	Moisture	
500-274546-12	SS-058_20250907	Total/NA	Solid	Moisture	
500-274546-13	SS-066_20250907	Total/NA	Solid	Moisture	
500-274546-14	SS-070_20250907	Total/NA	Solid	Moisture	
500-274546-15	SS-059_20250907	Total/NA	Solid	Moisture	
500-274546-16	SS-034_20250907	Total/NA	Solid	Moisture	
500-274546-17	SS-052_20250907	Total/NA	Solid	Moisture	
500-274546-18	SS-042_20250907	Total/NA	Solid	Moisture	
500-274546-19	SS-062_20250907	Total/NA	Solid	Moisture	

Analysis Batch: 833919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274546-20	DUP-04_20250907	Total/NA	Solid	Moisture	
500-274546-21	SS-056_20250907	Total/NA	Solid	Moisture	
500-274546-22	SS-064_20250907	Total/NA	Solid	Moisture	
500-274546-20 DU	DUP-04_20250907	Total/NA	Solid	Moisture	

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-834228/1-A
Matrix: Solid
Analysis Batch: 834531

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834228

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Barium	<0.11		1.0	0.11	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Cadmium	<0.036		0.20	0.036	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Copper	<0.28		1.0	0.28	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Lead	<0.23		0.50	0.23	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Manganese	<0.15		1.0	0.15	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Nickel	<0.29		1.0	0.29	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Selenium	0.596	J	1.0	0.59	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Silver	<0.13		0.50	0.13	mg/Kg		09/16/25 15:25	09/18/25 01:14	1
Zinc	<0.88		2.0	0.88	mg/Kg		09/16/25 15:25	09/18/25 01:14	1

Lab Sample ID: LCS 500-834228/2-A
Matrix: Solid
Analysis Batch: 834531

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834228

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.05		mg/Kg		91	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Cadmium	5.00	4.74		mg/Kg		95	80 - 120
Chromium	20.0	20.0		mg/Kg		100	80 - 120
Copper	25.0	23.6		mg/Kg		95	80 - 120
Lead	10.0	10.5		mg/Kg		105	80 - 120
Manganese	50.0	47.1		mg/Kg		94	80 - 120
Nickel	50.0	51.8		mg/Kg		104	80 - 120
Selenium	10.0	9.75		mg/Kg		97	80 - 120
Silver	5.00	4.77		mg/Kg		95	80 - 120
Zinc	50.0	47.5		mg/Kg		95	80 - 120

Lab Sample ID: MB 500-834421/1-A
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834421

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/17/25 15:07	09/19/25 19:30	1
Barium	<0.11		1.0	0.11	mg/Kg		09/17/25 15:07	09/19/25 19:30	1
Cadmium	<0.036		0.20	0.036	mg/Kg		09/17/25 15:07	09/19/25 19:30	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/17/25 15:07	09/19/25 19:30	1
Copper	<0.28		1.0	0.28	mg/Kg		09/17/25 15:07	09/19/25 19:30	1
Lead	<0.23		0.50	0.23	mg/Kg		09/17/25 15:07	09/19/25 19:30	1
Manganese	<0.15		1.0	0.15	mg/Kg		09/17/25 15:07	09/19/25 19:30	1
Nickel	<0.29		1.0	0.29	mg/Kg		09/17/25 15:07	09/19/25 19:30	1
Selenium	<0.59		1.0	0.59	mg/Kg		09/17/25 15:07	09/19/25 19:30	1
Silver	<0.13		0.50	0.13	mg/Kg		09/17/25 15:07	09/19/25 19:30	1
Zinc	<0.88		2.0	0.88	mg/Kg		09/17/25 15:07	09/19/25 19:30	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-834421/2-A
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834421

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.67		mg/Kg		97	80 - 120
Barium	200	197		mg/Kg		99	80 - 120
Cadmium	5.00	4.62		mg/Kg		92	80 - 120
Chromium	20.0	19.8		mg/Kg		99	80 - 120
Copper	25.0	24.9		mg/Kg		100	80 - 120
Lead	10.0	10.3		mg/Kg		103	80 - 120
Manganese	50.0	54.6		mg/Kg		109	80 - 120
Nickel	50.0	50.6		mg/Kg		101	80 - 120
Selenium	10.0	9.20		mg/Kg		92	80 - 120
Silver	5.00	4.60		mg/Kg		92	80 - 120
Zinc	50.0	48.0		mg/Kg		96	80 - 120

Lab Sample ID: 500-274546-3 MS
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: DUP-02_20250906
Prep Type: Total/NA
Prep Batch: 834421

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	4.2		11.1	12.7		mg/Kg	☼	77	75 - 125
Barium	110		222	304		mg/Kg	☼	87	75 - 125
Cadmium	0.14	J	5.56	4.39		mg/Kg	☼	77	75 - 125
Chromium	21		22.2	41.0		mg/Kg	☼	89	75 - 125
Copper	72	F1	27.8	84.2	F1	mg/Kg	☼	44	75 - 125
Lead	8.9		11.1	20.0		mg/Kg	☼	100	75 - 125
Manganese	290		55.6	338	4	mg/Kg	☼	81	75 - 125
Nickel	24		55.6	83.9		mg/Kg	☼	108	75 - 125
Selenium	<0.67	F1	11.1	7.93	F1	mg/Kg	☼	71	75 - 125
Silver	0.49	J F1	5.56	4.76		mg/Kg	☼	77	75 - 125
Zinc	46	F1	55.6	120	F1	mg/Kg	☼	133	75 - 125

Lab Sample ID: 500-274546-3 MSD
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: DUP-02_20250906
Prep Type: Total/NA
Prep Batch: 834421

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	4.2		12.3	14.1		mg/Kg	☼	80	75 - 125	10	20
Barium	110		247	337		mg/Kg	☼	91	75 - 125	10	20
Cadmium	0.14	J	6.17	5.15		mg/Kg	☼	81	75 - 125	16	20
Chromium	21		24.7	44.9		mg/Kg	☼	96	75 - 125	9	20
Copper	72	F1	30.8	90.7	F1	mg/Kg	☼	61	75 - 125	8	20
Lead	8.9		12.3	21.0		mg/Kg	☼	98	75 - 125	5	20
Manganese	290		61.7	334	4	mg/Kg	☼	66	75 - 125	1	20
Nickel	24		61.7	89.9		mg/Kg	☼	107	75 - 125	7	20
Selenium	<0.67	F1	12.3	9.38		mg/Kg	☼	76	75 - 125	17	20
Silver	0.49	J F1	6.17	5.03	F1	mg/Kg	☼	74	75 - 125	5	20
Zinc	46	F1	61.7	122		mg/Kg	☼	124	75 - 125	2	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-274546-3 DU
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: DUP-02_20250906
Prep Type: Total/NA
Prep Batch: 834421

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	4.2		4.01		mg/Kg	☼	5	20
Barium	110		106		mg/Kg	☼	5	20
Cadmium	0.14	J	0.222	F5	mg/Kg	☼	43	20
Chromium	21		19.8		mg/Kg	☼	7	20
Copper	72	F1	65.3		mg/Kg	☼	10	20
Lead	8.9		8.07		mg/Kg	☼	10	20
Manganese	290		237	F3	mg/Kg	☼	21	20
Nickel	24		22.7		mg/Kg	☼	6	20
Selenium	<0.67	F1	<0.64		mg/Kg	☼	NC	20
Silver	0.49	J F1	0.732	F5	mg/Kg	☼	40	20
Zinc	46	F1	47.6		mg/Kg	☼	3	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-834658/12-A
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834658

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		09/19/25 12:45	09/22/25 07:15	1

Lab Sample ID: LCS 500-834658/13-A
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834658

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.165		mg/Kg		99	80 - 120

Lab Sample ID: 500-274546-10 MS
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: SS-067_20250907
Prep Type: Total/NA
Prep Batch: 834658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.018	J	0.0999	0.109		mg/Kg	☼	91	75 - 125

Lab Sample ID: 500-274546-10 MSD
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: SS-067_20250907
Prep Type: Total/NA
Prep Batch: 834658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.018	J	0.101	0.106		mg/Kg	☼	87	75 - 125	3	20

Lab Sample ID: 500-274546-10 DU
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: SS-067_20250907
Prep Type: Total/NA
Prep Batch: 834658

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.018	J	0.0219		mg/Kg	☼	18	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 500-834664/12-A
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		09/19/25 12:45	09/22/25 09:10	1

Lab Sample ID: LCS 500-834664/13-A
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834664

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.167	0.136		mg/Kg		82	80 - 120		

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-083_20250906
Lab Sample ID: 500-274546-1
Date Collected: 09/06/25 16:00
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833762	RB	EET CHI	09/12/25 13:50

Client Sample ID: SS-083_20250906
Lab Sample ID: 500-274546-1
Date Collected: 09/06/25 16:00
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 02:35
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:18

Client Sample ID: SS-082_20250906
Lab Sample ID: 500-274546-2
Date Collected: 09/06/25 16:20
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833762	RB	EET CHI	09/12/25 13:50

Client Sample ID: SS-082_20250906
Lab Sample ID: 500-274546-2
Date Collected: 09/06/25 16:20
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834228	MS	EET CHI	09/16/25 15:25 - 09/16/25 20:25 ¹
Total/NA	Analysis	6010D		1	834531	S1Z	EET CHI	09/18/25 02:48
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:20

Client Sample ID: DUP-02_20250906
Lab Sample ID: 500-274546-3
Date Collected: 09/06/25 00:00
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833762	RB	EET CHI	09/12/25 13:50

Client Sample ID: DUP-02_20250906
Lab Sample ID: 500-274546-3
Date Collected: 09/06/25 00:00
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 79.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 ¹
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 19:39
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:22

Client Sample ID: SS-081_20250906 — **Lab Sample ID: 500-274546-4**
Date Collected: 09/06/25 16:45 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-081_20250906 — **Lab Sample ID: 500-274546-4**
Date Collected: 09/06/25 16:45 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 86.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 ¹
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 20:10
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:24

Client Sample ID: SS-080_20250906 — **Lab Sample ID: 500-274546-5**
Date Collected: 09/06/25 17:05 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-080_20250906 — **Lab Sample ID: 500-274546-5**
Date Collected: 09/06/25 17:05 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 83.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 ¹
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 20:14
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:26

Client Sample ID: SS-068_20250906 — **Lab Sample ID: 500-274546-6**
Date Collected: 09/06/25 17:40 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-068_20250906 — **Lab Sample ID: 500-274546-6**
Date Collected: 09/06/25 17:40 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 78.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 ¹
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 20:19
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:27

Client Sample ID: SS-054_20250907
Lab Sample ID: 500-274546-7
Date Collected: 09/07/25 10:55
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-054_20250907
Lab Sample ID: 500-274546-7
Date Collected: 09/07/25 10:55
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 69.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 20:23
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:29

Client Sample ID: SS-060_20250907
Lab Sample ID: 500-274546-8
Date Collected: 09/07/25 09:45
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-060_20250907
Lab Sample ID: 500-274546-8
Date Collected: 09/07/25 09:45
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 54.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 20:27
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		5	835174	S1Z	EET CHI	09/22/25 19:02
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:36

Client Sample ID: SS-069_20250907
Lab Sample ID: 500-274546-9
Date Collected: 09/07/25 08:45
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-069_20250907
Lab Sample ID: 500-274546-9
Date Collected: 09/07/25 08:45
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 20:32

Client Sample ID: SS-069_20250907

Lab Sample ID: 500-274546-9

Date Collected: 09/07/25 08:45
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:38

Client Sample ID: SS-067_20250907

Lab Sample ID: 500-274546-10

Date Collected: 09/07/25 09:10
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-067_20250907

Lab Sample ID: 500-274546-10

Date Collected: 09/07/25 09:10
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 20:36
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:39

Client Sample ID: DUP-03_20250907

Lab Sample ID: 500-274546-11

Date Collected: 09/07/25 00:00
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: DUP-03_20250907

Lab Sample ID: 500-274546-11

Date Collected: 09/07/25 00:00
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 20:49
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:47

Client Sample ID: SS-058_20250907

Lab Sample ID: 500-274546-12

Date Collected: 09/07/25 10:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-058_20250907 — **Lab Sample ID: 500-274546-12**
Date Collected: 09/07/25 10:30 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 88.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 20:54
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:49

Client Sample ID: SS-066_20250907 — **Lab Sample ID: 500-274546-13**
Date Collected: 09/07/25 09:20 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-066_20250907 — **Lab Sample ID: 500-274546-13**
Date Collected: 09/07/25 09:20 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 20:58
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:51

Client Sample ID: SS-070_20250907 — **Lab Sample ID: 500-274546-14**
Date Collected: 09/07/25 08:25 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-070_20250907 — **Lab Sample ID: 500-274546-14**
Date Collected: 09/07/25 08:25 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 88.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 21:03
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:52

Client Sample ID: SS-059_20250907 — **Lab Sample ID: 500-274546-15**
Date Collected: 09/07/25 10:10 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-059_20250907

Lab Sample ID: 500-274546-15

Date Collected: 09/07/25 10:10

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 21:07
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 07:59

Client Sample ID: SS-034_20250907

Lab Sample ID: 500-274546-16

Date Collected: 09/07/25 17:50

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-034_20250907

Lab Sample ID: 500-274546-16

Date Collected: 09/07/25 17:50

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 21:11
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:01

Client Sample ID: SS-052_20250907

Lab Sample ID: 500-274546-17

Date Collected: 09/07/25 16:30

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-052_20250907

Lab Sample ID: 500-274546-17

Date Collected: 09/07/25 16:30

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 21:16
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:02

Client Sample ID: SS-042_20250907

Lab Sample ID: 500-274546-18

Date Collected: 09/07/25 16:45

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-042_20250907

Lab Sample ID: 500-274546-18

Date Collected: 09/07/25 16:45

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 21:20
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:04

Client Sample ID: SS-062_20250907

Lab Sample ID: 500-274546-19

Date Collected: 09/07/25 14:00

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833909	RB	EET CHI	09/15/25 08:55

Client Sample ID: SS-062_20250907

Lab Sample ID: 500-274546-19

Date Collected: 09/07/25 14:00

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 75.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 21:25
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:06

Client Sample ID: DUP-04_20250907

Lab Sample ID: 500-274546-20

Date Collected: 09/07/25 00:00

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: DUP-04_20250907

Lab Sample ID: 500-274546-20

Date Collected: 09/07/25 00:00

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 21:29
Total/NA	Prep	7471B			834658	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:07

Client Sample ID: SS-056_20250907

Lab Sample ID: 500-274546-21

Date Collected: 09/07/25 12:30

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Client Sample ID: SS-056_20250907

Lab Sample ID: 500-274546-21

Date Collected: 09/07/25 12:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 91.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 21:42
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		5	835174	S1Z	EET CHI	09/22/25 19:06
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 09:13

Client Sample ID: SS-064_20250907

Lab Sample ID: 500-274546-22

Date Collected: 09/07/25 12:45
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-064_20250907

Lab Sample ID: 500-274546-22

Date Collected: 09/07/25 12:45
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 49.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834421	MS	EET CHI	09/17/25 15:07 - 09/17/25 20:07 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 21:47
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 09:16

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274546-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-26
Georgia (DW)	State	939	05-31-26
Illinois	NELAP	100201	05-31-26
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-26
Kentucky (WW)	State	KY90023	12-31-25
Louisiana (All)	NELAP	02046	06-30-26
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	12-31-25
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	12-31-25
South Carolina	State	77001003	05-31-26
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	399172840	08-31-26
Wyoming	State	8TMS-Q	05-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708 534 5200 Fax 708-534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: Logan Carpenter, Justin Brown	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-140483 53677 4
Client Contact: Amanda Zeidler	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin:	Page: Page 4 of 13
Company: White Pine Copper LLC	PWSID:			Job #: 500-274546
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days): Standard			
State Zip: MI 49971	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine Copper Soils	Project #: 50025458			
Site:	SSOW#:			

500-274546 COC

Analysis Requested

Preservation Codes: N None; D HNO3

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7471B	6020B, 7470A	Total Number of containers	Special Instructions/Note
			Preservation Code				N	D		
1 SS-083_20250906	9/6/25	16:00	G	Solid	N	N	✓			
2 SS-082_20250906	9/6/25	16:20	G	Solid	N	N	✓			
3 DUP-02_20250906	9/6/25		G	Solid	N	N	✓			
4 SS-081_20250906	9/6/25	16:45	G	Solid	N	N	✓			
5 SS-080_20250906	9/6/25	17:05	G	Solid	N	N	✓			
6 SS-068_20250906	9/6/25	17:40	G	Solid	N	N	✓			
7 SS-054_20250907	9/7/25	10:55	G	Solid	N	N	✓			
8 SS-060_20250907	9/7/25	09:45	G	Solid	N	N	✓			
9 SS-069_20250907	9/7/25	08:45	G	Solid	N	N	✓			
10 SS-070_20250907	9/7/25	09:10	G	Solid	N	N	✓			
11 DUP-03_20250907	9/7/25		G	Solid	N	N	✓			

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☑ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Justin Brown	9/11/25 1200	FOTA		9/12/25 0900	EETO
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		5B-3.5C, B2-2.4C, 5B-3.5C, 6B-3.8C, 5.9-3.7

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708-534-5200 Fax 708 534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: Logan Carpenter, Justin Brown	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500 140483 53677 5
Client Contact: Amanda Zeidler	Phone:	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin:	Page: Page 5 of 13
Company: White Pine Copper LLC	PWSID:	Analysis Requested		Job #: 500-274546
Address: 35362 Mall Circle Drive	Due Date Requested:			Preservation Codes: N None; D HNO3
City: White Pine	TAT Requested (days):			
State Zip: MI 49971	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine ~~Copper~~ Soils	Project #: 50025458			
Site:	SSOW#:			Other

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=waste/oil BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7471B	6020B, 7470A	Total Number of containers	Special Instructions/Note
			Preservation Code				N	D		
12 SS-058_20250907	9/7/25	10:30	G	Solid	N	N	✓			
13 SS-066_20250907	9/7/25	09:20	G	Solid	N	N	✓			
14 SS-070_20250907	9/7/25	08:25	G	Solid	N	N	✓			
15 SS-059_20250907	9/7/25	10:10	G	Solid	N	N	✓			
16 SS-034_20250907	9/7/25	17:50	G	Solid	N	N	✓			
17 SS-052_20250907	9/7/25	16:30	G	Solid	N	N	✓			
18 SS-042_20250907	9/7/25	16:45	G	Solid	N	N	✓			
19 SS-062_20250907	9/7/25	14:00	G	Solid	N	N	✓			
20 DUP-04_20250907	9/7/25		G	Solid	N	N	✓			
21 SS-056_20250907	9/7/25	12:30	G	Solid	N	N	✓			
22 SS-064_20250907	9/7/25	12:15	G	Solid	N	N	✓			

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Justin Brown	9/11/25 1200	Both	[signature]	9/12/25 0900	EET
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-274546-1

Login Number: 274546

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6,4.0,5.0,5.8,5.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

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JOB DESCRIPTION

White Pine Copper Soils

JOB NUMBER

500-274547-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-274547-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/12/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 4.0°C, 5.0°C, 5.6°C, 5.7°C and 5.8°C.

Receipt Exceptions
The following sample(s) was listed on the Chain of Custody (COC); however, no sample(s) was received: SS-012_20250908

Received bottle for sample 6 with ID of SS-065_20250907 and time of 1440, logged per COC.

Metals
Method 6010D: The method blank for preparation batch 500-834323 and analytical batch 500-834731 contained Cadmium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010D: The method blank for preparation batch 500-834425 and analytical batch 500-834931 contained Barium and Manganese above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-057_20250907 — Lab Sample ID: 500-274547-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.0		0.99	0.34	mg/Kg	1	☼	6010D	Total/NA
Barium	51	B	0.99	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.13	J	0.20	0.036	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		0.99	0.49	mg/Kg	1	☼	6010D	Total/NA
Copper	80	F1 F2	0.99	0.28	mg/Kg	1	☼	6010D	Total/NA
Lead	5.2		0.50	0.23	mg/Kg	1	☼	6010D	Total/NA
Manganese	160	B F1	0.99	0.14	mg/Kg	1	☼	6010D	Total/NA
Nickel	15		0.99	0.29	mg/Kg	1	☼	6010D	Total/NA
Silver	0.64		0.50	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	31		2.0	0.87	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-063_20250907 — Lab Sample ID: 500-274547-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.7		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	25	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.12	J	0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.6		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Copper	46		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	5.4		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	48	B	1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.6		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Silver	0.22	J	0.54	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	16		2.2	0.96	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.033		0.020	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-041_20250907 — Lab Sample ID: 500-274547-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		1.3	0.44	mg/Kg	1	☼	6010D	Total/NA
Barium	150	B	1.3	0.15	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.63		0.26	0.047	mg/Kg	1	☼	6010D	Total/NA
Chromium	37		1.3	0.64	mg/Kg	1	☼	6010D	Total/NA
Copper	1000		1.3	0.36	mg/Kg	1	☼	6010D	Total/NA
Lead	18		0.65	0.30	mg/Kg	1	☼	6010D	Total/NA
Manganese	440	B	1.3	0.19	mg/Kg	1	☼	6010D	Total/NA
Nickel	40		1.3	0.38	mg/Kg	1	☼	6010D	Total/NA
Silver	2.4		0.65	0.17	mg/Kg	1	☼	6010D	Total/NA
Zinc	200		2.6	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.036		0.020	0.0084	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-051_20250907 — Lab Sample ID: 500-274547-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.0		1.0	0.34	mg/Kg	1	☼	6010D	Total/NA
Barium	63	B	1.0	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.11	J	0.20	0.036	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.0	0.49	mg/Kg	1	☼	6010D	Total/NA
Copper	91		1.0	0.28	mg/Kg	1	☼	6010D	Total/NA
Lead	5.6		0.50	0.23	mg/Kg	1	☼	6010D	Total/NA
Manganese	200	B	1.0	0.14	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: SS-051_20250907 (Continued) — Lab Sample ID: 500-274547-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	0.96		0.50	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	33		2.0	0.88	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-053_20250907 — Lab Sample ID: 500-274547-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.0	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	66	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.10	J	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.0	0.52	mg/Kg	1	☼	6010D	Total/NA
Copper	13		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	5.3		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	230	B	1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.0	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	1.0		0.52	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	33		2.1	0.92	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-056_20250907 — Lab Sample ID: 500-274547-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Barium	27	B	1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.47		0.22	0.040	mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.1	0.56	mg/Kg	1	☼	6010D	Total/NA
Copper	360		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Lead	7.0		0.56	0.26	mg/Kg	1	☼	6010D	Total/NA
Manganese	120	B	1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	11		1.1	0.33	mg/Kg	1	☼	6010D	Total/NA
Silver	0.64		0.56	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	29		2.2	0.99	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.027		0.018	0.0075	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-061_20250907 — Lab Sample ID: 500-274547-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.2		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	63	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.17	J	0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	18		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Copper	36		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	5.7		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	260	B	1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	19		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	1.1		0.54	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	49		2.2	0.95	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.010	J	0.018	0.0076	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-001_20250908 — Lab Sample ID: 500-274547-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		1.2	0.41	mg/Kg	1	☼	6010D	Total/NA
Barium	54	B	1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.54		0.24	0.043	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-001_20250908 (Continued)

Lab Sample ID: 500-274547-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	12		1.2	0.59	mg/Kg	1	☼	6010D	Total/NA
Copper	3900		6.0	1.7	mg/Kg	5	☼	6010D	Total/NA
Lead	9.0		3.0	1.4	mg/Kg	5	☼	6010D	Total/NA
Manganese	390	B	1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	12		1.2	0.35	mg/Kg	1	☼	6010D	Total/NA
Silver	2.6		0.60	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	41		12	5.3	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.27		0.019	0.0077	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-016_20250908

Lab Sample ID: 500-274547-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4		0.97	0.33	mg/Kg	1	☼	6010D	Total/NA
Barium	72	B	0.97	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.19		0.19	0.035	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		0.97	0.48	mg/Kg	1	☼	6010D	Total/NA
Copper	110		0.97	0.27	mg/Kg	1	☼	6010D	Total/NA
Lead	5.0		0.48	0.22	mg/Kg	1	☼	6010D	Total/NA
Manganese	210	B	0.97	0.14	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		0.97	0.28	mg/Kg	1	☼	6010D	Total/NA
Silver	0.88		0.48	0.12	mg/Kg	1	☼	6010D	Total/NA
Zinc	33		1.9	0.85	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-021_20250908

Lab Sample ID: 500-274547-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Barium	32	B	1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.7		0.22	0.040	mg/Kg	1	☼	6010D	Total/NA
Chromium	11		1.1	0.55	mg/Kg	1	☼	6010D	Total/NA
Copper	2000		5.5	1.5	mg/Kg	5	☼	6010D	Total/NA
Lead	3.4		2.8	1.3	mg/Kg	5	☼	6010D	Total/NA
Manganese	96	B	1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	9.3		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Silver	1.5		0.55	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	18		11	4.8	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.026		0.020	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-044_20250908

Lab Sample ID: 500-274547-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.0		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	64	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.13	J	0.20	0.037	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.0	0.51	mg/Kg	1	☼	6010D	Total/NA
Copper	35		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	5.3		0.51	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	200	B	1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	0.90		0.51	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	32		2.0	0.90	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-043_20250908 — Lab Sample ID: 500-274547-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Barium	78	B	1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.11	J	0.22	0.040	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.1	0.55	mg/Kg	1	☼	6010D	Total/NA
Copper	25		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Lead	5.2		0.55	0.26	mg/Kg	1	☼	6010D	Total/NA
Manganese	300	B	1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	20		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Silver	1.2		0.55	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	37		2.2	0.97	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-048_20250908 — Lab Sample ID: 500-274547-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.8		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	22	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.18	J	0.21	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	11		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	96		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	8.0		0.54	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	130	B	1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	11		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.73		0.54	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	32		2.1	0.94	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.019		0.018	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-047_20250908 — Lab Sample ID: 500-274547-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	45	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.41		0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	18		1.1	0.52	mg/Kg	1	☼	6010D	Total/NA
Copper	220		1.1	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	12		0.53	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	330	B	1.1	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	13		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	1.5		0.53	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	62		2.1	0.92	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.016	J	0.018	0.0076	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-049_20250908 — Lab Sample ID: 500-274547-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.0		1.2	0.41	mg/Kg	1	☼	6010D	Total/NA
Barium	46	B	1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.28		0.24	0.044	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.0		1.2	0.60	mg/Kg	1	☼	6010D	Total/NA
Copper	80		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Lead	21		0.61	0.28	mg/Kg	1	☼	6010D	Total/NA
Manganese	1700	B	1.2	0.18	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.0		1.2	0.35	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client Sample ID: SS-049_20250908 (Continued) — Lab Sample ID: 500-274547-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	4.1		0.61	0.16	mg/Kg	1	☼	6010D	Total/NA
Zinc	32		2.4	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.017	J	0.018	0.0076	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-046_20250908 — Lab Sample ID: 500-274547-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		2.6	0.89	mg/Kg	1	☼	6010D	Total/NA
Barium	90	B	2.6	0.30	mg/Kg	1	☼	6010D	Total/NA
Cadmium	15		0.52	0.094	mg/Kg	1	☼	6010D	Total/NA
Chromium	11		2.6	1.3	mg/Kg	1	☼	6010D	Total/NA
Copper	13000		26	7.3	mg/Kg	10	☼	6010D	Total/NA
Lead	61		13	6.0	mg/Kg	10	☼	6010D	Total/NA
Manganese	860	B	2.6	0.38	mg/Kg	1	☼	6010D	Total/NA
Nickel	14		2.6	0.76	mg/Kg	1	☼	6010D	Total/NA
Selenium	3.8		2.6	1.5	mg/Kg	1	☼	6010D	Total/NA
Silver	5.9		1.3	0.34	mg/Kg	1	☼	6010D	Total/NA
Zinc	120		52	23	mg/Kg	10	☼	6010D	Total/NA
Mercury	0.27		0.042	0.017	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-045_20250908 — Lab Sample ID: 500-274547-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		2.7	0.93	mg/Kg	1	☼	6010D	Total/NA
Barium	120	B	2.7	0.31	mg/Kg	1	☼	6010D	Total/NA
Cadmium	5.5		0.54	0.098	mg/Kg	1	☼	6010D	Total/NA
Chromium	12		2.7	1.3	mg/Kg	1	☼	6010D	Total/NA
Copper	8200		14	3.8	mg/Kg	5	☼	6010D	Total/NA
Lead	50		6.8	3.1	mg/Kg	5	☼	6010D	Total/NA
Manganese	3600	B	2.7	0.39	mg/Kg	1	☼	6010D	Total/NA
Nickel	10		2.7	0.79	mg/Kg	1	☼	6010D	Total/NA
Selenium	3.5		2.7	1.6	mg/Kg	1	☼	6010D	Total/NA
Silver	11		1.4	0.35	mg/Kg	1	☼	6010D	Total/NA
Zinc	53		27	12	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.16		0.045	0.019	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-038_20250908 — Lab Sample ID: 500-274547-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.3	0.44	mg/Kg	1	☼	6010D	Total/NA
Barium	57	B	1.3	0.15	mg/Kg	1	☼	6010D	Total/NA
Cadmium	2.8		0.26	0.046	mg/Kg	1	☼	6010D	Total/NA
Chromium	8.1		1.3	0.63	mg/Kg	1	☼	6010D	Total/NA
Copper	5900		13	3.6	mg/Kg	10	☼	6010D	Total/NA
Lead	19		6.4	3.0	mg/Kg	10	☼	6010D	Total/NA
Manganese	450	B	1.3	0.19	mg/Kg	1	☼	6010D	Total/NA
Nickel	7.6		1.3	0.37	mg/Kg	1	☼	6010D	Total/NA
Silver	2.8		0.64	0.16	mg/Kg	1	☼	6010D	Total/NA
Zinc	68		26	11	mg/Kg	10	☼	6010D	Total/NA
Mercury	0.027		0.021	0.0088	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-037_20250908 — Lab Sample ID: 500-274547-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.9		1.6	0.55	mg/Kg	1	☼	6010D	Total/NA
Barium	120	B	1.6	0.18	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.7		0.32	0.058	mg/Kg	1	☼	6010D	Total/NA
Chromium	26		1.6	0.80	mg/Kg	1	☼	6010D	Total/NA
Copper	2100		8.0	2.3	mg/Kg	5	☼	6010D	Total/NA
Lead	23		4.0	1.9	mg/Kg	5	☼	6010D	Total/NA
Manganese	320	B	1.6	0.23	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.6	0.47	mg/Kg	1	☼	6010D	Total/NA
Selenium	1.5	J	1.6	0.95	mg/Kg	1	☼	6010D	Total/NA
Silver	3.0		0.80	0.21	mg/Kg	1	☼	6010D	Total/NA
Zinc	110		16	7.1	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.11		0.027	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-036_20250908 — Lab Sample ID: 500-274547-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.2		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	36	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.84		0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	11		1.1	0.52	mg/Kg	1	☼	6010D	Total/NA
Copper	960		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	8.9		0.53	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	92	B	1.1	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	8.3		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.75		0.53	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	33		2.1	0.93	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.011	J	0.018	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-028_20250908 — Lab Sample ID: 500-274547-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6		1.2	0.41	mg/Kg	1	☼	6010D	Total/NA
Barium	77		1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.089	J B	0.24	0.043	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.2	0.59	mg/Kg	1	☼	6010D	Total/NA
Copper	20		1.2	0.33	mg/Kg	1	☼	6010D	Total/NA
Lead	5.8		0.60	0.28	mg/Kg	1	☼	6010D	Total/NA
Manganese	190		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	19		1.2	0.35	mg/Kg	1	☼	6010D	Total/NA
Zinc	28		2.4	1.0	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: White Pine Copper LLC
Job ID: 500-274547-1
Project/Site: White Pine Copper Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-274547-1	SS-057_20250907	Solid	09/07/25 15:50	09/12/25 09:00	Michigan
500-274547-2	SS-063_20250907	Solid	09/07/25 12:02	09/12/25 09:00	Michigan
500-274547-3	SS-041_20250907	Solid	09/07/25 17:30	09/12/25 09:00	Michigan
500-274547-4	SS-051_20250907	Solid	09/07/25 15:05	09/12/25 09:00	Michigan
500-274547-5	SS-053_20250907	Solid	09/07/25 12:40	09/12/25 09:00	Michigan
500-274547-6	SS-056_20250907	Solid	09/07/25 14:40	09/12/25 09:00	Michigan
500-274547-7	SS-061_20250907	Solid	09/07/25 11:45	09/12/25 09:00	Michigan
500-274547-8	SS-001_20250908	Solid	09/08/25 08:45	09/12/25 09:00	Michigan
500-274547-9	SS-016_20250908	Solid	09/08/25 11:15	09/12/25 09:00	Michigan
500-274547-10	SS-021_20250908	Solid	09/08/25 10:50	09/12/25 09:00	Michigan
500-274547-11	SS-044_20250908	Solid	09/08/25 13:37	09/12/25 09:00	Michigan
500-274547-12	SS-043_20250908	Solid	09/08/25 13:45	09/12/25 09:00	Michigan
500-274547-13	SS-048_20250908	Solid	09/08/25 14:05	09/12/25 09:00	Michigan
500-274547-14	SS-047_20250908	Solid	09/08/25 14:15	09/12/25 09:00	Michigan
500-274547-15	SS-049_20250908	Solid	09/08/25 14:30	09/12/25 09:00	Michigan
500-274547-16	SS-046_20250908	Solid	09/08/25 14:50	09/12/25 09:00	Michigan
500-274547-17	SS-045_20250908	Solid	09/08/25 15:05	09/12/25 09:00	Michigan
500-274547-18	SS-038_20250908	Solid	09/08/25 15:20	09/12/25 09:00	Michigan
500-274547-19	SS-037_20250908	Solid	09/08/25 15:40	09/12/25 09:00	Michigan
500-274547-20	SS-036_20250908	Solid	09/08/25 16:10	09/12/25 09:00	Michigan
500-274547-21	SS-028_20250908	Solid	09/08/25 16:50	09/12/25 09:00	Michigan

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-057_20250907
Date Collected: 09/07/25 15:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-1
Matrix: Solid
Percent Solids: 84.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		0.99	0.34	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1
Barium	51	B	0.99	0.11	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1
Cadmium	0.13	J	0.20	0.036	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1
Chromium	15		0.99	0.49	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1
Copper	80	F1 F2	0.99	0.28	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1
Lead	5.2		0.50	0.23	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1
Manganese	160	B F1	0.99	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1
Nickel	15		0.99	0.29	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1
Selenium	<0.58		0.99	0.58	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1
Silver	0.64		0.50	0.13	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1
Zinc	31		2.0	0.87	mg/Kg	☼	09/17/25 15:12	09/19/25 22:01	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0071		0.017	0.0071	mg/Kg	☼	09/19/25 12:45	09/22/25 08:13	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-063_20250907
Date Collected: 09/07/25 12:02
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-2
Matrix: Solid
Percent Solids: 81.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.7		1.1	0.37	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1
Barium	25	B	1.1	0.12	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1
Cadmium	0.12	J	0.22	0.039	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1
Chromium	6.6		1.1	0.54	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1
Copper	46		1.1	0.30	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1
Lead	5.4		0.54	0.25	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1
Manganese	48	B	1.1	0.16	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1
Nickel	4.6		1.1	0.32	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1
Silver	0.22	J	0.54	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1
Zinc	16		2.2	0.96	mg/Kg	☼	09/17/25 15:12	09/19/25 22:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.033		0.020	0.0082	mg/Kg	☼	09/19/25 12:45	09/22/25 08:15	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-041_20250907
Date Collected: 09/07/25 17:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-3
Matrix: Solid
Percent Solids: 72.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.3	0.44	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1
Barium	150	B	1.3	0.15	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1
Cadmium	0.63		0.26	0.047	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1
Chromium	37		1.3	0.64	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1
Copper	1000		1.3	0.36	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1
Lead	18		0.65	0.30	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1
Manganese	440	B	1.3	0.19	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1
Nickel	40		1.3	0.38	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1
Selenium	<0.76		1.3	0.76	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1
Silver	2.4		0.65	0.17	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1
Zinc	200		2.6	1.1	mg/Kg	☼	09/17/25 15:12	09/19/25 22:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.036		0.020	0.0084	mg/Kg	☼	09/19/25 12:45	09/22/25 08:23	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-051_20250907
Date Collected: 09/07/25 15:05
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-4
Matrix: Solid
Percent Solids: 86.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		1.0	0.34	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1
Barium	63	B	1.0	0.11	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1
Cadmium	0.11	J	0.20	0.036	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1
Chromium	16		1.0	0.49	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1
Copper	91		1.0	0.28	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1
Lead	5.6		0.50	0.23	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1
Manganese	200	B	1.0	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1
Nickel	17		1.0	0.29	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1
Silver	0.96		0.50	0.13	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1
Zinc	33		2.0	0.88	mg/Kg	☼	09/17/25 15:12	09/19/25 22:41	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0075		0.018	0.0075	mg/Kg	☼	09/19/25 12:45	09/22/25 08:24	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-053_20250907
Date Collected: 09/07/25 12:40
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-5
Matrix: Solid
Percent Solids: 87.2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.8**		1.0	0.36	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1
Barium	**66**	**B**	1.0	0.12	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1
Cadmium	**0.10**	**J**	0.21	0.038	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1
Chromium	**17**		1.0	0.52	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1
Copper	**13**		1.0	0.29	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1
Lead	**5.3**		0.52	0.24	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1
Manganese	**230**	**B**	1.0	0.15	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1
Nickel	**17**		1.0	0.31	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1
Selenium	<0.62		1.0	0.62	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1
Silver	**1.0**		0.52	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1
Zinc	**33**		2.1	0.92	mg/Kg	☼	09/17/25 15:12	09/19/25 22:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0073		0.018	0.0073	mg/Kg	☼	09/19/25 12:45	09/22/25 08:26	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-056_20250907
Date Collected: 09/07/25 14:40
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-6
Matrix: Solid
Percent Solids: 83.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.1	0.38	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1
Barium	27	B	1.1	0.13	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1
Cadmium	0.47		0.22	0.040	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1
Chromium	13		1.1	0.56	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1
Copper	360		1.1	0.31	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1
Lead	7.0		0.56	0.26	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1
Manganese	120	B	1.1	0.16	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1
Nickel	11		1.1	0.33	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1
Selenium	<0.66		1.1	0.66	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1
Silver	0.64		0.56	0.15	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1
Zinc	29		2.2	0.99	mg/Kg	☼	09/17/25 15:12	09/19/25 22:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.018	0.0075	mg/Kg	☼	09/19/25 12:45	09/22/25 08:28	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-061_20250907
Date Collected: 09/07/25 11:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-7
Matrix: Solid
Percent Solids: 86.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		1.1	0.37	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1
Barium	63	B	1.1	0.12	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1
Cadmium	0.17	J	0.22	0.039	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1
Chromium	18		1.1	0.54	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1
Copper	36		1.1	0.30	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1
Lead	5.7		0.54	0.25	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1
Manganese	260	B	1.1	0.16	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1
Nickel	19		1.1	0.31	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1
Silver	1.1		0.54	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1
Zinc	49		2.2	0.95	mg/Kg	☼	09/17/25 15:12	09/19/25 22:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.010	J	0.018	0.0076	mg/Kg	☼	09/19/25 12:45	09/22/25 08:29	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-001_20250908
Date Collected: 09/08/25 08:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-8
Matrix: Solid
Percent Solids: 83.4

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		1.2	0.41	mg/Kg	☼	09/17/25 15:12	09/19/25 22:58	1
Barium	54	B	1.2	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 22:58	1
Cadmium	0.54		0.24	0.043	mg/Kg	☼	09/17/25 15:12	09/19/25 22:58	1
Chromium	12		1.2	0.59	mg/Kg	☼	09/17/25 15:12	09/19/25 22:58	1
Copper	3900		6.0	1.7	mg/Kg	☼	09/17/25 15:12	09/22/25 18:27	5
Lead	9.0		3.0	1.4	mg/Kg	☼	09/17/25 15:12	09/22/25 18:27	5
Manganese	390	B	1.2	0.17	mg/Kg	☼	09/17/25 15:12	09/19/25 22:58	1
Nickel	12		1.2	0.35	mg/Kg	☼	09/17/25 15:12	09/19/25 22:58	1
Selenium	<0.70		1.2	0.70	mg/Kg	☼	09/17/25 15:12	09/19/25 22:58	1
Silver	2.6		0.60	0.15	mg/Kg	☼	09/17/25 15:12	09/19/25 22:58	1
Zinc	41		12	5.3	mg/Kg	☼	09/17/25 15:12	09/22/25 18:27	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.019	0.0077	mg/Kg	☼	09/19/25 12:45	09/22/25 08:31	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-016_20250908
Date Collected: 09/08/25 11:15
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-9
Matrix: Solid
Percent Solids: 89.2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.4**		0.97	0.33	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1
Barium	**72**	**B**	0.97	0.11	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1
Cadmium	**0.19**		0.19	0.035	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1
Chromium	**16**		0.97	0.48	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1
Copper	**110**		0.97	0.27	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1
Lead	**5.0**		0.48	0.22	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1
Manganese	**210**	**B**	0.97	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1
Nickel	**16**		0.97	0.28	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1
Selenium	<0.57		0.97	0.57	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1
Silver	**0.88**		0.48	0.12	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1
Zinc	**33**		1.9	0.85	mg/Kg	☼	09/17/25 15:12	09/19/25 23:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg	☼	09/19/25 12:45	09/22/25 08:33	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-021_20250908
Date Collected: 09/08/25 10:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-10
Matrix: Solid
Percent Solids: 77.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		1.1	0.38	mg/Kg	☼	09/17/25 15:12	09/19/25 23:07	1
Barium	32	B	1.1	0.13	mg/Kg	☼	09/17/25 15:12	09/19/25 23:07	1
Cadmium	1.7		0.22	0.040	mg/Kg	☼	09/17/25 15:12	09/19/25 23:07	1
Chromium	11		1.1	0.55	mg/Kg	☼	09/17/25 15:12	09/19/25 23:07	1
Copper	2000		5.5	1.5	mg/Kg	☼	09/17/25 15:12	09/22/25 18:31	5
Lead	3.4		2.8	1.3	mg/Kg	☼	09/17/25 15:12	09/22/25 18:31	5
Manganese	96	B	1.1	0.16	mg/Kg	☼	09/17/25 15:12	09/19/25 23:07	1
Nickel	9.3		1.1	0.32	mg/Kg	☼	09/17/25 15:12	09/19/25 23:07	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	09/17/25 15:12	09/19/25 23:07	1
Silver	1.5		0.55	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 23:07	1
Zinc	18		11	4.8	mg/Kg	☼	09/17/25 15:12	09/22/25 18:31	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.026		0.020	0.0081	mg/Kg	☼	09/19/25 12:45	09/22/25 08:35	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-044_20250908
Date Collected: 09/08/25 13:37
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-11
Matrix: Solid
Percent Solids: 86.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		1.0	0.35	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1
Barium	64	B	1.0	0.12	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1
Cadmium	0.13	J	0.20	0.037	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1
Chromium	16		1.0	0.51	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1
Copper	35		1.0	0.29	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1
Lead	5.3		0.51	0.24	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1
Manganese	200	B	1.0	0.15	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1
Nickel	16		1.0	0.30	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1
Silver	0.90		0.51	0.13	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1
Zinc	32		2.0	0.90	mg/Kg	☼	09/17/25 15:12	09/19/25 23:12	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0075		0.018	0.0075	mg/Kg	☼	09/19/25 12:45	09/22/25 08:37	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-043_20250908
Date Collected: 09/08/25 13:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-12
Matrix: Solid
Percent Solids: 89.4

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		1.1	0.38	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1
Barium	78	B	1.1	0.13	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1
Cadmium	0.11	J	0.22	0.040	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1
Chromium	17		1.1	0.55	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1
Copper	25		1.1	0.31	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1
Lead	5.2		0.55	0.26	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1
Manganese	300	B	1.1	0.16	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1
Nickel	20		1.1	0.32	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1
Silver	1.2		0.55	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1
Zinc	37		2.2	0.97	mg/Kg	☼	09/17/25 15:12	09/19/25 23:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0074		0.018	0.0074	mg/Kg	☼	09/19/25 12:45	09/22/25 08:48	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-048_20250908
Date Collected: 09/08/25 14:05
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-13
Matrix: Solid
Percent Solids: 85.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8		1.1	0.37	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1
Barium	22	B	1.1	0.12	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1
Cadmium	0.18	J	0.21	0.039	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1
Chromium	11		1.1	0.53	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1
Copper	96		1.1	0.30	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1
Lead	8.0		0.54	0.25	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1
Manganese	130	B	1.1	0.16	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1
Nickel	11		1.1	0.31	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1
Silver	0.73		0.54	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1
Zinc	32		2.1	0.94	mg/Kg	☼	09/17/25 15:12	09/19/25 23:30	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0074	mg/Kg	☼	09/19/25 12:45	09/22/25 08:50	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-047_20250908
Date Collected: 09/08/25 14:15
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-14
Matrix: Solid
Percent Solids: 84.4

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		1.1	0.36	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1
Barium	45	B	1.1	0.12	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1
Cadmium	0.41		0.21	0.038	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1
Chromium	18		1.1	0.52	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1
Copper	220		1.1	0.29	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1
Lead	12		0.53	0.24	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1
Manganese	330	B	1.1	0.15	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1
Nickel	13		1.1	0.31	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1
Silver	1.5		0.53	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1
Zinc	62		2.1	0.92	mg/Kg	☼	09/17/25 15:12	09/19/25 23:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0076	mg/Kg	☼	09/19/25 12:45	09/22/25 08:52	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-049_20250908
Date Collected: 09/08/25 14:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-15
Matrix: Solid
Percent Solids: 79.2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		1.2	0.41	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1
Barium	46	B	1.2	0.14	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1
Cadmium	0.28		0.24	0.044	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1
Chromium	8.0		1.2	0.60	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1
Copper	80		1.2	0.34	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1
Lead	21		0.61	0.28	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1
Manganese	1700	B	1.2	0.18	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1
Nickel	4.0		1.2	0.35	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1
Selenium	<0.71		1.2	0.71	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1
Silver	4.1		0.61	0.16	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1
Zinc	32		2.4	1.1	mg/Kg	☼	09/17/25 15:12	09/19/25 23:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0076	mg/Kg	☼	09/19/25 12:45	09/22/25 08:54	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-046_20250908
Date Collected: 09/08/25 14:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-16
Matrix: Solid
Percent Solids: 37.1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		2.6	0.89	mg/Kg	☼	09/17/25 15:12	09/19/25 23:43	1
Barium	90	B	2.6	0.30	mg/Kg	☼	09/17/25 15:12	09/19/25 23:43	1
Cadmium	15		0.52	0.094	mg/Kg	☼	09/17/25 15:12	09/19/25 23:43	1
Chromium	11		2.6	1.3	mg/Kg	☼	09/17/25 15:12	09/19/25 23:43	1
Copper	13000		26	7.3	mg/Kg	☼	09/17/25 15:12	09/22/25 18:35	10
Lead	61		13	6.0	mg/Kg	☼	09/17/25 15:12	09/22/25 18:35	10
Manganese	860	B	2.6	0.38	mg/Kg	☼	09/17/25 15:12	09/19/25 23:43	1
Nickel	14		2.6	0.76	mg/Kg	☼	09/17/25 15:12	09/19/25 23:43	1
Selenium	3.8		2.6	1.5	mg/Kg	☼	09/17/25 15:12	09/19/25 23:43	1
Silver	5.9		1.3	0.34	mg/Kg	☼	09/17/25 15:12	09/19/25 23:43	1
Zinc	120		52	23	mg/Kg	☼	09/17/25 15:12	09/22/25 18:35	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.042	0.017	mg/Kg	☼	09/19/25 12:45	09/22/25 08:56	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-045_20250908
Date Collected: 09/08/25 15:05
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-17
Matrix: Solid
Percent Solids: 34.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		2.7	0.93	mg/Kg	☼	09/17/25 15:12	09/19/25 23:47	1
Barium	120	B	2.7	0.31	mg/Kg	☼	09/17/25 15:12	09/19/25 23:47	1
Cadmium	5.5		0.54	0.098	mg/Kg	☼	09/17/25 15:12	09/19/25 23:47	1
Chromium	12		2.7	1.3	mg/Kg	☼	09/17/25 15:12	09/19/25 23:47	1
Copper	8200		14	3.8	mg/Kg	☼	09/17/25 15:12	09/22/25 18:48	5
Lead	50		6.8	3.1	mg/Kg	☼	09/17/25 15:12	09/22/25 18:48	5
Manganese	3600	B	2.7	0.39	mg/Kg	☼	09/17/25 15:12	09/19/25 23:47	1
Nickel	10		2.7	0.79	mg/Kg	☼	09/17/25 15:12	09/19/25 23:47	1
Selenium	3.5		2.7	1.6	mg/Kg	☼	09/17/25 15:12	09/19/25 23:47	1
Silver	11		1.4	0.35	mg/Kg	☼	09/17/25 15:12	09/19/25 23:47	1
Zinc	53		27	12	mg/Kg	☼	09/17/25 15:12	09/22/25 18:48	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.045	0.019	mg/Kg	☼	09/19/25 12:45	09/22/25 08:58	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-038_20250908
Date Collected: 09/08/25 15:20
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-18
Matrix: Solid
Percent Solids: 68.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.3	0.44	mg/Kg	☼	09/17/25 15:12	09/19/25 23:52	1
Barium	57	B	1.3	0.15	mg/Kg	☼	09/17/25 15:12	09/19/25 23:52	1
Cadmium	2.8		0.26	0.046	mg/Kg	☼	09/17/25 15:12	09/19/25 23:52	1
Chromium	8.1		1.3	0.63	mg/Kg	☼	09/17/25 15:12	09/19/25 23:52	1
Copper	5900		13	3.6	mg/Kg	☼	09/17/25 15:12	09/22/25 18:53	10
Lead	19		6.4	3.0	mg/Kg	☼	09/17/25 15:12	09/22/25 18:53	10
Manganese	450	B	1.3	0.19	mg/Kg	☼	09/17/25 15:12	09/19/25 23:52	1
Nickel	7.6		1.3	0.37	mg/Kg	☼	09/17/25 15:12	09/19/25 23:52	1
Selenium	<0.75		1.3	0.75	mg/Kg	☼	09/17/25 15:12	09/19/25 23:52	1
Silver	2.8		0.64	0.16	mg/Kg	☼	09/17/25 15:12	09/19/25 23:52	1
Zinc	68		26	11	mg/Kg	☼	09/17/25 15:12	09/22/25 18:53	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.021	0.0088	mg/Kg	☼	09/19/25 12:45	09/22/25 09:00	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-037_20250908
Date Collected: 09/08/25 15:40
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-19
Matrix: Solid
Percent Solids: 54.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9		1.6	0.55	mg/Kg	☼	09/17/25 15:12	09/19/25 23:56	1
Barium	120	B	1.6	0.18	mg/Kg	☼	09/17/25 15:12	09/19/25 23:56	1
Cadmium	1.7		0.32	0.058	mg/Kg	☼	09/17/25 15:12	09/19/25 23:56	1
Chromium	26		1.6	0.80	mg/Kg	☼	09/17/25 15:12	09/19/25 23:56	1
Copper	2100		8.0	2.3	mg/Kg	☼	09/17/25 15:12	09/22/25 18:57	5
Lead	23		4.0	1.9	mg/Kg	☼	09/17/25 15:12	09/22/25 18:57	5
Manganese	320	B	1.6	0.23	mg/Kg	☼	09/17/25 15:12	09/19/25 23:56	1
Nickel	17		1.6	0.47	mg/Kg	☼	09/17/25 15:12	09/19/25 23:56	1
Selenium	1.5	J	1.6	0.95	mg/Kg	☼	09/17/25 15:12	09/19/25 23:56	1
Silver	3.0		0.80	0.21	mg/Kg	☼	09/17/25 15:12	09/19/25 23:56	1
Zinc	110		16	7.1	mg/Kg	☼	09/17/25 15:12	09/22/25 18:57	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.027	0.011	mg/Kg	☼	09/19/25 12:45	09/22/25 09:02	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-036_20250908
Date Collected: 09/08/25 16:10
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-20
Matrix: Solid
Percent Solids: 83.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		1.1	0.36	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1
Barium	36	B	1.1	0.12	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1
Cadmium	0.84		0.21	0.038	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1
Chromium	11		1.1	0.52	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1
Copper	960		1.1	0.30	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1
Lead	8.9		0.53	0.24	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1
Manganese	92	B	1.1	0.15	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1
Nickel	8.3		1.1	0.31	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1
Silver	0.75		0.53	0.14	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1
Zinc	33		2.1	0.93	mg/Kg	☼	09/17/25 15:12	09/20/25 00:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.018	0.0074	mg/Kg	☼	09/19/25 12:45	09/22/25 09:08	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-028_20250908
Date Collected: 09/08/25 16:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274547-21
Matrix: Solid
Percent Solids: 78.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.6**		1.2	0.41	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1
Barium	**77**		1.2	0.14	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1
Cadmium	**0.089**	**J B**	0.24	0.043	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1
Chromium	**17**		1.2	0.59	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1
Copper	**20**		1.2	0.33	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1
Lead	**5.8**		0.60	0.28	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1
Manganese	**190**		1.2	0.17	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1
Nickel	**19**		1.2	0.35	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1
Selenium	<0.70		1.2	0.70	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1
Silver	<0.15		0.60	0.15	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1
Zinc	**28**		2.4	1.0	mg/Kg	☼	09/17/25 09:23	09/18/25 20:11	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0083		0.020	0.0083	mg/Kg	☼	09/19/25 12:45	09/22/25 09:17	1

Definitions/Glossary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 834323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-21	SS-028_20250908	Total/NA	Solid	3050B	
MB 500-834323/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-834323/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 834425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-1	SS-057_20250907	Total/NA	Solid	3050B	
500-274547-2	SS-063_20250907	Total/NA	Solid	3050B	
500-274547-3	SS-041_20250907	Total/NA	Solid	3050B	
500-274547-4	SS-051_20250907	Total/NA	Solid	3050B	
500-274547-5	SS-053_20250907	Total/NA	Solid	3050B	
500-274547-6	SS-056_20250907	Total/NA	Solid	3050B	
500-274547-7	SS-061_20250907	Total/NA	Solid	3050B	
500-274547-8	SS-001_20250908	Total/NA	Solid	3050B	
500-274547-9	SS-016_20250908	Total/NA	Solid	3050B	
500-274547-10	SS-021_20250908	Total/NA	Solid	3050B	
500-274547-11	SS-044_20250908	Total/NA	Solid	3050B	
500-274547-12	SS-043_20250908	Total/NA	Solid	3050B	
500-274547-13	SS-048_20250908	Total/NA	Solid	3050B	
500-274547-14	SS-047_20250908	Total/NA	Solid	3050B	
500-274547-15	SS-049_20250908	Total/NA	Solid	3050B	
500-274547-16	SS-046_20250908	Total/NA	Solid	3050B	
500-274547-17	SS-045_20250908	Total/NA	Solid	3050B	
500-274547-18	SS-038_20250908	Total/NA	Solid	3050B	
500-274547-19	SS-037_20250908	Total/NA	Solid	3050B	
500-274547-20	SS-036_20250908	Total/NA	Solid	3050B	
MB 500-834425/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-834425/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-274547-1 MS	SS-057_20250907	Total/NA	Solid	3050B	
500-274547-1 MSD	SS-057_20250907	Total/NA	Solid	3050B	
500-274547-1 DU	SS-057_20250907	Total/NA	Solid	3050B	

Prep Batch: 834662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-1	SS-057_20250907	Total/NA	Solid	7471B	
500-274547-2	SS-063_20250907	Total/NA	Solid	7471B	
500-274547-3	SS-041_20250907	Total/NA	Solid	7471B	
500-274547-4	SS-051_20250907	Total/NA	Solid	7471B	
500-274547-5	SS-053_20250907	Total/NA	Solid	7471B	
500-274547-6	SS-056_20250907	Total/NA	Solid	7471B	
500-274547-7	SS-061_20250907	Total/NA	Solid	7471B	
500-274547-8	SS-001_20250908	Total/NA	Solid	7471B	
500-274547-9	SS-016_20250908	Total/NA	Solid	7471B	
500-274547-10	SS-021_20250908	Total/NA	Solid	7471B	
500-274547-11	SS-044_20250908	Total/NA	Solid	7471B	
500-274547-12	SS-043_20250908	Total/NA	Solid	7471B	
500-274547-13	SS-048_20250908	Total/NA	Solid	7471B	
500-274547-14	SS-047_20250908	Total/NA	Solid	7471B	
500-274547-15	SS-049_20250908	Total/NA	Solid	7471B	
500-274547-16	SS-046_20250908	Total/NA	Solid	7471B	
500-274547-17	SS-045_20250908	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 834662 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-18	SS-038_20250908	Total/NA	Solid	7471B	
500-274547-19	SS-037_20250908	Total/NA	Solid	7471B	
500-274547-20	SS-036_20250908	Total/NA	Solid	7471B	
MB 500-834662/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-834662/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-274547-11 MS	SS-044_20250908	Total/NA	Solid	7471B	
500-274547-11 MSD	SS-044_20250908	Total/NA	Solid	7471B	
500-274547-11 DU	SS-044_20250908	Total/NA	Solid	7471B	

Prep Batch: 834664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-21	SS-028_20250908	Total/NA	Solid	7471B	
MB 500-834664/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-834664/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 834731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-21	SS-028_20250908	Total/NA	Solid	6010D	834323
MB 500-834323/1-A	Method Blank	Total/NA	Solid	6010D	834323
LCS 500-834323/2-A	Lab Control Sample	Total/NA	Solid	6010D	834323

Analysis Batch: 834931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-1	SS-057_20250907	Total/NA	Solid	6010D	834425
500-274547-2	SS-063_20250907	Total/NA	Solid	6010D	834425
500-274547-3	SS-041_20250907	Total/NA	Solid	6010D	834425
500-274547-4	SS-051_20250907	Total/NA	Solid	6010D	834425
500-274547-5	SS-053_20250907	Total/NA	Solid	6010D	834425
500-274547-6	SS-056_20250907	Total/NA	Solid	6010D	834425
500-274547-7	SS-061_20250907	Total/NA	Solid	6010D	834425
500-274547-8	SS-001_20250908	Total/NA	Solid	6010D	834425
500-274547-9	SS-016_20250908	Total/NA	Solid	6010D	834425
500-274547-10	SS-021_20250908	Total/NA	Solid	6010D	834425
500-274547-11	SS-044_20250908	Total/NA	Solid	6010D	834425
500-274547-12	SS-043_20250908	Total/NA	Solid	6010D	834425
500-274547-13	SS-048_20250908	Total/NA	Solid	6010D	834425
500-274547-14	SS-047_20250908	Total/NA	Solid	6010D	834425
500-274547-15	SS-049_20250908	Total/NA	Solid	6010D	834425
500-274547-16	SS-046_20250908	Total/NA	Solid	6010D	834425
500-274547-17	SS-045_20250908	Total/NA	Solid	6010D	834425
500-274547-18	SS-038_20250908	Total/NA	Solid	6010D	834425
500-274547-19	SS-037_20250908	Total/NA	Solid	6010D	834425
500-274547-20	SS-036_20250908	Total/NA	Solid	6010D	834425
MB 500-834425/1-A	Method Blank	Total/NA	Solid	6010D	834425
LCS 500-834425/2-A	Lab Control Sample	Total/NA	Solid	6010D	834425
500-274547-1 MS	SS-057_20250907	Total/NA	Solid	6010D	834425
500-274547-1 MSD	SS-057_20250907	Total/NA	Solid	6010D	834425
500-274547-1 DU	SS-057_20250907	Total/NA	Solid	6010D	834425

Metals

Analysis Batch: 834950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-1	SS-057_20250907	Total/NA	Solid	7471B	834662
500-274547-2	SS-063_20250907	Total/NA	Solid	7471B	834662
500-274547-3	SS-041_20250907	Total/NA	Solid	7471B	834662
500-274547-4	SS-051_20250907	Total/NA	Solid	7471B	834662
500-274547-5	SS-053_20250907	Total/NA	Solid	7471B	834662
500-274547-6	SS-056_20250907	Total/NA	Solid	7471B	834662
500-274547-7	SS-061_20250907	Total/NA	Solid	7471B	834662
500-274547-8	SS-001_20250908	Total/NA	Solid	7471B	834662
500-274547-9	SS-016_20250908	Total/NA	Solid	7471B	834662
500-274547-10	SS-021_20250908	Total/NA	Solid	7471B	834662
500-274547-11	SS-044_20250908	Total/NA	Solid	7471B	834662
500-274547-12	SS-043_20250908	Total/NA	Solid	7471B	834662
500-274547-13	SS-048_20250908	Total/NA	Solid	7471B	834662
500-274547-14	SS-047_20250908	Total/NA	Solid	7471B	834662
500-274547-15	SS-049_20250908	Total/NA	Solid	7471B	834662
500-274547-16	SS-046_20250908	Total/NA	Solid	7471B	834662
500-274547-17	SS-045_20250908	Total/NA	Solid	7471B	834662
500-274547-18	SS-038_20250908	Total/NA	Solid	7471B	834662
500-274547-19	SS-037_20250908	Total/NA	Solid	7471B	834662
500-274547-20	SS-036_20250908	Total/NA	Solid	7471B	834662
500-274547-21	SS-028_20250908	Total/NA	Solid	7471B	834664
MB 500-834662/12-A	Method Blank	Total/NA	Solid	7471B	834662
MB 500-834664/12-A	Method Blank	Total/NA	Solid	7471B	834664
LCS 500-834662/13-A	Lab Control Sample	Total/NA	Solid	7471B	834662
LCS 500-834664/13-A	Lab Control Sample	Total/NA	Solid	7471B	834664
500-274547-11 MS	SS-044_20250908	Total/NA	Solid	7471B	834662
500-274547-11 MSD	SS-044_20250908	Total/NA	Solid	7471B	834662
500-274547-11 DU	SS-044_20250908	Total/NA	Solid	7471B	834662

Analysis Batch: 835174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-8	SS-001_20250908	Total/NA	Solid	6010D	834425
500-274547-10	SS-021_20250908	Total/NA	Solid	6010D	834425
500-274547-16	SS-046_20250908	Total/NA	Solid	6010D	834425
500-274547-17	SS-045_20250908	Total/NA	Solid	6010D	834425
500-274547-18	SS-038_20250908	Total/NA	Solid	6010D	834425
500-274547-19	SS-037_20250908	Total/NA	Solid	6010D	834425

General Chemistry

Analysis Batch: 833919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-1	SS-057_20250907	Total/NA	Solid	Moisture	
500-274547-2	SS-063_20250907	Total/NA	Solid	Moisture	
500-274547-3	SS-041_20250907	Total/NA	Solid	Moisture	
500-274547-4	SS-051_20250907	Total/NA	Solid	Moisture	
500-274547-5	SS-053_20250907	Total/NA	Solid	Moisture	
500-274547-6	SS-056_20250907	Total/NA	Solid	Moisture	
500-274547-7	SS-061_20250907	Total/NA	Solid	Moisture	
500-274547-8	SS-001_20250908	Total/NA	Solid	Moisture	
500-274547-9	SS-016_20250908	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 833919 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-10	SS-021_20250908	Total/NA	Solid	Moisture	
500-274547-11	SS-044_20250908	Total/NA	Solid	Moisture	
500-274547-12	SS-043_20250908	Total/NA	Solid	Moisture	
500-274547-13	SS-048_20250908	Total/NA	Solid	Moisture	
500-274547-14	SS-047_20250908	Total/NA	Solid	Moisture	
500-274547-15	SS-049_20250908	Total/NA	Solid	Moisture	
500-274547-16	SS-046_20250908	Total/NA	Solid	Moisture	
500-274547-17	SS-045_20250908	Total/NA	Solid	Moisture	

Analysis Batch: 833932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274547-18	SS-038_20250908	Total/NA	Solid	Moisture	
500-274547-19	SS-037_20250908	Total/NA	Solid	Moisture	
500-274547-20	SS-036_20250908	Total/NA	Solid	Moisture	
500-274547-21	SS-028_20250908	Total/NA	Solid	Moisture	
500-274547-18 DU	SS-038_20250908	Total/NA	Solid	Moisture	

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-834323/1-A
Matrix: Solid
Analysis Batch: 834731

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/17/25 09:23	09/18/25 19:40	1
Barium	<0.11		1.0	0.11	mg/Kg		09/17/25 09:23	09/18/25 19:40	1
Cadmium	0.0374	J	0.20	0.036	mg/Kg		09/17/25 09:23	09/18/25 19:40	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/17/25 09:23	09/18/25 19:40	1
Copper	<0.28		1.0	0.28	mg/Kg		09/17/25 09:23	09/18/25 19:40	1
Lead	<0.23		0.50	0.23	mg/Kg		09/17/25 09:23	09/18/25 19:40	1
Manganese	<0.15		1.0	0.15	mg/Kg		09/17/25 09:23	09/18/25 19:40	1
Nickel	<0.29		1.0	0.29	mg/Kg		09/17/25 09:23	09/18/25 19:40	1
Selenium	<0.59		1.0	0.59	mg/Kg		09/17/25 09:23	09/18/25 19:40	1
Silver	<0.13		0.50	0.13	mg/Kg		09/17/25 09:23	09/18/25 19:40	1
Zinc	<0.88		2.0	0.88	mg/Kg		09/17/25 09:23	09/18/25 19:40	1

Lab Sample ID: LCS 500-834323/2-A
Matrix: Solid
Analysis Batch: 834731

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.64		mg/Kg		96	80 - 120
Barium	200	201		mg/Kg		100	80 - 120
Cadmium	5.00	4.96		mg/Kg		99	80 - 120
Chromium	20.0	21.7		mg/Kg		109	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Lead	10.0	10.3		mg/Kg		103	80 - 120
Manganese	50.0	47.2		mg/Kg		94	80 - 120
Nickel	50.0	51.7		mg/Kg		103	80 - 120
Selenium	10.0	7.95		mg/Kg		80	80 - 120
Silver	5.00	4.21		mg/Kg		84	80 - 120
Zinc	50.0	45.6		mg/Kg		91	80 - 120

Lab Sample ID: MB 500-834425/1-A
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/17/25 15:12	09/19/25 21:52	1
Barium	0.112	J	1.0	0.11	mg/Kg		09/17/25 15:12	09/19/25 21:52	1
Cadmium	<0.036		0.20	0.036	mg/Kg		09/17/25 15:12	09/19/25 21:52	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/17/25 15:12	09/19/25 21:52	1
Copper	<0.28		1.0	0.28	mg/Kg		09/17/25 15:12	09/19/25 21:52	1
Lead	<0.23		0.50	0.23	mg/Kg		09/17/25 15:12	09/19/25 21:52	1
Manganese	0.690	J	1.0	0.15	mg/Kg		09/17/25 15:12	09/19/25 21:52	1
Nickel	<0.29		1.0	0.29	mg/Kg		09/17/25 15:12	09/19/25 21:52	1
Selenium	<0.59		1.0	0.59	mg/Kg		09/17/25 15:12	09/19/25 21:52	1
Silver	<0.13		0.50	0.13	mg/Kg		09/17/25 15:12	09/19/25 21:52	1
Zinc	<0.88		2.0	0.88	mg/Kg		09/17/25 15:12	09/19/25 21:52	1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-834425/2-A
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834425

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			10.0	9.83		mg/Kg		98	80 - 120		
Barium			200	197		mg/Kg		99	80 - 120		
Cadmium			5.00	4.52		mg/Kg		90	80 - 120		
Chromium			20.0	19.1		mg/Kg		96	80 - 120		
Copper			25.0	24.5		mg/Kg		98	80 - 120		
Lead			10.0	10.4		mg/Kg		104	80 - 120		
Manganese			50.0	52.2		mg/Kg		104	80 - 120		
Nickel			50.0	50.6		mg/Kg		101	80 - 120		
Selenium			10.0	9.32		mg/Kg		93	80 - 120		
Silver			5.00	4.56		mg/Kg		91	80 - 120		
Zinc			50.0	47.5		mg/Kg		95	80 - 120		

Lab Sample ID: 500-274547-1 MS
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: SS-057_20250907
Prep Type: Total/NA
Prep Batch: 834425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic	3.0		9.99	11.8		mg/Kg	☼	88	75 - 125		
Barium	51	B	200	227		mg/Kg	☼	88	75 - 125		
Cadmium	0.13	J	4.99	4.28		mg/Kg	☼	83	75 - 125		
Chromium	15		20.0	32.1		mg/Kg	☼	86	75 - 125		
Copper	80	F1 F2	25.0	154	F1	mg/Kg	☼	297	75 - 125		
Lead	5.2		9.99	15.7		mg/Kg	☼	105	75 - 125		
Manganese	160	B F1	49.9	218		mg/Kg	☼	108	75 - 125		
Nickel	15		49.9	67.8		mg/Kg	☼	106	75 - 125		
Selenium	<0.58		9.99	7.76		mg/Kg	☼	78	75 - 125		
Silver	0.64		4.99	4.74		mg/Kg	☼	82	75 - 125		
Zinc	31		49.9	90.6		mg/Kg	☼	119	75 - 125		

Lab Sample ID: 500-274547-1 MSD
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: SS-057_20250907
Prep Type: Total/NA
Prep Batch: 834425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	3.0		11.1	13.0		mg/Kg	☼	89	75 - 125	9	20
Barium	51	B	223	259		mg/Kg	☼	93	75 - 125	13	20
Cadmium	0.13	J	5.57	4.86		mg/Kg	☼	85	75 - 125	13	20
Chromium	15		22.3	36.0		mg/Kg	☼	95	75 - 125	11	20
Copper	80	F1 F2	27.8	114	F2	mg/Kg	☼	123	75 - 125	30	20
Lead	5.2		11.1	16.9		mg/Kg	☼	105	75 - 125	7	20
Manganese	160	B F1	55.7	257	F1	mg/Kg	☼	167	75 - 125	16	20
Nickel	15		55.7	74.9		mg/Kg	☼	108	75 - 125	10	20
Selenium	<0.58		11.1	8.88		mg/Kg	☼	80	75 - 125	13	20
Silver	0.64		5.57	5.38		mg/Kg	☼	85	75 - 125	13	20
Zinc	31		55.7	98.1		mg/Kg	☼	120	75 - 125	8	20

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-274547-1 DU
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: SS-057_20250907
Prep Type: Total/NA
Prep Batch: 834425

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	3.0		3.19		mg/Kg	☼	5	20
Barium	51	B	53.6		mg/Kg	☼	5	20
Cadmium	0.13	J	0.131	J	mg/Kg	☼	4	20
Chromium	15		15.4		mg/Kg	☼	4	20
Copper	80	F1 F2	104	F3	mg/Kg	☼	26	20
Lead	5.2		5.26		mg/Kg	☼	1	20
Manganese	160	B F1	188		mg/Kg	☼	14	20
Nickel	15		15.0		mg/Kg	☼	0.7	20
Selenium	<0.58		<0.69		mg/Kg	☼	NC	20
Silver	0.64		0.831	F5	mg/Kg	☼	26	20
Zinc	31		31.4		mg/Kg	☼	0.1	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-834662/12-A
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834662

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		09/19/25 12:45	09/22/25 08:09	1

Lab Sample ID: LCS 500-834662/13-A
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.157		mg/Kg		94	80 - 120

Lab Sample ID: 500-274547-11 MS
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: SS-044_20250908
Prep Type: Total/NA
Prep Batch: 834662

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.0075		0.0894	0.0981		mg/Kg	☼	110	75 - 125

Lab Sample ID: 500-274547-11 MSD
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: SS-044_20250908
Prep Type: Total/NA
Prep Batch: 834662

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.0075		0.0902	0.101		mg/Kg	☼	112	75 - 125	3	20

Lab Sample ID: 500-274547-11 DU
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: SS-044_20250908
Prep Type: Total/NA
Prep Batch: 834662

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.0075		<0.0075		mg/Kg	☼	NC	20

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: MB 500-834664/12-A
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		09/19/25 12:45	09/22/25 09:10	1

Lab Sample ID: LCS 500-834664/13-A
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834664

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.167	0.136		mg/Kg		82	80 - 120		

Client Sample ID: SS-057_20250907
Lab Sample ID: 500-274547-1
Date Collected: 09/07/25 15:50
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-057_20250907
Lab Sample ID: 500-274547-1
Date Collected: 09/07/25 15:50
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 22:01
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:13

Client Sample ID: SS-063_20250907
Lab Sample ID: 500-274547-2
Date Collected: 09/07/25 12:02
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-063_20250907
Lab Sample ID: 500-274547-2
Date Collected: 09/07/25 12:02
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 22:23
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:15

Client Sample ID: SS-041_20250907
Lab Sample ID: 500-274547-3
Date Collected: 09/07/25 17:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-041_20250907
Lab Sample ID: 500-274547-3
Date Collected: 09/07/25 17:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 72.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 22:36
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:23

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-051_20250907
Lab Sample ID: 500-274547-4
Date Collected: 09/07/25 15:05
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-051_20250907
Lab Sample ID: 500-274547-4
Date Collected: 09/07/25 15:05
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 22:41
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:24

Client Sample ID: SS-053_20250907
Lab Sample ID: 500-274547-5
Date Collected: 09/07/25 12:40
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-053_20250907
Lab Sample ID: 500-274547-5
Date Collected: 09/07/25 12:40
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 22:45
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:26

Client Sample ID: SS-056_20250907
Lab Sample ID: 500-274547-6
Date Collected: 09/07/25 14:40
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-056_20250907
Lab Sample ID: 500-274547-6
Date Collected: 09/07/25 14:40
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 22:50
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:28

Client Sample ID: SS-061_20250907
Lab Sample ID: 500-274547-7
Date Collected: 09/07/25 11:45
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-061_20250907
Lab Sample ID: 500-274547-7
Date Collected: 09/07/25 11:45
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 22:54
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:29

Client Sample ID: SS-001_20250908
Lab Sample ID: 500-274547-8
Date Collected: 09/08/25 08:45
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-001_20250908
Lab Sample ID: 500-274547-8
Date Collected: 09/08/25 08:45
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 22:58
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		5	835174	S1Z	EET CHI	09/22/25 18:27
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:31

Client Sample ID: SS-016_20250908
Lab Sample ID: 500-274547-9
Date Collected: 09/08/25 11:15
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-016_20250908
Lab Sample ID: 500-274547-9
Date Collected: 09/08/25 11:15
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:03

Client Sample ID: SS-016_20250908 — **Lab Sample ID: 500-274547-9**
Date Collected: 09/08/25 11:15 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 89.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:33

Client Sample ID: SS-021_20250908 — **Lab Sample ID: 500-274547-10**
Date Collected: 09/08/25 10:50 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-021_20250908 — **Lab Sample ID: 500-274547-10**
Date Collected: 09/08/25 10:50 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 77.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:07
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		5	835174	S1Z	EET CHI	09/22/25 18:31
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:35

Client Sample ID: SS-044_20250908 — **Lab Sample ID: 500-274547-11**
Date Collected: 09/08/25 13:37 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-044_20250908 — **Lab Sample ID: 500-274547-11**
Date Collected: 09/08/25 13:37 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 86.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:12
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:37

Client Sample ID: SS-043_20250908 — **Lab Sample ID: 500-274547-12**
Date Collected: 09/08/25 13:45 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-043_20250908

Lab Sample ID: 500-274547-12

Date Collected: 09/08/25 13:45

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:16
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:48

Client Sample ID: SS-048_20250908

Lab Sample ID: 500-274547-13

Date Collected: 09/08/25 14:05

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-048_20250908

Lab Sample ID: 500-274547-13

Date Collected: 09/08/25 14:05

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:30
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:50

Client Sample ID: SS-047_20250908

Lab Sample ID: 500-274547-14

Date Collected: 09/08/25 14:15

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-047_20250908

Lab Sample ID: 500-274547-14

Date Collected: 09/08/25 14:15

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:34
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:52

Client Sample ID: SS-049_20250908

Lab Sample ID: 500-274547-15

Date Collected: 09/08/25 14:30

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-049_20250908

Lab Sample ID: 500-274547-15

Date Collected: 09/08/25 14:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:38
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:54

Client Sample ID: SS-046_20250908

Lab Sample ID: 500-274547-16

Date Collected: 09/08/25 14:50
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-046_20250908

Lab Sample ID: 500-274547-16

Date Collected: 09/08/25 14:50
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 37.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:43
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		10	835174	S1Z	EET CHI	09/22/25 18:35
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:56

Client Sample ID: SS-045_20250908

Lab Sample ID: 500-274547-17

Date Collected: 09/08/25 15:05
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833919	RB	EET CHI	09/15/25 09:30

Client Sample ID: SS-045_20250908

Lab Sample ID: 500-274547-17

Date Collected: 09/08/25 15:05
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 34.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:47
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		5	835174	S1Z	EET CHI	09/22/25 18:48
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 08:58

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-038_20250908

Lab Sample ID: 500-274547-18

Date Collected: 09/08/25 15:20
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-038_20250908

Lab Sample ID: 500-274547-18

Date Collected: 09/08/25 15:20
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:52
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		10	835174	S1Z	EET CHI	09/22/25 18:53
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 09:00

Client Sample ID: SS-037_20250908

Lab Sample ID: 500-274547-19

Date Collected: 09/08/25 15:40
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-037_20250908

Lab Sample ID: 500-274547-19

Date Collected: 09/08/25 15:40
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 54.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/19/25 23:56
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		5	835174	S1Z	EET CHI	09/22/25 18:57
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 09:02

Client Sample ID: SS-036_20250908

Lab Sample ID: 500-274547-20

Date Collected: 09/08/25 16:10
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Client Sample ID: SS-036_20250908

Lab Sample ID: 500-274547-20

Date Collected: 09/08/25 16:10
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 83.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834425	MS	EET CHI	09/17/25 15:12 - 09/17/25 20:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 00:00
Total/NA	Prep	7471B			834662	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 09:08

Client Sample ID: SS-028_20250908

Lab Sample ID: 500-274547-21

Date Collected: 09/08/25 16:50
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-028_20250908

Lab Sample ID: 500-274547-21

Date Collected: 09/08/25 16:50
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834323	BDE	EET CHI	09/17/25 09:23 - 09/17/25 15:23 [1]
Total/NA	Analysis	6010D		1	834731	S1Z	EET CHI	09/18/25 20:11
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 09:17

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274547-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-26
Georgia (DW)	State	939	05-31-26
Illinois	NELAP	100201	05-31-26
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-26
Kentucky (WW)	State	KY90023	12-31-25
Louisiana (All)	NELAP	02046	06-30-26
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	12-31-25
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	12-31-25
South Carolina	State	77001003	05-31-26
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	399172840	08-31-26
Wyoming	State	8TMS-Q	05-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708 534 5200 Fax 708 534 5211

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM	Carrier Tracking No(s)	COC No
Client Contact: Amanda Zeidler	Phone	Fredrick Sandie E Mail: Sandra Fredrick@et eurofinsus com	State of Origin	500-140483-53677 6
Company: White Pine Copper LLC	PWSID			Page: Page 6 of 13
Address: 35362 Mall Circle Drive	Due Date Requested			Job #: 500-274547
City: White Pine	TAT Requested (days)			
State Zip: MI 49971	Compliance Project Δ Yes Δ No			
Phone	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #			
Project Name: Copper White Pine ~~Cooper~~ Soils	Project #: 50025458			
Site	SSOW#:			

500-274547 COC

Analysis Requested

Preservation Codes: N None; D HNO3

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D 7471B	6020B, 7470A	Total Number of containers	Special Instructions/Note
			Preservation Code				N	D		
1 SS-057_20250907	9/7/25	15:50	G	Solid	N	N	✓			
2 SS-063_20250907	9/7/25	12:02	G	Solid	N	N	✓			
3 SS-041_20250907	9/7/25	17:30	G	Solid	N	N	✓			
4 SS-051_20250907	9/7/25	15:05	G	Solid	N	N	✓			
5 SS-053_20250907	9/7/25	12:40	G	Solid	N	N	✓			
6 SS-056_20250907	9/7/25	14:40	G	Solid	N	N	✓			
7 SS-061_20250907	9/7/25	11:45	G	Solid	N	N	✓			
8 SS-001_20250908	9/8/25	08:45	G	Solid	N	N	✓			
9 SS-016_20250908	9/8/25	11:15	G	Solid	N	N	✓			
SS-012_20250908	9/8/25	11:36	G	Solid	N	N	✓			
10 SS-021_20250908	9/8/25	10:50	G	Solid	N	N	✓			

Possible Hazard Identification
☑ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Justin Brown	9/11/25 1200	ET	[signature]	9/12/25 0900	ET
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks: 5.8-5.6, 4.2-4.0, 5.8-5.0, 6.0-5.8, 5.9-5.7

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708 534-5200 Fax 708 534 5211

Chain of Custody Record

eurofins

Client Information	Sampler	Lab PM: Fredrick Sandie	Carrier Tracking No(s)	COC No: 500 140483-53677 7
Client Contact: Amanda Zeidler	Phone	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin	Page: Page 7 of 13
Company: White Pine Copper LLC	PWSID			Job #: 500-274547

Analysis Requested

Address: 35362 Mall Circle Drive	Due Date Requested
City: White Pine	TAT Requested (days)
State Zip: MI, 49971	Compliance Project: Δ Yes Δ No
Phone	PO #: Purchase Order not required
Email: AZeidler@whitepinecu com	WO #
Project Name: White Pine Cooper Soils	Project #: 50025458
Site	SSOW#

Preservation Codes
N None
D HNO3
Other

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7471B	6020B, 7470A	Total Number of containers	Special Instructions/Note
				Preservation Code				N	D		
11	SS-044_20250908	9/8/25	13:37	G	Solid	N	N	✓			
12	SS-043_20250908	9/8/25	13:45	G	Solid	N	N	✓			
13	SS-048_20250908	9/8/25	14:05	G	Solid	N	N	✓			
14	SS-047_20250908	9/8/25	14:15	G	Solid	N	N	✓			
15	SS-049_20250908	9/8/25	14:30	G	Solid	N	N	✓			
16	SS-046_20250908	9/8/25	14:50	G	Solid	N	N	✓			
17	SS-045_20250908	9/8/25	15:05	G	Solid	N	N	✓			
18	SS-038_20250908	9/8/25	15:20	G	Solid	N	N	✓			
19	SS-037_20250908	9/8/25	15:40	G	Solid	N	N	✓			
20	SS-036_20250908	9/8/25	16:10	G	Solid	N	N	✓			
21	SS-028_20250908	9/8/25	16:50	G	Solid	N	N	✓			

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Justin Brown	9/11/25 1200	Foth	[signature]	9/12/25 0400	EET
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-274547-1

Login Number: 274547

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6,4.0,5.0,5.8,5.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 9/23/2025 1:20:02 PM

JOB DESCRIPTION

White Pine Copper Soils

JOB NUMBER

500-274549-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Authorized for release by
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Job ID: 500-274549-1 — Eurofins Chicago

Job Narrative
500-274549-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/12/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 4.0°C, 5.0°C, 5.6°C, 5.7°C and 5.8°C.

Metals
Method 6010D: The method blank for preparation batch 500-834541 and analytical batch 500-834931 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-005_20250908 — Lab Sample ID: 500-274549-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6	F1	1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	58	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.91		0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Copper	2600	F2	5.4	1.5	mg/Kg	5	☼	6010D	Total/NA
Lead	9.8		2.7	1.3	mg/Kg	5	☼	6010D	Total/NA
Manganese	130	F1	1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	15		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Silver	1.9	F1	0.54	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	32		11	4.8	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.016	J	0.018	0.0076	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-002_20250908 — Lab Sample ID: 500-274549-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9		1.2	0.40	mg/Kg	1	☼	6010D	Total/NA
Barium	26	B	1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.0		0.24	0.042	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.6		1.2	0.58	mg/Kg	1	☼	6010D	Total/NA
Copper	1200		1.2	0.33	mg/Kg	1	☼	6010D	Total/NA
Lead	8.2		0.59	0.27	mg/Kg	1	☼	6010D	Total/NA
Manganese	65		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	2.8		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Silver	0.78		0.59	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	18		2.4	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.037		0.019	0.0079	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-004_20250908 — Lab Sample ID: 500-274549-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9		0.97	0.33	mg/Kg	1	☼	6010D	Total/NA
Barium	62	B	0.97	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.093	J	0.19	0.035	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		0.97	0.48	mg/Kg	1	☼	6010D	Total/NA
Copper	16		0.97	0.27	mg/Kg	1	☼	6010D	Total/NA
Lead	5.1		0.48	0.22	mg/Kg	1	☼	6010D	Total/NA
Manganese	200		0.97	0.14	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		0.97	0.28	mg/Kg	1	☼	6010D	Total/NA
Silver	0.71		0.48	0.12	mg/Kg	1	☼	6010D	Total/NA
Zinc	32		1.9	0.85	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-006_20250908 — Lab Sample ID: 500-274549-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6		1.2	0.40	mg/Kg	1	☼	6010D	Total/NA
Barium	56	B	1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.87		0.23	0.042	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.2	0.57	mg/Kg	1	☼	6010D	Total/NA
Copper	720		1.2	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	12		0.58	0.27	mg/Kg	1	☼	6010D	Total/NA
Manganese	260		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-006_20250908 (Continued) — Lab Sample ID: 500-274549-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	1.3		0.58	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	200		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.035		0.020	0.0084	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-011_20250908 — Lab Sample ID: 500-274549-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.3		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	63	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.12	J	0.22	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Copper	120		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Lead	5.5		0.55	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	200		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Silver	0.97		0.55	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	33		2.2	0.96	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0099	J	0.017	0.0072	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-013_20250908 — Lab Sample ID: 500-274549-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.9		0.98	0.34	mg/Kg	1	☼	6010D	Total/NA
Barium	60	B	0.98	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.10	J	0.20	0.035	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		0.98	0.49	mg/Kg	1	☼	6010D	Total/NA
Copper	48		0.98	0.27	mg/Kg	1	☼	6010D	Total/NA
Lead	5.1		0.49	0.23	mg/Kg	1	☼	6010D	Total/NA
Manganese	200		0.98	0.14	mg/Kg	1	☼	6010D	Total/NA
Nickel	15		0.98	0.29	mg/Kg	1	☼	6010D	Total/NA
Silver	0.81		0.49	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	32		2.0	0.86	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-017_20250908 — Lab Sample ID: 500-274549-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.0	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	65	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.089	J	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.0	0.52	mg/Kg	1	☼	6010D	Total/NA
Copper	28		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	5.1		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	200		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	15		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	0.76		0.52	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	31		2.1	0.92	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-055_20250908 — Lab Sample ID: 500-274549-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.9		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	67	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.21		0.20	0.037	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: SS-055_20250908 (Continued) — Lab Sample ID: 500-274549-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	19		1.0	0.50	mg/Kg	1	☼	6010D	Total/NA
Copper	210		1.0	0.28	mg/Kg	1	☼	6010D	Total/NA
Lead	7.4		0.51	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	250		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	20		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	1.1		0.51	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	42		2.0	0.89	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.014	J	0.019	0.0077	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-050_20250908 — Lab Sample ID: 500-274549-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.0	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	60	B	1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.11	J	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.0	0.52	mg/Kg	1	☼	6010D	Total/NA
Copper	16		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	5.3		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	180		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	15		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	0.72		0.52	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	31		2.1	0.92	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-025_20250908 — Lab Sample ID: 500-274549-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.3		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Barium	61	B	1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.091	J	0.22	0.040	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Copper	14		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Lead	4.9		0.55	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	180		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	15		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Silver	0.80		0.55	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	32		2.2	0.97	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-027_20250908 — Lab Sample ID: 500-274549-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	28		3.0	1.0	mg/Kg	1	☼	6010D	Total/NA
Barium	330	B	3.0	0.34	mg/Kg	1	☼	6010D	Total/NA
Cadmium	8.1		0.60	0.11	mg/Kg	1	☼	6010D	Total/NA
Chromium	21		3.0	1.5	mg/Kg	1	☼	6010D	Total/NA
Copper	22000		30	8.4	mg/Kg	10	☼	6010D	Total/NA
Lead	110		15	6.9	mg/Kg	10	☼	6010D	Total/NA
Manganese	21000		30	4.3	mg/Kg	10	☼	6010D	Total/NA
Nickel	19		3.0	0.87	mg/Kg	1	☼	6010D	Total/NA
Selenium	11		3.0	1.8	mg/Kg	1	☼	6010D	Total/NA
Silver	47		15	3.9	mg/Kg	10	☼	6010D	Total/NA
Zinc	150		60	26	mg/Kg	10	☼	6010D	Total/NA
Mercury	0.48		0.052	0.022	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-039_20250908 — Lab Sample ID: 500-274549-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.5		1.5	0.51	mg/Kg	1	☼	6010D	Total/NA
Barium	290	B	1.5	0.17	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.2		0.30	0.054	mg/Kg	1	☼	6010D	Total/NA
Chromium	41		1.5	0.74	mg/Kg	1	☼	6010D	Total/NA
Copper	530		1.5	0.42	mg/Kg	1	☼	6010D	Total/NA
Lead	13		0.75	0.35	mg/Kg	1	☼	6010D	Total/NA
Manganese	5000		7.5	1.1	mg/Kg	5	☼	6010D	Total/NA
Nickel	40		1.5	0.44	mg/Kg	1	☼	6010D	Total/NA
Selenium	2.5		1.5	0.88	mg/Kg	1	☼	6010D	Total/NA
Silver	7.4		3.8	0.97	mg/Kg	5	☼	6010D	Total/NA
Zinc	240		3.0	1.3	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.12		0.028	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-032_20250908 — Lab Sample ID: 500-274549-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		1.2	0.41	mg/Kg	1	☼	6010D	Total/NA
Barium	31	B	1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.91		0.24	0.043	mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.2	0.59	mg/Kg	1	☼	6010D	Total/NA
Copper	2700		5.9	1.7	mg/Kg	5	☼	6010D	Total/NA
Lead	9.9		3.0	1.4	mg/Kg	5	☼	6010D	Total/NA
Manganese	100		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	11		1.2	0.35	mg/Kg	1	☼	6010D	Total/NA
Silver	2.2		0.59	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	31		12	5.2	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.045		0.020	0.0082	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-031_20250908 — Lab Sample ID: 500-274549-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		3.5	1.2	mg/Kg	1	☼	6010D	Total/NA
Barium	100	B	3.5	0.39	mg/Kg	1	☼	6010D	Total/NA
Cadmium	4.9		0.69	0.12	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.4		3.5	1.7	mg/Kg	1	☼	6010D	Total/NA
Copper	7700		17	4.8	mg/Kg	5	☼	6010D	Total/NA
Lead	21		8.6	4.0	mg/Kg	5	☼	6010D	Total/NA
Manganese	120		3.5	0.50	mg/Kg	1	☼	6010D	Total/NA
Nickel	8.3		3.5	1.0	mg/Kg	1	☼	6010D	Total/NA
Silver	5.8		1.7	0.45	mg/Kg	1	☼	6010D	Total/NA
Zinc	51		35	15	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.18		0.060	0.025	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP-05_20250908 — Lab Sample ID: 500-274549-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		1.1	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	72	B	1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.36		0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	21		1.1	0.56	mg/Kg	1	☼	6010D	Total/NA
Copper	290		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	8.1		0.57	0.26	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: DUP-05_20250908 (Continued)

Lab Sample ID: 500-274549-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	250		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	22		1.1	0.33	mg/Kg	1	☼	6010D	Total/NA
Silver	1.1		0.57	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	47		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.025		0.018	0.0073	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: DUP-06_20250908

Lab Sample ID: 500-274549-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		0.97	0.33	mg/Kg	1	☼	6010D	Total/NA
Barium	63	B	0.97	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.095	J	0.19	0.035	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		0.97	0.48	mg/Kg	1	☼	6010D	Total/NA
Copper	14		0.97	0.27	mg/Kg	1	☼	6010D	Total/NA
Lead	6.6		0.49	0.22	mg/Kg	1	☼	6010D	Total/NA
Manganese	200		0.97	0.14	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		0.97	0.28	mg/Kg	1	☼	6010D	Total/NA
Silver	0.87		0.49	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	31		1.9	0.85	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-003_20250909

Lab Sample ID: 500-274549-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	49	B	1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.4		0.21	0.039	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	5500		11	3.0	mg/Kg	10	☼	6010D	Total/NA
Lead	21		5.4	2.5	mg/Kg	10	☼	6010D	Total/NA
Manganese	170		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	3.4		0.54	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	82		21	9.4	mg/Kg	10	☼	6010D	Total/NA
Mercury	0.018		0.018	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-019_20250909

Lab Sample ID: 500-274549-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		1.9	0.65	mg/Kg	1	☼	6010D	Total/NA
Barium	85	B	1.9	0.22	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.84		0.38	0.068	mg/Kg	1	☼	6010D	Total/NA
Chromium	24		1.9	0.94	mg/Kg	1	☼	6010D	Total/NA
Copper	860		1.9	0.53	mg/Kg	1	☼	6010D	Total/NA
Lead	16		0.95	0.44	mg/Kg	1	☼	6010D	Total/NA
Manganese	250		1.9	0.28	mg/Kg	1	☼	6010D	Total/NA
Nickel	22		1.9	0.55	mg/Kg	1	☼	6010D	Total/NA
Silver	2.3		0.95	0.24	mg/Kg	1	☼	6010D	Total/NA
Zinc	78		3.8	1.7	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.016	J	0.030	0.012	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-033_20250909 — Lab Sample ID: 500-274549-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.7		1.2	0.41	mg/Kg	1	☼	6010D	Total/NA
Barium	45	B	1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.39		0.24	0.043	mg/Kg	1	☼	6010D	Total/NA
Chromium	14		1.2	0.59	mg/Kg	1	☼	6010D	Total/NA
Copper	480		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Lead	9.6		0.60	0.28	mg/Kg	1	☼	6010D	Total/NA
Manganese	160		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	12		1.2	0.35	mg/Kg	1	☼	6010D	Total/NA
Silver	1.2		0.60	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	30		2.4	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.028		0.019	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-015_20250909 — Lab Sample ID: 500-274549-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.2		0.95	0.33	mg/Kg	1	☼	6010D	Total/NA
Barium	23	B	0.95	0.11	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.27		0.19	0.034	mg/Kg	1	☼	6010D	Total/NA
Chromium	5.4		0.95	0.47	mg/Kg	1	☼	6010D	Total/NA
Copper	620		0.95	0.27	mg/Kg	1	☼	6010D	Total/NA
Lead	2.9	J	4.8	2.2	mg/Kg	10	☼	6010D	Total/NA
Manganese	62		0.95	0.14	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.9		0.95	0.28	mg/Kg	1	☼	6010D	Total/NA
Silver	0.98		0.48	0.12	mg/Kg	1	☼	6010D	Total/NA
Zinc	23		1.9	0.84	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.030		0.017	0.0071	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: White Pine Copper LLC
Job ID: 500-274549-1
Project/Site: White Pine Copper Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-274549-1	SS-005_20250908	Solid	09/08/25 09:35	09/12/25 09:00	Michigan
500-274549-2	SS-002_20250908	Solid	09/08/25 09:00	09/12/25 09:00	Michigan
500-274549-3	SS-004_20250908	Solid	09/08/25 09:15	09/12/25 09:00	Michigan
500-274549-4	SS-006_20250908	Solid	09/08/25 09:50	09/12/25 09:00	Michigan
500-274549-5	SS-011_20250908	Solid	09/08/25 10:10	09/12/25 09:00	Michigan
500-274549-6	SS-013_20250908	Solid	09/08/25 10:30	09/12/25 09:00	Michigan
500-274549-7	SS-017_20250908	Solid	09/08/25 11:30	09/12/25 09:00	Michigan
500-274549-8	SS-055_20250908	Solid	09/08/25 12:45	09/12/25 09:00	Michigan
500-274549-9	SS-050_20250908	Solid	09/08/25 13:20	09/12/25 09:00	Michigan
500-274549-10	SS-025_20250908	Solid	09/08/25 17:05	09/12/25 09:00	Michigan
500-274549-11	SS-027_20250908	Solid	09/08/25 17:25	09/12/25 09:00	Michigan
500-274549-12	SS-039_20250908	Solid	09/08/25 17:40	09/12/25 09:00	Michigan
500-274549-13	SS-032_20250908	Solid	09/08/25 18:10	09/12/25 09:00	Michigan
500-274549-14	SS-031_20250908	Solid	09/08/25 18:30	09/12/25 09:00	Michigan
500-274549-15	DUP-05_20250908	Solid	09/08/25 00:00	09/12/25 09:00	Michigan
500-274549-16	DUP-06_20250908	Solid	09/08/25 00:00	09/12/25 09:00	Michigan
500-274549-17	SS-003_20250909	Solid	09/09/25 17:10	09/12/25 09:00	Michigan
500-274549-18	SS-019_20250909	Solid	09/09/25 13:30	09/12/25 09:00	Michigan
500-274549-19	SS-033_20250909	Solid	09/09/25 11:15	09/12/25 09:00	Michigan
500-274549-20	SS-015_20250909	Solid	09/09/25 15:45	09/12/25 09:00	Michigan

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-005_20250908
Date Collected: 09/08/25 09:35
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-1
Matrix: Solid
Percent Solids: 83.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6	F1	1.1	0.37	mg/Kg	☼	09/18/25 09:12	09/20/25 02:38	1
Barium	58	B	1.1	0.12	mg/Kg	☼	09/18/25 09:12	09/20/25 02:38	1
Cadmium	0.91		0.22	0.039	mg/Kg	☼	09/18/25 09:12	09/20/25 02:38	1
Chromium	19		1.1	0.54	mg/Kg	☼	09/18/25 09:12	09/20/25 02:38	1
Copper	2600	F2	5.4	1.5	mg/Kg	☼	09/18/25 09:12	09/22/25 17:30	5
Lead	9.8		2.7	1.3	mg/Kg	☼	09/18/25 09:12	09/22/25 17:30	5
Manganese	130	F1	1.1	0.16	mg/Kg	☼	09/18/25 09:12	09/20/25 02:38	1
Nickel	15		1.1	0.32	mg/Kg	☼	09/18/25 09:12	09/20/25 02:38	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	09/18/25 09:12	09/20/25 02:38	1
Silver	1.9	F1	0.54	0.14	mg/Kg	☼	09/18/25 09:12	09/20/25 02:38	1
Zinc	32		11	4.8	mg/Kg	☼	09/18/25 09:12	09/22/25 17:30	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.018	0.0076	mg/Kg	☼	09/17/25 15:50	09/18/25 08:03	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-002_20250908
Date Collected: 09/08/25 09:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-2
Matrix: Solid
Percent Solids: 83.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		1.2	0.40	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1
Barium	26	B	1.2	0.13	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1
Cadmium	1.0		0.24	0.042	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1
Chromium	5.6		1.2	0.58	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1
Copper	1200		1.2	0.33	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1
Lead	8.2		0.59	0.27	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1
Manganese	65		1.2	0.17	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1
Nickel	2.8		1.2	0.34	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1
Selenium	<0.69		1.2	0.69	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1
Silver	0.78		0.59	0.15	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1
Zinc	18		2.4	1.0	mg/Kg	☼	09/18/25 09:12	09/20/25 03:09	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0079	mg/Kg	☼	09/17/25 15:50	09/18/25 08:05	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-004_20250908
Date Collected: 09/08/25 09:15
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-3
Matrix: Solid
Percent Solids: 88.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.9**		0.97	0.33	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1
Barium	**62**	**B**	0.97	0.11	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1
Cadmium	**0.093**	**J**	0.19	0.035	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1
Chromium	**16**		0.97	0.48	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1
Copper	**16**		0.97	0.27	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1
Lead	**5.1**		0.48	0.22	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1
Manganese	**200**		0.97	0.14	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1
Nickel	**16**		0.97	0.28	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1
Selenium	<0.57		0.97	0.57	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1
Silver	**0.71**		0.48	0.12	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1
Zinc	**32**		1.9	0.85	mg/Kg	☼	09/18/25 09:12	09/20/25 03:13	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0076		0.018	0.0076	mg/Kg	☼	09/17/25 15:50	09/18/25 08:07	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-006_20250908
Date Collected: 09/08/25 09:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-4
Matrix: Solid
Percent Solids: 74.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		1.2	0.40	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1
Barium	56	B	1.2	0.13	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1
Cadmium	0.87		0.23	0.042	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1
Chromium	19		1.2	0.57	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1
Copper	720		1.2	0.32	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1
Lead	12		0.58	0.27	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1
Manganese	260		1.2	0.17	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1
Nickel	17		1.2	0.34	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1
Selenium	<0.68		1.2	0.68	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1
Silver	1.3		0.58	0.15	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1
Zinc	200		2.3	1.0	mg/Kg	☼	09/18/25 09:12	09/20/25 03:18	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.020	0.0084	mg/Kg	☼	09/17/25 15:50	09/18/25 08:09	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-011_20250908
Date Collected: 09/08/25 10:10
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-5
Matrix: Solid
Percent Solids: 88.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		1.1	0.37	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1
Barium	63	B	1.1	0.12	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1
Cadmium	0.12	J	0.22	0.039	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1
Chromium	17		1.1	0.54	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1
Copper	120		1.1	0.31	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1
Lead	5.5		0.55	0.25	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1
Manganese	200		1.1	0.16	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1
Nickel	16		1.1	0.32	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1
Silver	0.97		0.55	0.14	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1
Zinc	33		2.2	0.96	mg/Kg	☼	09/18/25 09:12	09/20/25 03:22	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0099	J	0.017	0.0072	mg/Kg	☼	09/17/25 15:50	09/18/25 08:10	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-013_20250908
Date Collected: 09/08/25 10:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-6
Matrix: Solid
Percent Solids: 90.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.9**		0.98	0.34	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1
Barium	**60**	**B**	0.98	0.11	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1
Cadmium	**0.10**	**J**	0.20	0.035	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1
Chromium	**16**		0.98	0.49	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1
Copper	**48**		0.98	0.27	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1
Lead	**5.1**		0.49	0.23	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1
Manganese	**200**		0.98	0.14	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1
Nickel	**15**		0.98	0.29	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1
Selenium	<0.58		0.98	0.58	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1
Silver	**0.81**		0.49	0.13	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1
Zinc	**32**		2.0	0.86	mg/Kg	☼	09/18/25 09:12	09/20/25 03:26	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0066		0.016	0.0066	mg/Kg	☼	09/17/25 15:50	09/18/25 08:12	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-017_20250908
Date Collected: 09/08/25 11:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-7
Matrix: Solid
Percent Solids: 89.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.0	0.36	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1
Barium	65	B	1.0	0.12	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1
Cadmium	0.089	J	0.21	0.038	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1
Chromium	16		1.0	0.52	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1
Copper	28		1.0	0.29	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1
Lead	5.1		0.52	0.24	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1
Manganese	200		1.0	0.15	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1
Nickel	15		1.0	0.30	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1
Silver	0.76		0.52	0.13	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1
Zinc	31		2.1	0.92	mg/Kg	☼	09/18/25 09:12	09/20/25 03:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0070		0.017	0.0070	mg/Kg	☼	09/17/25 15:50	09/18/25 08:14	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-055_20250908
Date Collected: 09/08/25 12:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-8
Matrix: Solid
Percent Solids: 84.4

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.9		1.0	0.35	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1
Barium	67	B	1.0	0.12	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1
Cadmium	0.21		0.20	0.037	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1
Chromium	19		1.0	0.50	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1
Copper	210		1.0	0.28	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1
Lead	7.4		0.51	0.24	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1
Manganese	250		1.0	0.15	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1
Nickel	20		1.0	0.30	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1
Silver	1.1		0.51	0.13	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1
Zinc	42		2.0	0.89	mg/Kg	☼	09/18/25 09:12	09/20/25 03:36	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.019	0.0077	mg/Kg	☼	09/17/25 15:50	09/18/25 08:19	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-050_20250908
Date Collected: 09/08/25 13:20
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-9
Matrix: Solid
Percent Solids: 88.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.0	0.36	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1
Barium	60	B	1.0	0.12	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1
Cadmium	0.11	J	0.21	0.038	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1
Chromium	16		1.0	0.52	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1
Copper	16		1.0	0.29	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1
Lead	5.3		0.52	0.24	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1
Manganese	180		1.0	0.15	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1
Nickel	15		1.0	0.30	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1
Silver	0.72		0.52	0.13	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1
Zinc	31		2.1	0.92	mg/Kg	☼	09/18/25 09:12	09/20/25 03:40	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0071		0.017	0.0071	mg/Kg	☼	09/17/25 15:50	09/18/25 08:21	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-025_20250908
Date Collected: 09/08/25 17:05
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-10
Matrix: Solid
Percent Solids: 89.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		1.1	0.38	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1
Barium	61	B	1.1	0.13	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1
Cadmium	0.091	J	0.22	0.040	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1
Chromium	16		1.1	0.54	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1
Copper	14		1.1	0.31	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1
Lead	4.9		0.55	0.25	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1
Manganese	180		1.1	0.16	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1
Nickel	15		1.1	0.32	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1
Silver	0.80		0.55	0.14	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1
Zinc	32		2.2	0.97	mg/Kg	☼	09/18/25 09:12	09/20/25 03:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0072		0.018	0.0072	mg/Kg	☼	09/17/25 15:50	09/18/25 08:22	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-027_20250908
Date Collected: 09/08/25 17:25
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-11
Matrix: Solid
Percent Solids: 30.2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	28		3.0	1.0	mg/Kg	☼	09/18/25 09:12	09/20/25 03:58	1
Barium	330	B	3.0	0.34	mg/Kg	☼	09/18/25 09:12	09/20/25 03:58	1
Cadmium	8.1		0.60	0.11	mg/Kg	☼	09/18/25 09:12	09/20/25 03:58	1
Chromium	21		3.0	1.5	mg/Kg	☼	09/18/25 09:12	09/20/25 03:58	1
Copper	22000		30	8.4	mg/Kg	☼	09/18/25 09:12	09/22/25 18:00	10
Lead	110		15	6.9	mg/Kg	☼	09/18/25 09:12	09/22/25 18:00	10
Manganese	21000		30	4.3	mg/Kg	☼	09/18/25 09:12	09/22/25 18:00	10
Nickel	19		3.0	0.87	mg/Kg	☼	09/18/25 09:12	09/20/25 03:58	1
Selenium	11		3.0	1.8	mg/Kg	☼	09/18/25 09:12	09/20/25 03:58	1
Silver	47		15	3.9	mg/Kg	☼	09/18/25 09:12	09/22/25 18:00	10
Zinc	150		60	26	mg/Kg	☼	09/18/25 09:12	09/22/25 18:00	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.48		0.052	0.022	mg/Kg	☼	09/17/25 15:50	09/18/25 08:30	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-039_20250908
Date Collected: 09/08/25 17:40
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-12
Matrix: Solid
Percent Solids: 58.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.5		1.5	0.51	mg/Kg	☼	09/18/25 09:12	09/20/25 04:02	1
Barium	290	B	1.5	0.17	mg/Kg	☼	09/18/25 09:12	09/20/25 04:02	1
Cadmium	1.2		0.30	0.054	mg/Kg	☼	09/18/25 09:12	09/20/25 04:02	1
Chromium	41		1.5	0.74	mg/Kg	☼	09/18/25 09:12	09/20/25 04:02	1
Copper	530		1.5	0.42	mg/Kg	☼	09/18/25 09:12	09/20/25 04:02	1
Lead	13		0.75	0.35	mg/Kg	☼	09/18/25 09:12	09/20/25 04:02	1
Manganese	5000		7.5	1.1	mg/Kg	☼	09/18/25 09:12	09/22/25 18:05	5
Nickel	40		1.5	0.44	mg/Kg	☼	09/18/25 09:12	09/20/25 04:02	1
Selenium	2.5		1.5	0.88	mg/Kg	☼	09/18/25 09:12	09/20/25 04:02	1
Silver	7.4		3.8	0.97	mg/Kg	☼	09/18/25 09:12	09/22/25 18:05	5
Zinc	240		3.0	1.3	mg/Kg	☼	09/18/25 09:12	09/20/25 04:02	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.12		0.028	0.011	mg/Kg	☼	09/17/25 15:50	09/18/25 08:32	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-032_20250908
Date Collected: 09/08/25 18:10
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-13
Matrix: Solid
Percent Solids: 79.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		1.2	0.41	mg/Kg	☼	09/18/25 09:12	09/20/25 04:07	1
Barium	31	B	1.2	0.14	mg/Kg	☼	09/18/25 09:12	09/20/25 04:07	1
Cadmium	0.91		0.24	0.043	mg/Kg	☼	09/18/25 09:12	09/20/25 04:07	1
Chromium	13		1.2	0.59	mg/Kg	☼	09/18/25 09:12	09/20/25 04:07	1
Copper	2700		5.9	1.7	mg/Kg	☼	09/18/25 09:12	09/22/25 18:09	5
Lead	9.9		3.0	1.4	mg/Kg	☼	09/18/25 09:12	09/22/25 18:09	5
Manganese	100		1.2	0.17	mg/Kg	☼	09/18/25 09:12	09/20/25 04:07	1
Nickel	11		1.2	0.35	mg/Kg	☼	09/18/25 09:12	09/20/25 04:07	1
Selenium	<0.70		1.2	0.70	mg/Kg	☼	09/18/25 09:12	09/20/25 04:07	1
Silver	2.2		0.59	0.15	mg/Kg	☼	09/18/25 09:12	09/20/25 04:07	1
Zinc	31		12	5.2	mg/Kg	☼	09/18/25 09:12	09/22/25 18:09	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.020	0.0082	mg/Kg	☼	09/17/25 15:50	09/18/25 08:34	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-031_20250908
Date Collected: 09/08/25 18:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-14
Matrix: Solid
Percent Solids: 26.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		3.5	1.2	mg/Kg	☼	09/18/25 09:12	09/20/25 04:11	1
Barium	100	B	3.5	0.39	mg/Kg	☼	09/18/25 09:12	09/20/25 04:11	1
Cadmium	4.9		0.69	0.12	mg/Kg	☼	09/18/25 09:12	09/20/25 04:11	1
Chromium	5.4		3.5	1.7	mg/Kg	☼	09/18/25 09:12	09/20/25 04:11	1
Copper	7700		17	4.8	mg/Kg	☼	09/18/25 09:12	09/22/25 18:13	5
Lead	21		8.6	4.0	mg/Kg	☼	09/18/25 09:12	09/22/25 18:13	5
Manganese	120		3.5	0.50	mg/Kg	☼	09/18/25 09:12	09/20/25 04:11	1
Nickel	8.3		3.5	1.0	mg/Kg	☼	09/18/25 09:12	09/20/25 04:11	1
Selenium	<2.0		3.5	2.0	mg/Kg	☼	09/18/25 09:12	09/20/25 04:11	1
Silver	5.8		1.7	0.45	mg/Kg	☼	09/18/25 09:12	09/20/25 04:11	1
Zinc	51		35	15	mg/Kg	☼	09/18/25 09:12	09/22/25 18:13	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.18		0.060	0.025	mg/Kg	☼	09/17/25 15:50	09/18/25 08:36	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: DUP-05_20250908
Date Collected: 09/08/25 00:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-15
Matrix: Solid
Percent Solids: 84.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		1.1	0.39	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1
Barium	72	B	1.1	0.13	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1
Cadmium	0.36		0.23	0.041	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1
Chromium	21		1.1	0.56	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1
Copper	290		1.1	0.32	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1
Lead	8.1		0.57	0.26	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1
Manganese	250		1.1	0.16	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1
Nickel	22		1.1	0.33	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1
Silver	1.1		0.57	0.15	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1
Zinc	47		2.3	1.0	mg/Kg	☼	09/18/25 09:12	09/20/25 04:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.018	0.0073	mg/Kg	☼	09/17/25 15:50	09/18/25 08:42	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: DUP-06_20250908
Date Collected: 09/08/25 00:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-16
Matrix: Solid
Percent Solids: 89.4

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.7**		0.97	0.33	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1
Barium	**63**	**B**	0.97	0.11	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1
Cadmium	**0.095**	**J**	0.19	0.035	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1
Chromium	**15**		0.97	0.48	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1
Copper	**14**		0.97	0.27	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1
Lead	**6.6**		0.49	0.22	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1
Manganese	**200**		0.97	0.14	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1
Nickel	**17**		0.97	0.28	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1
Selenium	<0.57		0.97	0.57	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1
Silver	**0.87**		0.49	0.13	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1
Zinc	**31**		1.9	0.85	mg/Kg	☼	09/18/25 09:12	09/20/25 04:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0068		0.016	0.0068	mg/Kg	☼	09/17/25 15:50	09/18/25 08:44	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-003_20250909
Date Collected: 09/09/25 17:10
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-17
Matrix: Solid
Percent Solids: 84.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		1.1	0.37	mg/Kg	☼	09/18/25 09:12	09/20/25 04:25	1
Barium	49	B	1.1	0.12	mg/Kg	☼	09/18/25 09:12	09/20/25 04:25	1
Cadmium	1.4		0.21	0.039	mg/Kg	☼	09/18/25 09:12	09/20/25 04:25	1
Chromium	17		1.1	0.53	mg/Kg	☼	09/18/25 09:12	09/20/25 04:25	1
Copper	5500		11	3.0	mg/Kg	☼	09/18/25 09:12	09/22/25 18:18	10
Lead	21		5.4	2.5	mg/Kg	☼	09/18/25 09:12	09/22/25 18:18	10
Manganese	170		1.1	0.16	mg/Kg	☼	09/18/25 09:12	09/20/25 04:25	1
Nickel	17		1.1	0.31	mg/Kg	☼	09/18/25 09:12	09/20/25 04:25	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/18/25 09:12	09/20/25 04:25	1
Silver	3.4		0.54	0.14	mg/Kg	☼	09/18/25 09:12	09/20/25 04:25	1
Zinc	82		21	9.4	mg/Kg	☼	09/18/25 09:12	09/22/25 18:18	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0074	mg/Kg	☼	09/17/25 15:50	09/18/25 08:46	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-019_20250909
Date Collected: 09/09/25 13:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-18
Matrix: Solid
Percent Solids: 52.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		1.9	0.65	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1
Barium	85	B	1.9	0.22	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1
Cadmium	0.84		0.38	0.068	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1
Chromium	24		1.9	0.94	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1
Copper	860		1.9	0.53	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1
Lead	16		0.95	0.44	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1
Manganese	250		1.9	0.28	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1
Nickel	22		1.9	0.55	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1
Selenium	<1.1		1.9	1.1	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1
Silver	2.3		0.95	0.24	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1
Zinc	78		3.8	1.7	mg/Kg	☼	09/18/25 09:12	09/20/25 04:29	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.030	0.012	mg/Kg	☼	09/17/25 15:50	09/18/25 08:47	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-033_20250909
Date Collected: 09/09/25 11:15
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-19
Matrix: Solid
Percent Solids: 83.1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		1.2	0.41	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1
Barium	45	B	1.2	0.14	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1
Cadmium	0.39		0.24	0.043	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1
Chromium	14		1.2	0.59	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1
Copper	480		1.2	0.34	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1
Lead	9.6		0.60	0.28	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1
Manganese	160		1.2	0.17	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1
Nickel	12		1.2	0.35	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1
Selenium	<0.71		1.2	0.71	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1
Silver	1.2		0.60	0.15	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1
Zinc	30		2.4	1.1	mg/Kg	☼	09/18/25 09:12	09/20/25 04:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.019	0.0081	mg/Kg	☼	09/17/25 15:50	09/18/25 08:49	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-015_20250909
Date Collected: 09/09/25 15:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274549-20
Matrix: Solid
Percent Solids: 94.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		0.95	0.33	mg/Kg	☼	09/18/25 09:12	09/20/25 04:38	1
Barium	23	B	0.95	0.11	mg/Kg	☼	09/18/25 09:12	09/20/25 04:38	1
Cadmium	0.27		0.19	0.034	mg/Kg	☼	09/18/25 09:12	09/20/25 04:38	1
Chromium	5.4		0.95	0.47	mg/Kg	☼	09/18/25 09:12	09/20/25 04:38	1
Copper	620		0.95	0.27	mg/Kg	☼	09/18/25 09:12	09/20/25 04:38	1
Lead	2.9	J	4.8	2.2	mg/Kg	☼	09/18/25 09:12	09/22/25 18:22	10
Manganese	62		0.95	0.14	mg/Kg	☼	09/18/25 09:12	09/20/25 04:38	1
Nickel	3.9		0.95	0.28	mg/Kg	☼	09/18/25 09:12	09/20/25 04:38	1
Selenium	<0.56		0.95	0.56	mg/Kg	☼	09/18/25 09:12	09/20/25 04:38	1
Silver	0.98		0.48	0.12	mg/Kg	☼	09/18/25 09:12	09/20/25 04:38	1
Zinc	23		1.9	0.84	mg/Kg	☼	09/18/25 09:12	09/20/25 04:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0071	mg/Kg	☼	09/17/25 15:50	09/18/25 08:51	1

Client: White Pine Copper LLC
Job ID: 500-274549-1
Project/Site: White Pine Copper Soils

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 834378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274549-1	SS-005_20250908	Total/NA	Solid	7471B	
500-274549-2	SS-002_20250908	Total/NA	Solid	7471B	
500-274549-3	SS-004_20250908	Total/NA	Solid	7471B	
500-274549-4	SS-006_20250908	Total/NA	Solid	7471B	
500-274549-5	SS-011_20250908	Total/NA	Solid	7471B	
500-274549-6	SS-013_20250908	Total/NA	Solid	7471B	
500-274549-7	SS-017_20250908	Total/NA	Solid	7471B	
500-274549-8	SS-055_20250908	Total/NA	Solid	7471B	
500-274549-9	SS-050_20250908	Total/NA	Solid	7471B	
500-274549-10	SS-025_20250908	Total/NA	Solid	7471B	
500-274549-11	SS-027_20250908	Total/NA	Solid	7471B	
500-274549-12	SS-039_20250908	Total/NA	Solid	7471B	
500-274549-13	SS-032_20250908	Total/NA	Solid	7471B	
500-274549-14	SS-031_20250908	Total/NA	Solid	7471B	
500-274549-15	DUP-05_20250908	Total/NA	Solid	7471B	
500-274549-16	DUP-06_20250908	Total/NA	Solid	7471B	
500-274549-17	SS-003_20250909	Total/NA	Solid	7471B	
500-274549-18	SS-019_20250909	Total/NA	Solid	7471B	
500-274549-19	SS-033_20250909	Total/NA	Solid	7471B	
500-274549-20	SS-015_20250909	Total/NA	Solid	7471B	
MB 500-834378/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-834378/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-274549-10 MS	SS-025_20250908	Total/NA	Solid	7471B	
500-274549-10 MSD	SS-025_20250908	Total/NA	Solid	7471B	
500-274549-10 DU	SS-025_20250908	Total/NA	Solid	7471B	

Prep Batch: 834541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274549-1	SS-005_20250908	Total/NA	Solid	3050B	
500-274549-2	SS-002_20250908	Total/NA	Solid	3050B	
500-274549-3	SS-004_20250908	Total/NA	Solid	3050B	
500-274549-4	SS-006_20250908	Total/NA	Solid	3050B	
500-274549-5	SS-011_20250908	Total/NA	Solid	3050B	
500-274549-6	SS-013_20250908	Total/NA	Solid	3050B	
500-274549-7	SS-017_20250908	Total/NA	Solid	3050B	
500-274549-8	SS-055_20250908	Total/NA	Solid	3050B	
500-274549-9	SS-050_20250908	Total/NA	Solid	3050B	
500-274549-10	SS-025_20250908	Total/NA	Solid	3050B	
500-274549-11	SS-027_20250908	Total/NA	Solid	3050B	
500-274549-12	SS-039_20250908	Total/NA	Solid	3050B	
500-274549-13	SS-032_20250908	Total/NA	Solid	3050B	
500-274549-14	SS-031_20250908	Total/NA	Solid	3050B	
500-274549-15	DUP-05_20250908	Total/NA	Solid	3050B	
500-274549-16	DUP-06_20250908	Total/NA	Solid	3050B	
500-274549-17	SS-003_20250909	Total/NA	Solid	3050B	
500-274549-18	SS-019_20250909	Total/NA	Solid	3050B	
500-274549-19	SS-033_20250909	Total/NA	Solid	3050B	
500-274549-20	SS-015_20250909	Total/NA	Solid	3050B	
MB 500-834541/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-834541/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-274549-1 MS	SS-005_20250908	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 834541 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274549-1 MSD	SS-005_20250908	Total/NA	Solid	3050B	
500-274549-1 DU	SS-005_20250908	Total/NA	Solid	3050B	

Analysis Batch: 834579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274549-1	SS-005_20250908	Total/NA	Solid	7471B	834378
500-274549-2	SS-002_20250908	Total/NA	Solid	7471B	834378
500-274549-3	SS-004_20250908	Total/NA	Solid	7471B	834378
500-274549-4	SS-006_20250908	Total/NA	Solid	7471B	834378
500-274549-5	SS-011_20250908	Total/NA	Solid	7471B	834378
500-274549-6	SS-013_20250908	Total/NA	Solid	7471B	834378
500-274549-7	SS-017_20250908	Total/NA	Solid	7471B	834378
500-274549-8	SS-055_20250908	Total/NA	Solid	7471B	834378
500-274549-9	SS-050_20250908	Total/NA	Solid	7471B	834378
500-274549-10	SS-025_20250908	Total/NA	Solid	7471B	834378
500-274549-11	SS-027_20250908	Total/NA	Solid	7471B	834378
500-274549-12	SS-039_20250908	Total/NA	Solid	7471B	834378
500-274549-13	SS-032_20250908	Total/NA	Solid	7471B	834378
500-274549-14	SS-031_20250908	Total/NA	Solid	7471B	834378
500-274549-15	DUP-05_20250908	Total/NA	Solid	7471B	834378
500-274549-16	DUP-06_20250908	Total/NA	Solid	7471B	834378
500-274549-17	SS-003_20250909	Total/NA	Solid	7471B	834378
500-274549-18	SS-019_20250909	Total/NA	Solid	7471B	834378
500-274549-19	SS-033_20250909	Total/NA	Solid	7471B	834378
500-274549-20	SS-015_20250909	Total/NA	Solid	7471B	834378
MB 500-834378/12-A	Method Blank	Total/NA	Solid	7471B	834378
LCS 500-834378/13-A	Lab Control Sample	Total/NA	Solid	7471B	834378
500-274549-10 MS	SS-025_20250908	Total/NA	Solid	7471B	834378
500-274549-10 MSD	SS-025_20250908	Total/NA	Solid	7471B	834378
500-274549-10 DU	SS-025_20250908	Total/NA	Solid	7471B	834378

Analysis Batch: 834931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274549-1	SS-005_20250908	Total/NA	Solid	6010D	834541
500-274549-2	SS-002_20250908	Total/NA	Solid	6010D	834541
500-274549-3	SS-004_20250908	Total/NA	Solid	6010D	834541
500-274549-4	SS-006_20250908	Total/NA	Solid	6010D	834541
500-274549-5	SS-011_20250908	Total/NA	Solid	6010D	834541
500-274549-6	SS-013_20250908	Total/NA	Solid	6010D	834541
500-274549-7	SS-017_20250908	Total/NA	Solid	6010D	834541
500-274549-8	SS-055_20250908	Total/NA	Solid	6010D	834541
500-274549-9	SS-050_20250908	Total/NA	Solid	6010D	834541
500-274549-10	SS-025_20250908	Total/NA	Solid	6010D	834541
500-274549-11	SS-027_20250908	Total/NA	Solid	6010D	834541
500-274549-12	SS-039_20250908	Total/NA	Solid	6010D	834541
500-274549-13	SS-032_20250908	Total/NA	Solid	6010D	834541
500-274549-14	SS-031_20250908	Total/NA	Solid	6010D	834541
500-274549-15	DUP-05_20250908	Total/NA	Solid	6010D	834541
500-274549-16	DUP-06_20250908	Total/NA	Solid	6010D	834541
500-274549-17	SS-003_20250909	Total/NA	Solid	6010D	834541
500-274549-18	SS-019_20250909	Total/NA	Solid	6010D	834541

Metals (Continued)

Analysis Batch: 834931 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274549-19	SS-033_20250909	Total/NA	Solid	6010D	834541
500-274549-20	SS-015_20250909	Total/NA	Solid	6010D	834541
MB 500-834541/1-A	Method Blank	Total/NA	Solid	6010D	834541
LCS 500-834541/2-A	Lab Control Sample	Total/NA	Solid	6010D	834541
500-274549-1 MS	SS-005_20250908	Total/NA	Solid	6010D	834541
500-274549-1 MSD	SS-005_20250908	Total/NA	Solid	6010D	834541
500-274549-1 DU	SS-005_20250908	Total/NA	Solid	6010D	834541

Analysis Batch: 835174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274549-1	SS-005_20250908	Total/NA	Solid	6010D	834541
500-274549-11	SS-027_20250908	Total/NA	Solid	6010D	834541
500-274549-12	SS-039_20250908	Total/NA	Solid	6010D	834541
500-274549-13	SS-032_20250908	Total/NA	Solid	6010D	834541
500-274549-14	SS-031_20250908	Total/NA	Solid	6010D	834541
500-274549-17	SS-003_20250909	Total/NA	Solid	6010D	834541
500-274549-20	SS-015_20250909	Total/NA	Solid	6010D	834541
500-274549-1 MS	SS-005_20250908	Total/NA	Solid	6010D	834541
500-274549-1 MSD	SS-005_20250908	Total/NA	Solid	6010D	834541
500-274549-1 DU	SS-005_20250908	Total/NA	Solid	6010D	834541

General Chemistry

Analysis Batch: 833932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274549-1	SS-005_20250908	Total/NA	Solid	Moisture	
500-274549-2	SS-002_20250908	Total/NA	Solid	Moisture	
500-274549-3	SS-004_20250908	Total/NA	Solid	Moisture	
500-274549-4	SS-006_20250908	Total/NA	Solid	Moisture	
500-274549-5	SS-011_20250908	Total/NA	Solid	Moisture	
500-274549-6	SS-013_20250908	Total/NA	Solid	Moisture	
500-274549-7	SS-017_20250908	Total/NA	Solid	Moisture	
500-274549-8	SS-055_20250908	Total/NA	Solid	Moisture	
500-274549-9	SS-050_20250908	Total/NA	Solid	Moisture	
500-274549-10	SS-025_20250908	Total/NA	Solid	Moisture	
500-274549-11	SS-027_20250908	Total/NA	Solid	Moisture	
500-274549-12	SS-039_20250908	Total/NA	Solid	Moisture	
500-274549-13	SS-032_20250908	Total/NA	Solid	Moisture	
500-274549-14	SS-031_20250908	Total/NA	Solid	Moisture	
500-274549-15	DUP-05_20250908	Total/NA	Solid	Moisture	
500-274549-16	DUP-06_20250908	Total/NA	Solid	Moisture	

Analysis Batch: 833943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274549-17	SS-003_20250909	Total/NA	Solid	Moisture	
500-274549-18	SS-019_20250909	Total/NA	Solid	Moisture	
500-274549-19	SS-033_20250909	Total/NA	Solid	Moisture	
500-274549-20	SS-015_20250909	Total/NA	Solid	Moisture	
500-274549-17 DU	SS-003_20250909	Total/NA	Solid	Moisture	

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-834541/1-A
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/18/25 09:12	09/20/25 02:29	1
Barium	0.865	J	1.0	0.11	mg/Kg		09/18/25 09:12	09/20/25 02:29	1
Cadmium	<0.036		0.20	0.036	mg/Kg		09/18/25 09:12	09/20/25 02:29	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/18/25 09:12	09/20/25 02:29	1
Copper	<0.28		1.0	0.28	mg/Kg		09/18/25 09:12	09/20/25 02:29	1
Lead	<0.23		0.50	0.23	mg/Kg		09/18/25 09:12	09/20/25 02:29	1
Manganese	<0.15		1.0	0.15	mg/Kg		09/18/25 09:12	09/20/25 02:29	1
Nickel	<0.29		1.0	0.29	mg/Kg		09/18/25 09:12	09/20/25 02:29	1
Selenium	<0.59		1.0	0.59	mg/Kg		09/18/25 09:12	09/20/25 02:29	1
Silver	<0.13		0.50	0.13	mg/Kg		09/18/25 09:12	09/20/25 02:29	1
Zinc	<0.88		2.0	0.88	mg/Kg		09/18/25 09:12	09/20/25 02:29	1

Lab Sample ID: LCS 500-834541/2-A
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.93		mg/Kg		99	80 - 120
Barium	200	197		mg/Kg		99	80 - 120
Cadmium	5.00	4.56		mg/Kg		91	80 - 120
Chromium	20.0	18.7		mg/Kg		94	80 - 120
Copper	25.0	24.5		mg/Kg		98	80 - 120
Lead	10.0	10.3		mg/Kg		103	80 - 120
Manganese	50.0	49.3		mg/Kg		99	80 - 120
Nickel	50.0	50.8		mg/Kg		102	80 - 120
Selenium	10.0	9.66		mg/Kg		97	80 - 120
Silver	5.00	4.64		mg/Kg		93	80 - 120
Zinc	50.0	47.3		mg/Kg		95	80 - 120

Lab Sample ID: 500-274549-1 MS
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: SS-005_20250908
Prep Type: Total/NA
Prep Batch: 834541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	5.6	F1	10.7	14.3		mg/Kg	☼	81	75 - 125
Barium	58	B	213	271		mg/Kg	☼	100	75 - 125
Cadmium	0.91		5.34	5.26		mg/Kg	☼	82	75 - 125
Chromium	19		21.3	39.5		mg/Kg	☼	97	75 - 125
Manganese	130	F1	53.4	177		mg/Kg	☼	90	75 - 125
Nickel	15		53.4	72.8		mg/Kg	☼	108	75 - 125
Selenium	<0.64		10.7	9.27		mg/Kg	☼	87	75 - 125
Silver	1.9	F1	5.34	5.99		mg/Kg	☼	77	75 - 125

Lab Sample ID: 500-274549-1 MS
Matrix: Solid
Analysis Batch: 835174

Client Sample ID: SS-005_20250908
Prep Type: Total/NA
Prep Batch: 834541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	2600	F2	26.7	1440	4	mg/Kg	☼	-4403	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-274549-1 MS
Matrix: Solid
Analysis Batch: 835174

Client Sample ID: SS-005_20250908
Prep Type: Total/NA
Prep Batch: 834541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	9.8		10.7	20.5		mg/Kg	☼	100	75 - 125
Zinc	32		53.4	88.5		mg/Kg	☼	105	75 - 125

Lab Sample ID: 500-274549-1 MSD
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: SS-005_20250908
Prep Type: Total/NA
Prep Batch: 834541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	5.6	F1	11.1	13.1	F1	mg/Kg	☼	67	75 - 125	9	20
Barium	58	B	222	293		mg/Kg	☼	106	75 - 125	8	20
Cadmium	0.91		5.56	5.14		mg/Kg	☼	76	75 - 125	2	20
Chromium	19		22.2	42.0		mg/Kg	☼	104	75 - 125	6	20
Manganese	130	F1	55.6	168	F1	mg/Kg	☼	71	75 - 125	5	20
Nickel	15		55.6	74.8		mg/Kg	☼	107	75 - 125	3	20
Selenium	<0.64		11.1	9.21		mg/Kg	☼	83	75 - 125	1	20
Silver	1.9	F1	5.56	5.73	F1	mg/Kg	☼	69	75 - 125	4	20

Lab Sample ID: 500-274549-1 MSD
Matrix: Solid
Analysis Batch: 835174

Client Sample ID: SS-005_20250908
Prep Type: Total/NA
Prep Batch: 834541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	2600	F2	27.8	743	4 F2	mg/Kg	☼	-6747	75 - 125	64	20
Lead	9.8		11.1	19.8		mg/Kg	☼	90	75 - 125	3	20
Zinc	32		55.6	83.8		mg/Kg	☼	92	75 - 125	6	20

Lab Sample ID: 500-274549-1 DU
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: SS-005_20250908
Prep Type: Total/NA
Prep Batch: 834541

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	5.6	F1	5.26		mg/Kg	☼	7	20
Barium	58	B	52.9		mg/Kg	☼	9	20
Cadmium	0.91		0.751		mg/Kg	☼	19	20
Chromium	19		18.5		mg/Kg	☼	2	20
Manganese	130	F1	150		mg/Kg	☼	15	20
Nickel	15		14.9		mg/Kg	☼	3	20
Selenium	<0.64		<0.60		mg/Kg	☼	NC	20
Silver	1.9	F1	1.65		mg/Kg	☼	13	20

Lab Sample ID: 500-274549-1 DU
Matrix: Solid
Analysis Batch: 835174

Client Sample ID: SS-005_20250908
Prep Type: Total/NA
Prep Batch: 834541

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Copper	2600	F2	2460		mg/Kg	☼	6	20
Lead	9.8		8.72		mg/Kg	☼	12	20
Zinc	32		35.3		mg/Kg	☼	8	20

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-834378/12-A
Matrix: Solid
Analysis Batch: 834579

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834378

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		09/17/25 15:50	09/18/25 07:59	1

Lab Sample ID: LCS 500-834378/13-A
Matrix: Solid
Analysis Batch: 834579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834378

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.167	0.167		mg/Kg		100	80 - 120		

Lab Sample ID: 500-274549-10 MS
Matrix: Solid
Analysis Batch: 834579

Client Sample ID: SS-025_20250908
Prep Type: Total/NA
Prep Batch: 834378

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	<0.0072		0.0859	0.106		mg/Kg	☼	124	75 - 125		

Lab Sample ID: 500-274549-10 MSD
Matrix: Solid
Analysis Batch: 834579

Client Sample ID: SS-025_20250908
Prep Type: Total/NA
Prep Batch: 834378

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.0072		0.0870	0.102		mg/Kg	☼	117	75 - 125	4	20

Lab Sample ID: 500-274549-10 DU
Matrix: Solid
Analysis Batch: 834579

Client Sample ID: SS-025_20250908
Prep Type: Total/NA
Prep Batch: 834378

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.0072		<0.0071		mg/Kg	☼	NC	20

Client Sample ID: SS-005_20250908 — **Lab Sample ID: 500-274549-1**
Date Collected: 09/08/25 09:35 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-005_20250908 — **Lab Sample ID: 500-274549-1**
Date Collected: 09/08/25 09:35 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 83.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 02:38
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		5	835174	S1Z	EET CHI	09/22/25 17:30
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:03

Client Sample ID: SS-002_20250908 — **Lab Sample ID: 500-274549-2**
Date Collected: 09/08/25 09:00 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-002_20250908 — **Lab Sample ID: 500-274549-2**
Date Collected: 09/08/25 09:00 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 03:09
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:05

Client Sample ID: SS-004_20250908 — **Lab Sample ID: 500-274549-3**
Date Collected: 09/08/25 09:15 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-004_20250908 — **Lab Sample ID: 500-274549-3**
Date Collected: 09/08/25 09:15 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 88.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 03:13

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-004_20250908

Lab Sample ID: 500-274549-3
Date Collected: 09/08/25 09:15
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:07

Client Sample ID: SS-006_20250908

Lab Sample ID: 500-274549-4
Date Collected: 09/08/25 09:50
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-006_20250908

Lab Sample ID: 500-274549-4
Date Collected: 09/08/25 09:50
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 74.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 03:18
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:09

Client Sample ID: SS-011_20250908

Lab Sample ID: 500-274549-5
Date Collected: 09/08/25 10:10
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-011_20250908

Lab Sample ID: 500-274549-5
Date Collected: 09/08/25 10:10
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 03:22
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:10

Client Sample ID: SS-013_20250908

Lab Sample ID: 500-274549-6
Date Collected: 09/08/25 10:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-013_20250908

Lab Sample ID: 500-274549-6
Date Collected: 09/08/25 10:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 90.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 03:26
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:12

Client Sample ID: SS-017_20250908

Lab Sample ID: 500-274549-7
Date Collected: 09/08/25 11:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-017_20250908

Lab Sample ID: 500-274549-7
Date Collected: 09/08/25 11:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 03:31
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:14

Client Sample ID: SS-055_20250908

Lab Sample ID: 500-274549-8
Date Collected: 09/08/25 12:45
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-055_20250908

Lab Sample ID: 500-274549-8
Date Collected: 09/08/25 12:45
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 84.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 03:36
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:19

Client Sample ID: SS-050_20250908

Lab Sample ID: 500-274549-9
Date Collected: 09/08/25 13:20
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-050_20250908

Lab Sample ID: 500-274549-9
Date Collected: 09/08/25 13:20
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 03:40
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:21

Client Sample ID: SS-025_20250908

Lab Sample ID: 500-274549-10
Date Collected: 09/08/25 17:05
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-025_20250908

Lab Sample ID: 500-274549-10
Date Collected: 09/08/25 17:05
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 03:45
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:22

Client Sample ID: SS-027_20250908

Lab Sample ID: 500-274549-11
Date Collected: 09/08/25 17:25
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-027_20250908

Lab Sample ID: 500-274549-11
Date Collected: 09/08/25 17:25
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 30.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 03:58
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		10	835174	S1Z	EET CHI	09/22/25 18:00
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:30

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-039_20250908 — **Lab Sample ID: 500-274549-12**
Date Collected: 09/08/25 17:40 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-039_20250908 — **Lab Sample ID: 500-274549-12**
Date Collected: 09/08/25 17:40 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 58.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 04:02
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		5	835174	S1Z	EET CHI	09/22/25 18:05
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:32

Client Sample ID: SS-032_20250908 — **Lab Sample ID: 500-274549-13**
Date Collected: 09/08/25 18:10 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: SS-032_20250908 — **Lab Sample ID: 500-274549-13**
Date Collected: 09/08/25 18:10 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 79.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 04:07
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		5	835174	S1Z	EET CHI	09/22/25 18:09
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:34

Client Sample ID: SS-031_20250908 — **Lab Sample ID: 500-274549-14**
Date Collected: 09/08/25 18:30 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-031_20250908

Lab Sample ID: 500-274549-14

Date Collected: 09/08/25 18:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 26.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 04:11
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		5	835174	S1Z	EET CHI	09/22/25 18:13
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:36

Client Sample ID: DUP-05_20250908

Lab Sample ID: 500-274549-15

Date Collected: 09/08/25 00:00
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: DUP-05_20250908

Lab Sample ID: 500-274549-15

Date Collected: 09/08/25 00:00
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 04:16
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:42

Client Sample ID: DUP-06_20250908

Lab Sample ID: 500-274549-16

Date Collected: 09/08/25 00:00
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833932	RB	EET CHI	09/15/25 10:03

Client Sample ID: DUP-06_20250908

Lab Sample ID: 500-274549-16

Date Collected: 09/08/25 00:00
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 04:20
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:44

Client Sample ID: SS-003_20250909 — **Lab Sample ID: 500-274549-17**
Date Collected: 09/09/25 17:10 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-003_20250909 — **Lab Sample ID: 500-274549-17**
Date Collected: 09/09/25 17:10 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 84.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 04:25
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		10	835174	S1Z	EET CHI	09/22/25 18:18
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:46

Client Sample ID: SS-019_20250909 — **Lab Sample ID: 500-274549-18**
Date Collected: 09/09/25 13:30 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-019_20250909 — **Lab Sample ID: 500-274549-18**
Date Collected: 09/09/25 13:30 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 52.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 04:29
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:47

Client Sample ID: SS-033_20250909 — **Lab Sample ID: 500-274549-19**
Date Collected: 09/09/25 11:15 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-033_20250909 — **Lab Sample ID: 500-274549-19**
Date Collected: 09/09/25 11:15 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 83.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 04:34

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Client Sample ID: SS-033_20250909

Lab Sample ID: 500-274549-19

Date Collected: 09/09/25 11:15
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:49

Client Sample ID: SS-015_20250909

Lab Sample ID: 500-274549-20

Date Collected: 09/09/25 15:45
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-015_20250909

Lab Sample ID: 500-274549-20

Date Collected: 09/09/25 15:45
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 94.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 04:38
Total/NA	Prep	3050B			834541	BDE	EET CHI	09/18/25 09:12 - 09/18/25 15:12 [1]
Total/NA	Analysis	6010D		10	835174	S1Z	EET CHI	09/22/25 18:22
Total/NA	Prep	7471B			834378	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:51

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274549-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-26
Georgia (DW)	State	939	05-31-26
Illinois	NELAP	100201	05-31-26
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-26
Kentucky (WW)	State	KY90023	12-31-25
Louisiana (All)	NELAP	02046	06-30-26
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	12-31-25
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	12-31-25
South Carolina	State	77001003	05-31-26
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	399172840	08-31-26
Wyoming	State	8TMS-Q	05-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708 534-5200 Fax 708 534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: Logan Carpenter, Justin Brown	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-140483-53677 8
Client Contact: Amanda Zeidler	Phone:	E-Mail: Sandra Fredrick@et.eurofinsus com	State of Origin	Page: Page 8 of 13
Company: White Pine Copper LLC	PWSID			Job #: 500-224549

Address: 35362 Mall Circle Drive	Due Date Requested	
City: White Pine	TAT Requested (days)	
State Zip: MI 49971	Compliance Project: Δ Yes Δ No	
Phone	PO #: Purchase Order not required	
Email: AZeidler@whitepinecu com	WO #	
Project Name: ~~Copper~~ White Pine ~~Cooper~~ Soils	Project #: 50025458	
Site	SSOW#	

500-274549 COC

Analysis Requested

Preservation Codes: N None; D HNO3

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D 7471B	6020B 7470A	Total Number of containers	Special Instructions/Note
			Preservation Code				N	D		
1 SS-005_20250908	9/8/25	09:35	G	Solid	N	N	✓			
2 SS-002_20250908	9/8/25	09:00	G	Solid	N	N	✓			
3 SS-004_20250908	9/8/25	09:15	G	Solid	N	N	✓			
4 SS-006_20250908	9/8/25	09:50	G	Solid	N	N	✓			
5 SS-011_20250908	9/8/25	10:10	G	Solid	N	N	✓			
6 SS-013_20250908	9/8/25	10:30	G	Solid	N	N	✓			
~~SS-001_20250908~~ (on another COC sheet)	~~9/8/25~~	~~10:50~~	~~G~~	~~Solid~~	N	N				
~~SS-016_20250908~~ (on another COC sheet)	~~9/8/25~~	~~11:15~~	~~G~~	~~Solid~~	N	N				
7 SS-017_20250908	9/8/25	11:30	G	Solid	N	N	✓			
8 SS-055_20250908	9/8/25	12:45	G	Solid	N	N	✓			
9 SS-050_20250908	9/8/25	13:20	G	Solid	N	N	✓			

Other:

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Justin Brown	9/11/25 1200	EGH		9/12/25 0900	ECTA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		5.8→5.6, 4.2→4.0, 5.8→5.0, 6.0→5.8, 5.9→5.7

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708 534 5200 Fax 708 534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Logan Carpenter, Justin Brown	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500 140483 53677 9
Client Contact: Amanda Zeidler	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin:	Page: Page 9 of 13
Company: White Pine Copper LLC	PWSID:			Job #: 500-274549
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days):			
State Zip: MI 49971	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine Copper Soils	Project #: 50025458			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N None; D HNO3

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D 7471B (N)	6020B, 7470A (D)	Total Number of containers	Special Instructions/Note
			Preservation Code				N	D		
10 SS-025_20250908	9/8/25	17:05	G	Solid	N	N	✓			
11 SS-027_20250908	9/8/25	17:25	G	Solid	N	N	✓			
12 SS-039_20250908	9/8/25	17:40	G	Solid	N	N	✓			
13 SS-032_20250908	9/8/25	18:10	G	Solid	N	N	✓			
14 SS-031_20250908	9/8/25	18:30	G	Solid	N	N	✓			
15 DUP-05_20250908	9/8/25		G	Solid	N	N	✓			
16 DUP-06_20250908	9/8/25		G	Solid	N	N	✓			
17 SS-003_20250909	9/9/25	17:10	G	Solid	N	N	✓			
18 SS-019_20250909	9/9/25	13:30	G	Solid	N	N	✓			
19 SS-033_20250909	9/9/25	11:15	G	Solid	N	N	✓			
20 SS-015_20250909	9/9/25	15:45	G	Solid	N	N	✓			

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Justin Brown	9/11/25 1600	ZOH		9/12/25 0900	BETA
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-274549-1

Login Number: 274549

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6,4.0,5.0,5.8,5.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 9/23/2025 4:13:17 PM

JOB DESCRIPTION

White Pine Copper Soils

JOB NUMBER

500-274551-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Eurofins Chicago

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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9/23/2025 4:13:17 PM

Authorized for release by
Sandie Fredrick, Senior Project Manager
Sandra.Fredrick@et.eurofinsus.com
(920)261-1660

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Job Narrative
500-274551-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/12/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 4.0°C, 5.0°C, 5.6°C, 5.7°C and 5.8°C.

Metals
Method 6010D: The method blank for preparation batch 500-834596 and analytical batch 500-835173 contained Cadmium above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010D: The following samples were diluted due to the abundance of non-target analytes: SS-030_20250909 (500-274551-3), SS-007_20250909 (500-274551-4), SS-022_20250909 (500-274551-8) and SS-014_20250909 (500-274551-9). Elevated reporting limits (RLs) are provided.

Method 6010D: The following samples were diluted to bring the concentration of target analytes within the calibration range: SS-012_20250909 (500-274551-6), SS-024_20250909 (500-274551-7), SS-029_20250909 (500-274551-11), SS-023_20250909 (500-274551-13), SS-009_20250909 (500-274551-15) and SS-026_20250909 (500-274551-16). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-020_20250909 — Lab Sample ID: 500-274551-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	82		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.17	J B	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	20		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	90		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	8.4		0.53	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	260		1.1	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	21		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.86		0.53	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	37		2.1	0.93	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.011	J	0.019	0.0078	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-035_20250909 — Lab Sample ID: 500-274551-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.8		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	30		1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.28	B	0.21	0.037	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.5		1.0	0.51	mg/Kg	1	☼	6010D	Total/NA
Copper	200		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	6.5		0.52	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	190		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	8.4		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	0.56		0.52	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	29		2.1	0.91	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.019		0.019	0.0079	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-030_20250909 — Lab Sample ID: 500-274551-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		1.4	0.48	mg/Kg	1	☼	6010D	Total/NA
Barium	31		1.4	0.16	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.94	B	0.28	0.050	mg/Kg	1	☼	6010D	Total/NA
Chromium	6.8		1.4	0.69	mg/Kg	1	☼	6010D	Total/NA
Copper	2900		70	20	mg/Kg	50	☼	6010D	Total/NA
Manganese	90		1.4	0.20	mg/Kg	1	☼	6010D	Total/NA
Nickel	3.9		1.4	0.41	mg/Kg	1	☼	6010D	Total/NA
Silver	0.80		0.70	0.18	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.032		0.023	0.0096	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-007_20250909 — Lab Sample ID: 500-274551-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		3.7	1.3	mg/Kg	1	☼	6010D	Total/NA
Barium	130		3.7	0.42	mg/Kg	1	☼	6010D	Total/NA
Cadmium	5.8	B	0.74	0.13	mg/Kg	1	☼	6010D	Total/NA
Chromium	37		3.7	1.8	mg/Kg	1	☼	6010D	Total/NA
Copper	9400		190	52	mg/Kg	50	☼	6010D	Total/NA
Manganese	1500		3.7	0.54	mg/Kg	1	☼	6010D	Total/NA
Nickel	35		3.7	1.1	mg/Kg	1	☼	6010D	Total/NA
Silver	5.9		1.9	0.48	mg/Kg	1	☼	6010D	Total/NA
Zinc	160	J	370	160	mg/Kg	50	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-007_20250909 (Continued) — Lab Sample ID: 500-274551-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.091		0.066	0.027	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-040_20250909 — Lab Sample ID: 500-274551-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Barium	68		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.26	B	0.22	0.040	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.1	0.55	mg/Kg	1	☼	6010D	Total/NA
Copper	32		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Lead	5.7		0.56	0.26	mg/Kg	1	☼	6010D	Total/NA
Manganese	300		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	19		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Silver	0.87		0.56	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	35		2.2	0.98	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.014	J	0.018	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-012_20250909 — Lab Sample ID: 500-274551-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	60		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.37	B	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	16		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	1000		5.3	1.5	mg/Kg	5	☼	6010D	Total/NA
Lead	11		2.7	1.2	mg/Kg	5	☼	6010D	Total/NA
Manganese	220		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	19		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	1.0		0.53	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	67		11	4.7	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.037		0.019	0.0079	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-024_20250909 — Lab Sample ID: 500-274551-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.2		1.1	0.38	mg/Kg	1	☼	6010D	Total/NA
Barium	64		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.41	B	0.22	0.040	mg/Kg	1	☼	6010D	Total/NA
Chromium	18		1.1	0.54	mg/Kg	1	☼	6010D	Total/NA
Copper	3500		55	15	mg/Kg	50	☼	6010D	Total/NA
Lead	51		28	13	mg/Kg	50	☼	6010D	Total/NA
Manganese	220		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Silver	0.76		0.55	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	460		110	48	mg/Kg	50	☼	6010D	Total/NA

Client Sample ID: SS-022_20250909 — Lab Sample ID: 500-274551-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		1.4	0.49	mg/Kg	1	☼	6010D	Total/NA
Barium	40		1.4	0.16	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.6	B	0.29	0.051	mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.4	0.71	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-022_20250909 (Continued) — Lab Sample ID: 500-274551-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	6800		71	20	mg/Kg	50	☼	6010D	Total/NA
Manganese	200		1.4	0.21	mg/Kg	1	☼	6010D	Total/NA
Nickel	14		1.4	0.42	mg/Kg	1	☼	6010D	Total/NA
Silver	4.0		0.71	0.18	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.047		0.024	0.0098	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-014_20250909 — Lab Sample ID: 500-274551-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	66		1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	1.4	B	0.20	0.036	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		1.0	0.50	mg/Kg	1	☼	6010D	Total/NA
Copper	3600		51	14	mg/Kg	50	☼	6010D	Total/NA
Manganese	280		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	21		1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Silver	2.2		0.51	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	54	J	100	44	mg/Kg	50	☼	6010D	Total/NA
Mercury	0.019		0.018	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-008_20250909 — Lab Sample ID: 500-274551-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.2		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	98		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.13	J B	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	13		1.1	0.52	mg/Kg	1	☼	6010D	Total/NA
Copper	30		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	6.3		0.53	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	240		1.1	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	21		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.69		0.53	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	32		2.1	0.93	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.0082	J	0.017	0.0071	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-029_20250909 — Lab Sample ID: 500-274551-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4	J	3.6	1.2	mg/Kg	1	☼	6010D	Total/NA
Barium	52		3.6	0.41	mg/Kg	1	☼	6010D	Total/NA
Cadmium	15	B	0.71	0.13	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.0		3.6	1.8	mg/Kg	1	☼	6010D	Total/NA
Copper	3300		18	5.0	mg/Kg	5	☼	6010D	Total/NA
Lead	11		8.9	4.1	mg/Kg	5	☼	6010D	Total/NA
Manganese	310		3.6	0.52	mg/Kg	1	☼	6010D	Total/NA
Nickel	11		3.6	1.0	mg/Kg	1	☼	6010D	Total/NA
Silver	4.5		1.8	0.46	mg/Kg	1	☼	6010D	Total/NA
Zinc	100		36	16	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.16		0.063	0.026	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-010_20250909 — Lab Sample ID: 500-274551-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7		1.1	0.36	mg/Kg	1	☼	6010D	Total/NA
Barium	77		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.13	J B	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	27		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	5.1		0.53	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	210		1.1	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.65		0.53	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	26		2.1	0.93	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-023_20250909 — Lab Sample ID: 500-274551-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.3		1.2	0.40	mg/Kg	1	☼	6010D	Total/NA
Barium	32		1.2	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.36	B	0.23	0.042	mg/Kg	1	☼	6010D	Total/NA
Chromium	14		1.2	0.58	mg/Kg	1	☼	6010D	Total/NA
Copper	800		5.8	1.6	mg/Kg	5	☼	6010D	Total/NA
Lead	6.7		2.9	1.3	mg/Kg	5	☼	6010D	Total/NA
Manganese	130		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	13		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Silver	0.50	J	0.58	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	30		12	5.1	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.016	J	0.019	0.0079	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-018_20250909 — Lab Sample ID: 500-274551-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.1	0.37	mg/Kg	1	☼	6010D	Total/NA
Barium	75		1.1	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.10	J B	0.21	0.038	mg/Kg	1	☼	6010D	Total/NA
Chromium	12		1.1	0.53	mg/Kg	1	☼	6010D	Total/NA
Copper	11		1.1	0.30	mg/Kg	1	☼	6010D	Total/NA
Lead	5.3		0.53	0.25	mg/Kg	1	☼	6010D	Total/NA
Manganese	220		1.1	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	17		1.1	0.31	mg/Kg	1	☼	6010D	Total/NA
Silver	0.64		0.53	0.14	mg/Kg	1	☼	6010D	Total/NA
Zinc	27		2.1	0.94	mg/Kg	1	☼	6010D	Total/NA

Client Sample ID: SS-009_20250909 — Lab Sample ID: 500-274551-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		1.1	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	81		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.59	B	0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	19		1.1	0.56	mg/Kg	1	☼	6010D	Total/NA
Copper	1400		11	3.2	mg/Kg	10	☼	6010D	Total/NA
Lead	8.3		5.7	2.6	mg/Kg	10	☼	6010D	Total/NA
Manganese	260		1.1	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	21		1.1	0.33	mg/Kg	1	☼	6010D	Total/NA
Silver	1.2		0.57	0.15	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SS-009_20250909 (Continued)

Lab Sample ID: 500-274551-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	41		23	10	mg/Kg	10	☼	6010D	Total/NA
Mercury	0.018		0.018	0.0075	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-026_20250909

Lab Sample ID: 500-274551-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.9		1.3	0.45	mg/Kg	1	☼	6010D	Total/NA
Barium	81		1.3	0.15	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.64	B	0.26	0.047	mg/Kg	1	☼	6010D	Total/NA
Chromium	21		1.3	0.65	mg/Kg	1	☼	6010D	Total/NA
Copper	500		6.6	1.8	mg/Kg	5	☼	6010D	Total/NA
Lead	6.5		3.3	1.5	mg/Kg	5	☼	6010D	Total/NA
Manganese	510		1.3	0.19	mg/Kg	1	☼	6010D	Total/NA
Nickel	16		1.3	0.38	mg/Kg	1	☼	6010D	Total/NA
Silver	1.2		0.66	0.17	mg/Kg	1	☼	6010D	Total/NA
Zinc	84		13	5.8	mg/Kg	5	☼	6010D	Total/NA
Mercury	0.016	J	0.021	0.0088	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: White Pine Copper LLC
Job ID: 500-274551-1
Project/Site: White Pine Copper Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-274551-1	SS-020_20250909	Solid	09/09/25 15:25	09/12/25 09:00	Michigan
500-274551-2	SS-035_20250909	Solid	09/09/25 12:45	09/12/25 09:00	Michigan
500-274551-3	SS-030_20250909	Solid	09/09/25 11:40	09/12/25 09:00	Michigan
500-274551-4	SS-007_20250909	Solid	09/09/25 16:15	09/12/25 09:00	Michigan
500-274551-5	SS-040_20250909	Solid	09/09/25 11:00	09/12/25 09:00	Michigan
500-274551-6	SS-012_20250909	Solid	09/09/25 16:50	09/12/25 09:00	Michigan
500-274551-7	SS-024_20250909	Solid	09/09/25 13:00	09/12/25 09:00	Michigan
500-274551-8	SS-022_20250909	Solid	09/09/25 14:45	09/12/25 09:00	Michigan
500-274551-9	SS-014_20250909	Solid	09/09/25 15:55	09/12/25 09:00	Michigan
500-274551-10	SS-008_20250909	Solid	09/09/25 16:25	09/12/25 09:00	Michigan
500-274551-11	SS-029_20250909	Solid	09/09/25 11:30	09/12/25 09:00	Michigan
500-274551-12	SS-010_20250909	Solid	09/09/25 16:40	09/12/25 09:00	Michigan
500-274551-13	SS-023_20250909	Solid	09/09/25 14:30	09/12/25 09:00	Michigan
500-274551-14	SS-018_20250909	Solid	09/09/25 13:13	09/12/25 09:00	Michigan
500-274551-15	SS-009_20250909	Solid	09/09/25 16:03	09/12/25 09:00	Michigan
500-274551-16	SS-026_20250909	Solid	09/09/25 12:15	09/12/25 09:00	Michigan

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-020_20250909
Date Collected: 09/09/25 15:25
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-1
Matrix: Solid
Percent Solids: 83.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		1.1	0.36	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1
Barium	82		1.1	0.12	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1
Cadmium	0.17	J B	0.21	0.038	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1
Chromium	20		1.1	0.53	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1
Copper	90		1.1	0.30	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1
Lead	8.4		0.53	0.25	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1
Manganese	260		1.1	0.15	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1
Nickel	21		1.1	0.31	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1
Silver	0.86		0.53	0.14	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1
Zinc	37		2.1	0.93	mg/Kg	☼	09/18/25 13:06	09/22/25 14:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.011	J	0.019	0.0078	mg/Kg	☼	09/17/25 15:50	09/18/25 08:56	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-035_20250909
Date Collected: 09/09/25 12:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-2
Matrix: Solid
Percent Solids: 83.5

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.8		1.0	0.35	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1
Barium	30		1.0	0.12	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1
Cadmium	0.28	B	0.21	0.037	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1
Chromium	9.5		1.0	0.51	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1
Copper	200		1.0	0.29	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1
Lead	6.5		0.52	0.24	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1
Manganese	190		1.0	0.15	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1
Nickel	8.4		1.0	0.30	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1
Silver	0.56		0.52	0.13	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1
Zinc	29		2.1	0.91	mg/Kg	☼	09/18/25 13:06	09/22/25 14:25	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.019	0.0079	mg/Kg	☼	09/17/25 15:50	09/18/25 08:58	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-030_20250909
Date Collected: 09/09/25 11:40
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-3
Matrix: Solid
Percent Solids: 68.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.6**		1.4	0.48	mg/Kg	☼	09/18/25 13:06	09/22/25 14:29	1
Barium	**31**		1.4	0.16	mg/Kg	☼	09/18/25 13:06	09/22/25 14:29	1
Cadmium	**0.94**	**B**	0.28	0.050	mg/Kg	☼	09/18/25 13:06	09/22/25 14:29	1
Chromium	**6.8**		1.4	0.69	mg/Kg	☼	09/18/25 13:06	09/22/25 14:29	1
Copper	**2900**		70	20	mg/Kg	☼	09/18/25 13:06	09/23/25 12:55	50
Lead	<16		35	16	mg/Kg	☼	09/18/25 13:06	09/23/25 12:55	50
Manganese	**90**		1.4	0.20	mg/Kg	☼	09/18/25 13:06	09/22/25 14:29	1
Nickel	**3.9**		1.4	0.41	mg/Kg	☼	09/18/25 13:06	09/22/25 14:29	1
Selenium	<0.82		1.4	0.82	mg/Kg	☼	09/18/25 13:06	09/22/25 14:29	1
Silver	**0.80**		0.70	0.18	mg/Kg	☼	09/18/25 13:06	09/22/25 14:29	1
Zinc	<61		140	61	mg/Kg	☼	09/18/25 13:06	09/23/25 12:55	50

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**		0.023	0.0096	mg/Kg	☼	09/17/25 15:50	09/18/25 09:04	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-007_20250909
Date Collected: 09/09/25 16:15
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-4
Matrix: Solid
Percent Solids: 24.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		3.7	1.3	mg/Kg	☼	09/18/25 13:06	09/22/25 14:34	1
Barium	130		3.7	0.42	mg/Kg	☼	09/18/25 13:06	09/22/25 14:34	1
Cadmium	5.8	B	0.74	0.13	mg/Kg	☼	09/18/25 13:06	09/22/25 14:34	1
Chromium	37		3.7	1.8	mg/Kg	☼	09/18/25 13:06	09/22/25 14:34	1
Copper	9400		190	52	mg/Kg	☼	09/18/25 13:06	09/23/25 13:04	50
Lead	<43		93	43	mg/Kg	☼	09/18/25 13:06	09/23/25 13:04	50
Manganese	1500		3.7	0.54	mg/Kg	☼	09/18/25 13:06	09/22/25 14:34	1
Nickel	35		3.7	1.1	mg/Kg	☼	09/18/25 13:06	09/22/25 14:34	1
Selenium	<2.2		3.7	2.2	mg/Kg	☼	09/18/25 13:06	09/22/25 14:34	1
Silver	5.9		1.9	0.48	mg/Kg	☼	09/18/25 13:06	09/22/25 14:34	1
Zinc	160	J	370	160	mg/Kg	☼	09/18/25 13:06	09/23/25 13:04	50

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.091		0.066	0.027	mg/Kg	☼	09/17/25 15:50	09/18/25 09:06	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-040_20250909
Date Collected: 09/09/25 11:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-5
Matrix: Solid
Percent Solids: 82.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.1	0.38	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1
Barium	68		1.1	0.13	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1
Cadmium	0.26	B	0.22	0.040	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1
Chromium	17		1.1	0.55	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1
Copper	32		1.1	0.31	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1
Lead	5.7		0.56	0.26	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1
Manganese	300		1.1	0.16	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1
Nickel	19		1.1	0.32	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1
Silver	0.87		0.56	0.14	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1
Zinc	35		2.2	0.98	mg/Kg	☼	09/18/25 13:06	09/22/25 14:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.014	J	0.018	0.0074	mg/Kg	☼	09/17/25 15:50	09/18/25 09:07	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-012_20250909
Date Collected: 09/09/25 16:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-6
Matrix: Solid
Percent Solids: 85.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		1.1	0.37	mg/Kg	☼	09/18/25 13:06	09/22/25 14:43	1
Barium	60		1.1	0.12	mg/Kg	☼	09/18/25 13:06	09/22/25 14:43	1
Cadmium	0.37	B	0.21	0.038	mg/Kg	☼	09/18/25 13:06	09/22/25 14:43	1
Chromium	16		1.1	0.53	mg/Kg	☼	09/18/25 13:06	09/22/25 14:43	1
Copper	1000		5.3	1.5	mg/Kg	☼	09/18/25 13:06	09/23/25 13:17	5
Lead	11		2.7	1.2	mg/Kg	☼	09/18/25 13:06	09/23/25 13:17	5
Manganese	220		1.1	0.16	mg/Kg	☼	09/18/25 13:06	09/22/25 14:43	1
Nickel	19		1.1	0.31	mg/Kg	☼	09/18/25 13:06	09/22/25 14:43	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/18/25 13:06	09/22/25 14:43	1
Silver	1.0		0.53	0.14	mg/Kg	☼	09/18/25 13:06	09/22/25 14:43	1
Zinc	67		11	4.7	mg/Kg	☼	09/18/25 13:06	09/23/25 13:17	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0079	mg/Kg	☼	09/17/25 15:50	09/18/25 09:09	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-024_20250909
Date Collected: 09/09/25 13:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-7
Matrix: Solid
Percent Solids: 88.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		1.1	0.38	mg/Kg	☼	09/18/25 13:06	09/22/25 14:48	1
Barium	64		1.1	0.13	mg/Kg	☼	09/18/25 13:06	09/22/25 14:48	1
Cadmium	0.41	B	0.22	0.040	mg/Kg	☼	09/18/25 13:06	09/22/25 14:48	1
Chromium	18		1.1	0.54	mg/Kg	☼	09/18/25 13:06	09/22/25 14:48	1
Copper	3500		55	15	mg/Kg	☼	09/18/25 13:06	09/23/25 13:22	50
Lead	51		28	13	mg/Kg	☼	09/18/25 13:06	09/23/25 13:22	50
Manganese	220		1.1	0.16	mg/Kg	☼	09/18/25 13:06	09/22/25 14:48	1
Nickel	17		1.1	0.32	mg/Kg	☼	09/18/25 13:06	09/22/25 14:48	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	09/18/25 13:06	09/22/25 14:48	1
Silver	0.76		0.55	0.14	mg/Kg	☼	09/18/25 13:06	09/22/25 14:48	1
Zinc	460		110	48	mg/Kg	☼	09/18/25 13:06	09/23/25 13:22	50

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0068		0.016	0.0068	mg/Kg	☼	09/17/25 15:50	09/18/25 09:11	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-022_20250909
Date Collected: 09/09/25 14:45
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-8
Matrix: Solid
Percent Solids: 67.2

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.3**		1.4	0.49	mg/Kg	☼	09/18/25 13:06	09/22/25 14:52	1
Barium	**40**		1.4	0.16	mg/Kg	☼	09/18/25 13:06	09/22/25 14:52	1
Cadmium	**1.6**	**B**	0.29	0.051	mg/Kg	☼	09/18/25 13:06	09/22/25 14:52	1
Chromium	**13**		1.4	0.71	mg/Kg	☼	09/18/25 13:06	09/22/25 14:52	1
Copper	**6800**		71	20	mg/Kg	☼	09/18/25 13:06	09/23/25 13:30	50
Lead	<16		36	16	mg/Kg	☼	09/18/25 13:06	09/23/25 13:30	50
Manganese	**200**		1.4	0.21	mg/Kg	☼	09/18/25 13:06	09/22/25 14:52	1
Nickel	**14**		1.4	0.42	mg/Kg	☼	09/18/25 13:06	09/22/25 14:52	1
Selenium	<0.84		1.4	0.84	mg/Kg	☼	09/18/25 13:06	09/22/25 14:52	1
Silver	**4.0**		0.71	0.18	mg/Kg	☼	09/18/25 13:06	09/22/25 14:52	1
Zinc	<63		140	63	mg/Kg	☼	09/18/25 13:06	09/23/25 13:30	50

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.047**		0.024	0.0098	mg/Kg	☼	09/17/25 15:50	09/18/25 09:13	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-014_20250909
Date Collected: 09/09/25 15:55
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-9
Matrix: Solid
Percent Solids: 86.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		1.0	0.35	mg/Kg	☼	09/18/25 13:06	09/22/25 15:06	1
Barium	66		1.0	0.12	mg/Kg	☼	09/18/25 13:06	09/22/25 15:06	1
Cadmium	1.4	B	0.20	0.036	mg/Kg	☼	09/18/25 13:06	09/22/25 15:06	1
Chromium	15		1.0	0.50	mg/Kg	☼	09/18/25 13:06	09/22/25 15:06	1
Copper	3600		51	14	mg/Kg	☼	09/18/25 13:06	09/23/25 13:39	50
Lead	<12		25	12	mg/Kg	☼	09/18/25 13:06	09/23/25 13:39	50
Manganese	280		1.0	0.15	mg/Kg	☼	09/18/25 13:06	09/22/25 15:06	1
Nickel	21		1.0	0.29	mg/Kg	☼	09/18/25 13:06	09/22/25 15:06	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	09/18/25 13:06	09/22/25 15:06	1
Silver	2.2		0.51	0.13	mg/Kg	☼	09/18/25 13:06	09/22/25 15:06	1
Zinc	54	J	100	44	mg/Kg	☼	09/18/25 13:06	09/23/25 13:39	50

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0074	mg/Kg	☼	09/17/25 15:50	09/18/25 09:15	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-008_20250909
Date Collected: 09/09/25 16:25
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-10
Matrix: Solid
Percent Solids: 85.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		1.1	0.36	mg/Kg	☼	09/18/25 13:06	09/22/25 15:10	1
Barium	98		1.1	0.12	mg/Kg	☼	09/18/25 13:06	09/22/25 15:10	1
Cadmium	0.13	J B	0.21	0.038	mg/Kg	☼	09/18/25 13:06	09/22/25 15:10	1
Chromium	13		1.1	0.52	mg/Kg	☼	09/18/25 13:06	09/22/25 15:10	1
Copper	30		1.1	0.30	mg/Kg	☼	09/18/25 13:06	09/22/25 15:10	1
Lead	6.3		0.53	0.24	mg/Kg	☼	09/18/25 13:06	09/22/25 15:10	1
Manganese	240		1.1	0.15	mg/Kg	☼	09/18/25 13:06	09/22/25 15:10	1
Nickel	21		1.1	0.31	mg/Kg	☼	09/18/25 13:06	09/22/25 15:10	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	09/18/25 13:06	09/23/25 13:44	1
Silver	0.69		0.53	0.14	mg/Kg	☼	09/18/25 13:06	09/22/25 15:10	1
Zinc	32		2.1	0.93	mg/Kg	☼	09/18/25 13:06	09/22/25 15:10	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0082	J	0.017	0.0071	mg/Kg	☼	09/17/25 15:50	09/18/25 09:31	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-029_20250909
Date Collected: 09/09/25 11:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-11
Matrix: Solid
Percent Solids: 24.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4	J	3.6	1.2	mg/Kg	☼	09/18/25 13:06	09/22/25 15:15	1
Barium	52		3.6	0.41	mg/Kg	☼	09/18/25 13:06	09/22/25 15:15	1
Cadmium	15	B	0.71	0.13	mg/Kg	☼	09/18/25 13:06	09/22/25 15:15	1
Chromium	7.0		3.6	1.8	mg/Kg	☼	09/18/25 13:06	09/22/25 15:15	1
Copper	3300		18	5.0	mg/Kg	☼	09/18/25 13:06	09/23/25 13:48	5
Lead	11		8.9	4.1	mg/Kg	☼	09/18/25 13:06	09/23/25 13:48	5
Manganese	310		3.6	0.52	mg/Kg	☼	09/18/25 13:06	09/22/25 15:15	1
Nickel	11		3.6	1.0	mg/Kg	☼	09/18/25 13:06	09/22/25 15:15	1
Selenium	<2.1		3.6	2.1	mg/Kg	☼	09/18/25 13:06	09/22/25 15:15	1
Silver	4.5		1.8	0.46	mg/Kg	☼	09/18/25 13:06	09/22/25 15:15	1
Zinc	100		36	16	mg/Kg	☼	09/18/25 13:06	09/23/25 13:48	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.063	0.026	mg/Kg	☼	09/17/25 15:50	09/18/25 09:33	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-010_20250909
Date Collected: 09/09/25 16:40
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-12
Matrix: Solid
Percent Solids: 88.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		1.1	0.36	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1
Barium	77		1.1	0.12	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1
Cadmium	0.13	J B	0.21	0.038	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1
Chromium	15		1.1	0.53	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1
Copper	27		1.1	0.30	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1
Lead	5.1		0.53	0.25	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1
Manganese	210		1.1	0.15	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1
Nickel	16		1.1	0.31	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1
Silver	0.65		0.53	0.14	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1
Zinc	26		2.1	0.93	mg/Kg	☼	09/18/25 13:06	09/22/25 15:19	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0075		0.018	0.0075	mg/Kg	☼	09/17/25 15:50	09/18/25 09:34	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-023_20250909
Date Collected: 09/09/25 14:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-13
Matrix: Solid
Percent Solids: 80.9

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		1.2	0.40	mg/Kg	☼	09/18/25 13:06	09/22/25 15:24	1
Barium	32		1.2	0.13	mg/Kg	☼	09/18/25 13:06	09/22/25 15:24	1
Cadmium	0.36	B	0.23	0.042	mg/Kg	☼	09/18/25 13:06	09/22/25 15:24	1
Chromium	14		1.2	0.58	mg/Kg	☼	09/18/25 13:06	09/22/25 15:24	1
Copper	800		5.8	1.6	mg/Kg	☼	09/18/25 13:06	09/23/25 13:52	5
Lead	6.7		2.9	1.3	mg/Kg	☼	09/18/25 13:06	09/23/25 13:52	5
Manganese	130		1.2	0.17	mg/Kg	☼	09/18/25 13:06	09/22/25 15:24	1
Nickel	13		1.2	0.34	mg/Kg	☼	09/18/25 13:06	09/22/25 15:24	1
Selenium	<0.68		1.2	0.68	mg/Kg	☼	09/18/25 13:06	09/22/25 15:24	1
Silver	0.50	J	0.58	0.15	mg/Kg	☼	09/18/25 13:06	09/22/25 15:24	1
Zinc	30		12	5.1	mg/Kg	☼	09/18/25 13:06	09/23/25 13:52	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0079	mg/Kg	☼	09/17/25 15:50	09/18/25 09:36	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-018_20250909
Date Collected: 09/09/25 13:13
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-14
Matrix: Solid
Percent Solids: 87.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.1	0.37	mg/Kg	☼	09/18/25 13:06	09/22/25 15:28	1
Barium	75		1.1	0.12	mg/Kg	☼	09/18/25 13:06	09/22/25 15:28	1
Cadmium	0.10	J B	0.21	0.038	mg/Kg	☼	09/18/25 13:06	09/22/25 15:28	1
Chromium	12		1.1	0.53	mg/Kg	☼	09/18/25 13:06	09/22/25 15:28	1
Copper	11		1.1	0.30	mg/Kg	☼	09/18/25 13:06	09/22/25 15:28	1
Lead	5.3		0.53	0.25	mg/Kg	☼	09/18/25 13:06	09/22/25 15:28	1
Manganese	220		1.1	0.15	mg/Kg	☼	09/18/25 13:06	09/22/25 15:28	1
Nickel	17		1.1	0.31	mg/Kg	☼	09/18/25 13:06	09/22/25 15:28	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	09/18/25 13:06	09/23/25 13:57	1
Silver	0.64		0.53	0.14	mg/Kg	☼	09/18/25 13:06	09/22/25 15:28	1
Zinc	27		2.1	0.94	mg/Kg	☼	09/18/25 13:06	09/22/25 15:28	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0073		0.018	0.0073	mg/Kg	☼	09/17/25 15:50	09/18/25 09:38	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-009_20250909
Date Collected: 09/09/25 16:03
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-15
Matrix: Solid
Percent Solids: 84.1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		1.1	0.39	mg/Kg	☼	09/18/25 13:06	09/22/25 15:33	1
Barium	81		1.1	0.13	mg/Kg	☼	09/18/25 13:06	09/22/25 15:33	1
Cadmium	0.59	B	0.23	0.041	mg/Kg	☼	09/18/25 13:06	09/22/25 15:33	1
Chromium	19		1.1	0.56	mg/Kg	☼	09/18/25 13:06	09/22/25 15:33	1
Copper	1400		11	3.2	mg/Kg	☼	09/18/25 13:06	09/23/25 14:10	10
Lead	8.3		5.7	2.6	mg/Kg	☼	09/18/25 13:06	09/23/25 14:10	10
Manganese	260		1.1	0.17	mg/Kg	☼	09/18/25 13:06	09/22/25 15:33	1
Nickel	21		1.1	0.33	mg/Kg	☼	09/18/25 13:06	09/22/25 15:33	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	09/18/25 13:06	09/22/25 15:33	1
Silver	1.2		0.57	0.15	mg/Kg	☼	09/18/25 13:06	09/22/25 15:33	1
Zinc	41		23	10	mg/Kg	☼	09/18/25 13:06	09/23/25 14:10	10

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0075	mg/Kg	☼	09/17/25 15:50	09/18/25 09:40	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-026_20250909
Date Collected: 09/09/25 12:15
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-16
Matrix: Solid
Percent Solids: 75.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.9		1.3	0.45	mg/Kg	☼	09/18/25 13:06	09/22/25 15:37	1
Barium	81		1.3	0.15	mg/Kg	☼	09/18/25 13:06	09/22/25 15:37	1
Cadmium	0.64	B	0.26	0.047	mg/Kg	☼	09/18/25 13:06	09/22/25 15:37	1
Chromium	21		1.3	0.65	mg/Kg	☼	09/18/25 13:06	09/22/25 15:37	1
Copper	500		6.6	1.8	mg/Kg	☼	09/18/25 13:06	09/23/25 14:15	5
Lead	6.5		3.3	1.5	mg/Kg	☼	09/18/25 13:06	09/23/25 14:15	5
Manganese	510		1.3	0.19	mg/Kg	☼	09/18/25 13:06	09/22/25 15:37	1
Nickel	16		1.3	0.38	mg/Kg	☼	09/18/25 13:06	09/22/25 15:37	1
Selenium	<0.77		1.3	0.77	mg/Kg	☼	09/18/25 13:06	09/22/25 15:37	1
Silver	1.2		0.66	0.17	mg/Kg	☼	09/18/25 13:06	09/22/25 15:37	1
Zinc	84		13	5.8	mg/Kg	☼	09/18/25 13:06	09/23/25 14:15	5

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.021	0.0088	mg/Kg	☼	09/17/25 15:50	09/18/25 09:41	1

Definitions/Glossary

Client: White Pine Copper LLC
Job ID: 500-274551-1
Project/Site: White Pine Copper Soils

Qualifiers

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 834379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274551-1	SS-020_20250909	Total/NA	Solid	7471B	
500-274551-2	SS-035_20250909	Total/NA	Solid	7471B	
500-274551-3	SS-030_20250909	Total/NA	Solid	7471B	
500-274551-4	SS-007_20250909	Total/NA	Solid	7471B	
500-274551-5	SS-040_20250909	Total/NA	Solid	7471B	
500-274551-6	SS-012_20250909	Total/NA	Solid	7471B	
500-274551-7	SS-024_20250909	Total/NA	Solid	7471B	
500-274551-8	SS-022_20250909	Total/NA	Solid	7471B	
500-274551-9	SS-014_20250909	Total/NA	Solid	7471B	
500-274551-10	SS-008_20250909	Total/NA	Solid	7471B	
500-274551-11	SS-029_20250909	Total/NA	Solid	7471B	
500-274551-12	SS-010_20250909	Total/NA	Solid	7471B	
500-274551-13	SS-023_20250909	Total/NA	Solid	7471B	
500-274551-14	SS-018_20250909	Total/NA	Solid	7471B	
500-274551-15	SS-009_20250909	Total/NA	Solid	7471B	
500-274551-16	SS-026_20250909	Total/NA	Solid	7471B	
MB 500-834379/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-834379/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-274551-9 MS	SS-014_20250909	Total/NA	Solid	7471B	
500-274551-9 MSD	SS-014_20250909	Total/NA	Solid	7471B	
500-274551-9 DU	SS-014_20250909	Total/NA	Solid	7471B	

Analysis Batch: 834579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274551-1	SS-020_20250909	Total/NA	Solid	7471B	834379
500-274551-2	SS-035_20250909	Total/NA	Solid	7471B	834379
500-274551-3	SS-030_20250909	Total/NA	Solid	7471B	834379
500-274551-4	SS-007_20250909	Total/NA	Solid	7471B	834379
500-274551-5	SS-040_20250909	Total/NA	Solid	7471B	834379
500-274551-6	SS-012_20250909	Total/NA	Solid	7471B	834379
500-274551-7	SS-024_20250909	Total/NA	Solid	7471B	834379
500-274551-8	SS-022_20250909	Total/NA	Solid	7471B	834379
500-274551-9	SS-014_20250909	Total/NA	Solid	7471B	834379
500-274551-10	SS-008_20250909	Total/NA	Solid	7471B	834379
500-274551-11	SS-029_20250909	Total/NA	Solid	7471B	834379
500-274551-12	SS-010_20250909	Total/NA	Solid	7471B	834379
500-274551-13	SS-023_20250909	Total/NA	Solid	7471B	834379
500-274551-14	SS-018_20250909	Total/NA	Solid	7471B	834379
500-274551-15	SS-009_20250909	Total/NA	Solid	7471B	834379
500-274551-16	SS-026_20250909	Total/NA	Solid	7471B	834379
MB 500-834379/12-A	Method Blank	Total/NA	Solid	7471B	834379
LCS 500-834379/13-A	Lab Control Sample	Total/NA	Solid	7471B	834379
500-274551-9 MS	SS-014_20250909	Total/NA	Solid	7471B	834379
500-274551-9 MSD	SS-014_20250909	Total/NA	Solid	7471B	834379
500-274551-9 DU	SS-014_20250909	Total/NA	Solid	7471B	834379

Prep Batch: 834596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274551-1	SS-020_20250909	Total/NA	Solid	3050B	
500-274551-2	SS-035_20250909	Total/NA	Solid	3050B	
500-274551-3	SS-030_20250909	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 834596 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274551-4	SS-007_20250909	Total/NA	Solid	3050B	
500-274551-5	SS-040_20250909	Total/NA	Solid	3050B	
500-274551-6	SS-012_20250909	Total/NA	Solid	3050B	
500-274551-7	SS-024_20250909	Total/NA	Solid	3050B	
500-274551-8	SS-022_20250909	Total/NA	Solid	3050B	
500-274551-9	SS-014_20250909	Total/NA	Solid	3050B	
500-274551-10	SS-008_20250909	Total/NA	Solid	3050B	
500-274551-11	SS-029_20250909	Total/NA	Solid	3050B	
500-274551-12	SS-010_20250909	Total/NA	Solid	3050B	
500-274551-13	SS-023_20250909	Total/NA	Solid	3050B	
500-274551-14	SS-018_20250909	Total/NA	Solid	3050B	
500-274551-15	SS-009_20250909	Total/NA	Solid	3050B	
500-274551-16	SS-026_20250909	Total/NA	Solid	3050B	
MB 500-834596/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-834596/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 835173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274551-1	SS-020_20250909	Total/NA	Solid	6010D	834596
500-274551-2	SS-035_20250909	Total/NA	Solid	6010D	834596
500-274551-3	SS-030_20250909	Total/NA	Solid	6010D	834596
500-274551-4	SS-007_20250909	Total/NA	Solid	6010D	834596
500-274551-5	SS-040_20250909	Total/NA	Solid	6010D	834596
500-274551-6	SS-012_20250909	Total/NA	Solid	6010D	834596
500-274551-7	SS-024_20250909	Total/NA	Solid	6010D	834596
500-274551-8	SS-022_20250909	Total/NA	Solid	6010D	834596
500-274551-9	SS-014_20250909	Total/NA	Solid	6010D	834596
500-274551-10	SS-008_20250909	Total/NA	Solid	6010D	834596
500-274551-11	SS-029_20250909	Total/NA	Solid	6010D	834596
500-274551-12	SS-010_20250909	Total/NA	Solid	6010D	834596
500-274551-13	SS-023_20250909	Total/NA	Solid	6010D	834596
500-274551-14	SS-018_20250909	Total/NA	Solid	6010D	834596
500-274551-15	SS-009_20250909	Total/NA	Solid	6010D	834596
500-274551-16	SS-026_20250909	Total/NA	Solid	6010D	834596
MB 500-834596/1-A	Method Blank	Total/NA	Solid	6010D	834596
LCS 500-834596/2-A	Lab Control Sample	Total/NA	Solid	6010D	834596

Analysis Batch: 835265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274551-3	SS-030_20250909	Total/NA	Solid	6010D	834596
500-274551-4	SS-007_20250909	Total/NA	Solid	6010D	834596
500-274551-6	SS-012_20250909	Total/NA	Solid	6010D	834596
500-274551-7	SS-024_20250909	Total/NA	Solid	6010D	834596
500-274551-8	SS-022_20250909	Total/NA	Solid	6010D	834596
500-274551-9	SS-014_20250909	Total/NA	Solid	6010D	834596
500-274551-10	SS-008_20250909	Total/NA	Solid	6010D	834596
500-274551-11	SS-029_20250909	Total/NA	Solid	6010D	834596
500-274551-13	SS-023_20250909	Total/NA	Solid	6010D	834596
500-274551-14	SS-018_20250909	Total/NA	Solid	6010D	834596
500-274551-15	SS-009_20250909	Total/NA	Solid	6010D	834596
500-274551-16	SS-026_20250909	Total/NA	Solid	6010D	834596

General Chemistry

Analysis Batch: 833943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274551-1	SS-020_20250909	Total/NA	Solid	Moisture	
500-274551-2	SS-035_20250909	Total/NA	Solid	Moisture	
500-274551-3	SS-030_20250909	Total/NA	Solid	Moisture	
500-274551-4	SS-007_20250909	Total/NA	Solid	Moisture	
500-274551-5	SS-040_20250909	Total/NA	Solid	Moisture	
500-274551-6	SS-012_20250909	Total/NA	Solid	Moisture	
500-274551-7	SS-024_20250909	Total/NA	Solid	Moisture	
500-274551-8	SS-022_20250909	Total/NA	Solid	Moisture	
500-274551-9	SS-014_20250909	Total/NA	Solid	Moisture	
500-274551-10	SS-008_20250909	Total/NA	Solid	Moisture	
500-274551-11	SS-029_20250909	Total/NA	Solid	Moisture	
500-274551-12	SS-010_20250909	Total/NA	Solid	Moisture	
500-274551-13	SS-023_20250909	Total/NA	Solid	Moisture	

Analysis Batch: 833954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274551-14	SS-018_20250909	Total/NA	Solid	Moisture	
500-274551-15	SS-009_20250909	Total/NA	Solid	Moisture	
500-274551-16	SS-026_20250909	Total/NA	Solid	Moisture	
500-274551-14 DU	SS-018_20250909	Total/NA	Solid	Moisture	

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-834596/1-A
Matrix: Solid
Analysis Batch: 835173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/18/25 13:06	09/22/25 11:46	1
Barium	<0.11		1.0	0.11	mg/Kg		09/18/25 13:06	09/22/25 11:46	1
Cadmium	0.0395	J	0.20	0.036	mg/Kg		09/18/25 13:06	09/22/25 11:46	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/18/25 13:06	09/22/25 11:46	1
Copper	<0.28		1.0	0.28	mg/Kg		09/18/25 13:06	09/22/25 11:46	1
Lead	<0.23		0.50	0.23	mg/Kg		09/18/25 13:06	09/22/25 11:46	1
Manganese	<0.15		1.0	0.15	mg/Kg		09/18/25 13:06	09/22/25 11:46	1
Nickel	<0.29		1.0	0.29	mg/Kg		09/18/25 13:06	09/22/25 11:46	1
Selenium	<0.59		1.0	0.59	mg/Kg		09/18/25 13:06	09/22/25 11:46	1
Silver	<0.13		0.50	0.13	mg/Kg		09/18/25 13:06	09/22/25 11:46	1
Zinc	<0.88		2.0	0.88	mg/Kg		09/18/25 13:06	09/22/25 11:46	1

Lab Sample ID: LCS 500-834596/2-A
Matrix: Solid
Analysis Batch: 835173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.01		mg/Kg		90	80 - 120
Barium	200	185		mg/Kg		92	80 - 120
Cadmium	5.00	4.65		mg/Kg		93	80 - 120
Chromium	20.0	18.2		mg/Kg		91	80 - 120
Copper	25.0	22.4		mg/Kg		90	80 - 120
Lead	10.0	9.95		mg/Kg		100	80 - 120
Manganese	50.0	45.5		mg/Kg		91	80 - 120
Nickel	50.0	47.9		mg/Kg		96	80 - 120
Selenium	10.0	8.09		mg/Kg		81	80 - 120
Silver	5.00	4.05		mg/Kg		81	80 - 120
Zinc	50.0	45.5		mg/Kg		91	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-834379/12-A
Matrix: Solid
Analysis Batch: 834579

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		09/17/25 15:50	09/18/25 08:52	1

Lab Sample ID: LCS 500-834379/13-A
Matrix: Solid
Analysis Batch: 834579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.176		mg/Kg		106	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-274551-9 MS
Matrix: Solid
Analysis Batch: 834579

Client Sample ID: SS-014_20250909
Prep Type: Total/NA
Prep Batch: 834379

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.019		0.0893	0.121		mg/Kg	☼	115	75 - 125

Lab Sample ID: 500-274551-9 MSD
Matrix: Solid
Analysis Batch: 834579

Client Sample ID: SS-014_20250909
Prep Type: Total/NA
Prep Batch: 834379

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.019		0.0890	0.115		mg/Kg	☼	108	75 - 125	6	20

Lab Sample ID: 500-274551-9 DU
Matrix: Solid
Analysis Batch: 834579

Client Sample ID: SS-014_20250909
Prep Type: Total/NA
Prep Batch: 834379

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.019		0.0231		mg/Kg	☼	20	20

Client Sample ID: SS-020_20250909 — **Lab Sample ID: 500-274551-1**
Date Collected: 09/09/25 15:25 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-020_20250909 — **Lab Sample ID: 500-274551-1**
Date Collected: 09/09/25 15:25 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 83.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 14:20
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:56

Client Sample ID: SS-035_20250909 — **Lab Sample ID: 500-274551-2**
Date Collected: 09/09/25 12:45 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-035_20250909 — **Lab Sample ID: 500-274551-2**
Date Collected: 09/09/25 12:45 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 83.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 14:25
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 08:58

Client Sample ID: SS-030_20250909 — **Lab Sample ID: 500-274551-3**
Date Collected: 09/09/25 11:40 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-030_20250909 — **Lab Sample ID: 500-274551-3**
Date Collected: 09/09/25 11:40 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 68.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 14:29
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		50	835265	S1Z	EET CHI	09/23/25 12:55

Client Sample ID: SS-030_20250909

Lab Sample ID: 500-274551-3

Date Collected: 09/09/25 11:40

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 68.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:04

Client Sample ID: SS-007_20250909

Lab Sample ID: 500-274551-4

Date Collected: 09/09/25 16:15

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-007_20250909

Lab Sample ID: 500-274551-4

Date Collected: 09/09/25 16:15

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 24.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 14:34
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		50	835265	S1Z	EET CHI	09/23/25 13:04
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:06

Client Sample ID: SS-040_20250909

Lab Sample ID: 500-274551-5

Date Collected: 09/09/25 11:00

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-040_20250909

Lab Sample ID: 500-274551-5

Date Collected: 09/09/25 11:00

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 14:38
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:07

Client Sample ID: SS-012_20250909

Lab Sample ID: 500-274551-6

Date Collected: 09/09/25 16:50

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-012_20250909

Lab Sample ID: 500-274551-6
Date Collected: 09/09/25 16:50
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 14:43
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		5	835265	S1Z	EET CHI	09/23/25 13:17
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:09

Client Sample ID: SS-024_20250909

Lab Sample ID: 500-274551-7
Date Collected: 09/09/25 13:00
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-024_20250909

Lab Sample ID: 500-274551-7
Date Collected: 09/09/25 13:00
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 14:48
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		50	835265	S1Z	EET CHI	09/23/25 13:22
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:11

Client Sample ID: SS-022_20250909

Lab Sample ID: 500-274551-8
Date Collected: 09/09/25 14:45
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-022_20250909

Lab Sample ID: 500-274551-8
Date Collected: 09/09/25 14:45
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 67.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 14:52
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		50	835265	S1Z	EET CHI	09/23/25 13:30
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:13

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-014_20250909

Lab Sample ID: 500-274551-9

Date Collected: 09/09/25 15:55
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-014_20250909

Lab Sample ID: 500-274551-9

Date Collected: 09/09/25 15:55
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 86.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 15:06
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		50	835265	S1Z	EET CHI	09/23/25 13:39
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:15

Client Sample ID: SS-008_20250909

Lab Sample ID: 500-274551-10

Date Collected: 09/09/25 16:25
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-008_20250909

Lab Sample ID: 500-274551-10

Date Collected: 09/09/25 16:25
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 15:10
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835265	S1Z	EET CHI	09/23/25 13:44
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:31

Client Sample ID: SS-029_20250909

Lab Sample ID: 500-274551-11

Date Collected: 09/09/25 11:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-029_20250909

Lab Sample ID: 500-274551-11

Date Collected: 09/09/25 11:30

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 24.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 15:15
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		5	835265	S1Z	EET CHI	09/23/25 13:48
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:33

Client Sample ID: SS-010_20250909

Lab Sample ID: 500-274551-12

Date Collected: 09/09/25 16:40

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-010_20250909

Lab Sample ID: 500-274551-12

Date Collected: 09/09/25 16:40

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 15:19
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:34

Client Sample ID: SS-023_20250909

Lab Sample ID: 500-274551-13

Date Collected: 09/09/25 14:30

Matrix: Solid

Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833943	RB	EET CHI	09/15/25 10:40

Client Sample ID: SS-023_20250909

Lab Sample ID: 500-274551-13

Date Collected: 09/09/25 14:30

Matrix: Solid

Date Received: 09/12/25 09:00

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 15:24
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		5	835265	S1Z	EET CHI	09/23/25 13:52
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:36

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-018_20250909

Lab Sample ID: 500-274551-14

Date Collected: 09/09/25 13:13
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Client Sample ID: SS-018_20250909

Lab Sample ID: 500-274551-14

Date Collected: 09/09/25 13:13
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 15:28
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835265	S1Z	EET CHI	09/23/25 13:57
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:38

Client Sample ID: SS-009_20250909

Lab Sample ID: 500-274551-15

Date Collected: 09/09/25 16:03
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Client Sample ID: SS-009_20250909

Lab Sample ID: 500-274551-15

Date Collected: 09/09/25 16:03
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 15:33
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		10	835265	S1Z	EET CHI	09/23/25 14:10
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:40

Client Sample ID: SS-026_20250909

Lab Sample ID: 500-274551-16

Date Collected: 09/09/25 12:15
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Client Sample ID: SS-026_20250909

Date Collected: 09/09/25 12:15
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274551-16

Matrix: Solid
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		1	835173	S1Z	EET CHI	09/22/25 15:37
Total/NA	Prep	3050B			834596	MS	EET CHI	09/18/25 13:06 - 09/18/25 18:06 [1]
Total/NA	Analysis	6010D		5	835265	S1Z	EET CHI	09/23/25 14:15
Total/NA	Prep	7471B			834379	MJG	EET CHI	09/17/25 15:50
Total/NA	Analysis	7471B		1	834579	MJG	EET CHI	09/18/25 09:41

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274551-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-26
Georgia (DW)	State	939	05-31-26
Illinois	NELAP	100201	05-31-26
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-26
Kentucky (WW)	State	KY90023	12-31-25
Louisiana (All)	NELAP	02046	06-30-26
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	12-31-25
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	12-31-25
South Carolina	State	77001003	05-31-26
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	399172840	08-31-26
Wyoming	State	8TMS-Q	05-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park, IL 60487
Phone 708-534 5200 Fax 708 534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: Logan Carpenter, Justin Brown	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-140483 53677 10
Client Contact: Amanda Zeidler	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin:	Page: Page/10 of 13
Company: White Pine Copper LLC	PWSID:	Analysis Requested		Job #: 500-274551

Address: 35362 Mall Circle Drive	Due Date Requested:	Preservation Codes: N None; D HNO3
City: White Pine	TAT Requested (days):	
State, Zip: MI 49971	Compliance Project: Δ Yes Δ No	
Phone:	PO #: Purchase Order not required	
Email: AZeidler@whitepinecu com	WO #:	Other:
Project Name: White Pine ~~Copper~~ Soils	Project #: 50025458	
Site:	SSOW#:	

500-274551 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D 7471B	6020B, 7470A	Total Number of containers	Special Instructions/Note
			Preservation Code				N	D		
1 SS-020_20250909	9/9/25	15:25	G	Solid	N	N	✓			
2 SS-035_20250909	9/9/25	12:45	G	Solid	N	N	✓			
3 SS-030_20250909	9/9/25	11:40	G	Solid	N	N	✓			
4 SS-007_20250909	9/9/25	16:45	G	Solid	N	N	✓			
5 SS-040_20250909	9/9/25	11:00	G	Solid	N	N	✓			
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						
				Solid						

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III, IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Justin Brown	9/11/25 fedex 1200			9/12/25 0900	EEN
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		5.8→5.6, 4.2→4.0, 5.8→5.0, 6.0→5.8, 5.9→5.7

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708 534-5200 Fax 708 534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: Logan Carpenter, Justin Brown	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-140483-53677 11
Client Contact: Amanda Zeidler	Phone:	E Mail: Sandra Fredrick@et eurofinsus com	State of Origin:	Page: Page 11 of 13
Company: White Pine Copper LLC	PWSID:			Job #: 500-27455 1
Address: 35362 Mall Circle Drive	Due Date Requested:			
City: White Pine	TAT Requested (days):			
State Zip: MI 49971	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine ~~Cooper~~ Copper Soils	Project #: 50025458			
Site:	SSOW#:			

Analysis Requested

Preservation Codes: N None; D HNO3

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D 7471B	6020B, 7470A	Total Number of containers	Special Instructions/Note
			Preservation Code				N	D		
6 SS-012_20250909	9/9/25	16:50	G	Solid	N	N	✓			
7 SS-024_20250909	9/9/25	13:00	G	Solid	N	N	✓			
8 SS-022_20250909	9/9/25	14:45	G	Solid	N	N	✓			
9 SS-014_20250909	9/9/25	15:55	G	Solid	N	N	✓			
10 SS-008_20250909	9/9/25	16:25	G	Solid	N	N	✓			
11 SS-029_20250909	9/9/25	11:30	G	Solid	N	N	✓			
12 SS-010_20250909	9/9/25	16:40	G	Solid	N	N	✓			
13 SS-023_20250909	9/9/25	14:30	G	Solid	N	N	✓			
14 SS-018_20250909	9/9/25	13:13	G	Solid	N	N	✓			
15 SS-009_20250909	9/9/25	16:03	G	Solid	N	N	✓			
16 SS-026_20250909	9/9/25	12:15	G	Solid	N	N	✓			

Other:

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Justin Brown	9/11/25 1200	Eah	[signature]	9/12/25 0900	EEA
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-274551-1

Login Number: 274551

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6,4.0,5.0,5.8,5.74
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Amanda Zeidler
White Pine Copper LLC
35362 Mall Circle Drive
White Pine, Michigan 49971

Generated 9/22/2025 3:47:57 PM

JOB DESCRIPTION

White Pine Copper Soils

JOB NUMBER

500-274552-1

Eurofins Chicago
18410 Crossing Drive
Suite E
Tinley Park IL 60487

See page two for job notes and contact information.

my EOL

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

Results relate only to the items tested and the sample(s) as received by the laboratory. The results, detection limits (LOD) and Quantitation Limits (LOQ) have been adjusted for sample dilutions and/or solids content.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Compliance Statement

The LOD and LOQ reported are adjusted by the dilution factor when a dilution factor greater than 1 is needed. Additionally, where results are indicated as being reported on a dry weight basis, the LOD and LOQ are adjusted for moisture content as well.

Definitions of Limits
- LOD = Limit of Detection = MDL as defined by 40 CFR part 136 Appendix B
- LOQ = Limit of Quantitation = 3.33 x LOD as defined by Wisconsin
- RL = Report Limit = a concentration supported by a standard in the calibration curves

Authorization



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Job Narrative
500-274552-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 9/12/2025 9:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 4.0°C, 5.0°C, 5.6°C, 5.7°C and 5.8°C.

Receipt Exceptions
The following sample(s) was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC). Added to COC and logged in.

Metals
Method 6010D: The method blank for preparation batch 500-834539 and analytical batch 500-834931 contained Copper above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-091_20250905 — Lab Sample ID: 500-274552-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		1.4	0.47	mg/Kg	1	☼	6010D	Total/NA
Barium	44		1.4	0.16	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.24	J	0.28	0.050	mg/Kg	1	☼	6010D	Total/NA
Chromium	9.4		1.4	0.69	mg/Kg	1	☼	6010D	Total/NA
Copper	44	B	1.4	0.39	mg/Kg	1	☼	6010D	Total/NA
Lead	11		0.69	0.32	mg/Kg	1	☼	6010D	Total/NA
Manganese	900	F2	1.4	0.20	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.0		1.4	0.40	mg/Kg	1	☼	6010D	Total/NA
Selenium	0.96	J	1.4	0.82	mg/Kg	1	☼	6010D	Total/NA
Silver	2.2	F1	0.69	0.18	mg/Kg	1	☼	6010D	Total/NA
Zinc	21	F1	2.8	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.053		0.024	0.0099	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-095_20250905 — Lab Sample ID: 500-274552-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.0		1.1	0.39	mg/Kg	1	☼	6010D	Total/NA
Barium	28		1.1	0.13	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.19	J	0.23	0.041	mg/Kg	1	☼	6010D	Total/NA
Chromium	12		1.1	0.56	mg/Kg	1	☼	6010D	Total/NA
Copper	28	B	1.1	0.32	mg/Kg	1	☼	6010D	Total/NA
Lead	7.8		0.57	0.26	mg/Kg	1	☼	6010D	Total/NA
Manganese	180		1.1	0.16	mg/Kg	1	☼	6010D	Total/NA
Nickel	9.2		1.1	0.33	mg/Kg	1	☼	6010D	Total/NA
Silver	0.67		0.57	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	28		2.3	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.019		0.018	0.0074	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-104_20250905 — Lab Sample ID: 500-274552-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.3		1.2	0.41	mg/Kg	1	☼	6010D	Total/NA
Barium	50		1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.14	J	0.24	0.043	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.2	0.59	mg/Kg	1	☼	6010D	Total/NA
Copper	25	B	1.2	0.33	mg/Kg	1	☼	6010D	Total/NA
Lead	9.6		0.59	0.27	mg/Kg	1	☼	6010D	Total/NA
Manganese	140		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	13		1.2	0.34	mg/Kg	1	☼	6010D	Total/NA
Silver	0.80		0.59	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	31		2.4	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.029		0.022	0.0089	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-090_20250905 — Lab Sample ID: 500-274552-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.1		1.2	0.41	mg/Kg	1	☼	6010D	Total/NA
Barium	24		1.2	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.18	J	0.24	0.043	mg/Kg	1	☼	6010D	Total/NA
Chromium	7.1		1.2	0.59	mg/Kg	1	☼	6010D	Total/NA
Copper	50	B	1.2	0.33	mg/Kg	1	☼	6010D	Total/NA
Lead	7.1		0.60	0.28	mg/Kg	1	☼	6010D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Client Sample ID: SS-090_20250905 (Continued)

Lab Sample ID: 500-274552-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	88		1.2	0.17	mg/Kg	1	☼	6010D	Total/NA
Nickel	4.5		1.2	0.35	mg/Kg	1	☼	6010D	Total/NA
Silver	0.50	J	0.60	0.15	mg/Kg	1	☼	6010D	Total/NA
Zinc	19		2.4	1.0	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.028		0.020	0.0081	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-088_20250906

Lab Sample ID: 500-274552-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.0		1.3	0.43	mg/Kg	1	☼	6010D	Total/NA
Barium	35		1.3	0.14	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.24	J	0.25	0.045	mg/Kg	1	☼	6010D	Total/NA
Chromium	12		1.3	0.62	mg/Kg	1	☼	6010D	Total/NA
Copper	100	B	1.3	0.35	mg/Kg	1	☼	6010D	Total/NA
Lead	9.8		0.63	0.29	mg/Kg	1	☼	6010D	Total/NA
Manganese	130		1.3	0.18	mg/Kg	1	☼	6010D	Total/NA
Nickel	8.7		1.3	0.36	mg/Kg	1	☼	6010D	Total/NA
Silver	0.74		0.63	0.16	mg/Kg	1	☼	6010D	Total/NA
Zinc	24		2.5	1.1	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.067		0.021	0.0085	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-087_20250906

Lab Sample ID: 500-274552-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.0		2.8	0.95	mg/Kg	1	☼	6010D	Total/NA
Barium	64		2.8	0.32	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.71		0.56	0.10	mg/Kg	1	☼	6010D	Total/NA
Chromium	11		2.8	1.4	mg/Kg	1	☼	6010D	Total/NA
Copper	190	B	2.8	0.78	mg/Kg	1	☼	6010D	Total/NA
Lead	4.8		1.4	0.64	mg/Kg	1	☼	6010D	Total/NA
Manganese	150		2.8	0.40	mg/Kg	1	☼	6010D	Total/NA
Nickel	11		2.8	0.81	mg/Kg	1	☼	6010D	Total/NA
Silver	0.81	J	1.4	0.36	mg/Kg	1	☼	6010D	Total/NA
Zinc	23		5.6	2.4	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.030	J	0.048	0.020	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-086_20250906

Lab Sample ID: 500-274552-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.9		1.0	0.35	mg/Kg	1	☼	6010D	Total/NA
Barium	58		1.0	0.12	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.18	J	0.20	0.037	mg/Kg	1	☼	6010D	Total/NA
Chromium	17		1.0	0.51	mg/Kg	1	☼	6010D	Total/NA
Copper	30	B	1.0	0.29	mg/Kg	1	☼	6010D	Total/NA
Lead	9.9		0.51	0.24	mg/Kg	1	☼	6010D	Total/NA
Manganese	330		1.0	0.15	mg/Kg	1	☼	6010D	Total/NA
Nickel	18		1.0	0.30	mg/Kg	1	☼	6010D	Total/NA
Silver	1.2		0.51	0.13	mg/Kg	1	☼	6010D	Total/NA
Zinc	51		2.0	0.90	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.024		0.017	0.0070	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: EB-02_20250906 — Lab Sample ID: 500-274552-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.62	J	2.0	0.50	ug/L	1		6020B	Total Recoverable

Client Sample ID: FB-01_20250904 — Lab Sample ID: 500-274552-9

No Detections.

Client Sample ID: EB-01_20250904 — Lab Sample ID: 500-274552-10

No Detections.

Client Sample ID: EB-03_20250909 — Lab Sample ID: 500-274552-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.52	J	2.0	0.50	ug/L	1		6020B	Total Recoverable

Client Sample ID: EB-04_20250909 — Lab Sample ID: 500-274552-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	2.8		2.0	0.50	ug/L	1		6020B	Total Recoverable
Manganese	0.80	J	2.5	0.79	ug/L	1		6020B	Total Recoverable
Silver	0.43	J	0.50	0.12	ug/L	1		6020B	Total Recoverable

Client Sample ID: EB-05_20250910 — Lab Sample ID: 500-274552-13

No Detections.

Client Sample ID: FB-01_20250910 — Lab Sample ID: 500-274552-14

No Detections.

Client Sample ID: SS-103_20250905 — Lab Sample ID: 500-274552-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8		1.4	0.48	mg/Kg	1	☼	6010D	Total/NA
Barium	83		1.4	0.16	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.75		0.28	0.050	mg/Kg	1	☼	6010D	Total/NA
Chromium	15		1.4	0.69	mg/Kg	1	☼	6010D	Total/NA
Copper	51	B	1.4	0.39	mg/Kg	1	☼	6010D	Total/NA
Lead	11		0.70	0.32	mg/Kg	1	☼	6010D	Total/NA
Manganese	490		1.4	0.20	mg/Kg	1	☼	6010D	Total/NA
Nickel	12		1.4	0.41	mg/Kg	1	☼	6010D	Total/NA
Silver	1.5		0.70	0.18	mg/Kg	1	☼	6010D	Total/NA
Zinc	64		2.8	1.2	mg/Kg	1	☼	6010D	Total/NA
Mercury	0.040		0.021	0.0088	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CHI
7470A	Mercury (CVAA)	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Sample Summary

Client: White Pine Copper LLC
Job ID: 500-274552-1
Project/Site: White Pine Copper Soils

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
500-274552-1	SS-091_20250905	Solid	09/05/25 08:30	09/12/25 09:00	Michigan
500-274552-2	SS-095_20250905	Solid	09/05/25 09:35	09/12/25 09:00	Michigan
500-274552-3	SS-104_20250905	Solid	09/05/25 14:00	09/12/25 09:00	Michigan
500-274552-4	SS-090_20250905	Solid	09/05/25 17:00	09/12/25 09:00	Michigan
500-274552-5	SS-088_20250906	Solid	09/06/25 09:20	09/12/25 09:00	Michigan
500-274552-6	SS-087_20250906	Solid	09/06/25 09:50	09/12/25 09:00	Michigan
500-274552-7	SS-086_20250906	Solid	09/06/25 10:40	09/12/25 09:00	Michigan
500-274552-8	EB-02_20250906	Water	09/06/25 18:08	09/12/25 09:00	Michigan
500-274552-9	FB-01_20250904	Water	09/04/25 18:10	09/12/25 09:00	Michigan
500-274552-10	EB-01_20250904	Water	09/04/25 18:12	09/12/25 09:00	Michigan
500-274552-11	EB-03_20250909	Water	09/09/25 09:30	09/12/25 09:00	Michigan
500-274552-12	EB-04_20250909	Water	09/09/25 18:00	09/12/25 09:00	Michigan
500-274552-13	EB-05_20250910	Water	09/10/25 09:00	09/12/25 09:00	Michigan
500-274552-14	FB-01_20250910	Water	09/10/25 09:05	09/12/25 09:00	Michigan
500-274552-15	SS-103_20250905	Solid	09/05/25 14:50	09/12/25 09:00	Michigan

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-091_20250905
Date Collected: 09/05/25 08:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-1
Matrix: Solid
Percent Solids: 66.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		1.4	0.47	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1
Barium	44		1.4	0.16	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1
Cadmium	0.24	J	0.28	0.050	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1
Chromium	9.4		1.4	0.69	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1
Copper	44	B	1.4	0.39	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1
Lead	11		0.69	0.32	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1
Manganese	900	F2	1.4	0.20	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1
Nickel	4.0		1.4	0.40	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1
Selenium	0.96	J	1.4	0.82	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1
Silver	2.2	F1	0.69	0.18	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1
Zinc	21	F1	2.8	1.2	mg/Kg	☼	09/18/25 09:10	09/20/25 00:23	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.053		0.024	0.0099	mg/Kg	☼	09/19/25 12:45	09/22/25 09:19	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-095_20250905
Date Collected: 09/05/25 09:35
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-2
Matrix: Solid
Percent Solids: 81.1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		1.1	0.39	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1
Barium	28		1.1	0.13	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1
Cadmium	0.19	J	0.23	0.041	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1
Chromium	12		1.1	0.56	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1
Copper	28	B	1.1	0.32	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1
Lead	7.8		0.57	0.26	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1
Manganese	180		1.1	0.16	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1
Nickel	9.2		1.1	0.33	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1
Silver	0.67		0.57	0.15	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1
Zinc	28		2.3	1.0	mg/Kg	☼	09/18/25 09:10	09/20/25 00:45	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.019		0.018	0.0074	mg/Kg	☼	09/19/25 12:45	09/22/25 09:21	1

Client Sample Results

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-104_20250905
Date Collected: 09/05/25 14:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-3
Matrix: Solid
Percent Solids: 72.8

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		1.2	0.41	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1
Barium	50		1.2	0.14	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1
Cadmium	0.14	J	0.24	0.043	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1
Chromium	17		1.2	0.59	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1
Copper	25	B	1.2	0.33	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1
Lead	9.6		0.59	0.27	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1
Manganese	140		1.2	0.17	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1
Nickel	13		1.2	0.34	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1
Selenium	<0.70		1.2	0.70	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1
Silver	0.80		0.59	0.15	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1
Zinc	31		2.4	1.0	mg/Kg	☼	09/18/25 09:10	09/20/25 00:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.022	0.0089	mg/Kg	☼	09/19/25 12:45	09/22/25 09:23	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-090_20250905
Date Collected: 09/05/25 17:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-4
Matrix: Solid
Percent Solids: 80.0

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.1		1.2	0.41	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1
Barium	24		1.2	0.14	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1
Cadmium	0.18	J	0.24	0.043	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1
Chromium	7.1		1.2	0.59	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1
Copper	50	B	1.2	0.33	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1
Lead	7.1		0.60	0.28	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1
Manganese	88		1.2	0.17	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1
Nickel	4.5		1.2	0.35	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1
Selenium	<0.70		1.2	0.70	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1
Silver	0.50	J	0.60	0.15	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1
Zinc	19		2.4	1.0	mg/Kg	☼	09/18/25 09:10	09/20/25 00:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.020	0.0081	mg/Kg	☼	09/19/25 12:45	09/22/25 09:25	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-088_20250906
Date Collected: 09/06/25 09:20
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-5
Matrix: Solid
Percent Solids: 75.7

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		1.3	0.43	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1
Barium	35		1.3	0.14	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1
Cadmium	0.24	J	0.25	0.045	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1
Chromium	12		1.3	0.62	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1
Copper	100	B	1.3	0.35	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1
Lead	9.8		0.63	0.29	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1
Manganese	130		1.3	0.18	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1
Nickel	8.7		1.3	0.36	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1
Selenium	<0.74		1.3	0.74	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1
Silver	0.74		0.63	0.16	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1
Zinc	24		2.5	1.1	mg/Kg	☼	09/18/25 09:10	09/20/25 00:59	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.067		0.021	0.0085	mg/Kg	☼	09/19/25 12:45	09/22/25 10:25	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-087_20250906
Date Collected: 09/06/25 09:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-6
Matrix: Solid
Percent Solids: 31.6

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.0		2.8	0.95	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1
Barium	64		2.8	0.32	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1
Cadmium	0.71		0.56	0.10	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1
Chromium	11		2.8	1.4	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1
Copper	190	B	2.8	0.78	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1
Lead	4.8		1.4	0.64	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1
Manganese	150		2.8	0.40	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1
Nickel	11		2.8	0.81	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1
Selenium	<1.6		2.8	1.6	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1
Silver	0.81	J	1.4	0.36	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1
Zinc	23		5.6	2.4	mg/Kg	☼	09/18/25 09:10	09/20/25 01:03	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030	J	0.048	0.020	mg/Kg	☼	09/19/25 12:45	09/22/25 10:27	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-086_20250906
Date Collected: 09/06/25 10:40
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-7
Matrix: Solid
Percent Solids: 88.3

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9		1.0	0.35	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1
Barium	58		1.0	0.12	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1
Cadmium	0.18	J	0.20	0.037	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1
Chromium	17		1.0	0.51	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1
Copper	30	B	1.0	0.29	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1
Lead	9.9		0.51	0.24	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1
Manganese	330		1.0	0.15	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1
Nickel	18		1.0	0.30	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1
Silver	1.2		0.51	0.13	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1
Zinc	51		2.0	0.90	mg/Kg	☼	09/18/25 09:10	09/20/25 01:16	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.017	0.0070	mg/Kg	☼	09/19/25 12:45	09/22/25 10:29	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: EB-02_20250906
Date Collected: 09/06/25 18:08
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-8
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/15/25 13:39	09/16/25 14:07	1
Barium	<0.73		2.5	0.73	ug/L		09/15/25 13:39	09/16/25 14:07	1
Cadmium	<0.17		0.50	0.17	ug/L		09/15/25 13:39	09/16/25 14:07	1
Chromium	<1.1		5.0	1.1	ug/L		09/15/25 13:39	09/16/25 14:07	1
Copper	**0.62**	**J**	2.0	0.50	ug/L		09/15/25 13:39	09/16/25 14:07	1
Lead	<0.19		0.50	0.19	ug/L		09/15/25 13:39	09/16/25 14:07	1
Manganese	<0.79		2.5	0.79	ug/L		09/15/25 13:39	09/16/25 14:07	1
Nickel	<0.63		2.0	0.63	ug/L		09/15/25 13:39	09/16/25 14:07	1
Selenium	<0.98		2.5	0.98	ug/L		09/15/25 13:39	09/16/25 14:07	1
Silver	<0.12		0.50	0.12	ug/L		09/15/25 13:39	09/16/25 14:07	1
Zinc	<6.9		20	6.9	ug/L		09/15/25 13:39	09/16/25 14:07	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		09/18/25 11:00	09/19/25 10:38	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: FB-01_20250904
Date Collected: 09/04/25 18:10
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-9
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/15/25 13:39	09/16/25 14:10	1
Barium	<0.73		2.5	0.73	ug/L		09/15/25 13:39	09/16/25 14:10	1
Cadmium	<0.17		0.50	0.17	ug/L		09/15/25 13:39	09/16/25 14:10	1
Chromium	<1.1		5.0	1.1	ug/L		09/15/25 13:39	09/16/25 14:10	1
Copper	<0.50		2.0	0.50	ug/L		09/15/25 13:39	09/16/25 14:10	1
Lead	<0.19		0.50	0.19	ug/L		09/15/25 13:39	09/16/25 14:10	1
Manganese	<0.79		2.5	0.79	ug/L		09/15/25 13:39	09/16/25 14:10	1
Nickel	<0.63		2.0	0.63	ug/L		09/15/25 13:39	09/16/25 14:10	1
Selenium	<0.98		2.5	0.98	ug/L		09/15/25 13:39	09/16/25 14:10	1
Silver	<0.12		0.50	0.12	ug/L		09/15/25 13:39	09/16/25 14:10	1
Zinc	<6.9		20	6.9	ug/L		09/15/25 13:39	09/16/25 14:10	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		09/18/25 11:00	09/19/25 10:40	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: EB-01_20250904
Date Collected: 09/04/25 18:12
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-10
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/15/25 13:39	09/16/25 14:13	1
Barium	<0.73		2.5	0.73	ug/L		09/15/25 13:39	09/16/25 14:13	1
Cadmium	<0.17		0.50	0.17	ug/L		09/15/25 13:39	09/16/25 14:13	1
Chromium	<1.1		5.0	1.1	ug/L		09/15/25 13:39	09/16/25 14:13	1
Copper	<0.50		2.0	0.50	ug/L		09/15/25 13:39	09/16/25 14:13	1
Lead	<0.19		0.50	0.19	ug/L		09/15/25 13:39	09/16/25 14:13	1
Manganese	<0.79		2.5	0.79	ug/L		09/15/25 13:39	09/16/25 14:13	1
Nickel	<0.63		2.0	0.63	ug/L		09/15/25 13:39	09/16/25 14:13	1
Selenium	<0.98		2.5	0.98	ug/L		09/15/25 13:39	09/16/25 14:13	1
Silver	<0.12		0.50	0.12	ug/L		09/15/25 13:39	09/16/25 14:13	1
Zinc	<6.9		20	6.9	ug/L		09/15/25 13:39	09/16/25 14:13	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		09/18/25 11:00	09/19/25 10:42	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: EB-03_20250909
Date Collected: 09/09/25 09:30
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-11
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/15/25 13:39	09/16/25 14:15	1
Barium	<0.73		2.5	0.73	ug/L		09/15/25 13:39	09/16/25 14:15	1
Cadmium	<0.17		0.50	0.17	ug/L		09/15/25 13:39	09/16/25 14:15	1
Chromium	<1.1		5.0	1.1	ug/L		09/15/25 13:39	09/16/25 14:15	1
Copper	**0.52**	**J**	2.0	0.50	ug/L		09/15/25 13:39	09/16/25 14:15	1
Lead	<0.19		0.50	0.19	ug/L		09/15/25 13:39	09/16/25 14:15	1
Manganese	<0.79		2.5	0.79	ug/L		09/15/25 13:39	09/16/25 14:15	1
Nickel	<0.63		2.0	0.63	ug/L		09/15/25 13:39	09/16/25 14:15	1
Selenium	<0.98		2.5	0.98	ug/L		09/15/25 13:39	09/16/25 14:15	1
Silver	<0.12		0.50	0.12	ug/L		09/15/25 13:39	09/16/25 14:15	1
Zinc	<6.9		20	6.9	ug/L		09/15/25 13:39	09/16/25 14:15	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		09/18/25 11:00	09/19/25 11:28	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: EB-04_20250909
Date Collected: 09/09/25 18:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-12
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/15/25 13:39	09/16/25 14:18	1
Barium	<0.73		2.5	0.73	ug/L		09/15/25 13:39	09/16/25 14:18	1
Cadmium	<0.17		0.50	0.17	ug/L		09/15/25 13:39	09/16/25 14:18	1
Chromium	<1.1		5.0	1.1	ug/L		09/15/25 13:39	09/16/25 14:18	1
Copper	**2.8**		2.0	0.50	ug/L		09/15/25 13:39	09/16/25 14:18	1
Lead	<0.19		0.50	0.19	ug/L		09/15/25 13:39	09/16/25 14:18	1
Manganese	**0.80**	**J**	2.5	0.79	ug/L		09/15/25 13:39	09/16/25 14:18	1
Nickel	<0.63		2.0	0.63	ug/L		09/15/25 13:39	09/16/25 14:18	1
Selenium	<0.98		2.5	0.98	ug/L		09/15/25 13:39	09/16/25 14:18	1
Silver	**0.43**	**J**	0.50	0.12	ug/L		09/15/25 13:39	09/16/25 14:18	1
Zinc	<6.9		20	6.9	ug/L		09/15/25 13:39	09/16/25 14:18	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		09/18/25 11:00	09/19/25 11:30	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: EB-05_20250910
Date Collected: 09/10/25 09:00
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-13
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/15/25 13:39	09/16/25 14:21	1
Barium	<0.73		2.5	0.73	ug/L		09/15/25 13:39	09/16/25 14:21	1
Cadmium	<0.17		0.50	0.17	ug/L		09/15/25 13:39	09/16/25 14:21	1
Chromium	<1.1		5.0	1.1	ug/L		09/15/25 13:39	09/16/25 14:21	1
Copper	<0.50		2.0	0.50	ug/L		09/15/25 13:39	09/16/25 14:21	1
Lead	<0.19		0.50	0.19	ug/L		09/15/25 13:39	09/16/25 14:21	1
Manganese	<0.79		2.5	0.79	ug/L		09/15/25 13:39	09/16/25 14:21	1
Nickel	<0.63		2.0	0.63	ug/L		09/15/25 13:39	09/16/25 14:21	1
Selenium	<0.98		2.5	0.98	ug/L		09/15/25 13:39	09/16/25 14:21	1
Silver	<0.12		0.50	0.12	ug/L		09/15/25 13:39	09/16/25 14:21	1
Zinc	<6.9		20	6.9	ug/L		09/15/25 13:39	09/16/25 14:21	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		09/18/25 11:00	09/19/25 11:32	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: FB-01_20250910
Date Collected: 09/10/25 09:05
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-14
Matrix: Water

Method: SW846 6020B - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/15/25 13:39	09/16/25 14:40	1
Barium	<0.73		2.5	0.73	ug/L		09/15/25 13:39	09/16/25 14:40	1
Cadmium	<0.17		0.50	0.17	ug/L		09/15/25 13:39	09/16/25 14:40	1
Chromium	<1.1		5.0	1.1	ug/L		09/15/25 13:39	09/16/25 14:40	1
Copper	<0.50		2.0	0.50	ug/L		09/15/25 13:39	09/16/25 14:40	1
Lead	<0.19		0.50	0.19	ug/L		09/15/25 13:39	09/16/25 14:40	1
Manganese	<0.79		2.5	0.79	ug/L		09/15/25 13:39	09/16/25 14:40	1
Nickel	<0.63		2.0	0.63	ug/L		09/15/25 13:39	09/16/25 14:40	1
Selenium	<0.98		2.5	0.98	ug/L		09/15/25 13:39	09/16/25 14:40	1
Silver	<0.12		0.50	0.12	ug/L		09/15/25 13:39	09/16/25 14:40	1
Zinc	<6.9		20	6.9	ug/L		09/15/25 13:39	09/16/25 14:40	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		09/18/25 11:00	09/19/25 11:34	1

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-103_20250905
Date Collected: 09/05/25 14:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-15
Matrix: Solid
Percent Solids: 71.4

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		1.4	0.48	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1
Barium	83		1.4	0.16	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1
Cadmium	0.75		0.28	0.050	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1
Chromium	15		1.4	0.69	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1
Copper	51	B	1.4	0.39	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1
Lead	11		0.70	0.32	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1
Manganese	490		1.4	0.20	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1
Nickel	12		1.4	0.41	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1
Selenium	<0.82		1.4	0.82	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1
Silver	1.5		0.70	0.18	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1
Zinc	64		2.8	1.2	mg/Kg	☼	09/18/25 09:10	09/20/25 01:20	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.040		0.021	0.0088	mg/Kg	☼	09/19/25 12:45	09/22/25 10:36	1

Definitions/Glossary

Client: White Pine Copper LLC
Job ID: 500-274552-1
Project/Site: White Pine Copper Soils

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 833991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-8	EB-02_20250906	Total Recoverable	Water	3005A	
500-274552-9	FB-01_20250904	Total Recoverable	Water	3005A	
500-274552-10	EB-01_20250904	Total Recoverable	Water	3005A	
500-274552-11	EB-03_20250909	Total Recoverable	Water	3005A	
500-274552-12	EB-04_20250909	Total Recoverable	Water	3005A	
500-274552-13	EB-05_20250910	Total Recoverable	Water	3005A	
500-274552-14	FB-01_20250910	Total Recoverable	Water	3005A	
MB 500-833991/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-833991/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 834287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-8	EB-02_20250906	Total Recoverable	Water	6020B	833991
500-274552-9	FB-01_20250904	Total Recoverable	Water	6020B	833991
500-274552-10	EB-01_20250904	Total Recoverable	Water	6020B	833991
500-274552-11	EB-03_20250909	Total Recoverable	Water	6020B	833991
500-274552-12	EB-04_20250909	Total Recoverable	Water	6020B	833991
500-274552-13	EB-05_20250910	Total Recoverable	Water	6020B	833991
500-274552-14	FB-01_20250910	Total Recoverable	Water	6020B	833991
MB 500-833991/1-A	Method Blank	Total Recoverable	Water	6020B	833991
LCS 500-833991/2-A	Lab Control Sample	Total Recoverable	Water	6020B	833991

Prep Batch: 834539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-1	SS-091_20250905	Total/NA	Solid	3050B	
500-274552-2	SS-095_20250905	Total/NA	Solid	3050B	
500-274552-3	SS-104_20250905	Total/NA	Solid	3050B	
500-274552-4	SS-090_20250905	Total/NA	Solid	3050B	
500-274552-5	SS-088_20250906	Total/NA	Solid	3050B	
500-274552-6	SS-087_20250906	Total/NA	Solid	3050B	
500-274552-7	SS-086_20250906	Total/NA	Solid	3050B	
500-274552-15	SS-103_20250905	Total/NA	Solid	3050B	
MB 500-834539/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-834539/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-274552-1 MS	SS-091_20250905	Total/NA	Solid	3050B	
500-274552-1 MSD	SS-091_20250905	Total/NA	Solid	3050B	
500-274552-1 DU	SS-091_20250905	Total/NA	Solid	3050B	

Prep Batch: 834548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-8	EB-02_20250906	Total/NA	Water	7470A	
500-274552-9	FB-01_20250904	Total/NA	Water	7470A	
500-274552-10	EB-01_20250904	Total/NA	Water	7470A	
500-274552-11	EB-03_20250909	Total/NA	Water	7470A	
500-274552-12	EB-04_20250909	Total/NA	Water	7470A	
500-274552-13	EB-05_20250910	Total/NA	Water	7470A	
500-274552-14	FB-01_20250910	Total/NA	Water	7470A	
MB 500-834548/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-834548/13-A	Lab Control Sample	Total/NA	Water	7470A	
500-274552-10 MS	EB-01_20250904	Total/NA	Water	7470A	
500-274552-10 MSD	EB-01_20250904	Total/NA	Water	7470A	

Metals (Continued)

Prep Batch: 834548 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-10 DU	EB-01_20250904	Total/NA	Water	7470A	

Prep Batch: 834664

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-1	SS-091_20250905	Total/NA	Solid	7471B	
500-274552-2	SS-095_20250905	Total/NA	Solid	7471B	
500-274552-3	SS-104_20250905	Total/NA	Solid	7471B	
500-274552-4	SS-090_20250905	Total/NA	Solid	7471B	
500-274552-5	SS-088_20250906	Total/NA	Solid	7471B	
500-274552-6	SS-087_20250906	Total/NA	Solid	7471B	
500-274552-7	SS-086_20250906	Total/NA	Solid	7471B	
500-274552-15	SS-103_20250905	Total/NA	Solid	7471B	
MB 500-834664/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-834664/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-274552-7 MS	SS-086_20250906	Total/NA	Solid	7471B	
500-274552-7 MSD	SS-086_20250906	Total/NA	Solid	7471B	
500-274552-7 DU	SS-086_20250906	Total/NA	Solid	7471B	

Analysis Batch: 834788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-8	EB-02_20250906	Total/NA	Water	7470A	834548
500-274552-9	FB-01_20250904	Total/NA	Water	7470A	834548
500-274552-10	EB-01_20250904	Total/NA	Water	7470A	834548
500-274552-11	EB-03_20250909	Total/NA	Water	7470A	834548
500-274552-12	EB-04_20250909	Total/NA	Water	7470A	834548
500-274552-13	EB-05_20250910	Total/NA	Water	7470A	834548
500-274552-14	FB-01_20250910	Total/NA	Water	7470A	834548
MB 500-834548/12-A	Method Blank	Total/NA	Water	7470A	834548
LCS 500-834548/13-A	Lab Control Sample	Total/NA	Water	7470A	834548
500-274552-10 MS	EB-01_20250904	Total/NA	Water	7470A	834548
500-274552-10 MSD	EB-01_20250904	Total/NA	Water	7470A	834548
500-274552-10 DU	EB-01_20250904	Total/NA	Water	7470A	834548

Analysis Batch: 834931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-1	SS-091_20250905	Total/NA	Solid	6010D	834539
500-274552-2	SS-095_20250905	Total/NA	Solid	6010D	834539
500-274552-3	SS-104_20250905	Total/NA	Solid	6010D	834539
500-274552-4	SS-090_20250905	Total/NA	Solid	6010D	834539
500-274552-5	SS-088_20250906	Total/NA	Solid	6010D	834539
500-274552-6	SS-087_20250906	Total/NA	Solid	6010D	834539
500-274552-7	SS-086_20250906	Total/NA	Solid	6010D	834539
500-274552-15	SS-103_20250905	Total/NA	Solid	6010D	834539
MB 500-834539/1-A	Method Blank	Total/NA	Solid	6010D	834539
LCS 500-834539/2-A	Lab Control Sample	Total/NA	Solid	6010D	834539
500-274552-1 MS	SS-091_20250905	Total/NA	Solid	6010D	834539
500-274552-1 MSD	SS-091_20250905	Total/NA	Solid	6010D	834539
500-274552-1 DU	SS-091_20250905	Total/NA	Solid	6010D	834539

QC Association Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Metals

Analysis Batch: 834950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-1	SS-091_20250905	Total/NA	Solid	7471B	834664
500-274552-2	SS-095_20250905	Total/NA	Solid	7471B	834664
500-274552-3	SS-104_20250905	Total/NA	Solid	7471B	834664
500-274552-4	SS-090_20250905	Total/NA	Solid	7471B	834664
MB 500-834664/12-A	Method Blank	Total/NA	Solid	7471B	834664
LCS 500-834664/13-A	Lab Control Sample	Total/NA	Solid	7471B	834664

Analysis Batch: 834973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-5	SS-088_20250906	Total/NA	Solid	7471B	834664
500-274552-6	SS-087_20250906	Total/NA	Solid	7471B	834664
500-274552-7	SS-086_20250906	Total/NA	Solid	7471B	834664
500-274552-15	SS-103_20250905	Total/NA	Solid	7471B	834664
MB 500-834664/12-A	Method Blank	Total/NA	Solid	7471B	834664
LCS 500-834664/13-A	Lab Control Sample	Total/NA	Solid	7471B	834664
500-274552-7 MS	SS-086_20250906	Total/NA	Solid	7471B	834664
500-274552-7 MSD	SS-086_20250906	Total/NA	Solid	7471B	834664
500-274552-7 DU	SS-086_20250906	Total/NA	Solid	7471B	834664

General Chemistry

Analysis Batch: 833954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-274552-1	SS-091_20250905	Total/NA	Solid	Moisture	
500-274552-2	SS-095_20250905	Total/NA	Solid	Moisture	
500-274552-3	SS-104_20250905	Total/NA	Solid	Moisture	
500-274552-4	SS-090_20250905	Total/NA	Solid	Moisture	
500-274552-5	SS-088_20250906	Total/NA	Solid	Moisture	
500-274552-6	SS-087_20250906	Total/NA	Solid	Moisture	
500-274552-7	SS-086_20250906	Total/NA	Solid	Moisture	
500-274552-15	SS-103_20250905	Total/NA	Solid	Moisture	

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-834539/1-A
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/18/25 09:10	09/20/25 00:06	1
Barium	<0.11		1.0	0.11	mg/Kg		09/18/25 09:10	09/20/25 00:06	1
Cadmium	<0.036		0.20	0.036	mg/Kg		09/18/25 09:10	09/20/25 00:06	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/18/25 09:10	09/20/25 00:06	1
Copper	0.435	J	1.0	0.28	mg/Kg		09/18/25 09:10	09/20/25 00:06	1
Lead	<0.23		0.50	0.23	mg/Kg		09/18/25 09:10	09/20/25 00:06	1
Manganese	<0.15		1.0	0.15	mg/Kg		09/18/25 09:10	09/20/25 00:06	1
Nickel	<0.29		1.0	0.29	mg/Kg		09/18/25 09:10	09/20/25 00:06	1
Selenium	<0.59		1.0	0.59	mg/Kg		09/18/25 09:10	09/20/25 00:06	1
Silver	<0.13		0.50	0.13	mg/Kg		09/18/25 09:10	09/20/25 00:06	1
Zinc	<0.88		2.0	0.88	mg/Kg		09/18/25 09:10	09/20/25 00:06	1

Lab Sample ID: LCS 500-834539/2-A
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.85		mg/Kg		98	80 - 120
Barium	200	195		mg/Kg		97	80 - 120
Cadmium	5.00	4.53		mg/Kg		91	80 - 120
Chromium	20.0	18.5		mg/Kg		93	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Lead	10.0	10.2		mg/Kg		102	80 - 120
Manganese	50.0	50.5		mg/Kg		101	80 - 120
Nickel	50.0	50.3		mg/Kg		101	80 - 120
Selenium	10.0	9.50		mg/Kg		95	80 - 120
Silver	5.00	4.54		mg/Kg		91	80 - 120
Zinc	50.0	47.1		mg/Kg		94	80 - 120

Lab Sample ID: 500-274552-1 MS
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: SS-091_20250905
Prep Type: Total/NA
Prep Batch: 834539

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	3.1		13.0	16.1		mg/Kg	☼	100	75 - 125
Barium	44		260	309		mg/Kg	☼	102	75 - 125
Cadmium	0.24	J	6.49	6.19		mg/Kg	☼	92	75 - 125
Chromium	9.4		26.0	38.8		mg/Kg	☼	113	75 - 125
Copper	44	B	32.5	73.0		mg/Kg	☼	89	75 - 125
Lead	11		13.0	25.5		mg/Kg	☼	112	75 - 125
Manganese	900	F2	64.9	2380	4	mg/Kg	☼	2280	75 - 125
Nickel	4.0		64.9	71.6		mg/Kg	☼	104	75 - 125
Selenium	0.96	J	13.0	13.1		mg/Kg	☼	94	75 - 125
Silver	2.2	F1	6.49	11.3	F1	mg/Kg	☼	139	75 - 125
Zinc	21	F1	64.9	102	F1	mg/Kg	☼	126	75 - 125

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 500-274552-1 MSD
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: SS-091_20250905
Prep Type: Total/NA
Prep Batch: 834539

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	3.1		14.3	19.5		mg/Kg	☼	114	75 - 125	19	20
Barium	44		286	330		mg/Kg	☼	100	75 - 125	6	20
Cadmium	0.24	J	7.15	6.93		mg/Kg	☼	94	75 - 125	11	20
Chromium	9.4		28.6	43.5		mg/Kg	☼	119	75 - 125	11	20
Copper	44	B	35.7	79.2		mg/Kg	☼	98	75 - 125	8	20
Lead	11		14.3	28.4		mg/Kg	☼	123	75 - 125	11	20
Manganese	900	F2	71.5	1280	4 F2	mg/Kg	☼	532	75 - 125	60	20
Nickel	4.0		71.5	79.0		mg/Kg	☼	105	75 - 125	10	20
Selenium	0.96	J	14.3	14.3		mg/Kg	☼	93	75 - 125	9	20
Silver	2.2	F1	7.15	10.7		mg/Kg	☼	118	75 - 125	5	20
Zinc	21	F1	71.5	110		mg/Kg	☼	125	75 - 125	7	20

Lab Sample ID: 500-274552-1 DU
Matrix: Solid
Analysis Batch: 834931

Client Sample ID: SS-091_20250905
Prep Type: Total/NA
Prep Batch: 834539

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	3.1		2.81		mg/Kg	☼	11	20
Barium	44		37.5		mg/Kg	☼	17	20
Cadmium	0.24	J	0.223	J	mg/Kg	☼	7	20
Chromium	9.4		9.59		mg/Kg	☼	2	20
Copper	44	B	43.1		mg/Kg	☼	2	20
Lead	11		9.27		mg/Kg	☼	16	20
Manganese	900	F2	351	F3	mg/Kg	☼	88	20
Nickel	4.0		4.07		mg/Kg	☼	2	20
Selenium	0.96	J	<0.84		mg/Kg	☼	NC	20
Silver	2.2	F1	1.17	F3	mg/Kg	☼	62	20
Zinc	21	F1	20.7		mg/Kg	☼	0.05	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 500-833991/1-A
Matrix: Water
Analysis Batch: 834287

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 833991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		09/15/25 13:39	09/16/25 13:26	1
Barium	<0.73		2.5	0.73	ug/L		09/15/25 13:39	09/16/25 13:26	1
Cadmium	<0.17		0.50	0.17	ug/L		09/15/25 13:39	09/16/25 13:26	1
Chromium	<1.1		5.0	1.1	ug/L		09/15/25 13:39	09/16/25 13:26	1
Copper	<0.50		2.0	0.50	ug/L		09/15/25 13:39	09/16/25 13:26	1
Lead	<0.19		0.50	0.19	ug/L		09/15/25 13:39	09/16/25 13:26	1
Manganese	<0.79		2.5	0.79	ug/L		09/15/25 13:39	09/16/25 13:26	1
Nickel	<0.63		2.0	0.63	ug/L		09/15/25 13:39	09/16/25 13:26	1
Selenium	<0.98		2.5	0.98	ug/L		09/15/25 13:39	09/16/25 13:26	1
Silver	<0.12		0.50	0.12	ug/L		09/15/25 13:39	09/16/25 13:26	1
Zinc	<6.9		20	6.9	ug/L		09/15/25 13:39	09/16/25 13:26	1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 500-833991/2-A
Matrix: Water
Analysis Batch: 834287

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 833991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	100	97.8		ug/L		98	80 - 120
Barium	500	504		ug/L		101	80 - 120
Cadmium	50.0	50.2		ug/L		100	80 - 120
Chromium	200	198		ug/L		99	80 - 120
Copper	250	247		ug/L		99	80 - 120
Lead	100	103		ug/L		103	80 - 120
Manganese	500	519		ug/L		104	80 - 120
Nickel	500	502		ug/L		100	80 - 120
Selenium	100	101		ug/L		101	80 - 120
Silver	50.0	51.5		ug/L		103	80 - 120
Zinc	500	498		ug/L		100	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-834548/12-A
Matrix: Water
Analysis Batch: 834788

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.076		0.20	0.076	ug/L		09/18/25 11:00	09/19/25 10:29	1

Lab Sample ID: LCS 500-834548/13-A
Matrix: Water
Analysis Batch: 834788

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.00	2.14		ug/L		107	80 - 120

Lab Sample ID: 500-274552-10 MS
Matrix: Water
Analysis Batch: 834788

Client Sample ID: EB-01_20250904
Prep Type: Total/NA
Prep Batch: 834548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.076		1.00	0.930		ug/L		93	75 - 125

Lab Sample ID: 500-274552-10 MSD
Matrix: Water
Analysis Batch: 834788

Client Sample ID: EB-01_20250904
Prep Type: Total/NA
Prep Batch: 834548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.076		1.00	0.942		ug/L		94	75 - 125	1	20

Lab Sample ID: 500-274552-10 DU
Matrix: Water
Analysis Batch: 834788

Client Sample ID: EB-01_20250904
Prep Type: Total/NA
Prep Batch: 834548

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	<0.076		<0.076		ug/L		NC	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-834664/12-A
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		09/19/25 12:45	09/22/25 09:10	1

Lab Sample ID: MB 500-834664/12-A
Matrix: Solid
Analysis Batch: 834973

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 834664

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0069		0.017	0.0069	mg/Kg		09/19/25 12:45	09/22/25 10:22	1

Lab Sample ID: LCS 500-834664/13-A
Matrix: Solid
Analysis Batch: 834950

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.136		mg/Kg		82	80 - 120

Lab Sample ID: LCS 500-834664/13-A
Matrix: Solid
Analysis Batch: 834973

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 834664

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.169		mg/Kg		101	80 - 120

Lab Sample ID: 500-274552-7 MS
Matrix: Solid
Analysis Batch: 834973

Client Sample ID: SS-086_20250906
Prep Type: Total/NA
Prep Batch: 834664

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.024		0.0832	0.118		mg/Kg	☼	113	75 - 125

Lab Sample ID: 500-274552-7 MSD
Matrix: Solid
Analysis Batch: 834973

Client Sample ID: SS-086_20250906
Prep Type: Total/NA
Prep Batch: 834664

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.024		0.0840	0.109		mg/Kg	☼	101	75 - 125	8	20

Lab Sample ID: 500-274552-7 DU
Matrix: Solid
Analysis Batch: 834973

Client Sample ID: SS-086_20250906
Prep Type: Total/NA
Prep Batch: 834664

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.024		0.0201		mg/Kg	☼	16	20

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-091_20250905
Lab Sample ID: 500-274552-1
Date Collected: 09/05/25 08:30
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Client Sample ID: SS-091_20250905
Lab Sample ID: 500-274552-1
Date Collected: 09/05/25 08:30
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 66.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834539	BDE	EET CHI	09/18/25 09:10 - 09/18/25 15:10 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 00:23
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 09:19

Client Sample ID: SS-095_20250905
Lab Sample ID: 500-274552-2
Date Collected: 09/05/25 09:35
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Client Sample ID: SS-095_20250905
Lab Sample ID: 500-274552-2
Date Collected: 09/05/25 09:35
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834539	BDE	EET CHI	09/18/25 09:10 - 09/18/25 15:10 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 00:45
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 09:21

Client Sample ID: SS-104_20250905
Lab Sample ID: 500-274552-3
Date Collected: 09/05/25 14:00
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Client Sample ID: SS-104_20250905
Lab Sample ID: 500-274552-3
Date Collected: 09/05/25 14:00
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 72.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834539	BDE	EET CHI	09/18/25 09:10 - 09/18/25 15:10 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 00:50
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 09:23

Client Sample ID: SS-090_20250905 — **Lab Sample ID: 500-274552-4**
Date Collected: 09/05/25 17:00 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Client Sample ID: SS-090_20250905 — **Lab Sample ID: 500-274552-4**
Date Collected: 09/05/25 17:00 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 80.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834539	BDE	EET CHI	09/18/25 09:10 - 09/18/25 15:10 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 00:54
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834950	MJG	EET CHI	09/22/25 09:25

Client Sample ID: SS-088_20250906 — **Lab Sample ID: 500-274552-5**
Date Collected: 09/06/25 09:20 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Client Sample ID: SS-088_20250906 — **Lab Sample ID: 500-274552-5**
Date Collected: 09/06/25 09:20 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 75.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834539	BDE	EET CHI	09/18/25 09:10 - 09/18/25 15:10 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 00:59
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834973	MJG	EET CHI	09/22/25 10:25

Client Sample ID: SS-087_20250906 — **Lab Sample ID: 500-274552-6**
Date Collected: 09/06/25 09:50 — **Matrix: Solid**
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Client Sample ID: SS-087_20250906 — **Lab Sample ID: 500-274552-6**
Date Collected: 09/06/25 09:50 — **Matrix: Solid**
Date Received: 09/12/25 09:00 — **Percent Solids: 31.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834539	BDE	EET CHI	09/18/25 09:10 - 09/18/25 15:10 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 01:03
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834973	MJG	EET CHI	09/22/25 10:27

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-086_20250906

Lab Sample ID: 500-274552-7

Date Collected: 09/06/25 10:40
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Client Sample ID: SS-086_20250906

Lab Sample ID: 500-274552-7

Date Collected: 09/06/25 10:40
Matrix: Solid
Date Received: 09/12/25 09:00
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834539	BDE	EET CHI	09/18/25 09:10 - 09/18/25 15:10 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 01:16
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834973	MJG	EET CHI	09/22/25 10:29

Client Sample ID: EB-02_20250906

Lab Sample ID: 500-274552-8

Date Collected: 09/06/25 18:08
Matrix: Water
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			833991	MS	EET CHI	09/15/25 13:39 - 09/15/25 19:39 [1]
Total Recoverable	Analysis	6020B		1	834287	RN	EET CHI	09/16/25 14:07
Total/NA	Prep	7470A			834548	MJG	EET CHI	09/18/25 11:00 - 09/18/25 13:00 [1]
Total/NA	Analysis	7470A		1	834788	MJG	EET CHI	09/19/25 10:38

Client Sample ID: FB-01_20250904

Lab Sample ID: 500-274552-9

Date Collected: 09/04/25 18:10
Matrix: Water
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			833991	MS	EET CHI	09/15/25 13:39 - 09/15/25 19:39 [1]
Total Recoverable	Analysis	6020B		1	834287	RN	EET CHI	09/16/25 14:10
Total/NA	Prep	7470A			834548	MJG	EET CHI	09/18/25 11:00 - 09/18/25 13:00 [1]
Total/NA	Analysis	7470A		1	834788	MJG	EET CHI	09/19/25 10:40

Client Sample ID: EB-01_20250904

Lab Sample ID: 500-274552-10

Date Collected: 09/04/25 18:12
Matrix: Water
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			833991	MS	EET CHI	09/15/25 13:39 - 09/15/25 19:39 [1]
Total Recoverable	Analysis	6020B		1	834287	RN	EET CHI	09/16/25 14:13
Total/NA	Prep	7470A			834548	MJG	EET CHI	09/18/25 11:00 - 09/18/25 13:00 [1]
Total/NA	Analysis	7470A		1	834788	MJG	EET CHI	09/19/25 10:42

Lab Chronicle

Client: White Pine Copper LLC
Job ID: 500-274552-1
Project/Site: White Pine Copper Soils

Client Sample ID: EB-03_20250909
Lab Sample ID: 500-274552-11
Date Collected: 09/09/25 09:30
Matrix: Water
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			833991	MS	EET CHI	09/15/25 13:39 - 09/15/25 19:39 [1]
Total Recoverable	Analysis	6020B		1	834287	RN	EET CHI	09/16/25 14:15
Total/NA	Prep	7470A			834548	MJG	EET CHI	09/18/25 11:00 - 09/18/25 13:00 [1]
Total/NA	Analysis	7470A		1	834788	MJG	EET CHI	09/19/25 11:28

Client Sample ID: EB-04_20250909
Lab Sample ID: 500-274552-12
Date Collected: 09/09/25 18:00
Matrix: Water
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			833991	MS	EET CHI	09/15/25 13:39 - 09/15/25 19:39 [1]
Total Recoverable	Analysis	6020B		1	834287	RN	EET CHI	09/16/25 14:18
Total/NA	Prep	7470A			834548	MJG	EET CHI	09/18/25 11:00 - 09/18/25 13:00 [1]
Total/NA	Analysis	7470A		1	834788	MJG	EET CHI	09/19/25 11:30

Client Sample ID: EB-05_20250910
Lab Sample ID: 500-274552-13
Date Collected: 09/10/25 09:00
Matrix: Water
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			833991	MS	EET CHI	09/15/25 13:39 - 09/15/25 19:39 [1]
Total Recoverable	Analysis	6020B		1	834287	RN	EET CHI	09/16/25 14:21
Total/NA	Prep	7470A			834548	MJG	EET CHI	09/18/25 11:00 - 09/18/25 13:00 [1]
Total/NA	Analysis	7470A		1	834788	MJG	EET CHI	09/19/25 11:32

Client Sample ID: FB-01_20250910
Lab Sample ID: 500-274552-14
Date Collected: 09/10/25 09:05
Matrix: Water
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total Recoverable	Prep	3005A			833991	MS	EET CHI	09/15/25 13:39 - 09/15/25 19:39 [1]
Total Recoverable	Analysis	6020B		1	834287	RN	EET CHI	09/16/25 14:40
Total/NA	Prep	7470A			834548	MJG	EET CHI	09/18/25 11:00 - 09/18/25 13:00 [1]
Total/NA	Analysis	7470A		1	834788	MJG	EET CHI	09/19/25 11:34

Client Sample ID: SS-103_20250905
Lab Sample ID: 500-274552-15
Date Collected: 09/05/25 14:50
Matrix: Solid
Date Received: 09/12/25 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	833954	RB	EET CHI	09/15/25 11:09

Lab Chronicle

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Client Sample ID: SS-103_20250905
Date Collected: 09/05/25 14:50
Date Received: 09/12/25 09:00

Lab Sample ID: 500-274552-15
Matrix: Solid
Percent Solids: 71.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			834539	BDE	EET CHI	09/18/25 09:10 - 09/18/25 15:10 [1]
Total/NA	Analysis	6010D		1	834931	S1Z	EET CHI	09/20/25 01:20
Total/NA	Prep	7471B			834664	MJG	EET CHI	09/19/25 12:45
Total/NA	Analysis	7471B		1	834973	MJG	EET CHI	09/22/25 10:36

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200

Accreditation/Certification Summary

Client: White Pine Copper LLC
Project/Site: White Pine Copper Soils

Job ID: 500-274552-1

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-26
Georgia (DW)	State	939	05-31-26
Illinois	NELAP	100201	05-31-26
Indiana	State	C-IL-02	05-31-26
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-26
Kentucky (WW)	State	KY90023	12-31-25
Louisiana (All)	NELAP	02046	06-30-26
Mississippi	State	NA	05-31-26
North Carolina (WW/SW)	State	291	12-31-25
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	12-31-25
South Carolina	State	77001003	05-31-26
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	399172840	08-31-26
Wyoming	State	8TMS-Q	05-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708-534 5200 Fax 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Logan Carpenter, Justin Brown	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No.: 500 140483 53677 12
Client Contact: Amanda Zeidler	Phone:	E-Mail: Sandra Fredrick@et eurofinsus com	State of Origin:	Page: Page 12 of 13
Company: White Pine Copper LLC	PWSID:			Job #: 500-274552

Address: 35362 Mall Circle Drive	Due Date Requested:	Analysis Requested
City: White Pine	TAT Requested (days):	
State, Zip: MI 49971	Compliance Project: Δ Yes Δ No	
Phone:	PO #: Purchase Order not required	
Email: AZeidler@whitepinecu com	WO #:	
Project Name: White Pine ~~Copper~~ Copper Soils	Project #: 50025458	
Site:	SSOW#:	

500-274552 COC

Preservation Codes
N None
D HNO3
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7471B	6020B, 7470A	Total Number of containers	Special Instructions/Note
			Preservation Code				N	D		
1 SS-091_20250905	9/5/25	0830	G	Solid	N	N	✓			
2 SS-095_20250905	9/5/25	0935	G	Solid	N	N	✓			
3 SS-104_20250905	9/5/25	1400	G	Solid	N	N	✓			
4 SS-090_20250905	9/5/25	1700	G	Solid	N	N	✓			
5 SS-088_20250906	9/6/25	09:20	G	Solid	N	N	✓			
6 SS-087_20250906	9/6/25	09:50	G	Solid	N	N	✓			
7 SS-086_20250906	9/6/25	10:40	G	Solid	N	N	✓			
8 EB-02_20250906	9/6/25	18:08	G	Water	N	N	~~✓~~	✓		
				Water						
				Water						
				Water						

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☑ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Justin Brown	9/11/25 1200	Forth	[signature]	9/12/25 0900	ETA
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
Δ Yes Δ No		5.8-75.6, 4.2-74.0, 5.8-250, 6.0-75.8, 5.9-75.7

Eurofins Chicago
18410 Crossing Drive Suite E
Tinley Park IL 60487
Phone 708 534 5200 Fax 708 534 5211

Chain of Custody Record

eurofins

Client Information	Sampler: Justin Brown	Lab PM: Fredrick Sandie	Carrier Tracking No(s):	COC No: 500-140483-53677 13
Client Contact: Amanda Zeidler	Phone:	E Mail: Sandra Fredrick@et eurofinsus com	State of Origin:	Page: Page 13 of 13
Company: White Pine Copper LLC	PWSID:	Analysis Requested		Job #: 500-274552
Address: 35362 Mall Circle Drive	Due Date Requested:			Preservation Codes: N None; D HNO3
City: White Pine	TAT Requested (days):			
State Zip: MI 49971	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not required			
Email: AZeidler@whitepinecu com	WO #:			
Project Name: White Pine ~~Cooper~~ Copper Soils	Project #: 50025458			Other:
Site:	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010D, 7471B	6020B, 7470A	Total Number of containers	Special Instructions/Note
				Preservation Code				N	D		
9	FB-01_20250904	9/4/25	18:10	G	Water	N	N		✓		
10	EB01_20250904	9/4/25	18:12	G	Water	N	N		✓		
11	EB-03_20250909	9/9/25	09:30	G	Water	N	N		✓		
12	EB-04_20250909	9/9/25	18:00	G	Water	N	N		✓		
13	EB-05_20250910	9/10/25	09:00	G	Water	N	N		✓		
14	FB-02_20250910	9/10/25	09:05	G	Water	N	N		✓		
15	SS-103_20250905	9/5/25	1450	G	~~Soil~~ Water						Added by EETA
					Water						
					Water						
					Water						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☑ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I II, III IV Other (specify)

Special Instructions/QC Requirements

Empty Kit Relinquished by	Date	Time	Method of Shipment

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Justin Brown	9/11/25 1200	Eurofins	Phil Scott	9/12/25 0900	EETA
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks

Login Sample Receipt Checklist

Client: White Pine Copper LLC

Job Number: 500-274552-1

Login Number: 274552

List Source: Eurofins Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.6,4.0,5.0,5.8,5.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix C

Data Validation Report

Data Validation Report

Project Name:	White Pine Copper, LLC
Task Name:	2025 Shallow Soil
Data Set Description:	103 soil samples, 6 duplicates, 5 equipment blanks, and 2 field blanks
Laboratory(s):	Eurofins, Chicago
Laboratory Sample Delivery Group ID(s):	500-274542-1, 500-274546-1, 500-274547-1, 500-274549-1, 500-274551-1, and 500-274552-1
Sample Collection Date(s):	9/3/2025 through 9/10/2025
Sample Analysis Date(s):	9/16/2025 through 9/23/2025
Sample Matrix:	Soil
Sample IDs Reviewed:	See Table 1
Verification and Validation Stage, 100% data:	☐ 1 ☒ 2A ☐ 2B ☐ 3 ☐ 4
Verified and Validated By:	Dan Davis Project Environmental Scientist 10/17/2025

The analytical data were validated to verify that laboratory quality assurance and quality control (QA/QC) procedures were documented and to evaluate the overall quality of the data reported. The analytical report includes 103 soil samples, 6 duplicates, 5 equipment blanks, and 2 field blanks collected from the White Pine Copper Site, in White Pine, Michigan, in September 2025. Samples are listed in Table 1. The data were collected in accordance with the *Soil Sampling Work Plan (Plan)* (Foth Infrastructure & Environment, LLC [Foth], 2025).

Overall Assessment of Data

Overall, the data reported are of good quality and the results for the applicable QA/QC measurements that were used by the laboratory during the analysis of the samples were acceptable. Qualifiers assigned during validation are provided in Table 1.

Validation Summary

Stage 2A data validation was performed on 100% of the data from these sample delivery groups (SDGs), with review tasks and items of note documented in the summary matrix below. Qualified results are provided in Table 1.

Validation Task and Description	Review Notes	Action
Chain of Custody (COC) and Sample Receipt Form Confirm relinquish and receipt signatures. Confirm parameters and analytical methods match COC and Plan.	Signatures are present on COCs and analyses matched project requirements.	No qualifiers assigned

Validation Task and Description	Review Notes	Action
Project Narrative Review for items noted by the laboratory that may impact the validation process.	The Project Narrative provided in each report was reviewed to assist in evaluating whether qualifiers were required.	Not applicable
Sample Condition Upon Receipt (SCUR) Confirm samples in acceptable condition and no discrepancies noted. Confirm preservation meets method requirements.	Samples generally arrived in good condition on ice and were received at the lab at temperatures within project limits. The correct containers and associated preservatives were generally used, and sufficient volume was collected for analyses. The lab was able to perform all analyses with the volume received. Several discrepancies with the COC and bottle labels were noted and reconciled after communication with the field team leader. A review of field notes confirmed that the sample from location SS-065 was mistakenly labeled and reported as SS-056_20250907 (Lab Sample ID 500-274547-6).	No qualifiers assigned
Methods Requested Confirm analyses ordered match project requirements and lab provided results for all methods ordered.	All methods requested were performed in accordance with project requirements.	Not applicable
Analytes Requested Confirm analytes ordered match project requirements and lab provided all analytes ordered.	All requested analytes were provided by the lab and match project requirements.	Not applicable
Holding Times Confirm laboratory performed extractions and analyses within method-required holding times.	Extractions and analyses were performed within method-required holding times.	No qualifiers assigned
Blanks Evaluate detections in field blanks, equipment blanks, and laboratory (method) blanks.	Field blanks, equipment blanks, and laboratory (method) blanks were evaluated, and qualifiers were assigned as appropriate. Low-level detections in equipment blanks were present in several samples but were determined unlikely to impact associated soil sample results. Generally, blank detections were qualified as follows: ◆ Blank detection, but analyte not detected in sample resulted in no qualifier. ◆ Blank detection below reporting limit, sample detection below reporting limit resulted in a “U” qualifier at the reporting limit.	Yes, qualifiers assigned

Validation Task and Description	Review Notes	Action
	◆ Blank detection below reporting limit, sample detection above reporting limit resulted in no qualifier. ◆ Blank detection above reporting limit, sample detection above reporting limit within 10x blank result reported at blank concentration and qualified as "J+" (biased high). Qualifiers are included in Table 1.	
Matrix Spike/Matrix Spike Duplicates (MS/MSDs) Confirm MS/MSDs at frequency specified in work plan and MS percent recovery within lab specified limits. Confirm MS/MSD relative percent difference (RPD) within limits.	MS/MSD were evaluated for percent recovery and RPD. Qualifiers were assigned in Table 1 as appropriate when recovery and/or RPD were outside control limits.	Yes, qualifiers assigned
Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Confirm LCS analyzed and LCS/LCSD recovery within lab specified limits.	LCS/LCSD recoveries were within control limits.	No, qualifiers assigned
Field Duplicates Confirm field duplicates collected at required frequency and field duplicate RPD within acceptable limits.	Blind field duplicates were collected at the required frequency as described in the *Plan.* The precision of the parent/field blind duplicate sample pairs are evaluated in Attachment 1. For analytes with concentrations greater than 5x the reporting limit, the RPD is evaluated against a control limit of 50% for soil matrices. Qualifiers are assigned when the RPDs for analytes exceeded 50%.	Yes, qualifiers assigned

Abbreviations:
%: percent
COC: Chain-of-Custody
Foth: Foth Infrastructure & Environment, LLC
J+: estimated and potentially biased high
LCS/LCSD: laboratory control sample/laboratory control sample duplicate
MS/MSD: matrix spike/matrix spike duplicate
QA/QC: quality assurance/quality control
RPD: relative percent difference
SCUR: sample condition upon receipt
SDG: sample delivery group
Plan: Soil Sampling Work Plan

Table 1 shows the Table of Qualified Results with validator assigned qualifiers.

Reference

Foth Infrastructure & Environment, LLC, 2025. *Soil Sampling Work Plan.*

Attachments

Table 1
Qualified Results from Data Validation

Table 1
Qualified Results from Data Validation

Analytical Job Number	Sample Date	Sample ID	Analytical Method	Analytical Batch	Parameter	Result	Units	Qualified Result	Explanation
500-274542-1	9/3/2025	SS-093_20250903							No qualfiers.
500-274542-2	9/3/2025	SS-089_20250903							No qualfiers.
500-274542-3	9/4/2025	SS-094_20250904	6010D	834531	Cadmium	0.13 J B	mg/Kg	< 0.25 U	Method blank detection <RL, reported as not detected at RL.
500-274542-4	9/4/2025	SS-101_20250904							No qualfiers.
500-274542-5	9/4/2025	SS-097_20250904	6010D	834531	Cadmium	0.19 J B	mg/Kg	< 0.24 U	Method blank detection <RL, reported as not detected at RL.
500-274542-6	9/4/2025	SS-098_20250904	6010D	834531	Copper	120	mg/Kg	120 J	Estimated result. Parent/duplicate RPD outside control limits.
			6010D	834531	Lead	13	mg/Kg	13 J	Estimated result. Parent/duplicate RPD outside control limits.
500-274542-9	9/4/2025	DUP-01-SS_20250904 (SS-098_20250904)	6010D	834531	Cadmium	0.19 J B	mg/Kg	< 0.23 U	Method blank detection <RL, reported as not detected at RL.
			6010D	834531	Copper	58	mg/Kg	58 J	Estimated result. Parent/duplicate RPD outside control limits.
			6010D	834531	Lead	7.2	mg/Kg	7.2 J	Estimated result. Parent/duplicate RPD outside control limits.
500-274542-7	9/4/2025	SS-096_20250904							No qualfiers.
500-274542-8	9/4/2025	SS-102_20250904	6010D	834531	Cadmium	0.13 J B	mg/Kg	< 0.21 U	Method blank detection <RL, reported as not detected at RL.
500-274542-10	9/5/2025	SS-100_20250905	6010D	834531	Cadmium	0.15 J B	mg/Kg	< 0.23 U	Method blank detection <RL, reported as not detected at RL.
500-274542-11	9/5/2025	SS-092_20250905							No qualfiers.
500-274542-12	9/6/2025	SS-085_20250906	6010D	834531	Cadmium	0.20 J B	mg/Kg	< 0.22 U	Method blank detection <RL, reported as not detected at RL.
500-274542-13	9/6/2025	SS-084_20250906							No qualfiers.
500-274542-14	9/6/2025	SS-071_20250906							No qualfiers.
500-274542-15	9/6/2025	SS-072_20250906							No qualfiers.
500-274542-16	9/6/2025	SS-073_20250906							No qualfiers.
500-274542-17	9/6/2025	SS-077_20250906							No qualfiers.
500-274542-18	9/6/2025	SS-076_20250906							No qualfiers.
500-274542-19	9/6/2025	SS-075_20250906							No qualfiers.
500-274542-20	9/6/2025	SS-079_20250906							No qualfiers.
500-274542-21	9/6/2025	SS-078_20250906							No qualfiers.
500-274542-22	9/6/2025	SS-074_20250906							No qualfiers.
500-274546-1	9/6/2025	SS-083_20250906							No qualfiers.
500-274546-3	9/6/2025	DUP-02_20250906 (SS-083_20250906)	6010D	834931	Cadmium	0.14 J	mg/Kg	0.14 J	Estimated result. Lab duplicate RPD outside control limits.
			6010D	834931	Copper	72 F1	mg/Kg	72 J-	Estimated result, biased low. MS/MSD result below control limits.
			6010D	834931	Manganese	290	mg/Kg	290 J	Estimated result. Lab duplicate RPD outside control limits, MSD result outside control limits, sample result >4x spike.
			6010D	834931	Selenium	< 0.67 U F1	mg/Kg	< 0.67 UJ	Estimated RL. MS result below control limits.
			6010D	834931	Silver	0.49 J F1	mg/Kg	0.49 J-	Estimated result, biased low. MSD result below control limits, lab duplicate RPD outside control limits.
			6010D	834931	Zinc	46 F1	mg/Kg	46 J+	Estimated result, biased high. MS/MSD result above control limits.
500-274546-2	9/6/2025	SS-082_20250906							No qualfiers.
500-274546-4	9/6/2025	SS-081_20250906							No qualfiers.
500-274546-5	9/6/2025	SS-080_20250906							No qualfiers.
500-274546-6	9/6/2025	SS-068_20250906							No qualfiers.
500-274546-7	9/7/2025	SS-054_20250907							No qualfiers.
500-274546-8	9/7/2025	SS-060_20250907							No qualfiers.
500-274546-9	9/7/2025	SS-069_20250907							No qualfiers.
500-274546-10	9/7/2025	SS-067_20250907							No qualfiers.
500-274546-12	9/7/2025	SS-058_20250907	6010D	834931	Copper	36	mg/Kg	36 J	Estimated result. Parent/duplicate RPD outside control limits.
500-274546-11	9/7/2025	DUP-03_20250907 (SS-058_20250907)	6010D	834931	Copper	15	mg/Kg	15 J	Estimated result. Parent/duplicate RPD outside control limits.
500-274546-13	9/7/2025	SS-066_20250907							No qualfiers.
500-274546-14	9/7/2025	SS-070_20250907							No qualfiers.
500-274546-15	9/7/2025	SS-059_20250907							No qualfiers.
500-274546-16	9/7/2025	SS-034_20250907							No qualfiers.
500-274546-17	9/7/2025	SS-052_20250907							No qualfiers.
500-274546-20	9/7/2025	DUP-04_20250907 (SS-052_20250907)							No qualfiers.
500-274546-18	9/7/2025	SS-042_20250907							No qualfiers.
500-274546-19	9/7/2025	SS-062_20250907							No qualfiers.
500-274546-21	9/7/2025	SS-056_20250907							No qualfiers.
500-274546-22	9/7/2025	SS-064_20250907							No qualfiers.
500-274547-1	9/7/2025	SS-057_20250907	6010D	834931	Copper	80 F1 F2	mg/Kg	80 J+	Estimated result, biased high. MS result above control limits, MS/MSD RPD and lab duplicate RPD outside control limits.
			6010D	834931	Manganese	160 B F1	mg/Kg	160 J+	Estimated result, biased high. MSD result above control limits. Method blank detection.
			6010D	834931	Silver	0.64	mg/Kg	0.64 J	Estimated result. Lab duplicate RPD outside control limits.
500-274547-2	9/7/2025	SS-063_20250907							No qualfiers.
500-274547-3	9/7/2025	SS-041_20250907							No qualfiers.
500-274547-4	9/7/2025	SS-051_20250907							No qualfiers.
500-274547-5	9/7/2025	SS-053_20250907							No qualfiers.
500-274547-6	9/7/2025	SS-065_20250907							No qualfiers. Incorrectly labeled and reported as SS-056_20250907.

Table 1
Qualified Results from Data Validation

Analytical Job Number	Sample Date	Sample ID	Analytical Method	Analytical Batch	Parameter	Result	Units	Qualified Result	Explanation
500-274547-7	9/7/2025	SS-061_20250907							No qualfiers.
500-274547-8	9/8/2025	SS-001_20250908							No qualfiers.
500-274547-9	9/8/2025	SS-016_20250908							No qualfiers.
500-274547-10	9/8/2025	SS-021_20250908							No qualfiers.
500-274547-11	9/8/2025	SS-044_20250908							No qualfiers.
500-274547-12	9/8/2025	SS-043_20250908							No qualfiers.
500-274547-13	9/8/2025	SS-048_20250908							No qualfiers.
500-274547-14	9/8/2025	SS-047_20250908							No qualfiers.
500-274547-15	9/8/2025	SS-049_20250908							No qualfiers.
500-274547-16	9/8/2025	SS-046_20250908							No qualfiers.
500-274547-17	9/8/2025	SS-045_20250908							No qualfiers.
500-274547-18	9/8/2025	SS-038_20250908							No qualfiers.
500-274547-19	9/8/2025	SS-037_20250908							No qualfiers.
500-274547-20	9/8/2025	SS-036_20250908							No qualfiers.
500-274547-21	9/8/2025	SS-028_20250908	6010D	834731	Cadmium	0.089 J B	mg/Kg	< 0.24 U	Method blank detection <RL, reported as not detected at RL.
500-274549-1	9/8/2025	SS-005_20250908	6010D	834931	Arsenic	5.6 F1	mg/Kg	5.6 J-	Estimated result, biased low. MSD result below control limits.
			6010D	834931	Manganese	130 F1	mg/Kg	130 J-	Estimated result, biased low. MSD result below control limits.
			6010D	834931	Silver	1.9 F1	mg/Kg	1.9 J-	Estimated result, biased low. MSD result below control limits.
500-274549-2	9/8/2025	SS-002_20250908							No qualifiers.
500-274549-3	9/8/2025	SS-004_20250908							No qualifiers.
500-274549-4	9/8/2025	SS-006_20250908							No qualifiers.
500-274549-5	9/8/2025	SS-011_20250908							No qualifiers.
500-274549-6	9/8/2025	SS-013_20250908							No qualifiers.
500-274549-7	9/8/2025	SS-017_20250908							No qualifiers.
500-274549-8	9/8/2025	SS-055_20250908							No qualifiers.
500-274549-15	9/8/2025	DUP-05_20250908 (SS-055_20250908)							No qualfiers.
500-274549-9	9/8/2025	SS-050_20250908							No qualifiers.
500-274549-10	9/8/2025	SS-025_20250908							No qualifiers.
500-274549-16	9/8/2025	DUP-06_20250908 (SS-025_20250908)							No qualfiers.
500-274549-11	9/8/2025	SS-027_20250908							No qualifiers.
500-274549-12	9/8/2025	SS-039_20250908							No qualifiers.
500-274549-13	9/8/2025	SS-032_20250908							No qualifiers.
500-274549-14	9/8/2025	SS-031_20250908							No qualifiers.
500-274549-17	9/9/2025	SS-003_20250909							No qualifiers.
500-274549-18	9/9/2025	SS-019_20250909							No qualifiers.
500-274549-19	9/9/2025	SS-033_20250909							No qualifiers.
500-274549-20	9/9/2025	SS-015_20250909							No qualifiers.
500-274551-1	9/9/2025	SS-020_20250909	6010D	835173	Cadmium	0.17 J B	mg/Kg	< 0.21 U	Method blank detection <RL, reported as not detected at RL.
500-274551-2	9/9/2025	SS-035_20250909							No qualifiers.
500-274551-3	9/9/2025	SS-030_20250909							No qualifiers.
500-274551-4	9/9/2025	SS-007_20250909							No qualifiers.
500-274551-5	9/9/2025	SS-040_20250909							No qualifiers.
500-274551-6	9/9/2025	SS-012_20250909							No qualifiers.
500-274551-7	9/9/2025	SS-024_20250909							No qualifiers.
500-274551-8	9/9/2025	SS-022_20250909							No qualifiers.
500-274551-9	9/9/2025	SS-014_20250909							No qualifiers.
500-274551-10	9/9/2025	SS-008_20250909	6010D	835173	Cadmium	0.13 J B	mg/Kg	< 0.21 U	Method blank detection <RL, reported as not detected at RL.
500-274551-11	9/9/2025	SS-029_20250909							No qualifiers.
500-274551-12	9/9/2025	SS-010_20250909	6010D	835173	Cadmium	0.13 J B	mg/Kg	< 0.21 U	Method blank detection <RL, reported as not detected at RL.
500-274551-13	9/9/2025	SS-023_20250909							No qualifiers.
500-274551-14	9/9/2025	SS-018_20250909	6010D	835173	Cadmium	0.10 J B	mg/Kg	< 0.21 U	Method blank detection <RL, reported as not detected at RL.
500-274551-15	9/9/2025	SS-009_20250909							No qualifiers.
500-274551-16	9/9/2025	SS-026_20250909							No qualifiers.
500-274552-1	9/5/2025	SS-091_20250905	6010D	834931	Manganese	900 F2	mg/Kg	900 J	Estimated result. Lab duplicate RPD outside control limits. MS/MSD result outside control limits, sample result >4x spike.
			6010D	834931	Silver	2.2 F1	mg/Kg	2.2 J+	Estimated result, biased high. MS result above control limits.
			6010D	834931	Zinc	21 F1	mg/Kg	21 J+	Estimated result, biased high. MS result above control limits.
500-274552-2	9/5/2025	SS-095_20250905							No qualfiers.
500-274552-3	9/5/2025	SS-104_20250905							No qualfiers.
500-274552-4	9/5/2025	SS-090_20250905							No qualfiers.
500-274552-5	9/6/2025	SS-088_20250906							No qualfiers.

Table 1
Qualified Results from Data Validation

Analytical Job Number	Sample Date	Sample ID	Analytical Method	Analytical Batch	Parameter	Result	Units	Qualified Result	Explanation
500-274552-6	9/6/2025	SS-087_20250906							No qualfiers.
500-274552-7	9/6/2025	SS-086_20250906							No qualfiers.
500-274552-8	9/6/2025	EB-02_20250906	6020B	834287	Copper	0.62 J	ug/L		No qualifiers. Equipment rinsate blank detection <RL. No qualifiers assigned as a result.
500-274552-9	9/4/2025	FB-01_20250904							No qualfiers. Field blank, no detections.
500-274552-10	9/4/2025	EB-01_20250904							No qualfiers. Equipment blank, no detections.
500-274552-11	9/9/2025	EB-03_20250909	6020B	834287	Copper	0.52 J	ug/L		No qualifiers. Equipment rinsate blank detection <RL. No qualifiers assigned as a result.
500-274552-12	9/9/2025	EB-04_20250909	6020B	834287	Copper	2.8	ug/L		No qualifiers. Equipment rinsate blank detection >RL. No qualifiers assigned as a result.
			6020B	834287	Manganese	0.80 J	ug/L		No qualifiers. Equipment rinsate blank detection <RL. No qualifiers assigned as a result.
			6020B	834287	Nickel	0.43 J	ug/L		No qualifiers. Equipment rinsate blank detection <RL. No qualifiers assigned as a result.
500-274552-13	9/10/2025	EB-05_20250910							No qualfiers. Equipment blank, no detections.
500-274552-14	9/10/2025	FB-01_20250910							No qualfiers. Field blank, no detections.
500-274552-15	9/5/2025	SS-103_20250905							No qualfiers.

Notes:

Prepared by: DJD4

Checked by: KB

- [minus sign] - Potentially biased low

+ [plus sign] - Potentially biased high

B = Detected in Method Blank.

F1 = MS and/or MSD recovery outside control limits.

F2 = MS/MSD RPD recovery outside control limits.

J = Estimated value, may be potentially biased high (+) or low (-).

mg/Kg = milligram per kilogram

MS/MSD = Matrix Spike/Matrix Spike Duplicate

RL = Reporting Limit

RPD = Relative Percent Difference

UJ = Not detected at an estimated reporting limit.

Attachment 1
Relative Percent Difference Analysis for Field Duplicate Samples

Attachment 1

RPD Analysis
Eurofins Reports 500-274542-1, 500-274546-1, and 500-274549-1
White Pine Copper Q3 2025 Groundwater

Relative Percent Difference ("RPD") Analysis for Field Duplicate Samples

RPD =

$$\frac{\text{absolute value (a - b)}}{\text{(a + b)/2}} \times 100\%$$

Acceptance Criteria*: 50%
(typically 25% for air, 35% for water samples, 50% for soil)

* Unless otherwise noted in project planning documents, the acceptance criteria for field duplicates relative percent difference ("RPD") is as follows:

- For analytes with concentrations greater than 5x the reporting limit, the RPD should be within 25% for air matrices, 35% for water matrices and 50% for soil matrices.
- For analytes with either or both concentrations less than 5x the reporting limit (indicated below by "low-level"), duplicate concentrations should agree within 5x the reporting limit.

Duplicate Result Analysis

Analyte	Units	Parent Sample Result		Duplicate Sample Result		RPD	Acceptable?
		SS-098_20250904		DUP-01-SS_20250904			
Mercury	mg/Kg		0.0094		0.013	low-level	Yes
Arsenic	mg/Kg		2.9		1.7	low-level	Yes
Barium	mg/Kg		44		31	34.7%	Yes
Cadmium	mg/Kg		0.37		0.19	low-level	Yes
Chromium	mg/Kg		6.7		6.6	1.5%	Yes
Copper	mg/Kg		120		58	69.7%	No
Lead	mg/Kg		13		7.2	57.4%	No
Manganese	mg/Kg		160		140	13.3%	Yes
Nickel	mg/Kg		4.3		3.7	low-level	Yes
Selenium	mg/Kg		0.89	<	0.67	low-level	Yes
Silver	mg/Kg		0.90	<	0.15	low-level	Yes
Zinc	mg/Kg		16		12	28.6%	Yes

Analyte	Units	Parent Sample Result		Duplicate Sample Result		RPD	Acceptable?
		SS-083_20250906		DUP-02_20250906			
Mercury	mg/Kg	<	0.0078		0.012	low-level	Yes
Arsenic	mg/Kg		4.0		4.2	low-level	Yes
Barium	mg/Kg		100		110	9.5%	Yes
Cadmium	mg/Kg		0.33		0.14	low-level	Yes
Chromium	mg/Kg		22		21	4.7%	Yes
Copper	mg/Kg		60		72	18.2%	Yes
Lead	mg/Kg		8.8		8.9	1.1%	Yes
Manganese	mg/Kg		300		290	3.4%	Yes
Nickel	mg/Kg		25		24	4.1%	Yes
Selenium	mg/Kg	<	0.69	<	0.67	low-level	Yes
Silver	mg/Kg		1.8		0.49	low-level	Yes
Zinc	mg/Kg		47		46	2.2%	Yes

Attachment 1

RPD Analysis
Eurofins Reports 500-274542-1, 500-274546-1, and 500-274549-1
White Pine Copper Q3 2025 Groundwater

Relative Percent Difference ("RPD") Analysis for Field Duplicate Samples

RPD =

$$\frac{\text{absolute value (a - b)}}{\text{(a + b)/2}} \times 100\%$$

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(typically 25% for air, 35% for water samples, 50% for soil)

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- For analytes with either or both concentrations less than 5x the reporting limit (indicated below by "low-level"), duplicate concentrations should agree within 5x the reporting limit.

Duplicate Result Analysis

Analyte	Units	Parent Sample Result		Duplicate Sample Result		RPD	Acceptable?
		SS-058_20250907		DUP-03_20250907			
Mercury	mg/Kg	<	0.0075	<	0.0075	low-level	Yes
Arsenic	mg/Kg		2.8		3.1	low-level	Yes
Barium	mg/Kg		63		58	8.3%	Yes
Cadmium	mg/Kg		0.12		0.11	low-level	Yes
Chromium	mg/Kg		17		17	0.0%	Yes
Copper	mg/Kg		36		15	82.4%	No
Lead	mg/Kg		5.2		5.5	5.6%	Yes
Manganese	mg/Kg		190		220	14.6%	Yes
Nickel	mg/Kg		16		17	6.1%	Yes
Selenium	mg/Kg	<	0.61	<	0.61	low-level	Yes
Silver	mg/Kg		0.54		0.64	low-level	Yes
Zinc	mg/Kg		29		29	0.0%	Yes

Analyte	Units	Parent Sample Result		Duplicate Sample Result		RPD	Acceptable?
		SS-052_20250907		DUP-04_20250907			
Mercury	mg/Kg		0.012		0.013	low-level	Yes
Arsenic	mg/Kg		3.2		3.5	low-level	Yes
Barium	mg/Kg		59		59	0.0%	Yes
Cadmium	mg/Kg		0.14		0.23	low-level	Yes
Chromium	mg/Kg		14		15	6.9%	Yes
Copper	mg/Kg		110		140	24.0%	Yes
Lead	mg/Kg		5.7		5.6	1.8%	Yes
Manganese	mg/Kg		170		160	6.1%	Yes
Nickel	mg/Kg		14.0		13	7.4%	Yes
Selenium	mg/Kg	<	0.59	<	0.62	low-level	Yes
Silver	mg/Kg		0.70		0.65	low-level	Yes
Zinc	mg/Kg		30		29	3.4%	Yes

Attachment 1

RPD Analysis
Eurofins Reports 500-274542-1, 500-274546-1, and 500-274549-1
White Pine Copper Q3 2025 Groundwater

Relative Percent Difference ("RPD") Analysis for Field Duplicate Samples

RPD =

$$\frac{\text{absolute value (a - b)}}{\text{(a + b)/2}} \times 100\%$$

Acceptance Criteria*:
(typically 25% for air, 35% for water samples, 50% for soil)

50%

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- For analytes with concentrations greater than 5x the reporting limit, the RPD should be within 25% for air matrices, 35% for water matrices and 50% for soil matrices.
- For analytes with either or both concentrations less than 5x the reporting limit (indicated below by "low-level"), duplicate concentrations should agree within 5x the reporting limit.

Duplicate Result Analysis

Analyte	Units	Parent Sample Result		Duplicate Sample Result		RPD	Acceptable?
		SS-055_20250908		DUP-05_20250908			
Mercury	mg/Kg		0.014		0.025	low-level	Yes
Arsenic	mg/Kg		3.9		4.5	low-level	Yes
Barium	mg/Kg		67		72	7.2%	Yes
Cadmium	mg/Kg		0.21		0.36	low-level	Yes
Chromium	mg/Kg		19		21	10.0%	Yes
Copper	mg/Kg		210		290	32.0%	Yes
Lead	mg/Kg		7.4		8.1	9.0%	Yes
Manganese	mg/Kg		250		250	0.0%	Yes
Nickel	mg/Kg		20		22	9.5%	Yes
Selenium	mg/Kg	<	0.60	<	0.67	low-level	Yes
Silver	mg/Kg		1.1		1.1	low-level	Yes
Zinc	mg/Kg		42		47	11.2%	Yes

Analyte	Units	Parent Sample Result		Duplicate Sample Result		RPD	Acceptable?
		SS-025_20250908		DUP-06_20250908			
Mercury	mg/Kg	<	0.0072	<	0.0068	low-level	Yes
Arsenic	mg/Kg		3.3		2.7	low-level	Yes
Barium	mg/Kg		61		63	3.2%	Yes
Cadmium	mg/Kg		0.091		0.095	low-level	Yes
Chromium	mg/Kg		16		15	6.5%	Yes
Copper	mg/Kg		14		14	0.0%	Yes
Lead	mg/Kg		4.9		6.6	29.6%	Yes
Manganese	mg/Kg		180		200	10.5%	Yes
Nickel	mg/Kg		15		17	12.5%	Yes
Selenium	mg/Kg	<	0.65	<	0.57	low-level	Yes
Silver	mg/Kg		0.80		0.87	low-level	Yes
Zinc	mg/Kg		32		31	3.2%	Yes