



3 April 2023

Mr. Paul Marsh
Arizona State Mine Inspector
Reclamation Division
1700 West Washington
Suite 403
Phoenix, Arizona 85007

Subject: Response to ASMI Technically Incomplete Correspondence for the
Reclamation Plan – Henrietta Mine, LLC Aggregate Operations

Dear Mr. Marsh:

Henrietta Mine, LLC (Henrietta) and Haley & Aldrich, Inc. (Haley & Aldrich) have reviewed the comments from the Arizona State Mine Inspector (ASMI) correspondence dated 14 February 2023 regarding the technical deficiencies in the Reclamation Plan for the Henrietta Mine Aggregate Operations in Yavapai County, Arizona (Attachment A). The following presents Henrietta's response to the ASMI request for missing information.

ASMI Comment No. 1:

Section 2.2 – Description of Future Disturbance – This section and others describe the final slopes as “10-foot horizontal benches and 40-foot vertical faces” with overall slopes of 1 horizontal and 4 vertical (1H:4V). The pit will be excavated into a hill resulting in a pit depth from the crest to the bottom of about 560 feet. There is no discussion of how this slope will be stable and safe, such as an evaluation of design by a registered professional geotechnical engineer. In addition, although the Plan indicates there will be berms, fences, and warning signs, please indicate that the planned measures will be adequate to restrict access to the pit slopes.

Please provide supporting discussion and/or data to justify that the final slope will be stable and safe after reclamation has ceased. In addition, discuss how the existing or planned berms, fences, and warning signs will adequately restrict access to the pit slopes.

Henrietta Response to Comment:

Competent intrusive igneous rock bodies, like those present at the Site, have the capability to hold near vertical slopes. However, industry standard practices require a series of pit walls (faces) and benches to facilitate ramping and to safely catch falling rock. These features, as discussed in our Reclamation Plan yield an overall minimum pit slope of 1H:4V and are typical of hard rock mines in Arizona.



Structural features which could cause rock shear and slope instability have not been identified during surficial mapping and material sampling at the Site. Unfortunately, drilling a series of deep geotechnical rock borings across this large Site to conduct a geotechnical rock slope study is of limited value but is extraordinarily expensive. Further, building roads and pads to facilitate a large drilling program would exceed the 5-acre disturbance limitation in current ASMI reclamation rules.

It is common practice in mining to design and permit a conceptual pit model as described in our pending Reclamation Plan. Once mining begins, operators constantly adjust the pit slopes and mining configurations based on localized geologic conditions (such as rock quality or slope instability that aren't typically identified in their sophisticated ore characterization studies) that are revealed once mining begins. Our pit design represents the greatest and most optimistic extraction scenario and will most likely be minimized based on rock quality, market factors, and extraction costs not fully contemplated at this time.

Again, the overall pit slopes are based on typical industry standards for hard rock mines and will not exceed those included in our design. It is highly likely that the slopes will be further lessened as the factors discussed above are realized. According to United States Army Corps of Engineers (USACE) Engineering and Design Manual, EM 1110-2-3800 Blasting for Rock Excavations, it is common practice to produce slopes of 1/4H:1V, which equates to the 1H:4V slopes outlined in the reclamation plan.

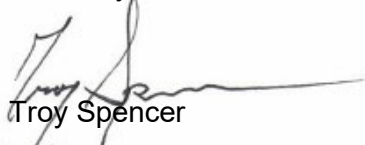
As with other mines of this type, Henrietta is committed to constantly monitoring the condition of the pit slopes during operations and will adjust the mining plan according to the conditions encountered. Henrietta will fence and maintain the entire perimeter of the pit slope along with the required safety berms of mid-axel height of the largest piece of equipment operating at the site. This berm height will far exceed axel heights of any trespasser accessing the site with an OHV or four-wheel-drive vehicle. Additionally, gates and warning signs will be placed and maintained along all areas of the property, including points of access to the property, warning the public of the hazard and to stay out of the area.

It is also an industry standard for fencing, secured gates and warning signs to remain in place following the cessation of operations, completion of reclamation and closure of the property. Henrietta intends to have these measures in place during operation and will maintain these measures during the cessation and closure in accordance with the approved Reclamation Plan.

Attachment B present the revised Reclamation Plan that has been modified to include the text above in Sections 1, 2.2, 2.4.1, and 2.9.

Please feel free to contact the undersigned if you have any questions or require additional information.

Sincerely,



Troy Spencer

Enclosures:

Attachment A: ASMI Technically Incomplete Letter – Dated 14 February 2023

Attachment B: Revised Reclamation Plan for Henrietta Mine, LLC Aggregate Operations

ATTACHMENT A

ASMI Technically Incomplete Letter – Dated 14 February 2023

Arizona State Mine Inspector



PAUL D. MARSH

1700 W. Washington Suite 403
Phoenix, Arizona 85007-2805
(602) 542-5971
Fax (602) 542-5335



February 14, 2023

Troy Spencer
Henrietta Mine LLC
3417 South Valerie Drive
Chandler, Arizona 85286

Re: Technically Incomplete Reclamation Plan for Henrietta Mine LLC – Henrietta Mine Aggregate Operation

Dear Mr. Spencer:

On December 13, 2022, the State Mine Inspector's Office received the Henrietta Mine LLC Reclamation Plan for the Henrietta Mine aggregate operation. On December 15, 2022, the proposed Plan was found to be administratively complete. This plan was forwarded to a contracted consultant for review. The site is located at 5850 South Henrietta Mine Road, Yavapai County, Arizona, in the east half of Section 31 and the west half of Section 32, Township 13 North, Range 1 East, Gila and Salt River Baseline and Meridian, Yavapai County, Arizona.

On February 14, 2023, this office received the following information from our consultant reviewing your plan. In accordance with A.R.S. §§ 27-1272, 27-1273, this letter is to notify you the plans have been found ***Technically Incomplete***.

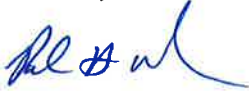
The following items need to be addressed:

- **Section 2.2 – Description of Future Disturbance** – This section and others describe the final slopes as “10-foot horizontal benches and 40-foot vertical faces” with overall slopes of 1 horizontal to 4 vertical (1H:4V). The pit will be excavated into a hill resulting in a pit depth from crest to bottom of about 560 feet. There is no discussion of how this slope will be stable and safe, such as an evaluation or design by a registered professional geotechnical engineer. In addition, although the Plan indicates there will be berms, fences, and warning signs, please indicate that the planned measures will be adequate to restrict access to the pit slopes.

Please provide supporting discussion and/or data to justify that the final slope will be stable and safe after reclamation has ceased. In addition, discuss how the existing or planned berms, fences, and warning signs will adequately restrict access to the pit slopes.

Please supply the additional information within 90 days. If you have any questions concerning this determination, please contact Amanda Lothner at (602) 542-5971.

Sincerely,



Paul D. Marsh
Arizona State Mine Inspector



1700 W. Washington Suite 403
Phoenix, Arizona 85007-2805
(602) 542-5971
Fax (602) 542-5335



ATTACHMENT B

**Revised Reclamation Plan for Henrietta Mine, LLC
Aggregate Operations**

**RECLAMATION PLAN
HENRIETTA MINE**
5850 SOUTH HENRIETTA MINE ROAD
YAVAPAI COUNTY, ARIZONA

by Haley & Aldrich, Inc.
Phoenix, Arizona

for Henrietta Mine, LLC
Yavapai County, Arizona



File No. 133968-005
Resubmittal: April 2023
November 2022

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1. Introduction

This Reclamation Plan (Plan) was written for Henrietta Mine, LLC (Henrietta) Operation (Site), owned and operated by Henrietta Mine LLC, located in Yavapai County, Arizona. Reclamation planning has been conducted in accordance with the Arizona Aggregate Mined Lands Reclamation Act (Arizona Revised Statutes [A.R.S.] §27-1201) as authorized by A.R.S. §27-1204. This Plan has been developed pursuant to the format and content prescribed in the Arizona Aggregate Mined Lands Reclamation Rules (Arizona Administrative Code [A.A.C.], R11-3-101, et seq.).

The Site consists of one Yavapai County parcel located at 5850 S. Henrietta Mine Road in Yavapai County, Arizona. The parcel is located in the eastern half of Section 31 and the western half of Section 32, Township 13 North, Range 1 East of the Gila and Salt River Baseline and Meridian, Yavapai County, Arizona. The Site is approximately 45 acres.

The Henrietta Mine is an inactive underground gold mine which operated from the late 1800s until the early 1900s. During these operations, numerous shafts and adits were constructed on the property which conveyed miners and materials to the underground workings and subsequently conveyed ore to the milling and concentrating complex formerly located in the southern portion of the property. Just as the underground operations were connected via a series of tunnels, shafts, and drifts, surface operations were connected via a system of unimproved roadways, tram, and trails. All of the historical disturbances at the Henrietta Mine predate current environmental and mining regulations governing reclamation.

Henrietta intends to produce aggregate materials from the area above the historical underground workings area. This Plan was written to describe and summarize the overall reclamation approach to reclaim the Site during production using concurrent reclamation techniques, followed by final closure and reclamation at the end of mine life, in accordance with Arizona statutes and regulations.

As a condition of Plan approval, Henrietta agrees to maintain overall mine pit slope angles no steeper than 3 vertical to 1 horizontal (3V:1H) until such time that a site specific geotechnical study confirms that 4V:1H slopes meet the appropriate static and pseudo static factors of safety. The site-specific geotechnical study must be stamped by an Arizona Registered Professional Engineer and submitted to the offices of the Arizona State Mine Inspector (ASMI) for review before modifying any pit slope angles. If the site-specific geotechnical study recommends a maximum safe overall pit slope angle that differs from the 4V:1H slope described in the approved Plan, Henrietta must submit for a Plan Amendment before modifying any approved slopes on the property.

2. Reclamation Plan Narrative

2.1 OWNERSHIP/OPERATOR INFORMATION

The Site is owned by Henrietta Mine, LLC. Henrietta plans to conduct mining and processing operations on Yavapai County Assessor's Parcel Number 402-01-027D as shown on Figure 1. Owner/Operator information is provided below.

2.1.1 Owner/Operator Name and Address

Owner/Operator: Henrietta Mine, LLC
3417 S. Valerie Dr.
Chandler, Arizona 85286

2.1.2 Contact Person Name and Address

Operator's contact person (for regulatory contact):

Troy Spencer
Henrietta Mine, LLC
3417 S. Valerie Dr.
Chandler, Arizona 85286
Phone: (480) 434-3696
troy@tritondevelop.com

2.1.3 Responsible Party

Henrietta Mine, LLC is the responsible party for the reclamation described in this Reclamation Plan. Henrietta assumes responsibility for the reclamation of surface disturbances that are attributable to the aggregate mining unit consistent with A.R.S. Article 27, Chapter 6 and the rules adopted pursuant to this chapter.



Signature

April 3, 2023

Date

Troy Spencer

Name

Title

2.1.4 Certificate of Disclosure

The certificate of disclosure required by A.R.S. 27-1205 was prepared by Henrietta and will be submitted separately.

2.1.5 Description of Current Operation

The property owned or controlled by Henrietta is located in the eastern half of Section 31 and the western half of Section 32, Township 13 North, Range 1 East of the Gila and Salt River Baseline and Meridian, Yavapai County, Arizona. The Site is approximately 45 acres and has new surface disturbances of less than 5 acres (Figure 1). The Site is bounded on all sides by subdivided privately owned agricultural and residential properties. State Highway 69 is located approximately 1 mile east of the eastern property line of the Site.

Figure 2 shows existing Site conditions. Henrietta removes basalt and granite from the hillside and produces an aggregate product. The process area encompasses the southeast portion of the Site and includes crushing and screening equipment and several equipment and material storage areas. The remainder of the Site includes haul roads and undeveloped land.

The Site is bound to the north, west, and east by vacant land. Private residences and a shared access road are located to the south of the Site. There are no known sensitive species habitats within the Site boundary that would potentially be disturbed by Site operations. Current access to the parcel is provided by unpaved access roads entering from Henrietta Mine Road south of the parcel. Excavated materials will be crushed and screened in the plant processing area and finished products sold to customers for use in various construction materials projects off-property. There are no ready mix or asphalt blending operations on the Site.

Equipment, structures, and facilities at the Site are used for aggregate crushing, screening, and washing.

Details of the processing area include:

- Portable crushing and screening plant equipment;
- Portable wash plant;
- Portable office trailer;
- Equipment maintenance area; and
- Truck scale.

Utilities on the Site include:

- Water provided by an on-site well that is powered by an on-site generator;
- Power supplied by portable generators;
- Sanitary needs provided by on-site portable toilets, serviced by a licensed contractor; and
- Solid waste disposal provided by a licensed solid waste contractor in the area.

2.1.6 Current Permits, Licenses, and Approvals

Operations will comply with applicable air, storm water, and hazardous/regulated materials management regulations. The Site currently has/may obtain the following permits/plans:

- Arizona Pollutant Discharge Elimination System Multi-Sector General Permit;
- Storm Water Pollution Prevention Plan (SWPPP); and
- Yavapai County Air Quality Department Non-Title V Air Quality Permit.

Waste rock and tailings at the Site have been evaluated for their potential to discharge contaminants above established Arizona Aquifer Water Quality Standards (AWQS). These studies suggest that tailings and waste rock will not discharge, and the results have been submitted to the Arizona Department of Environmental Quality (ADEQ) under a Determination of Applicability to the Aquifer Protection Permit (APP) requirements. If ADEQ concurs with our conclusion that waste rock and tailings generated at the Site do not have the potential to discharge, then an APP will not be required for the Site. Consequently, tailings and waste rock may be placed in any delineated stockpile on the property as inert material. However, if an APP is required for the Site, any closure or reclamation requirements required to limit potential discharges to the environment will be incorporated into this Plan as an amendment.

These other permits/plans indirectly regulate operations at the Site, but do not have the authority to control or limit the depth or extent of mining.

2.2 DESCRIPTION OF FUTURE DISTURBANCE

The mining plan is designed to excavate to post-mining reclamation slopes as the mining area is advanced to the final depth and dimensions (Figure 3). The Site will consist of the following areas:

- Mining Area – This will be an open-ended mining area that will be excavated using conventional excavation and loading equipment. The proposed excavation will be benched with overall slopes of 10-foot horizontal benches and 40-foot vertical faces. This is equal to overall slopes of 4V:1H with a crest elevation of approximately 5,680 feet above mean sea level (amsl). The bottom of the excavation will reach elevation 5,120 feet amsl. The proposed Mining Area has a footprint of approximately 32 acres.
- Henrietta will establish and maintain overall mine pit slope angles no steeper than 3V:1H until such time that a site specific geotechnical study confirms that 4V:1H slopes meet the appropriate static and pseudo static factors of safety. The site-specific geotechnical study must be stamped by an Arizona Registered Professional Engineer and submitted to the offices of the ASMI for review before modifying any pit slope angles. If the site-specific geotechnical study recommends a maximum safe overall pit slope angle that differs from the 4V:1H slope described in the approved Plan, Henrietta must submit for a Plan Amendment before modifying any approved slopes on the property.
- Plant Area – The plant processing area will include portable generators; fixed crushing, screening, and grinding plants; several portable storage containers; and an office trailer. No maintenance shops or other processing equipment are expected to be on Site. Aggregate crushing and screening will be the only processing operation conducted on the Site. The proposed Plant Area has a footprint of approximately 9 acres.

All future mining, processing and stockpiling, and reclamation activities on the Site are planned to occur in the Mining and Plant areas as shown on Figure 3.

- Total disturbances are estimated at approximately 43 acres; approximately 32 acres for the Mining Area and approximately 9 acres for the Plant Area.
- Excavation walls will be concurrently mined to a reclamation slope of 4V:1H. However, Henrietta will maintain overall mine pit slope angles no steeper than 3V:1H until such time that a site specific geotechnical study confirms that 4V:1H slopes meet the appropriate static and pseudo static factors of safety.

- The Site will maintain unpaved haul roads within the Mining Area and leading to and within the Plant Area.
- Setbacks from the property lines to the pit edge will be 50 feet on all sides of the property.
- The maximum final depth of mining will be approximately 560 feet below land surface at the northern end of the property and equal to the surrounding grade at the southern end of the property near the entrance.
- Site mining operations are not anticipated to exceed 20 years.

2.3 RECLAMATION MEASURES TO ACHIEVE POST-MINING LAND USE

The entire Mining and Plant areas encompass approximately 45 acres. The post-mining land use at the Site has been designated as naturalized open space (Figure 4). All mining excavations will be mined to the final reclamation slope angle thereby creating a concurrent reclaimed slope throughout the mine life within the Mining Area. The Mining Area will be in the approximate shape of an amphitheater at the end of mining life. The goal is to mine the hill slope down the existing surface elevation of the Plant Area. No pit will exist below the surrounding surface elevation near the property entrance.

All Mining and Plant area equipment will be demobilized upon cessation of mining and completion of reclamation activities. Scarification of compacted surfaces and unpaved roads will be required after the cessation of mining activities. Several concrete pads will be broken up and buried on Site. No reclamation of exposed bedrock in the excavation area or other areas of the Site will occur. The on-site well will remain in place post-reclamation for post-mining land use purposes. Existing property fencing and restricted access signage will remain in place post-reclamation.

2.4 POST-MINING RE-GRADING AND EROSION CONTROL

2.4.1 Description of Final Topography

The Mining Area will remain with an approximate benched slope angle of 3V:1H until such time as an independent site-specific geotechnical study confirms that a steeper slope meets the appropriate static and pseudo static factors of safety. The Plant Area equipment, storage containers, and office trailer will be demobilized and the concrete pads for the equipment will be broken up and buried on Site. The berms around the pit perimeter will remain in place post-reclamation to provide access restriction to the public.

2.4.2 Erosion Control Plan

Storm water drainage controls have been established as part of a SWPPP for the Site. The Site will be non-discharging and specific erosion control measures include:

- Stormwater will be routed into the active Mining Area from the Plant Area and low-lying areas;
- An earthen berm will be maintained around the perimeter of the excavation; and
- The SWPPP will be followed in addition to Site-specific best management practices.

2.4.3 Surrounding Area Land Use

The Site is located in an unincorporated area of Yavapai County and is zoned as RCU-2A. Surrounding land uses generally consist of:

- Grazing and residential land to the south; and
- Undeveloped lands to the north, east, and west.

The planned post-mining land use as naturalized open space is consistent with Yavapai County zoning for the area.

2.5 POST-MINING PLAN FOR STRUCTURES AND EQUIPMENT

2.5.1 Structures to be Removed

All structures associated with planned mining and material processing will be removed at the conclusion of mining and processing activities. All mining, hauling, and mobile equipment operated by a third party will be removed by the contractor.

Concrete pads associated with equipment foundations or footings will be broken up and buried on Site or used for storm water riprap. The existing on-site water well will remain on the Site.

2.5.2 Access Restriction/Public Safety

An earthen berm will be maintained around the perimeter of the Mining Area. Perimeter warning signs and lockable gates will be installed and maintained during mining to identify potential hazards, to prevent unauthorized access, and to enhance public safety.

2.6 POST-MINING ROAD RECLAMATION

All unpaved mine roads (not located on consolidated bedrock) within the Mining and Plant areas will be reclaimed by ripping and scarifying compacted surfaces. Reclamation of compacted road surfaces will eliminate the concentrated and erosive flow patterns associated with typical road runoff. The uneven and loosened surfaces created by re-contouring, scarifying, and ripping will facilitate infiltration and generate relatively non-erosive sheet flow under heavy precipitation events.

2.7 SOIL CONSERVATION AND REVEGETATION

2.7.1 Topsoil Conservation Plan

The Site will be concurrently mined to the final reclamation slopes as the pit advances. Very limited topsoil and mined overburden will be removed and placed on the slopes or berms when available. Any remaining material stockpiles will be spread around the Site for grading to allow for surface water drainage into the pit area. The Site is planned for natural revegetation.

2.8 CONCEPTUAL SCHEDULE FOR DISTURBANCE AND RECLAMATION.

The conceptual schedule includes:

- Disturbance operations are ongoing.
- Excavation and concurrent reclamation are anticipated to continue through approximately 2043.

- Excavation activities may experience extended periods of care and maintenance due to the depressed market conditions for construction materials. All permit compliance requirements and mining entitlements will be maintained during care and maintenance periods.
- Reclamation activities will be concurrent with excavation activities as conditions allow.
- If concurrent reclamation is not feasible, areas will be reclaimed after excavation activities are completed. Final post-excavation reclamation activities will begin within 12 months of the cessation of mining activities and are anticipated to be completed within 12 months.
- APP closure activities, if any, will be conducted in accordance with the closure requirements specified in the ADEQ-approved APP Closure Plan, if necessary.
- Reclamation will be deemed complete once the reclaimed surfaces have been regraded to match surrounding conditions, and the Arizona State Mine Inspector verifies that the owner or operator has fulfilled the requirements of the approved Reclamation Plan.
- All areas of exposed bedrock will not be reseeded or revegetated.

2.9 PROBABLE FUTURE CONDITIONS

The profitable operation of a mine is based on a variety of factors including the amount and quality of geologic resources available for extraction, permitting constraints, economic factors affecting the cost of extraction and processing, and market conditions which influence the supply and demand for these materials or finished products containing these materials. Changes to any of these factors can have significant impacts on mine profitability and can thus require operators to modify mining, processing, or operational methods or expand or temporarily cease (care and maintenance) operations.

Further, the means and methods described in this Plan to operate a mining facility and implement reclamation are based on the application of currently available technologies and practices. These technologies and practices are constantly evolving, and the operations described in this Plan may be modified if the currently specified means and methods become outdated, obsolete, cost ineffective, or impracticable. For instance, it could be determined that underground mining is more cost effective and efficient than open-pit excavation.

Consequently, factors affecting profitable operation or means and methods are likely to change due to unanticipated or unknown future conditions. Therefore, the operator of the facility described in this Plan reserves the right to adapt their operations or plans to these changing, unanticipated, or unknown future conditions to the extent that these operational changes do not cause substantial non-compliance with existing permits or authorizations. Further, if these changes increase the estimated costs of reclamation, an amendment to the approved Plan will be promptly submitted.

Henrietta will maintain overall mine pit slope angles no steeper than 3V:1H until such time that a site-specific geotechnical study confirms that 4V:1H slopes meet the appropriate static and pseudo static factors of safety. The site-specific geotechnical study will be stamped by an Arizona Registered Professional Engineer and submitted to the offices of the ASMI for review before modifying any pit slope angles. If the site-specific geotechnical study recommends a maximum safe overall pit slope angle that differs from the 4V:1H slope described in the approved Plan, Henrietta will submit for an administrative Plan Amendment before modifying any approved slopes on the property.

2.10 ESTIMATED RECLAMATION COSTS

The unit costs developed for this Plan are based primarily on the cost estimating database RS Means Facilities Construction Cost Data (2017) along with estimated productivity for material movement based primarily on the Caterpillar Handbook (Edition 31). Administrative costs were based on Arizona Mining Association recommendations.

The estimated costs developed for this Plan include:

- Mining Area re-grading and scarifying;
- Plant Area re-grading and scarifying;
- Road scarifying;
- Structure removal;
- Care and maintenance;
- General construction;
- Plant Equipment removal; and
- Administrative costs.

A summary of the estimated reclamation costs is listed in Table I at the end of this section. The sources and calculation of the estimated reclamation costs are provided in Appendix A.

2.10.1 Mining Area Re-grading and Scarifying

The Mining Area will be excavated in competent bedrock to the final reclamation slope angle of 4V:1H, thereby creating a concurrent reclaimed slope throughout the mine life within the Mining Area. Consequently, no re-grading of pit walls or benches will be necessary to achieve the final reclamation slopes. Any unconsolidated materials in the pit floor will be ripped and scarified to assist with infiltration of storm water that will report to the pit at the Site. This area is estimated to be 20 acres.

The cost for scarifying and ripping the Mining Area is estimated to be \$6,000.

2.10.2 Plant Area Re-grading and Scarifying

The Plant Area will be ripped and scarified to assist with infiltration of storm water that will report to the pit at the Site. This area is estimated to be 9 acres.

The cost for scarifying and ripping the Plant Area is estimated to be \$3,000.

2.10.3 Road Reclamation

All unpaved roads within the Mining and Plant areas not constructed on competent bedrock will be reclaimed by ripping and scarifying. For cost estimation purposes, 15,000 feet of roads will be ripped and scarified.

The cost of ripping and scarifying roads in the Mining and Plant areas is estimated to be \$4,000.

2.10.4 Structures

No structures will remain on Site after cessation of mining. A portable office trailer with a concrete footing and portable storage containers will be the only structures requiring removal. The on-Site well will remain after mining and not be abandoned. Within the Plant Area, three concrete slabs will be broken up and buried on Site. The estimated amount of concrete to be removed is approximately 10,000 square feet.

The cost to remove the structures is estimated to be \$85,000.

2.10.5 Care and Maintenance Cost

Care and maintenance for the reclamation effort at this operation consist of:

- A single annual inspection of the Site;
- Preparation of the required annual report describing Site conditions; and
- Trash removal.

One annual inspection is anticipated to be needed before the Site is released. The cost of care and maintenance of the Site is estimated to be \$12,000.

2.10.6 Construction Cost

Earthen berms will be installed along the perimeter of the excavation area on the northern end of the property to limit public access to the mine site. Signage will be installed to prohibit access to the property for use as a recreational area by the public.

The cost of construction is estimated to be \$2,000.

2.10.7 Plant Removal Cost

The estimated reclamation costs detailed in this section include the dismantling, loading onto transport, and removal of the following equipment:

- Two crushing plants;
- One screening plant;
- All conveyors, bins, and portable generators; and
- The portable Conex trailers used for the office and storage.

Appendix B presents third-party quotes that were obtained to remove this equipment from the Site by Reuters Equipment.

The cost of plant removal is estimated at \$245,000.

2.10.8 Cost Adjustment

A price index factor was included to adjust from 2019 pricing to estimated 2022 pricing on operating and material costs. The index factor supplied is the Consumer Price Index (CPI) for the period 2019 through 2020.

- CPI = 0.046

The cost adjustment is estimated at \$16,000.

2.10.9 Administrative Cost

The administrative costs provide the necessary components to generate a third-party estimate. The estimated administrative costs include:

- Contingency;
- Mobilization/demobilization;
- Indirect costs;
- Contractor profit; and
- Contract administrative costs.

The total estimated administrative cost is estimated to be \$133,000.

2.10.10 Total Reclamation Cost

The total estimated reclamation cost for this reclamation plan is estimated to be \$506,000.

Table I. Estimated Reclamation Cost Summary		
Section	Reclamation Item	Cost
2.10.1	Mining Area Re-grading and Scarifying	\$6,000
2.10.2	Plant Area Re-grading and Scarifying	\$3,000
2.10.3	Road Reclamation	\$4,000
2.10.4	Structures	\$85,000
2.10.5	Care and Maintenance Cost	\$12,000
2.10.6	Construction Cost	\$2,000
2.10.7	Plant Removal Cost	\$245,000
2.10.8	Cost Adjustment	\$16,000
2.10.9	Administrative Cost	\$133,000
	Total Reclamation Cost	\$506,000

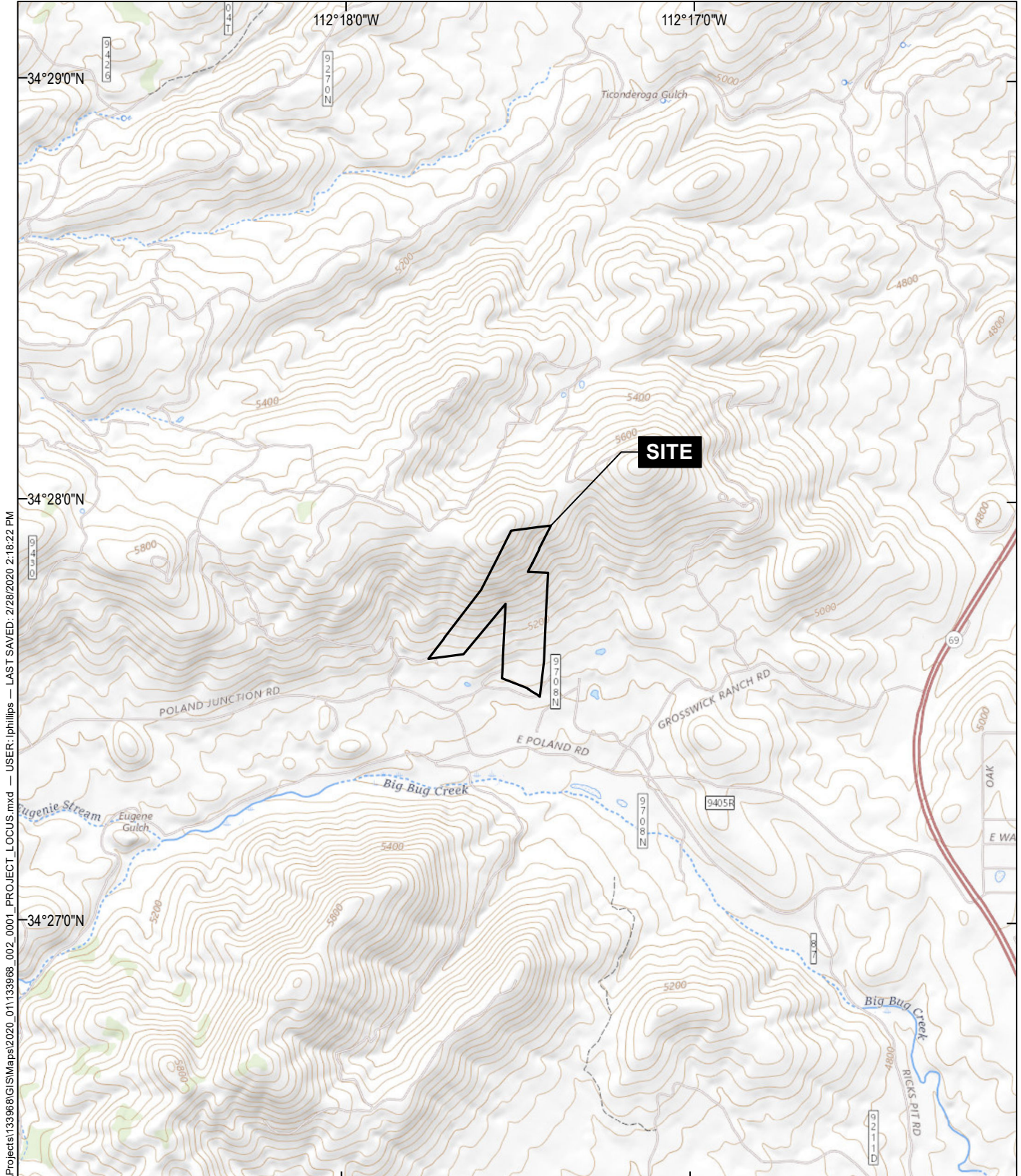
3. Fees

The fee for a new Aggregate Mined Land Reclamation Plan is \$3,800. A check covering this fee has been submitted with this Plan.

4. Financial Assurance

Henrietta will provide a Surety Bond for the Financial Assurance Mechanism used to cover the estimated reclamation cost. The required corporate information needed to satisfy the indemnity agreement requirements of A.A.C. R11-2-804 will be submitted under separate correspondence within 60 days.

FIGURES



GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\133968\GIS\Maps\2020_01\133968_002_0001_PROJECT_LOCUS.mxd — USER: iphillips — LAST SAVED: 2/28/2020 2:18:22 PM



MAP SOURCE: USGS
 SITE COORDINATES: 34°27'49"N, 112°17'31"W

**HALEY
ALDRICH**
 HENRIETTA MINE, LLC
 5850 HENRIETTA MINE ROAD
 MAYER, ARIZONA

PROJECT LOCUS




APRIL 2023

FIGURE 1

GIS FILE PATH: \\haleyaldrich\share\CP\Projects\133968\GIS\Maps\2022_11\133968_002_0002_SITE_PLAN.mxd — USER: khansen — LAST SAVED: 11/3/2022 1:44:34 PM

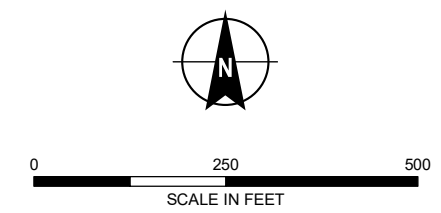


LEGEND

-  WELL
-  PLANT AREA (9 ACRES)
-  SITE BOUNDARY (45 ACRES)

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. ASSESSOR PARCEL DATA SOURCE: YAVAPAI COUNTY
3. AERIAL IMAGERY SOURCE: ESRI



HALEY ALDRICH HENRIETTA MINE, LLC
 5850 S HENRIETTA MINE ROAD
 MAYER, ARIZONA

SITE PLAN

APRIL 2023

FIGURE 2

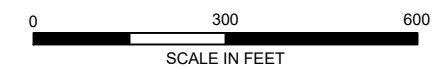


LEGEND

- 5440 — EXCAVATION CONTOUR (MAJOR)
- EXCAVATION CONTOUR (MINOR)
- PROPERTY BOUNDARY

NOTES

1. PROPOSED PIT ASSUMED TO HAVE 40' WALLS AND 10' BENCHES
2. SITE TOPOGRAPHY DEVELOPED BY COOPER AERIAL SURVEYS CO AND PROVIDED TO HALEY AND ALDRICH INC. ON 13 MAY 2020.
3. ALL LOCATIONS AND BOUNDARIES AREA APPROXIMATE.
4. AERIAL IMAGERY SOURCE: ESRI



HENRIETTA MINE, LLC
5850 S HENRIETTA MINE ROAD
MAYER, ARIZONA

**POST MINING EXCAVATION
CONTOURS**

SCALE: AS SHOWN
APRIL 2023

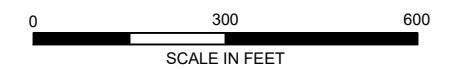


LEGEND

- 5440 — EXCAVATION CONTOUR (MAJOR)
- EXCAVATION CONTOUR (MINOR)
- PROPERTY BOUNDARY
- NATURALIZED OPEN SPACE

NOTES

1. PROPOSED PIT ASSUMED TO HAVE 40' WALLS AND 10' BENCHES
2. SITE TOPOGRAPHY DEVELOPED BY COOPER AERIAL SURVEYS CO AND PROVIDED TO HALEY AND ALDRICH INC. ON 13 MAY 2020.
3. ALL LOCATIONS AND BOUNDARIES AREA APPROXIMATE.
4. AERIAL IMAGERY SOURCE: ESRI



HALEY ALDRICH HENRIETTA MINE, LLC
5850 S HENRIETTA MINE ROAD
MAYER, ARIZONA

POST MINING LAND USE

SCALE: AS SHOWN
APRIL 2023

FIGURE 4

APPENDIX A
Reclamation Cost Estimate

Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		1 of 12
Project			Subject			
Henrietta Mine, LLC			Estimated Cost Summary (1 of 2)			

Reclamation Item	Description and Units	Est. Cost	Number of Units	Cost	References/Notes
Mining Area Regrade and Scarifying					Section 2.10.1 of Report
(No Mulch or Fertilizer)	Surface Regrading and Scarifying (square foot)	\$ 0.01	871,200	\$ 6,000	
	Revegetation Cost - Broadcast (Acre)	\$ 377		\$ -	
	Revegetation Cost - Hydroseed (Acre)	\$ 1,175		\$ -	
	Containerized Trees (Each)	\$ 10		\$ -	
Mining Area Regrade and Scarifying Sub-Total = \$ 6,000					
Plant Area Regrade and Scarifying					Section 2.10.2 of Report
	Surface Regrading and Scarifying (square foot)	\$ 0.01	392,040	\$ 3,000	
	Revegetation Cost - Broadcast (Acre)	\$ 377		\$ -	
	Revegetation Cost - Hydroseed (Acre)	\$ 1,175		\$ -	
	Containerized Trees (Each)	\$ 10		\$ -	
Plant Area Regrade and Scarifying Sub-Total = \$ 3,000					
Roads					Section 2.10.3 of Report
(Side Slope < 30%)	Rip/Scarify (Linear Ft.)	\$ 0.28	15,000	\$ 4,000	
(Side Slope >30%)	Re-Grading and Topsoiling (Linear Ft.)	\$ 1.69		\$ -	
(No Mulch or Fertilizer)	Revegetation Cost - Broadcast (Acre)	\$ 377		\$ -	
	Revegetation Cost - Hydroseed (Acre)	\$ 1,175		\$ -	
Roads = \$ 4,000					
Structures					Section 2.10.4 of Report
(Break-up and bury Slab)	Demolition and Removal - Metal Building (Sq. Ft.)	\$ 3.81		\$ -	
(Break-up and bury Slab)	Demolition and Removal - Secondary Containment (Sq. Ft.)	\$ 8.52		\$ -	
(Break-up and bury Slab)	Demolition and Removal - Concrete Building (Sq. Ft.)	\$ 15.86		\$ -	
	Powerline Removal - Single Pole Utility (Linear Mile)	\$ 12,560		\$ -	
	Transformer Removal (Each)	\$ 6,280		\$ -	
	Demolition - Chain-Link Fencing (Linear Ft.)	\$ 4.36		\$ -	
	Demolition - Barb Wire Fencing (Linear Ft.)	\$ 1.94		\$ -	
	Septic Tank Removal (Each)	\$ 1,000		\$ -	
	Well Removal (Ft. Depth)	\$ 33.55		\$ -	
	Removal - 15" Culvert (Linear Ft.)	\$ 10.29		\$ -	
	Removal - 36" Culvert (Linear Ft.)	\$ 17.15		\$ -	
(Break-up and bury Slab)	Demolition - Concrete Roads and Pads (Sq. Ft.)	\$ 8.52	10,000	\$ 85,000	
Structures = \$ 85,000					
Care and Maintenance					Section 2.10.5 of Report
	Site Monitoring and Reporting (Annual)	\$ 10,000	1	\$ 10,000	
	Trash Removal (Ton)	\$ 75	25	\$ 2,000	
Care and Maintenance = \$ 12,000					
Construction					Section 2.10.6 of Report
	Construction - Chain-Link Fencing (Linear Ft.)	\$ 9.21		\$ -	
	Install Rip Rap Erosion Lining (Sq. Yd)	\$ 77.00		\$ -	
	Install Access Restriction Sign	\$ 83.40	25	\$ 2,000	
Construction = \$ 2,000					
Est. Reclamation Operating and Material (O&M) Cost Sub-Total = \$ 112,000					

Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		2 of 12
Project			Subject			
Henrietta Mine, LLC			Estimated Cost Summary (2 of 2)			

Reclamation Item	Description and Units	Est. Cost	Number of Units	Cost	References/Notes
Est. Reclamation Operating and Material (O&M) Cost Sub-Total (from page 1) = \$ 112,000					
Material Haulage for Backfill					
	Truck and Loader - 2000Ft. One Way (Cu. Yd)	\$ 0.98		\$ -	
	Dozer and Scraper - 1000Ft. One Way (Cu Yd)	\$ 0.68		\$ -	
				Material Haulage = \$ -	
Plant Removal					
(Processing Equip)	Removal - Plants	\$ 245,000.00	1.0	\$ 245,000	Section 2.10.7 of Report
(Beltline)	Removal - Conveyor			\$ -	
				Plant Removal = \$ 245,000	
Est. Reclamation Operating and Material (O&M) Cost Sub-Total = \$ 357,000					
Cost Adjustment					
Template based on 2019 costs	Consumer Price Index Increase		0.046	\$ 16,000	Section 2.10.8 of Report https://www.usinflationcalculator.com/inflation/current-inflation-rates/
				Cost Adjustment = \$ 16,000	
Est. Reclamation Operating and Material (O&M) Cost Total = \$ 373,000					
Administrative Costs					
% of O&M Cost	Contingency	10%		\$ 37,000	ARPA Recommendations
% of O&M Cost	General Mobilization/De-Mobilization	4%		\$ 15,000	ARPA Recommendations
% of O&M Cost	Indirect costs	2%		\$ 7,000	ARPA Recommendations
% of O&M Cost	Contractor Profit	10%		\$ 37,000	ARPA Recommendations
% of O&M Cost	Contract Administration	10%		\$ 37,000	ARPA Recommendations
				Administrative Costs = \$ 133,000	
Total Estimated Financial Assurance Amount = \$ 506,000					

Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		3 of 12
Project			Subject			
Henrietta Mine, LLC			Unit Cost Basis			

<p>The unit cost basis for the estimate is based on two key databases</p> <ul style="list-style-type: none"> • RS Means - Facilities Construction Cost Data -2019, and • Caterpillar Performance Handbook, Edition 31. <p>Equipment rental rates and operator labor rates are based on the RS-MEANS CREWS data, as referenced for each piece of equipment. The unit rates can be adjusted by the city cost index for specific locations, however, no adjustment was made since the Phoenix Area rates are close to the national average.</p>	References/Notes																																																																																																																																																						
<p>CREWS DATA</p> <p style="margin-left: 40px;">Earthmoving Equipment, cost \$/hr</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">List</th> <th style="width: 10%;">Labor (1)*</th> <th style="width: 10%;">Equipment (2)*</th> <th style="width: 10%;">Total</th> <th style="width: 30%;"></th> </tr> </thead> <tbody> <tr> <td>980G Loader</td> <td style="text-align: right;">\$54</td> <td style="text-align: right;">\$135</td> <td style="text-align: right;">\$189 \$/hr</td> <td>crew B-10U</td> </tr> <tr> <td>775D Haul Truck</td> <td style="text-align: right;">\$44</td> <td style="text-align: right;">\$369</td> <td style="text-align: right;">\$413 \$/hr</td> <td>crew B-34J</td> </tr> <tr> <td>Water Truck</td> <td style="text-align: right;">\$46</td> <td style="text-align: right;">\$60</td> <td style="text-align: right;">\$106 \$/hr</td> <td>crew B-59</td> </tr> <tr> <td>D10 Dozer</td> <td style="text-align: right;">\$54</td> <td style="text-align: right;">\$234</td> <td style="text-align: right;">\$288 \$/hr</td> <td>crew B-10M</td> </tr> <tr> <td>325 Excavator</td> <td style="text-align: right;">\$56</td> <td style="text-align: right;">\$300</td> <td style="text-align: right;">\$356 \$/hr</td> <td>crew B12-D</td> </tr> <tr> <td>16H Motor Grader</td> <td style="text-align: right;">\$54</td> <td style="text-align: right;">\$85</td> <td style="text-align: right;">\$139 \$/hr</td> <td>crew B-11L</td> </tr> <tr> <td>631E Scraper</td> <td style="text-align: right;">\$54</td> <td style="text-align: right;">\$304</td> <td style="text-align: right;">\$358 \$/hr</td> <td>crew B-33D</td> </tr> <tr> <td>80 ton Crane</td> <td style="text-align: right;">\$56</td> <td style="text-align: right;">\$281</td> <td style="text-align: right;">\$337 \$/hr</td> <td>crew A-3L</td> </tr> <tr> <td>120 ton Crane</td> <td style="text-align: right;">\$56</td> <td style="text-align: right;">\$305</td> <td style="text-align: right;">\$361 \$/hr</td> <td>crew A-3M</td> </tr> </tbody> </table> <p>LABOR DATA</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 40%;">Mechanical labor</td> <td style="width: 10%; text-align: right;">\$51</td> <td style="width: 10%; text-align: right;">\$0</td> <td style="width: 10%; text-align: right;">\$51 \$/hr</td> <td style="width: 30%;">crew A-1A</td> </tr> <tr> <td>Laborer</td> <td style="text-align: right;">\$39</td> <td style="text-align: right;">\$0</td> <td style="text-align: right;">\$39 \$/hr</td> <td>crew A-1</td> </tr> </tbody> </table> <p>MISC COST DATA</p> <table style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 40%;">Demolition/Removal - Metal Building and Foundation</td> <td style="width: 10%; text-align: right;">\$</td> <td style="width: 10%; text-align: right;">3.81</td> <td style="width: 10%; text-align: right;">\$/Sq. Ft.</td> <td style="width: 30%;">RACER (ver. 8.1.2)</td> </tr> <tr> <td>Demolition/Removal - Block Building and Foundation</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">7.61</td> <td style="text-align: right;">\$/Sq. Ft.</td> <td>RACER (ver. 8.1.2)</td> </tr> <tr> <td>Demolition/Removal - Concrete Pads/roads 12"</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">8.52</td> <td style="text-align: right;">\$/Sq. Ft.</td> <td>RACER (ver. 8.1.2)</td> </tr> <tr> <td>Demolition/Removal - Chain-Link Fencing</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">4.36</td> <td style="text-align: right;">\$/Sq. Ft.</td> <td>RACER (ver. 8.1.2)</td> </tr> <tr> <td>Removal of Single-Pole Powerline</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">12,560</td> <td style="text-align: right;">\$/Mile</td> <td>Haley & Aldrich Data</td> </tr> <tr> <td>Removal of Electrical Transformers</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">6,280</td> <td style="text-align: right;">Each</td> <td>Haley & Aldrich Data</td> </tr> <tr> <td>Construction of Chain-Link Fence</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">11.57</td> <td style="text-align: right;">\$/ft</td> <td>RACER (ver. 8.1.2)</td> </tr> <tr> <td>Installation of Access Restriction/Public Safety Signs</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">83.40</td> <td style="text-align: right;">\$/sign</td> <td>RACER (ver. 8.1.2)</td> </tr> <tr> <td>Well Removal</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">33.55</td> <td style="text-align: right;">ft depth</td> <td></td> </tr> <tr> <td>Trash Removal</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">75</td> <td style="text-align: right;">Ton</td> <td>Allied Waste Quote</td> </tr> <tr> <td>Transport and Unloading, Heavy</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">1,570</td> <td style="text-align: right;">\$/load</td> <td>Haley & Aldrich Data</td> </tr> <tr> <td>Transport and Unloading, Light</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">1,068</td> <td style="text-align: right;">\$/load</td> <td>Haley & Aldrich Data</td> </tr> <tr> <td>Broadcast Seeding</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">w/ straw mulch, fertilizer, desert scrub seed mixture</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">762</td> <td style="text-align: right;">\$/acre</td> <td>Haley & Aldrich Data</td> </tr> <tr> <td style="padding-left: 20px;">w/o mulch and fertilizer</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">377</td> <td style="text-align: right;">\$/acre</td> <td>Haley & Aldrich Data</td> </tr> <tr> <td>Hydroseed</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">w/ mulch and desert scrub type seed mixture</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">1,476</td> <td style="text-align: right;">\$/acre</td> <td>Haley & Aldrich Data</td> </tr> <tr> <td>Septic System Removal</td> <td style="text-align: right;">\$</td> <td style="text-align: right;">1,000</td> <td style="text-align: right;">\$/tank</td> <td>Haley & Aldrich Data</td> </tr> </tbody> </table>	List	Labor (1)*	Equipment (2)*	Total		980G Loader	\$54	\$135	\$189 \$/hr	crew B-10U	775D Haul Truck	\$44	\$369	\$413 \$/hr	crew B-34J	Water Truck	\$46	\$60	\$106 \$/hr	crew B-59	D10 Dozer	\$54	\$234	\$288 \$/hr	crew B-10M	325 Excavator	\$56	\$300	\$356 \$/hr	crew B12-D	16H Motor Grader	\$54	\$85	\$139 \$/hr	crew B-11L	631E Scraper	\$54	\$304	\$358 \$/hr	crew B-33D	80 ton Crane	\$56	\$281	\$337 \$/hr	crew A-3L	120 ton Crane	\$56	\$305	\$361 \$/hr	crew A-3M	Mechanical labor	\$51	\$0	\$51 \$/hr	crew A-1A	Laborer	\$39	\$0	\$39 \$/hr	crew A-1	Demolition/Removal - Metal Building and Foundation	\$	3.81	\$/Sq. Ft.	RACER (ver. 8.1.2)	Demolition/Removal - Block Building and Foundation	\$	7.61	\$/Sq. Ft.	RACER (ver. 8.1.2)	Demolition/Removal - Concrete Pads/roads 12"	\$	8.52	\$/Sq. Ft.	RACER (ver. 8.1.2)	Demolition/Removal - Chain-Link Fencing	\$	4.36	\$/Sq. Ft.	RACER (ver. 8.1.2)	Removal of Single-Pole Powerline	\$	12,560	\$/Mile	Haley & Aldrich Data	Removal of Electrical Transformers	\$	6,280	Each	Haley & Aldrich Data	Construction of Chain-Link Fence	\$	11.57	\$/ft	RACER (ver. 8.1.2)	Installation of Access Restriction/Public Safety Signs	\$	83.40	\$/sign	RACER (ver. 8.1.2)	Well Removal	\$	33.55	ft depth		Trash Removal	\$	75	Ton	Allied Waste Quote	Transport and Unloading, Heavy	\$	1,570	\$/load	Haley & Aldrich Data	Transport and Unloading, Light	\$	1,068	\$/load	Haley & Aldrich Data	Broadcast Seeding					w/ straw mulch, fertilizer, desert scrub seed mixture	\$	762	\$/acre	Haley & Aldrich Data	w/o mulch and fertilizer	\$	377	\$/acre	Haley & Aldrich Data	Hydroseed					w/ mulch and desert scrub type seed mixture	\$	1,476	\$/acre	Haley & Aldrich Data	Septic System Removal	\$	1,000	\$/tank	Haley & Aldrich Data	<p>RS Means : Facilities Construction Cost Data</p>
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<p>(1) Labor includes operating and maintenance labor (2) Equipment costs include operating, maintenance, rental costs * Labor and equipment costs are rounded to the nearest dollar</p>																																																																																																																																																							

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Henrietta Mine, LLC**

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		4 of 12
Project			Subject			
Henrietta Mine, LLC			Dozing Cost			

	References/Notes																		
D10 Re-grading from 1.5H:1V slope to 3H:1V slope																			
<u>D10 Dozing Productivity</u>																			
Push Factors	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Optimum Production (CY/Hr)</td> <td style="width: 20%; text-align: right;">950</td> <td style="width: 40%;"></td> </tr> <tr> <td>Operator experience</td> <td style="text-align: right;">0.875</td> <td>(1) pg. 1-43 (200 Foot Push)</td> </tr> <tr> <td>Type of material</td> <td style="text-align: right;">0.8</td> <td>(1) pg. 1-45</td> </tr> <tr> <td>Grade of Push</td> <td style="text-align: right;">1.6</td> <td>(1) pg. 1-45</td> </tr> <tr> <td>Weight Correction</td> <td style="text-align: right;">0.71</td> <td>(1) pg. 1-41 Material Weight = 1.62 T/CY</td> </tr> <tr> <td>Work Factor</td> <td style="text-align: right;">50 minutes/hour</td> <td>(1) pg. 1-45</td> </tr> </table>	Optimum Production (CY/Hr)	950		Operator experience	0.875	(1) pg. 1-43 (200 Foot Push)	Type of material	0.8	(1) pg. 1-45	Grade of Push	1.6	(1) pg. 1-45	Weight Correction	0.71	(1) pg. 1-41 Material Weight = 1.62 T/CY	Work Factor	50 minutes/hour	(1) pg. 1-45
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Weight Correction	0.71	(1) pg. 1-41 Material Weight = 1.62 T/CY																	
Work Factor	50 minutes/hour	(1) pg. 1-45																	
	Average Production (CY/Hr) 629																		
	Average Daily Production (CY) 5,036																		
	(8-hour work day)																		
<u>D10 Dozer Cost</u>																			
	Dozer Rental (Monthly) \$ 20,500																		
	Ownership Cost (Daily) \$ 932																		
	Dozer Operating Cost (Hourly) \$ 125																		
	Operating Cost(Daily) \$ 1,000																		
	Dozer Labor Cost (Hourly) \$ 54																		
	Labor Cost (Daily) \$ <u>432</u>																		
	Dozer Total Cost (Daily) \$ 2,364																		
	Cost per CY \$ 0.47																		
<p>(1) Caterpillar Performance Handbook, Edition 31 (2) RS Means 2019</p>																			

Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		5 of 12
Project			Subject			
Henrietta Mine, LLC			Scarifying Cost			

	References/Notes
Scarifying - Motor Grader	
16H Grader Productivity	
Ripper beam (Ft.)	9.75
Max first gear with std tires (mph)	2.4
Feet per mile	5,280
Half Speed in Ft./Hr.	6,336
Double-pass factor	0.5
Effective speed in Ft./Hr.	3,168
Optimum area/hour (Sq. Ft./Hr.)	30,888
50 minute hour	0.83
Average area/hour (Ft. ² /Hr.)	25,637
Average area Daily (Sq. Ft.)	205,096
Work Factor	(1) pg. 3-15
	(8-hour work day)
Grader Cost (40,000 lb)	
Grader Rental (Monthly)	\$ 11,000
Ownership Cost (Daily)	\$ 500
Grader Operating Cost (Hourly)	\$ 64
Operating Cost(Daily)	\$ 512
Grader Labor Cost (Hourly)	\$ 54
Labor Cost (Daily)	\$ 432
Grader Total Cost (Daily)	\$ 1,444
Cost per Sq. Ft.	\$ 0.0070
Cost per Linear Ft. of Road	\$ 0.28
	(40-foot-wide road)
(1) Caterpillar Performance Handbook, Edition 31 (2) RS Means 2019	

Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		6 of 12
Project			Subject			
Henrietta Mine, LLC			Excavator Costing			

	References/Notes
325 Excavator Productivity	
Factors	
Heaped bucket capacity (Cu. Yd.)	1.5
Optimum Cycles/Hr.	180
Bucket Fill factor	1.0
50 minutes/Hr.	0.83
Average Hourly Production (Cu. Yd.)	224
Average Daily Production (Cu. Yd.)	1,793
325 Excavator Cost	
Excavator Rental (Monthly)	\$ 6,725
Ownership Cost (Daily)	\$ 306
Excavator Operating Cost (Hourly)	\$ 29
Operating Cost (Daily)	\$ 232
Excavator Labor Cost (Hourly)	\$ 35
Labor Cost (Daily)	\$ 280
Excavator Total Cost (Daily)	\$ 818
Cost per Cu. Yd.	\$ 0.46
	<p>(1) pg. 5-117 Bucket size selected for the</p> <p>(1) pg. 5-1555 325 Excavator = 1.5 CY</p> <p>(1) pg. 5-126</p> <p>Material Weight = 1.62T/CY</p> <p style="text-align: center;">(8-hour work day)</p> <p>(2) 01590 200 0200 pg. 20</p> <p style="text-align: center;">(22 working days/month)</p> <p>(2) 01590 200 0200 pg. 20</p> <p style="text-align: center;">(8-hour work day)</p> <p>(2) crew B12-D, pg. 1099</p> <p style="text-align: center;">(8-hour work day)</p>
<p>(1) Caterpillar Performance Handbook, Edition 31</p> <p>(2) RS Means 2019</p>	

Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		7 of 12
Project			Subject			
Henrietta Mine, LLC			Scraper Costing			

	References/Notes
631E Scraper	
Scraper capacity (heaped)	31 Cu. Yd.
Rated load	37.5 ton
	Yd. (1) pg. 9-5
Scraper Productivity	
Bank Cu. Yd./Hr, 4% RR, 1000 ft haul	540
Material correction	0.93
50 minute hour	0.83
Actual bank Cu. Yd. per hour	415
	(1) pg. 9-67 Material Weight = 1.62 T/Cu. Yd.
631 Scraper Cost	
Scraper Rental (Monthly)	\$ 14,900
Ownership Cost (Daily)	\$ 677
	(2) 01590 200 3700 pg. 21 (22 working days/month)
Scraper Operating Cost (Hourly)	\$ 75
Operating Cost(Daily)	\$ 600
	(2) 01590 200 3700 pg. 21 (8-hour work day)
Scraper Labor Cost (Hourly)	\$ 34
Labor Cost (Daily)	\$ 272
	(2) crew B-33D, pg. 1099 (8-hour work day)
Scraper Total Cost (Daily)	<u>\$ 1,549</u>
D9 Dozer Cost	
D9 Rental (Monthly)	\$ 14,300
Ownership Cost (Daily)	\$ 650
	(2) 01590-200 4370, pg. 21 (22 working days/month)
D9 Operating Cost (Hourly)	\$ 65
Operating Cost(Daily)	\$ 520
	(2) 01590-200 4370, pg. 21 (8-hour work day)
D9 Labor Cost (Hourly)	\$ 34
Labor Cost (Daily)	\$ 272
	(2) crew B-10M, pg. 1099 (8-hour work day)
D9 Total Cost (Daily)	<u>\$ 1,442</u>
Total Fleet	
Total Fleet Cost (Daily)	\$ 4,541
Total Fleet Productivity (BCY/Hr)	830
Total Fleet Productivity (BCY/Day)	6,640
Cost per Cu. Yd. Moved	\$ 0.68
	(1 - D9, 2 - 631)
Cubic yards in 1 linear foot of 40 ft wide road, 1 foot thick (Cu. Yd.)	1.48
Cost of placing 1 linear foot (40 foot wide road)	\$ 1.01

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Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		8 of 12
Project			Subject			
Henrietta Mine, LLC			Truck haul (1 of 2)			

	References/Notes																																																
980G Loader Productivity																																																	
Cycle Time Factors	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Basic Cycle Time (minutes)</td> <td style="width: 10%; text-align: right;">0.55</td> <td style="width: 50%;"></td> </tr> <tr> <td>Material type (minutes)</td> <td style="text-align: right;">0.02</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Type of Pile (minutes)</td> <td style="text-align: right;">0.02</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Common ownership trucks/loaders</td> <td style="text-align: right;">0</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Constant operation</td> <td style="text-align: right;">0</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Small target (minutes)</td> <td style="text-align: right;">0.025</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Fragile target</td> <td style="text-align: right;">0</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Total Cycle Time (minutes)</td> <td style="text-align: right;">0.615</td> <td></td> </tr> <tr> <td>Optimum Cycles/Hr.</td> <td style="text-align: right;">98</td> <td></td> </tr> <tr> <td>Work Factor</td> <td></td> <td></td> </tr> <tr> <td>50 minutes/Hr.</td> <td style="text-align: right;">0.83</td> <td>(1) pg. 13-47</td> </tr> <tr> <td>Average Cycles/Hr.</td> <td style="text-align: right;">81</td> <td></td> </tr> <tr> <td>Bucket Full Load (Cubic Yards)</td> <td style="text-align: right;">7.5</td> <td>(1) pg. 13-29</td> </tr> <tr> <td>Bucket Fill Factor</td> <td style="text-align: right;">0.9</td> <td>(1) pg. 13-46</td> </tr> <tr> <td>Average Bucket Load (Cubic Yards)</td> <td style="text-align: right;">6.75</td> <td></td> </tr> <tr> <td>Average Volume Loaded/Hr</td> <td style="text-align: right;">547</td> <td></td> </tr> </table>	Basic Cycle Time (minutes)	0.55		Material type (minutes)	0.02	(1) pg. 13-46	Type of Pile (minutes)	0.02	(1) pg. 13-46	Common ownership trucks/loaders	0	(1) pg. 13-46	Constant operation	0	(1) pg. 13-46	Small target (minutes)	0.025	(1) pg. 13-46	Fragile target	0	(1) pg. 13-46	Total Cycle Time (minutes)	0.615		Optimum Cycles/Hr.	98		Work Factor			50 minutes/Hr.	0.83	(1) pg. 13-47	Average Cycles/Hr.	81		Bucket Full Load (Cubic Yards)	7.5	(1) pg. 13-29	Bucket Fill Factor	0.9	(1) pg. 13-46	Average Bucket Load (Cubic Yards)	6.75		Average Volume Loaded/Hr	547	
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Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		9 of 12
Project			Subject			
Henrietta Mine, LLC			Truck Haulage (2 of 2)			

			References/Notes
775D Truck Cost			
<u>Truck Rental (Monthly)</u>	\$	12,800	(1) 01590 200 5620 p22
Ownership Cost (Daily)		\$ 582	(22 working days/month)
Truck Operating Cost (Hourly)	\$	57	(1) 01590 200 5620 p22
Operating Cost(Daily)		\$ 456	(8-hour work day)
Truck Labor Cost (Hourly)	\$	26	(1) crew B-34A, pg. 1104
Labor Cost (Daily)		<u>\$ 208</u>	(8-hour work day)
Truck Total Cost (Daily)		\$ 1,246	
Trucks (2T total Cost (Daily)		\$ 2,492	
Loader Total Cost (Daily)		<u>\$ 1,259</u>	
Fleet Total Total Cost (Daily)		<u>\$ 3,750</u>	
Total Fleet Productivity (Cu. Yd. per Day)		3,821	(8-hour work day)
Fleet Cost per Cu. Yd.	\$	0.98	

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**Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC**

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		10 of 12
Project			Subject			
Henrietta Mine, LLC			Crane Costing			

	References/Notes
Rubber Tired Hydraulic Crane - 80 -on Capacity	
80-Ton Crane Cost	
Crane Rental (Monthly) \$ 8,825	(2) 01590 500 2700 pg. 27 (22 working days/month)
Ownership Cost (Daily) \$ 401	
Crane Operating Cost (Hourly) \$ 54	(2) 01590 500 2700 pg. 27 (8-hour work day)
Operating Cost(Daily) \$ 432	
Crane Labor Cost (Hourly) \$ 35	(2) crew B-95A, pg. 1100 (8-hour work day)
Labor Cost (Daily) \$ <u>280</u>	
Crane Total Cost (Daily) \$ 1,113	(8-hour work day)
Crane Total Cost (Hourly) \$ 139	
Rubber Tired Hydraulic Crane - 120-Ton Capacity	
120-Ton Crane Cost	
Crane Rental (Monthly) \$ 25,400	(2) 01590 500 2740 pg. 27 (22 working days/month)
Ownership Cost (Daily) \$ 1,155	
Crane Operating Cost (Hourly) \$ 83	(2) 01590 500 2740 pg. 27 (8-hour work day)
Operating Cost(Daily) \$ 664	
Crane Labor Cost (Hourly) \$ 35	(2) crew B-95A, pg. 1100 (8-hour work day)
Labor Cost (Daily) \$ <u>280</u>	
Crane Total Cost (Daily) \$ 2,099	(8-hour work day)
Crane Total Cost (Hourly) \$ 262	
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**Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC**

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		11 of 12
Project			Subject			
Henrietta Mine, LLC			Rip Rap Erosion Control			

	References/Notes																		
Material Cost, Hauling, and Placing Erosion Control Structures - Rip Rap																			
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Description</th> <th style="text-align: center; border-bottom: 1px solid black;">Units</th> <th style="text-align: center; border-bottom: 1px solid black;">Total Cost</th> </tr> </thead> <tbody> <tr> <td colspan="3">18" Minimum thickness, not grouted</td> </tr> <tr> <td style="padding-left: 20px;">Material (sq. yd.)</td> <td style="text-align: center;">1</td> <td style="text-align: right;">\$ 19</td> </tr> <tr> <td style="padding-left: 20px;">Labor (per unit)</td> <td style="text-align: center;">1</td> <td style="text-align: right;">\$ 46</td> </tr> <tr> <td style="padding-left: 20px;">Equipment (per unit)</td> <td style="text-align: center;">1</td> <td style="text-align: right;">\$ 13</td> </tr> <tr> <td colspan="2">Estimated Cost per Square Yard for Rip Rap Material and Install =</td> <td style="text-align: right;">\$ 77.00</td> </tr> </tbody> </table>	Description	Units	Total Cost	18" Minimum thickness, not grouted			Material (sq. yd.)	1	\$ 19	Labor (per unit)	1	\$ 46	Equipment (per unit)	1	\$ 13	Estimated Cost per Square Yard for Rip Rap Material and Install =		\$ 77.00	(2) Line # 313713100200 (2) Line # 313713100200 (2) Line # 313713100200
Description	Units	Total Cost																	
18" Minimum thickness, not grouted																			
Material (sq. yd.)	1	\$ 19																	
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Estimated Cost per Square Yard for Rip Rap Material and Install =		\$ 77.00																	

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**Appendix A
Reclamation Cost Estimate
Henrietta Mine, LLC**

Date Checked	Checked By	Job Number	By	Date	Calc. No.	Sheet No.
11/3/2022	EJM	133968	RAB	11/1/2022		12 of 12
Project			Subject			
Henrietta Mine, LLC			Plant Removal			

Removal of Crushing/Screening plants	References/Notes
<p>See Appendix B for Third-Party Cost Estimate for Removal of Plant Equipment</p>	

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APPENDIX B
Plant Equipment Removal Third-Party Quotes



3816 W. Lower Buckeye, P.O. Box 19010
Phoenix, Arizona 85005-9010

(602) 269-1050
1-800-223-1907
FAX (602) 233-9081

July 09, 2020

Henrietta Mine

Re: Plant Teardown

Attention: Troy and Lane Spencer

Gentlemen,

We have put together an estimate of the tear down and removal from mine site of the following items:
Jaw plant, cone plant, 8' x 20' screen structure, all conveyors, bins, generators, conex box, office trailers
and other crushing equipment. The cost for this is \$245,000.00

Price includes, trucking, labor, crane, and forklifts/man-baskets and all other expenses.

Prices are subject to change without notice at time of actual scope of work to be performed.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'Bradley P. Cable', written in a cursive style.

Bradley P. Cable

Sales Vice President