

June 17, 2013

Wisconsin Department of Natural Resources 101 South Webster Street PO Box 7921 Madison, WI 53707-7921

Dear Secretary Stepp:

Re: Bulk Sample Plan

Wisconsin Statutes 295.45

This letter serves to submit a plan for perform Bulk Sampling on five previously disturbed sites. Three of the sites were previously disturbed as bulk sampling locations in 1960. Another site was disturbed as a blasting test location in 1961. Site 3A is the location of a disturbance associated with the logging operations in the area.

Included in this submittal, you will find:

- A Bulk Sample Plan Narrative addressing the requirements of Wisconsin Statutes 295.45.
- Map 1 Location Map
- Figure 1 Plan View Site 1
- Figure 2 Plan View Site 2
- Figure 3A Plan View Site 3A
- Figure 4 Plan View Site 4
- Figure 5 Plan View Site 5
- Reclamation Cost estimate

We look forward to discussing the project in more detail with your staff. Any questions should be directed to our Hurley office at (715) 561-2601. Our mailing address is:

Gogebic Taconite, LLC 402 Silver Street Hurley, WI 54534

Sincerely,

Timothy J Myers (

Engineer

Bulk Sampling Plan

Applicant: Gogebic Taconite, LLC

402 Silver Street Hurley, WI 54534

Project Name: GTAC Bulk Sampling Project

Date: June 17, 2013

OVERVIEW

The Bulk Sampling Plan describes the excavation of less than 10,000 tons of material at a potential mining site for the purposes of obtaining site-specific data to assess the quality and quantity of the ferrous mineral deposits and of collecting data from and analyzing the excavated materials in order to prepare the application for a mining permit or other approval.

The excavated materials will be processed in a laboratory. The results of the testing are used to determine the sizes and quantities of the machinery needed to beneficiate the raw ore to a saleable product.

Bulk sampling activities were performed on this property in 1960 by Oliver Mining Division of US Steel Corporation. At that time, taconite technology was an emerging technology. The testing was performed with the best technology of the time. Now, over fifty years later, another set of rock samples are required for the specific design of a new beneficiation mill for this reserve.

Four locations were disturbed in 1960. Trenches were excavated that were approximately 200 feet long by 24 feet wide. The pit locations were stripped of vegetation. Soils were removed by heavy equipment. Drilling and blasting was performed to break the rock. Each location produced about 100 cubic yards of material that was hauled offsite to a railroad siding for shipment.

Reclamation activities were not performed and the disturbed sites were allowed to grow vegetation with volunteer species.

This proposed activity will utilize three (3) of the previously disturbed sites to collect another sample set. Those sites are identified as Bulk Sample Sites 1, 2 and 4. Two

additional sites will be disturbed in new locations. Bulk Sample Site 3A is located on an existing logging road. Bulk Sample Site 5 is a previously disturbed site that was used for a blasting test in 1961. This application describes the procedures to be used to collect these rock samples.

295.45 (2)(a)

A description and map of the bulk sampling site, including the number of acres in the site, the number of acres of land that will be disturbed, if any, associated with each bulk sampling location, and the locations and types of sampling or studies to be conducted at each bulk sampling location.

Five bulk sample sites are proposed to be disturbed. Using the names from the 1960 activity, the sites are numbered 1, 2, and 4. Bulk Sample Site 3A will be located near Bulk Sample Site 4. Bulk Sample Site 5 is located in the central part of the reserve. See the map entitled "Map 1 - Bulk Sample Sites" for the generalized location of the disturbances.

Bulk Sample Site 1 is located in the Northeast quarter of the Southwest Quarter of Section 33 Township 45 North, Range 1 West. The site will include and disturb 0.59 acres. Refer to "Figure 1 – Plan View – Site 1".

Rock Samples are proposed to be collected from a trench that is approximately 234 feet long and averages 21 feet wide.

Bulk Sample Site 2 is located in the Northeast Quarter of the Southwest Quarter of Section 33 Township 45 North, Range 1 West. The site will include and disturb 0.90 acres. Refer to "Figure 2 – Plan View – Site 2".

Rock Samples are proposed to be collected from two trenches with dimensions of approximately 150 feet long and averaging 13 feet wide and dimensions of 70 feet long and averaging 20 feet wide.

Bulk Sample Site 3A is located in the Northwest Quarter of the Southeast Quarter of Section 01 Township 44 North, Range 2 West. The site is an existing disturbance associated with forestry activity. The site will include and disturb 0.71 acres. Refer to Figure 3 – Plan View – Site 3A.

Rock Samples are proposed to be collected from a trench that will be approximately 200 feet long and 20 feet wide.

Bulk Sample Site 4 is located in the Northwest Quarter of the Southeast Quarter of Section 01 Township 44 North, Range 2 West. The site will include and disturb 1.11 acres. Refer to "Figure 4 – Plan View – Site 4".

Rock Samples are proposed to be collected from a trench that is approximately 143 feet long and averages 30 feet wide.

Bulk Sample Site 5 is located in the Southwest Quarter of the Northeast Quarter of Section 33 in Township 45 North, Range 1 West. The site will include and disturb 0.64 acres. Refer to "Figure 5 – Plan View – Site 5".

Samples will collected from representative strata to be processed through an offsite pilot plant or to equipment manufactures to determine the types and number of machines necessary to design a new processing mill for the reserve.

295.45 (2)(b)

A description of the methods to be used for bulk sampling.

The proposed activity will occur in areas previously disturbed by similar operations in 1960.

The property has been enrolled in the Managed Forestland Program with Wisconsin DNR. As found at Wisconsin Statutes 77.83 (2)(a), the land is open to the public for hunting, fishing, hiking, sight-seeing and cross-country skiing. All other activities on these lands, including camping, biking, and operation of unauthorized motorized vehicles, are prohibited.

A safety perimeter will be established approximately 300 feet outside of the proposed activity area. The area will be marked with Danger Signs to alert the general public that an industrial activity is occurring nearby. A safety fence will be erected around the disturbance to further protect the public from ongoing activities on the site.

Vegetation will be removed from the proposed disturbance. Any marketable material will be recovered for commercial use such as a lumber mill raw product, pulp mill raw product or biofuel. Any remaining woody material will be disposed of in compliance with existing rules and regulations such as mulching.

Stormwater drainage control will be established by the utilization of berms, diversion ditches, hay bales, sand bag berms and/or sediment fence. When the conditions allow, up gradient surface runoff may be directed away from the site by diversion ditches or berms.

Soils material will be removed from the disturbed areas and stockpiled for later use in reclamation of the site. Any material deemed as topsoil will be segregated and reserved for application during the regrading activities. Due to the previous disturbances on these sites, topsoil, if any would have been intermixed with other materials. Any soils layer encountered will be maintained in stockpiles separate from bedrock materials.

The bedrock will be cleared of extraneous materials. Drilling will be performed on a prescribed pattern and will be accomplished by using a construction drill. The material will be blasted to a size comparable to the projected run-of-mine size material (approximately 6 to 12 inches in size). Blasting will be performed by contracted blasting services. No explosives will be stored on site.

The sample material will be loaded by heavy machinery into highway trucks for transport to the pilot plant facility. An alternative procedure will be the loading off-highway trucks at the pit and transporting the material to a staging area where the sample material will be transferred to highway trucks for transport to the pilot plant. Material will be transferred directly to the highway truck or the material may be placed on a pad to prevent contamination of the sample. The highway truck would then be loaded from the material stored on the pad. Stormwater control will be provided around the pad.

After the bulk sampling activity has been completed and no further sampling is required, the Department will be notified that backfilling will begin. Notification will be by email or Registered Mail. Backfilling will begin within 5 days of the notification to the Department. The excavation slopes will be graded to remove excessive grades. Backfilling will be performed with the available material with the goal to blend the disturbance into the existing ground contours. Stockpiled soils material will be applied to the regraded area before revegetation occurs.

Seeding will follow. See the Revegetation Plan as discussed at the discussion of the requirements of Statute 295.45 (2)(d) below for details.

295.45 (2)(c)

A site-specific plan for controlling surface erosion that conforms to requirements under ss. 281.33 (3) and 283.33 and that identifies how impacts to plant and wildlife habitats will be avoided or minimized to the extent practicable.

Refer to the Figures attached to this application. Each of the five bulk sample sites are detailed in these sketches with the applicable Stormwater Management procedures proposed.

Stormwater Management may include the use of silt fence, earthen berms, hay bales, diversion ditches or similar barriers to divert water away from the disturbance. Silt fence, earthen berms, hay bales or similar barriers will be used to filter any runoff before it leaves the site. Vehicular access to the site will be managed to maintain the surface runoff through sediment control such as silt fence prior to leaving the work site.

At the end of the activity, the site will be regraded and any topsoil will be replaced. The area will be seeded and mulched with the appropriate mixtures.

The bulk sampling activities will occur in areas of previous disturbances. Plant and wildlife habitat in these areas have adapted to the previously disturbed sites. A redisturbance of an area already impacted by activities was the deciding factor for locating the bulk sampling sites. Each of the sites is relatively small and located in a forested area. Animals displaced by the activity have adequate habitat to relocate.

A Stormwater Application that will address this activity will be submitted separate from this application.

295.45 (2)(d)

A revegetation plan for each area where bulk sampling will be performed that describes how adverse impacts to the environment will be avoided or minimized to the extent practicable and how the site will be revegetated and stabilized and that identifies how adverse impacts to plant and wildlife habitats will be avoided or minimized to the extent practicable.

REVEGETATION PLAN

In the event that any topsoil has been stockpiled, it will be returned to the site and spread once regrading is completed.

All sites shall be seeded to establish vegetation. Composite soil samples will be collected. The samples will be submitted to the local agronomy center for available nutrient analysis. The analysis will provide a recommended fertilizer application rate.

Soil preparation may include raking, discing or harrowing to loosen the soil.

Seed mix would contain:

68% Common Oats 14% Annual Rye 4% Timothy7% Virginia Wild Rye7% Canada Wild Rye0.25% Black-eyed Susan

The seed will be planted no deeper than 1/8-inch at 73.25 pounds per acre. Seed bed shall be loosened to 4 inches of depth.

Once fertilizer and seed have been applied, the seeded area will be raked, disked, harrowed or utilize other methods in order to cover the seed.

Mulching material shall consist of straw or hay in an air-dry condition, wood excelsior fiber or wood chips. Mulch shall be spread at a thickness of $\frac{1}{2}$ to 1-1/2 inches. Compacted bales are to be broken and loosened to create a loose blanket over the seeded area.

The pre-existing roads shall be graded and left in place for future use by the landowner. Refer to the landowner letters in the appendix. If the road is aggregate surfaced, grading will be performed to establish drainage towards the ditchline. Any culverts that were installed will be removed. Once culverts are removed, berms will be created across the roadway to divert surface drainage off the roadbed.

295.45 (2)(e)

The estimated time for completing the bulk sampling and revegetation of the bulk sampling locations.

The bulk sampling and revegetation will occur during the period from July 2013 to November 2014.

295.45 (2)(f)

A description of any known adverse environmental impacts that are likely to be caused by the bulk sampling and how those impacts will be avoided or minimized to the extent practicable.

There are no known adverse environmental impacts that are likely to be caused by the bulk sampling activity.

Three sites (Sites 1, 2 and 4) were previously disturbed in 1960 and were not reclaimed and have remained open to the elements. From this 50 year old activity, no adverse

environmental impacts have been identified. The process of collecting a sample replicates the 1960 activity. Site No. 3A is located on a road that was used in the timber industry. Numerous rock outcrops can be found in this area because of the shallow soils cover. Site No. 5 was disturbed in 1961 as a blasting test site. Site reclamation will include areas that the historic activities left behind.

A preliminary wetland inventory has been performed on four sites (Sites 1, 2, 3A and 4). These previously disturbed sites did not have wetland locations. Agency field verification will follow. Any wetland impacts along roads will be addressed in the Stormwater Application that will follow under a separate submittal.

The target areas of the Ironwood Formation to be collected will be in the Pence, Norrie and Plymouth members. These geologic members consist of sedimentary rocks that are iron oxide in nature. Long term exposure to the elements has not produced negative environmental impacts on the site.

Each proposed site has existing disturbances that allow surface runoff to exit the site and not pool water. No wetlands have been identified in these bulk sample sites.

295.45 (2)(g)

A description of any adverse effects, as defined in s. 44.31 (1), that the bulk sampling might have on any historic property, as defined in s. 44.31 (3), that is a listed property, as defined in s. 44.31 (4), that is on the Wisconsin inventory of historic places, as defined in s. 44.31 (12), or that is on the list of locally designated historic places under s. 44.45; or any scenic or recreational areas; and plans to avoid or minimize those adverse effects to the extent practicable.

First, a check to the Wisconsin Historical Society inventory reveals no known archeological sites in the Project Area.

Second, Sites 1, 2, 3A, 4 and 5 are located on sites with previous extensive disturbances. Site access will be by using the existing roads used with the active forestry practices on the site or roads that were used in the previous bulk sampling activity.

The sites are remote and are forested. Activities will be screened from the general public by the forested areas.

295.45 (5)(a) BONDING

A person who intends to engage in bulk sampling shall submit with the bulk sampling plan a bond in the amount of \$5,000 that is conditioned on faithful performance of the requirements of this section, that is issued by a surety company licensed to do business in this state, and that provides that the bond may not be canceled by the surety, except after not less than 90 days' notice to the department in writing by registered or certified mail.

A surety bond in the amount of \$5,000 has been provided with the application. A specific bond estimate has been provided within "Table 1 – Reclamation Cost Estimate". After DNR review, the appropriate bond amount will be provided to the Department.

295.45 (5)(e)

The department may require that the amount of the bond submitted under this subsection be increased at any time, if the department determines that it is unlikely that the bond would be adequate to fund the cost to this state of completing the revegetation plan.

A Reclamation Cost Estimate has been included. See "Table 1 – Reclamation Cost Estimate" that follows this page. The Reclamation Cost Estimate totals \$33,601.00 for reclaiming 5 bulk sample sites and 2 access roads. A Surety Bond in the amount of \$5,000.00 has been provided with this submittal as required by 295.45 (5)(a). After DNR review, the appropriate bond amount will be provided to the Department.

295.45 (7)

Notwithstanding any provision in ch. 23, 29, 30, 31, 169, 281, 283, 285, 289, or 291 or a rule promulgated under those chapters applicable to an approval identified under sub. (3), the department shall require the bulk sampling activity for which the approval is issued to be conducted at locations that result in the fewest overall adverse environmental impacts.

By reusing existing unreclaimed disturbed areas, this activity will minimize the impacts as compared to areas that have not been disturbed in the past. Regrading and revegetation of the existing disturbances will also be accomplished.

Gogebic Taconite, LLC Bulk Sampling Application June 17, 2013

FIGURES

Figure 1 - Plan View - Site 1

Figure 2 - Plan View - Site 2

Figure 3 – Plan View – Site 3A

Figure 4 - Plan View - Site 4

Figure 5 – Plan View – Site 5

MAPS

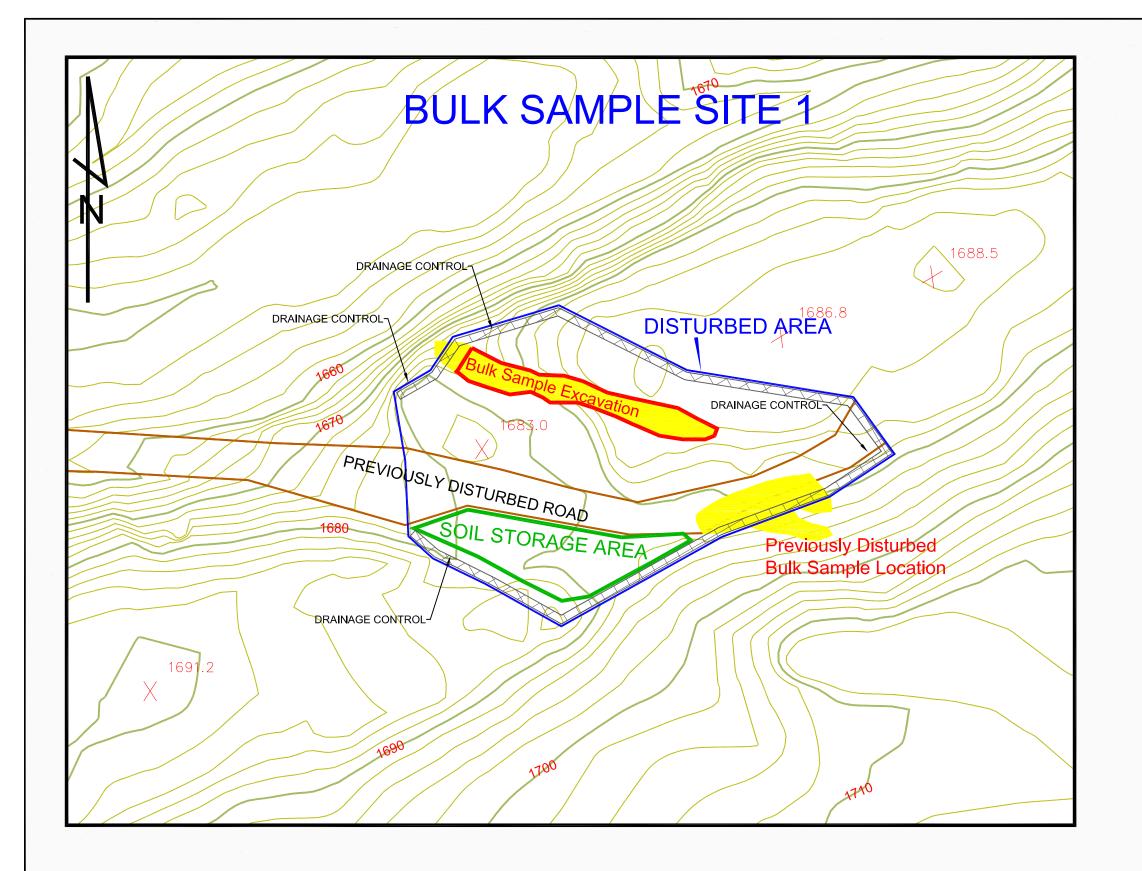
Map 1 – Bulk Sampling Sites

TABLES

Table 1 – Reclamation Cost Estimate

Gogebic Taconite, LLC Bulk Sampling Reclamation Cost Estimate June 17, 2013

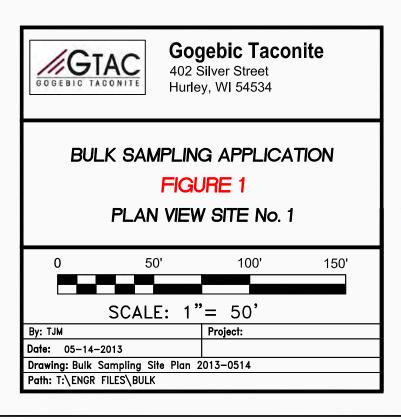
| Location | Activity | Number | Units | Unit Cost | Tot Cost | Location Cost |
|----------|-----------------------------|-----------|-------------------------------------|----------------|----------------|------------------|
| | Mob/Demob | | lot | \$3,000 | \$3,000 | |
| cgrading | IVIOD/ DEITIOD | - | lioc | 23,000 | 33,000 | \$3,000 |
| ite 1 | | 0.59 | Disturbed Acres | | | |
| Site I | | | Pit Area (Sq Ft) | | | |
| | | | Ft Access Road | | | |
| | Backfill | 1820 | Cubic Yards | \$3 | \$5,460 | |
| | Soil Fill | 951.9 | Cubic Yards | \$2 | \$1,904 | |
| | Seed | | Pounds Seed | \$2.35 | \$102 | |
| | Mulch | | Straw Bales | \$10 | \$100 | |
| | Seed Labor | | Hours Labor | \$50 | \$200 | |
| | Access Road Seed | | Hours D6 dozer Pounds Seed | \$110 | \$220 | |
| | Mulch | | Straw Bales | \$2.35 \$10 | \$100 | |
| | Seed Labor | | Hours Labor | \$50 | \$200 | |
| | TOTAL | | Tiodis Eaboi | 250 | 3200 | \$8,355 |
| Site 2 | 75774 | 0.0 | Disturbed Asses | | | |
| one 2 | - | | Disturbed Acres Pit Area (Sq Ft) | | | |
| | | | Ft Access Road | | - | |
| | Backfill | | Cubic Yards | \$3 | \$3,722 | |
| | Soil Fill | | Cubic Yards | \$2 | \$248 | |
| | Seed | | Pounds Seed | \$2.35 | \$155 | |
| | Mulch | 10 | Straw Bales | \$10 | \$100 | |
| | Seed Labor | 4 | Hours Labor | \$50 | \$200 | |
| | Access Road | | Hours D6 dozer | \$110 | \$220 | |
| | Seed | | Pounds Seed | \$2.35 | \$51 | |
| | Mulch | | Straw Bales | \$10 | \$100 | |
| | Seed Labor | 4 | Hours Labor | \$50 | \$200 | C4 000 |
| | TOTAL | | | | L | \$4,996 |
| Site 3A | | 0.71 | Disturbed Acres | | | |
| | | | Pit Area (Sq Ft) | 1 | | |
| | | | Ft Access Road | | | |
| | Backfill | | Cubic Yards | \$3 | \$4,444 | |
| | Soil Fill | 148.1 | Cubic Yards | \$2 | \$296 | |
| | Seed | 52.0075 | Pounds Seed | \$2.35 | \$122 | |
| | Mulch | 10 | Straw Bales | \$10 | \$100 | |
| | Seed Labor | | Hours Labor | \$50 | \$200 | |
| | Access Road | | Hours D6 dozer | \$110 | \$220 | |
| | Seed | | Pounds Seed | \$2.35 | \$19 | |
| | Mulch Seed Labor | | Straw Bales Hours Labor | \$10 \$50 | \$100 | |
| | TOTAL | 4 | HORIZ FADOL | \$30 | \$200 | \$5,702 |
| | TOTAL | | | | | 23,702 |
| 4 | | 1.11 | Disturbed Acres | | | |
| | | | Pit Area (Sq Ft) | | | |
| | | 0 | Ft Access Road | | | |
| | Backfill | 1588.8889 | Cubic Yards | \$3 | \$4,767 | |
| | Soil Fill | | Cubic Yards | \$2 | \$318 | |
| | Seed | | Pounds Seed | \$2.35 | \$191 | |
| | Mulch | | Straw Bales | \$10 | \$100 | |
| | Seed Labor | | Hours De deser | \$50 | \$200 | |
| | Access Road Seed | | Hours D6 dozer Pounds Seed | \$110 | \$220 | |
| | Mulch | | Straw Bales | \$2.35 \$10 | \$0 \$100 | |
| | Seed Labor | | Hours Labor | \$50 | \$200 | |
| | TOTAL | - 4 | | 950 | V200 | \$6,096 |
| | 0.371.95 | | | | | ,-,- |
| ite 5 | | 0.64 | Disturbed Acres | U 4 | | |
| | | | Pit Area (Sq Ft) | | 200 | |
| | | 300 | Ft Access Road | | | |
| | Backfill | | Cubic Yards | \$3 | \$4,222 | |
| | Soil Fill | | Cubic Yards | \$2 | \$281 | |
| | Seed | | Pounds Seed | \$2.35 | \$110 | |
| | Mulch | | Straw Bales | \$10 | \$100 | |
| | Seed Labor | | Hours Labor | \$50 | \$200 | |
| 1 | Access Road | | Hours D6 dozer | \$110 | \$220 | |
| | | | Pounds Seed | \$2.35 | \$19 | |
| | Seed | | | č10 | ¢100 | |
| | Seed Mulch Seed Labor | 10 | Straw Bales Hours Labor | \$10 \$50 | \$100 \$200 | |

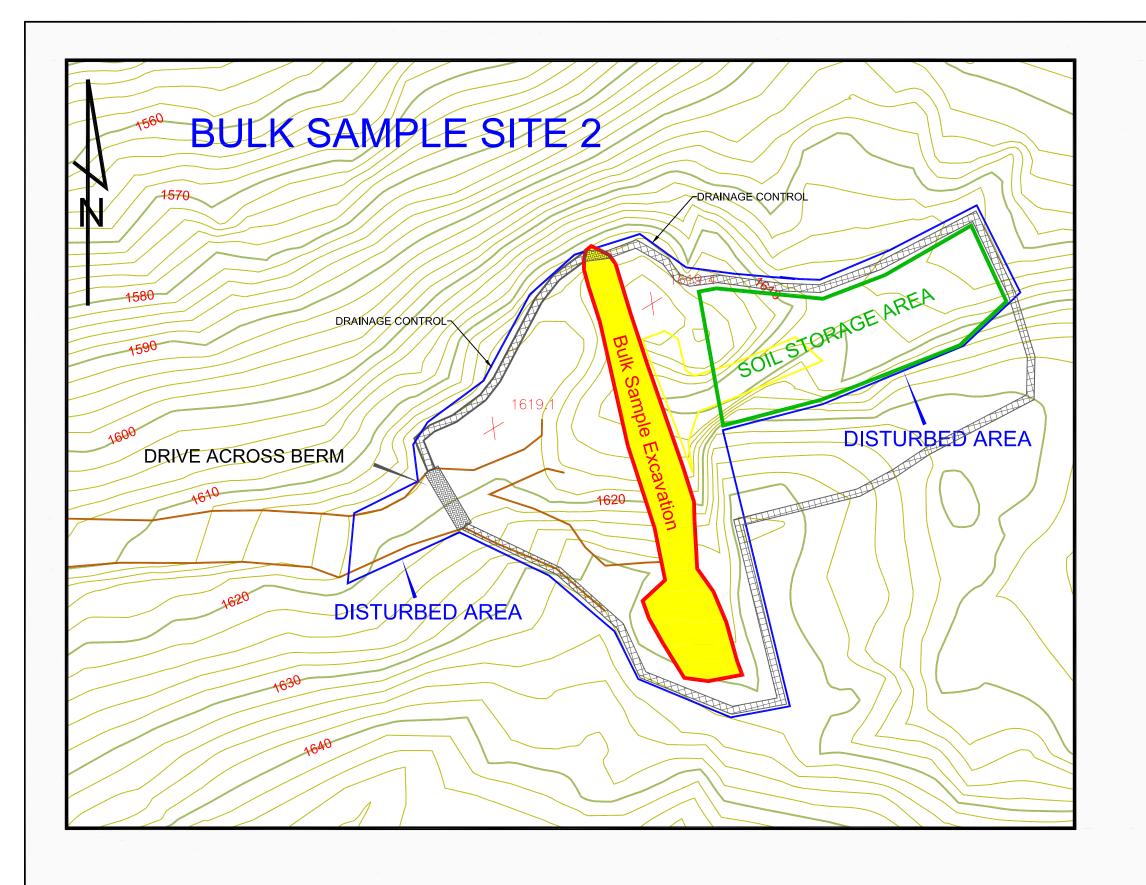


SITE LOCATION
Township 45 North, Range 1 West
NE SW Section 33

Disturbed Acreage 0.59 Acres

Existing Pit Outline Copied from Historic Documents

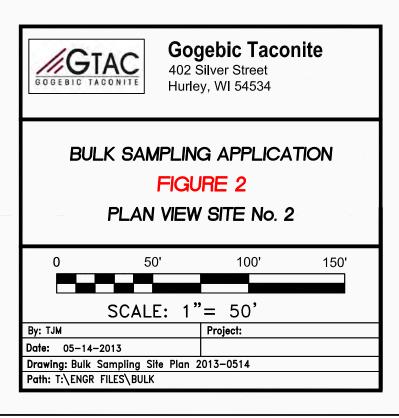


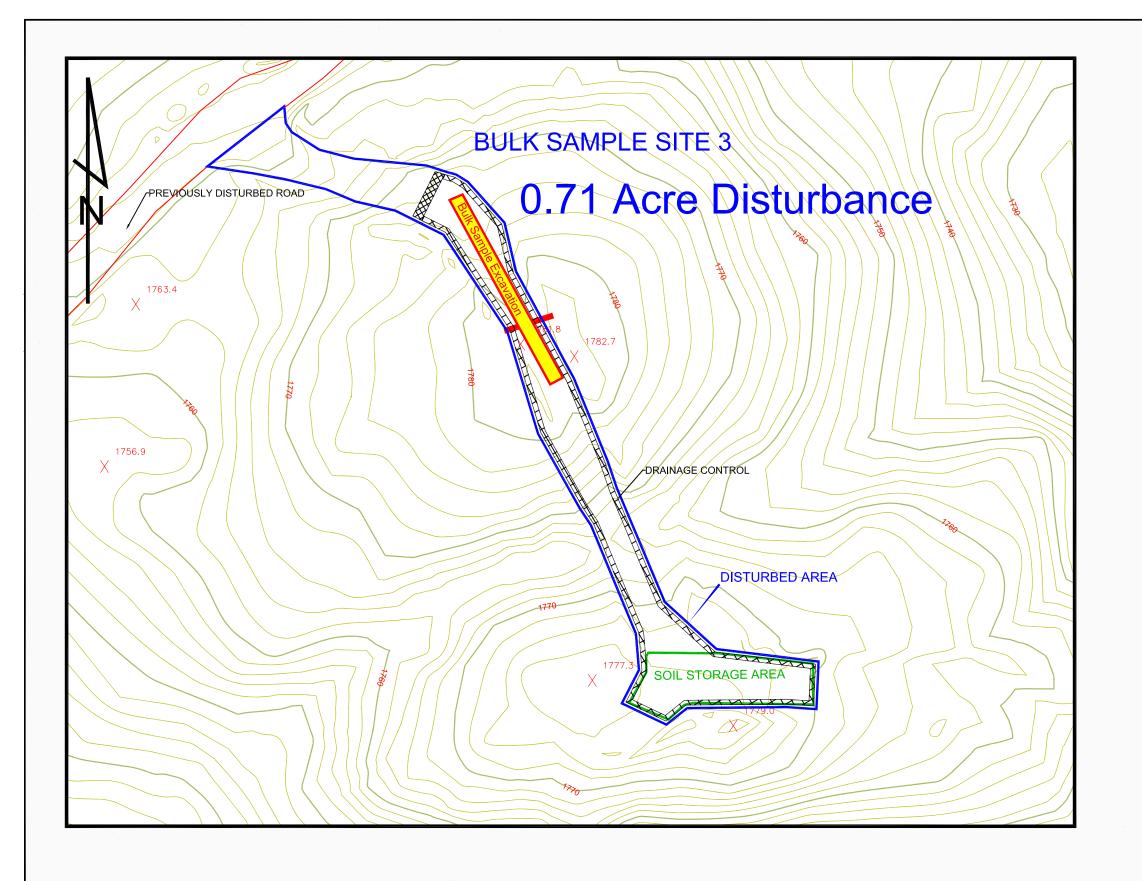


SITE LOCATION
Township 45 North, Range 1 West
NE SW Section 1

Disturbed Acreage 0.90 Acres

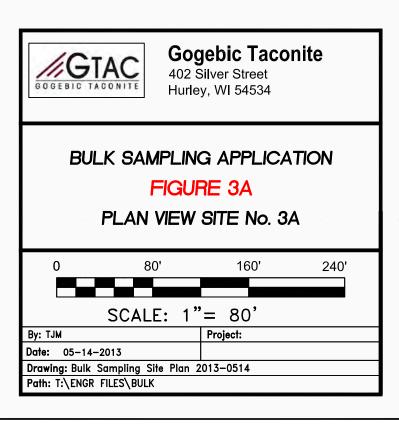
Existing Pit Outline Copied from Historic Documents

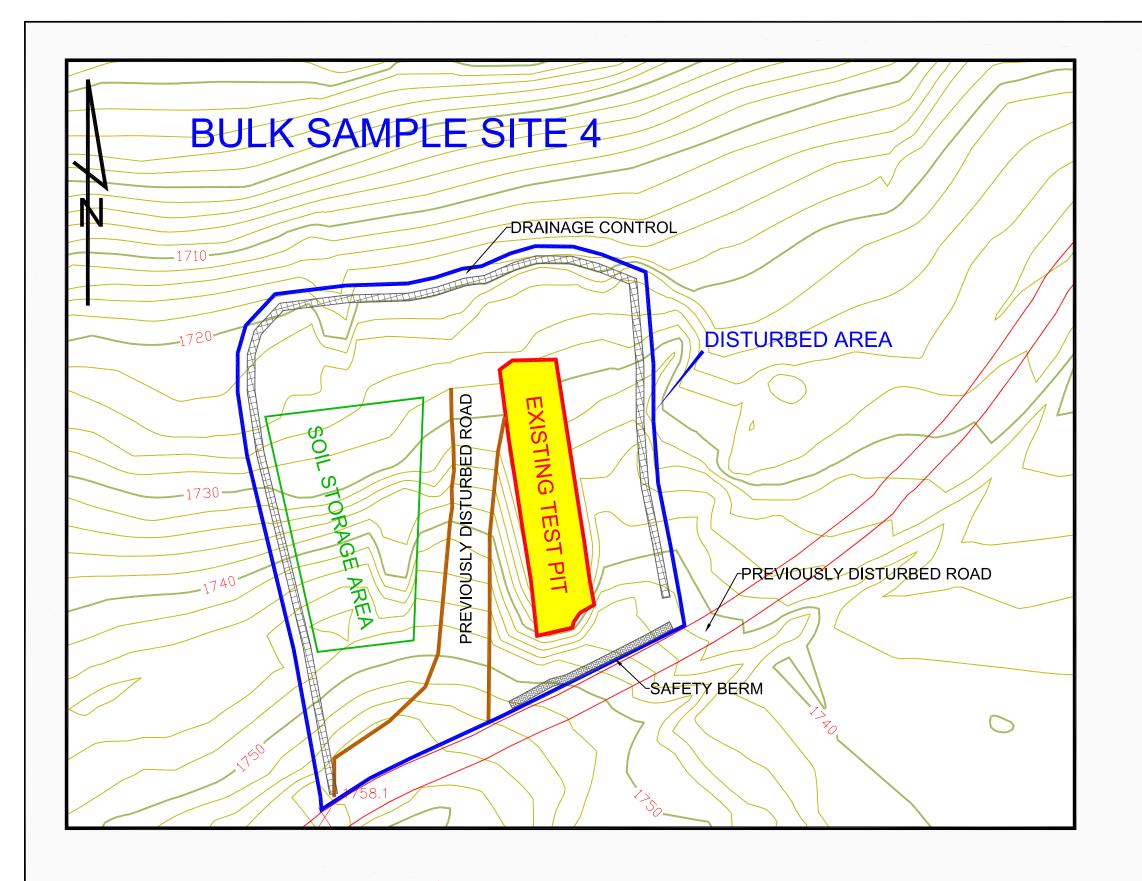




SITE LOCATION
Township 44 North, Range 2 West
NW SE Section 2

Disturbed Acreage 0.71 Acres

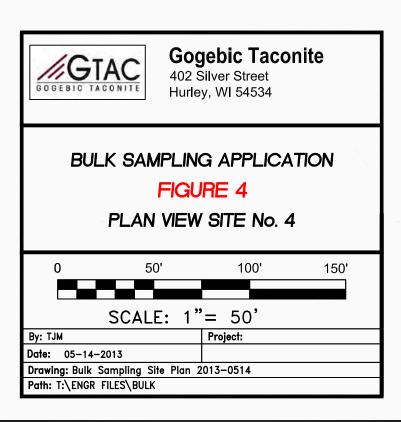


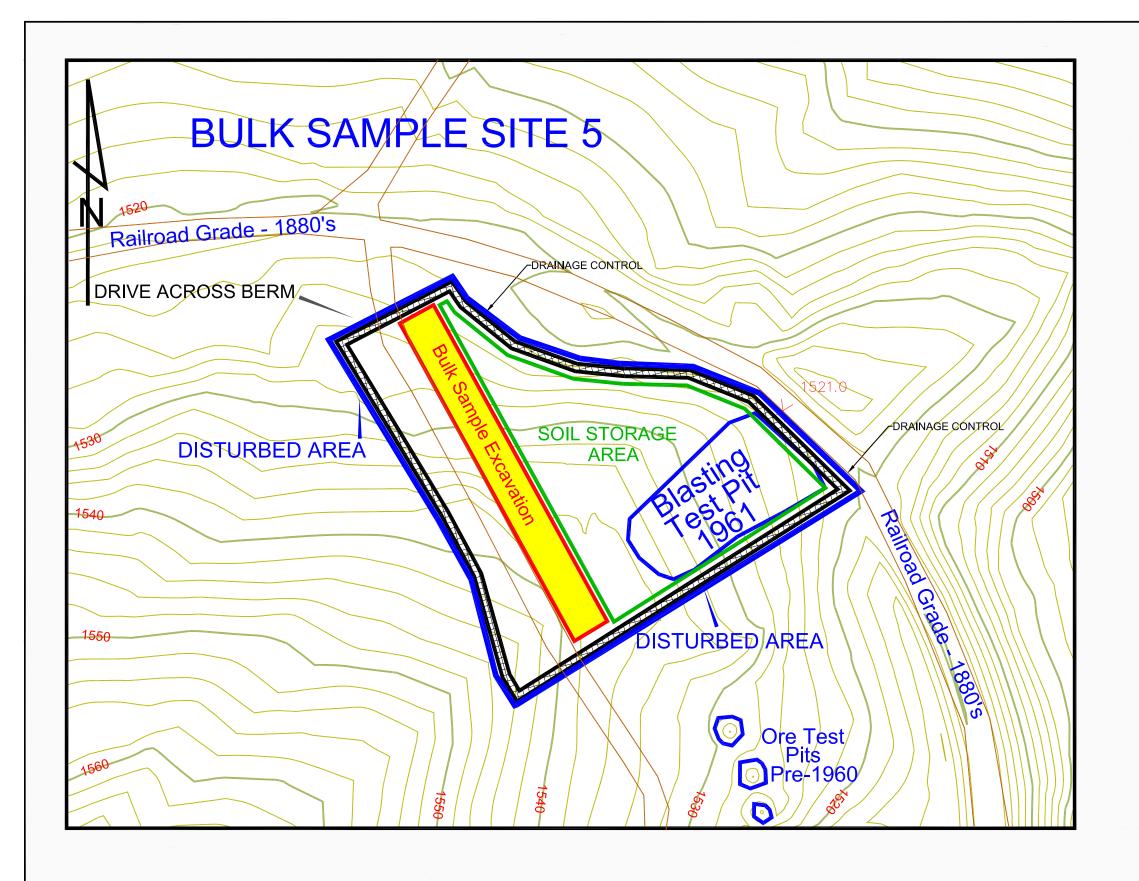


SITE LOCATION
Township 44 North, Range 2 West
NW SE Section 1

Disturbed Acreage 1.11 Acres

Existing Pit Outline Copied from Historic Documents





SITE LOCATION
Township 45 North, Range 1 West
SW NE Section 33

Disturbed Acreage 0.64 Acres

Existing Blast Test Pit Outline Copied from Historic Documents

