DEMING MILL & MILL TAILINGS DEMING, NEW MEXICO

Mining and Minerals Division Permit No. LU009RE

Test Pitting Results 6/01/2022

Locations, Procedures, Data Management and Results

Prepared For:

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TABLE OF CONTENTS

Section			Page
1.0	INTRO	DUCTION	. 3
2.0	SUMMA	ARY OF FINDINGS	5
3.0	PROCE	EDURES	7
4.0	RESUL 4.1 4.2 4.3 4 4	TS BY AREA OF CONCERN North of Mimbres River Riverbank Middle Flat North of Cypress Tailings	11 11 14 16 20

LIST OF ATTACHMENTS

Attachment 1	Pit logs and photographs - Area North of River (N RIV BK)	23
Attachment 2	Pit logs and photographs - Riverbank Area along the Mimbres River (RIV BK)	32
Attachment 3	Pit logs and photographs - Mid Flat Area (MID FLAT)	35
Attachment 4	Pit logs and photographs – Area north of the Cypress Tailings (CYP N)	49
Attachment 5	pH Test logs for all samples	53

1.0 INTRODUCTION

The MMD-approved closeout plan for the Deming Mill and Mill Tailings identified four areas of concern related to exposed tailings on the east side of Peru Mill Road within the permit area. The closeout plan calls for test pitting within these areas to secure information necessary to develop a reclamation plan.



AREAS OF CONCERN

Reclamation will require the covering of exposed tailings on the north slope of the Cypress Tailings. In addition, exposed tailings in an area north of the Cypress Tailing and south of the Mimbres River and in an area north of the Mimbres River will need to be either removed or covered. Also, a portion of the north bank of the Mimbres River will require removal of exposed tailings and/or covering, stabilization and protection. Test pitting with a backhoe and hand tools will clarify the best options related to covering in place and/or partial removal and consolidation of tailing material.

On October 4, 2021, representatives of Geo Southwest, LP (Geo) met with representatives of MMD, NM Environment Department and the NM Surface Water Quality Bureau at Deming. Twenty locations for test pitting were selected and marked. Geo has since engaged the services of Gene Rosenlund of Integrated Geological Services, LLC to assist with the preparation of this plan and with the collection and analysis of the test pitting data.

Nine additional test pitting sites have been selected including 1) one on the Riverbank in an area disturbed by ATV and 4-wheeler traffic, 2) five in the Middle Flat area to determine the depth of the observed tailing and 3) three north of the Cypress Tailings to help determine the boundary of the area to be covered.

During the excavation, it was determined that 4 of the pits originally planned were not necessary. (GEOSW10, GEOSW20, GEOSW21, and GEOSW25). Consultation with onsite representatives of MMD, MN Environmental Department and the NM Surface Water quality Bureau at Deming confirmed that in fact these pits are not needed, and authorization was given to remove them from the study.

2.0 SUMMARY

As a result of this study ample data is now available to assess the requirements for the reclamation of the four areas of concern. Each has unique characteristics. Here is what we have learned from each of the areas of concern.



North of River

The tailings found north of the Mimbres River are typically well sorted dark yellowish orange/brown weakly cemented gypsum bearing fine sand. Some areas show evidence of remobilized tailings mixed with sand and gravel. pH values range from 2.94 to 5.44 with a median value of 3.52 and average of 3.64 with a median thickness of 6 inches and average of 5.57 inches. Tailings are erratic with little lateral continuity and in places are covered with a thin veneer of natural sediments (slope wash or aeolian sand). Tailings are estimated to be present in 1.16 acres at this site.

Riverbank

Limited testing in this area immediately adjacent to the river channel (2 pits) revealed only one site where the tailings are present. Here 15 inches of weakly cemented interbedded fine grained sand tailings mixed with medium to coarse alluvial sand was encounter at the surface, in the bank but not in the river channel. There is little evidence to indicate that the tailings are being transported downstream in the river channel but rather are related to slope wash. It is estimated that only 1,837 square feet of this material is present here.

Middle Flat

Only three pits in this area intersected tailings. The most notable occurrence was in pit GEOSW3 where very well cemented tailings prevented excavation beyond 19 inches. The tailings consisted of 10 inches of well cemented sandstone comprised of tailings overlain by 5 inches of Interbedded loosely cemented light gray and black medium grained sand with root fragments. Further study revealed that the cementing agent here is gypsum. In an adjacent pit, GEOSW5, the tailings covered soil containing root material. Leaching from the tailings above was sufficient to produce 4 inches of soil with a pH of 3.78. This area is estimated to contain 0.98 acres of tailings.

North Slope Cypress Tailings

The goal of pitting in this area was define the northern extension of tailing which have eroded from the Cypress tailings to the south. Three pits established a northern limit by encountering only natural sediments. One pit, GEOSW27, did encounter a sandy soil with abundant roots containing occasional reddish sandy clusters suggesting that trace amounts of limited tailings may be present. The pH was measured at 5.11. It is estimated that 4.53 acres of tailing may be associated with this area.

3.0 PROCEEDURES

The following recommended procedures were used for pit excavation and description.

- Prior to excavation, the pit sites were located and marked by a representative of Geo Southwest, LP using a hand-held GPS unit and the coordinates provided in this plan.
- 2. Geo Southwest, LP obtained a local subcontractor who provided a backhoe and operator.
- 3. The pits were excavated to dimensions of at least 3 feet deep, 6 feet long and 4 feet wide.
- 4. During excavation, the material was segregated by bucketful by in order of extraction and placed adjacent to the pit on soil.
- 5. One of the pit walls was dug vertical so that the relationship of the materials deposited there were exposed.
- 6. Gene Rosenlund, Geologist of Integrated Geologic Services, LLC was contracted and provided an in-field description and capture a record of lithologies encountered and thickness of each. Detailed logs and photographs of each pit may be found in Attachments 1 thru 4. Criterial items used to identify the tailings were included:
 - a. **Grainsize** (fine sand 0.06 mm 0.2 mm), (Optimum grain size for base and precious metal extraction via flotation is 0.63 mm 0.125 mm.
 - b. Color. Other associates have suggested that due to the high concentration

of iron and the observed colors of orange, yellow and red in association with tailings at Deming, color may be useful in tailing identification. The Munsell Color System was applied to the color descriptions to standardize color observations.

- c. Homogeneity. Tailings were expected to be fine sand with no significant grain size variation. Natural soil will reflect the sorting and varied grain size distribution expected within the fluvial depositional environment of the of the alluvial deposits underlying the areas of interest. Particular attention was applied to identify areas where mixing of soil and tailings has occurred.
- d. Paste pH. Paste pH is a field screening technique already shown to be useful with the Deming tailings. This method has been suggested by state environmental agencies and was used as an onsite objective test of materials encountered. Paste pH was measured at least once for each test pit, and sometimes at multiple depths within different layers depending on the conditions encountered. The pH testing process was as follows:
 - i. Equal amounts, by weight (150 grams), of soil and distilled, deionized water was placed in a 250 ml reagent bottle.



- ii. The bottle was capped and shake vigorously a few times.
- iii. The mixture was left to stand for 1 minute or more to dissolve the salts in the soil.
- iv. The cap was removed the pH meter electrode place into the wet soil slurry.



- v. The pH was measured and recorded.
- vi. The bottle was recapped and saved for a second pH test after several days if needed.
- vii. The pH meter Was calibrated at the beginning of the day before the 1st test, at noon, and midway through the afternoon with pH 4, 7 and 10 buffer solutions.
- viii. Detailed Ph test logs are available in Attachment 5.
- 7. Photographs were taken at each pit. A vertical placard showing feet and inches was be placed against the vertical pit wall as photographs were taken which record

the thickness of visually different layers. Photographs of each pit may be found in Attachments 1 thru 4.

- 8. Pits were refilled. Upon completion of the description and sampling of the excavated material it was returned to the pit in reverse order of removal.
- 9. Pit markers were repositioned at the pre-pit location.
- 10. Even though the work plan did not require a formal health and safety plan (HASP), some of the elements of a HASP were followed for successful, safe fieldwork. Safety throughout the project. Appropriate personal protective equipment such as reflective vests were worn and communication between the backhoe operator, geologist, inspectors and other people on site during backhoe operation were maintained.

4.0 RESULTS BY AREA OF CONCERN

The results or each area of concern are presented hereafter in detail.

4.1 North of Mimbres River



Corner locations for Area North of River (N RIV BK)

	Degrees, Minutes, Seconds			Degrees	Universal Transv	verse Mercator	
Title	Latitude DMS	Longitude DMS	Latitude DD	Longitude DD	Northing	Easting	Description
North of River 1	32°17'24.21"N	107°47'16.67"W	32.290059	-107.787964	3576001.23	237449.50	Poly Area of Concern
North of River 2	32°17'24.34"N	107°47'13.09"W	32.290094	-107.786969	3576002.80	237543.28	Poly Area of Concern
North of River 3	32°17'23.42"N	107°47'9.52"W	32.289838	-107.785977	3575972.03	237635.96	Poly Area of Concern
North of River 4	32°17'20.29"N	107°47'3.94"W	32.288971	-107.784429	3575871.81	237779.48	Poly Area of Concern
North of River 5	32°17'19.59"N	107°47'4.51"W	32.288775	-107.784585	3575850.63	237764.00	Poly Area of Concern
North of River 6	32°17'22.60"N	107°47'8.75"W	32.289611	-107.785764	3575946.24	237655.46	Poly Area of Concern
North of River 7	32°17'23.27"N	107°47'10.62"W	32.289796	-107.786283	3575968.15	237607.06	Poly Area of Concern
North of River 8	32°17'23.73"N	107°47'13.71"W	32.289926	-107.787142	3575984.43	237526.57	Poly Area of Concern
North of River 9	32°17'23.61"N	107°47'16.54"W	32.289893	-107.787928	3575982.66	237452.42	Poly Area of Concern



Test Pit locations for the Area north of the Mimbres River (N RIV BK).

	Degrees, Min	utes, Seconds	Decimal	Degrees	Universal Trans	verse Mercator	
Title	Latitude DMS	Longitude DMS	Latitude DD	Longitude DD	Northing	Easting	Description
GeoSW 11	32°17'23.55"N	107°47'11.57"W	32.289874	-107.786548	3575977.32	237582.32	Test Pit
GeoSW 12	32°17'23.37"N	107°47'10.69"W	32.289826	-107.786302	3575971.41	237605.34	Test Pit
GeoSW 13	32°17'23.23"N	107°47'10.16"W	32.289786	-107.786156	3575966.55	237619.06	Test Pit
GeoSW 14	32°17'23.02"N	107°47'9.62"W	32.289729	-107.786006	3575959.88	237633.03	Test Pit
GeoSW 15	32°17'22.76"N	107°47'8.86"W	32.289656	-107.785794	3575951.26	237652.71	Test Pit
GeoSW 16	32°17'22.43"N	107°47'8.04"W	32.289563	-107.785568	3575940.45	237673.79	Test Pit
GeoSW 17	32°17'22.96"N	107°47'10.84"W	32.289710	-107.786346	3575958.61	237600.94	Test Pit
GeoSW 18	32°17'20.81"N	107°47'5.17"W	32.289115	-107.784769	3575888.79	237747.75	Test Pit
GeoSW 19	32°17'21.10"N	107°47'7.21"W	32.289195	-107.785337	3575899.04	237694.48	Test Pit
GeoSW 20	32°17'21.71"N	107°47'6.72"W	32.289363	-107.785200	3575917.33	237707.91	Test Pit





Pit not excavated

Pit with no tailings present

Pit with tailings present

Estimated area with tailings present (1.16 Acres)

Study	Sample No.	Material	Ph	Interval	Munsell Rock Color	Sorting	Grain Size	Description
Area		Classification		Sampled				
				(Inches)				
N RIV BK	GEOSW11-2	Tailings	3.51	9 - 21	Dark yellowish orange	Poorly sorted	coarse to fine sand 70%	Composite of tailings and sandy gravel
					10YR 6/6		medium gravel 20+%	indicating a mixture of tailings and
								natural sediments. No gypsum
N RIV BK	GEOSW11-3	Natural	6.15	21 - 36	Pale yellowish brown	Very well	Silt	Very well sorted, dense silt
		Sediments			10YR 6/2	sorted		
N RIV BK	GEOSW12-1	Tailings	5.44	0 - 6	Dark yellowish orange	Well Sorted	Fine sand	Weakly cemented fine grained sand
				<u> </u>	10YR 6/6			tailings. Minor gypsum
N RIV BK	GEOSW13-1	Tailings	4.02	0 - 8	Dark yellowish orange	Well Sorted	Fine sand	Tailings, moderately cemented fine
					10YR 6/6			grained sand. Cementing agent is gypsum
N RIV BK	GEOSW14-1	Tailings	3.52		Dark yellowish orange	Well sorted	Fine sand	Tailings, moderately cemented fine
					10YR 6/6			grained sand with gypsun micro clusters.
								(0.5mm)
N RIV BK	GEOSW15-1	Tailings	3.55	3 - 5	Dark yellowish orange	Well sorted	Fine sand	Tailings, Very fine sand with occasional
					10yr 6/2			gravel. No gypsum
N RIV BK	GEOSW16-1	Tailings	3.09	3 - 6	Dark yellowish brown	Well sorted	Fine sand	Tailings, fine sand, no gypsum
					1-YR 6/6			
N RIV BK	GEOSW16-2	Natural	6.48	6 - 36	Pale yellowish brown	Moderately	Fine sand 50% silt 50%	Silty sand, massive, weakly bedded with
		Sediments			10yr 6/2	sorted		less than 5% fine gravel
N RIV BK	GEOSW18-1	Tailings	2.95	0 - 5	Dark yellowish orange	Well Sorted	Fine sand	Tailings, fine sand, weakly cemented, no
					10yr 6/2			gypsum.
N RIV BK	GEOSW19-1	Tailings	2.94	0 - 5	Dark yellowish orange	Moderately	Fine sand	Tailings, fine sand, weakly cemented,
					10vr 6/6	sorted		w/gypsum. (1 mm sand gypsum clusters)

Test Pit Results for the Area north of the Mimbres River (N RIV BK).

4.2 Riverbank



Corner Locations for Riverbank Area (RIV BK)

	Degrees, Minutes, Seconds Decimal Degrees Universal Transverse Mercato				verse Mercator		
Title	Latitude DMS	Longitude DMS	Latitude DD	Longitude DD	Northing	Easting	Description
River Bank 1	32°17'23.46"N	107°47'12.99"W	32.289849	-107.786942	3575975.62	237545.19	Poly Area of Concern
River Bank 2	32°17'23.33"N	107°47'11.76"W	32.289814	-107.786601	3575970.78	237577.28	Poly Area of Concern
River Bank 3	32°17'23.13"N	107°47'10.68"W	32.289759	-107.786299	3575963.88	237605.38	Poly Area of Concern
River Bank 4	32°17'23.12"N	107°47'10.58"W	32.289755	-107.786271	3575963.51	237607.99	Poly Area of Concern
River Bank 5	32°17'22.87"N	107°47'10.60"W	32.289687	-107.786279	3575955.82	237607.26	Poly Area of Concern
River Bank 6	32°17'23.01"N	107°47'11.09"W	32.289724	-107.786415	3575960.46	237594.55	Poly Area of Concern
River Bank 7	32°17'23.08"N	107°47'11.70"W	32.289745	-107.786584	3575963.03	237578.65	Poly Area of Concern
River Bank 8	32°17'23.14"N	107°47'11.99"W	32.289759	-107.786665	3575965.08	237571.11	Poly Area of Concern
River Bank 9	32°17'23.18"N	107°47'12.93"W	32.289773	-107.786924	3575966.95	237546.54	Poly Area of Concern



Test Pit locations for Riverbank Area along the Mimbres River (RIV BK).





Pit with no tailings present

Pit with tailings present

Estimated area with tailings present (1,837 square feet)

Study	Sample No.	Material	Ph	Interval	Munsell Rock Color	Sorting	Grain Size	Description
Area		Classification		Sampled				
				(Inches)				
RIV BK	GEOSW17-1	Tailings	4.80	0 - 11	Dark yellowish orange	Well sorted	Medium to fine sand	Weakly cemented, Interbedded fine
					10YR 6/6			grained tailings and medium to coarse
								alluvial sand. Micro Sand/gypsum clusters
RIV BK	GEOSW17-2	Tailings	3.24	11 - 15	Pale brown 5YR 5/2	Well sorted	Fine Sand	Tailings, weakly cemented fine sand, with
								gypsum.
RIV BK	GEOSW17-3	Natural	6.78	16 - 60	Pale yellowish brown	Well sorted	Silt	Massive well compacted silty sand with no
		Sediments			10YR 6/2			pebbles or gravel.
RIV BK	GEOSW29-1	Natural	6.49	0 - 8	Pale yellowish brown	Poorly sorted	Medium sand & Medium	Bedded sand and gravel. (slope wash)
		Sediments			10YR 6/2		gravel	
RIV BK	GEOSW29-2	Natural	6.93	8 - 6 1	Yellowish gray 5Y 7/2	Moderately	Fine sand 60% silt 40%	Silty sand, massive, weakly bedded with
		Sediments				sorted		less than 5% fine gravel

Test Pit Results for Riverbank Area along the Mimbres River (RIV BK).

4.3 Middle Flat



Corner Locations for Mid Flat Area (MID FLAT)

	Degrees, Min	utes, Seconds	Decimal I	Degrees	Universal Transv	verse Mercator	
Title	Latitude DMS	Longitude DMS	Latitude DD	Longitude DD	Northing	Easting	Description
Flat Area Between CY&RV 1	32°17'14.60"N	107°47'13.45"W	32.287389	-107.787071	3575702.98	237526.06	Poly Area of Concern
Flat Area Between CY&RV 2	32°17'14.60"N	107°47'10.94"W	32.287388	-107.786372	3575701.28	237591.74	Poly Area of Concern
Flat Area Between CY&RV 3	32°17'9.57"N	107°47'11.14"W	32.285991	-107.786428	3575546.45	237582.48	Poly Area of Concern
Flat Area Between CY&RV 4	32°17'9.78"N	107°47'13.72"W	32.286051	-107.787145	3575554.68	237515.13	Poly Area of Concern



Proposed Test Pit Locations for the Mid Flat Area (MID FLAT)

	Degrees, Min	utes, Seconds	Decimal	Degrees	Universal Transv	verse Mercator	
Title	Latitude DMS	Longitude DMS	Latitude DD	Longitude DD	Northing	Easting	Description
GeoSW 1	32°17'13.49"N	107°47'13.95"W	32.287080	-107.787208	3575669.11	237512.13	Test Pit
GeoSW 2	32°17'13.29"N	107°47'13.21"W	32.287026	-107.787003	3575662.57	237531.31	Test Pit
GeoSW 3	32°17'13.11"N	107°47'12.06"W	32.286975	-107.786684	3575656.10	237561.15	Test Pit
GeoSW 4	32°17'12.95"N	107°47'10.86"W	32.286931	-107.786349	3575650.46	237592.57	Test Pit
GeoSW 5	32°17'12.92"N	107°47'9.56"W	32.286923	-107.785988	3575648.69	237626.58	Test Pit
GeoSW 6	32°17'12.86"N	107°47'8.82"W	32.286905	-107.785783	3575646.21	237645.87	Test Pit
GeoSW 7	32°17'11.65"N	107°47'9.93"W	32.286570	-107.786092	3575609.75	237615.75	Test Pit
GeoSW 8	32°17'12.16"N	107°47'9.77"W	32.286710	-107.786047	3575625.21	237620.40	Test Pit
GeoSW 9	32°17'13.62"N	107°47'9.08"W	32.287118	-107.785856	3575669.97	237639.59	Test Pit
GeoSW 10	32°17'14.29"N	107°47'8.73"W	32.287303	-107.785759	3575690.25	237649.29	Test Pit
GeoSW 21	32°17'14.74"N	107°47'11.90"W	32.287429	-107.786639	3575706.24	237566.73	Additional Test Pit
GeoSW 22	32°17'13.93"N	107°47'12.14"W	32.287202	-107.786705	3575681.45	237559.80	Additional Test Pit
GeoSW 23	32°17'12.25"N	107°47'12.58"W	32.286737	-107.786828	3575630.00	237546.94	Additional Test Pit
GeoSW 24	32°17'11.21"N	107°47'12.88"W	32.286448	-107.786912	3575598.16	237538.26	Additional Test Pit
GeoSW 25	32°17'10.31"N	107°47'13.13"W	32.286198	-107.786981	3575570.61	237531.00	Additional Test Pit



Test Pit Results for the Mid Flat Area (MID FLAT)



Pit not excavated

Pit with no tailings present

Pit with tailings present

Tailings exposed at surface

Estimated area with tailings present (0.98 Acres)

Study Area Sample K. Metrial (Inclusion) Pro- Inclusion Garing Column Sample K. Garing Column Sample K. Description Description Mid Flat GEOSW1-1. Natural Sediments 6.23 06 Yellowich Gray SY 7/2 Well Sorted Fine Sand Fine gravine Manual SW, Inclusion Fine Sand Fine gravine Manual SW, Inclusion Fine Grained and SW, Inclusion Fine Grained and SW, Inclusion Fine Sand Mole Fine Sand									
Mid Flat GEOSW2-1. Natural Sediments 6.23 6.25 0 - 6 Yellowish Gray SY 7/2 Well Sorted Fine Sand Fine Sand Fine Grained and yeal with yellowish composition of the pable issel ments Mid Flat GEOSW2-1 Natural Sediments 7.21 0.5 Grayish Blue SPE 9/2 Poorly Sorted Fine Grained and with composition of the pable issel Linny concretion. Grass roots in sp1 inch Mid Flat GEOSW2-2 Satural Sediments 6.88 M Pale yellowish brown 10/R 6/2 Mid Flat GEOSW3-1 Satural Sediments 7.83 0.4 Moderate orange pink Pale Poorly Sorted Fine sand Fine sand Locarly cemented fine and with root ingeness. Mid Flat GEOSW3-2 Tailings 3.85 4 - 9 N.1 Black and N7 light Pare Well Sorted Fine sand Locarly cemented light rov fragments. Mid Flat GEOSW3-3 Tailings 3.85 4 - 9 N.1 Black and N7 light Pare Well Sorted Fine sand Locarly cemented light rov fragments. Mid Flat GEOSW3-3 Tailings 3.85 4 - 9 N.1 Black and N7 light Pare Very Well Fine sand Mid Flat Medicare orang Very Well Medicare orang Very Wery Well Medicare orang Very	Study Area	Sample No.	Material Classification	Ph	Interval Sampled (Inches)	Munsell Rock Color	Sorting	Grain Size	Description
Sediments Sediments <t< td=""><td>Mid Flat</td><td>GEOSW1-1</td><td>Natural</td><td>6.25</td><td>0-6</td><td>Yellowish Gray 5Y 7/2</td><td>Well Sorted</td><td>Fine Sand</td><td>Fine grained sandy soil with root debris.</td></t<>	Mid Flat	GEOSW1-1	Natural	6.25	0-6	Yellowish Gray 5Y 7/2	Well Sorted	Fine Sand	Fine grained sandy soil with root debris.
number number<			Sediments			-			Top two inches is wind blown sand with
Mid Flat GEOSW2-1. Sediments Natural Sediments 7.21 Cost 0 - 5 Procession Gray tib Blue SPB 5/2 Procession Poorly Sorted Prine gravel 70% Fine gravel 70% Social cost prine gravel 70% Social cost prine gravel 70% Mid Flat GEOSW2-2 Natural Sediments 7.8 Poil volta Well Sorted BS% Fine to medium grained and with 13% Medium sand with medium grained gravel prine dama with cost prine gravel Mid Flat GEOSW3-2 Tailings 3.85 4 - 9 NA Black and N7 light gray Well Sorted Fine sand mm sand conservitions with root fragments. Mid Flat GEOSW3-2 Tailings 3.85 4 - 9 NA Black and N7 light gray Well Sorted Medium grained and with root fragments Medium grained sand with root fragments Mid Flat GEOSW3-3 Tailings 4.17 0 - 3 drk vellowish orang 107 k7 (2 Very well sorted Fine sand Tailings, fine sand with minor fine gravel 2.0 Fine sand well sorted Tailings, fine sand with minor fine gravel 2.0 Mid Flat GEOSW3-3 Tailings, fine sand sediments 3.22 Medicate findwith brown 1078 5/4 Well Sorted Fine sand 30%, fine gravel 10%									clumps of roots associated with plants.
Sediments Sediments <t< td=""><td>Mid Flat</td><td>GEOSW2-1</td><td>Natural</td><td>7.21</td><td>0 - 5</td><td>Grayish Blue 5PB 5/2</td><td>Poorly Sorted</td><td>Fine Grained sand 30%,</td><td>Loosely cemented fine sand with pebble</td></t<>	Mid Flat	GEOSW2-1	Natural	7.21	0 - 5	Grayish Blue 5PB 5/2	Poorly Sorted	Fine Grained sand 30%,	Loosely cemented fine sand with pebble
Mid Flat GEOSW-2 Natural Sediments 6.88 M Pale vallowish brown 107R 6/2 Soft Soft Soft Soft Soft Soft Soft Soft			Sediments					Fine gravel 70%	sized (1mm) concretions. Grass roots in
Mid Flat GEOSW-2- Sediments Natural Sediments 6.8. 7.8 M Pale yellowish brown UNR 6/2 Well Sorted Private Sorted Stationers Medium sand with 150's medium grained gravel grained sand with 150's medium grained gravel fine sand Medium sand with medium grained gravel grave Medium sand with 150's medium grained gravel Mid Flat GEOSW-3: GEOSW-3: Tailings 3.85 4 - 9 N 14 Bleck and N7 light grav Well Sorted Medium grained gravel grav Medium grained gravel grav Medium grained gravel grav Medium grained gravel grav Interbedded loosely cemented light grav and black medium grained sand with root fragments. Mid Flat GEOSW-3: GEOSW-3: Tailings 2.65 9 - 19 Dark yellowish orange 100'R 6/6 Mederately sorted Fine sand Medium grained gravel gravel santavatel 20 feet to the north where the same hard well cemented tailings were interaceted. Further study revealed that the deamenting gent is grasum. Mid Flat GEOSW-4: Sorted Tailings 4.48 3 - 12 Moderate yellowish brown 10/R 5/4 Well Sorted Fine Sand 30% fine gravel gravel Fine sand with minor fine gravel, graded sorted Mid Flat GEOSW-2: Soft Tailings 3.48 0 - 4 Moderate Yellowish brown 10/R 5/4 Well Sorted Fine Sand 30% fine gravel gravel Fine sand with minor fine gravel,									top 1 inch
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Mid Flat GEOSW-3- GEOSW-3- Mid Flat Natural Sediments Noderate orange pink SYR 8/4 Moderate SYR 8/4 SYR 8/4 SYR 8/4 Moderate SYR 8/4 Moderate SYR 8/4 SYR 8/4 Moderate SYR 8/4			Sediments			10YR 6/2		grained sand with 15%	with occasional pebble up to 50 mm.
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Image: Normal sequence of the	Mid Flat	GEOSW6-1	Natural	6.54	0 - 6	Moderate Pink 5R 7/4	Well Sorted	Fine sand	Fine grained sandy soil with root mat and
Mid Flat Mid FlatGEOSW6-2 SedimentsNatural Sediments6.71 Sediments6 - 27 Moderate Pink 5R 7/4 Moderate Pink 5R 7/4Moderately SortedFine Grained 90%, fine gravel 10%Fine grained sand with fine gravel pebblesMid Flat Mid FlatGEOSW7-1 SedimentsNatural Sediments7.81 Sediments0 - 5Medium yellowish brown 10YR 5/4Well sortedMedium sandSandy Soil with minor organicsMid Flat Mid FlatGEOSW9-1 SedimentsNatural Sediments6.42 Sediments0 - 6Moderate yellowish brown 10YR 5/4Poorly sorted medium gravel 20%Fine to medium gravel 20% abundant root massesMid Flat Mid FlatGEOSW9-2 SedimentsNatural Sediments6.45 Sorted0 - 7Moderate yellowish brown 10YR 5/4Well sorted HoreyFine sandSandy soil with rootsMid Flat Mid FlatGEOSW9-2 SedimentsNatural Sediments6.88 Sorted7 - 36 Dark yellowish brown 10YR 4/2Well sorted Well sortedFine grained 95% fine gravel 5%Sand with abundant root fragments occasional spots of tailingsMid Flat Mid FlatGEOSW22-1 SedimentsNatural Sediments6.65 Sorted8 - 27 Pale yellowish brown 10YR 6/2Moderately well sortedFine grained 95% fine gravel 5%Sand with root fragments occasional spots of tailingsMid Flat Mid FlatGEOSW24-1 SedimentsNatural Sediments6.67 Sorted0 - 6Very pale orange 10YR SortedVery well SortedSiltSand with root fragments <br< td=""><td></td><td></td><td>Sediments</td><td></td><td></td><td></td><td></td><td></td><td>organic debris.</td></br<>			Sediments						organic debris.
Image: Market	Mid Flat	GEOSW6-2	Natural	6.71	6 - 27	Moderate Pink 5R 7/4	Moderately	Fine Grained 90%, fine	Fine grained sand with fine gravel pebbles
Mid Flat GEOSW7-1 Natural Sediments 7.81 0 - 5 Medium yellowish brown 10YR 5/4 Well sorted Medium sand Sandy Soil with minor organics Mid Flat GEOSW8-1 Natural Sediments 6.42 0 - 6 Moderate yellowish brown 10YR 5/4 Poorly sorted Medium fine sand 80% medium gravel 20% Fine to medium grained soil with abundant root masses Mid Flat GEOSW9-1 Natural Sediments 6.45 0 - 7 Moderate yellowish brown 10YR 5/4 Well sorted Fine sand Sandy soil with roots Mid Flat GEOSW9-2 Natural Sediments 6.48 7 - 36 Dark yellowish brown 10YR 4/2 Well sorted Fine sand Massive fine grained sand with occasional fine grained pebble. Mid Flat GEOSW22-1 Natural Sediments 6.26 0 - 8 Pale yellowish brown 10YR 6/2 Moderately well sorted Fine grained 95% fine gravel 5% Sand with abundant root fragments occasional spots of tailings Mid Flat GEOSW24-1 Natural Sediments 6.69 8 - 27 Pale yellowish brown 10YR 6/2 Moderately sorted Fine grained 95% fine gravel 5% Sand with root fragments occasional spots of tailings Mid Flat GEOSW24-1 Natural Sediments 6.63 0 - 9 Very pale orange 10YR Sorted Silt Bed of silt covering the surface M			Sediments				Sorted	gravel 10%	
Image: Market	Mid Flat	GEOSW7-1	Natural	7.81	0 - 5	Medium yellowish	Well sorted	Medium sand	Sandy Soil with minor organics
Mid Flat GEOSW8-1 Natural Sediments 6.42 Sediments 0 - 6 Moderate yellowish brown 10/R 5/4 Poorly sorted Medium fine sand 80% medium gravel 20% Fine to medium grained soil with abundant root masses Mid Flat GEOSW9-1 Natural Sediments 6.45 0 - 7 Moderate yellowish brown 10/R 5/4 Well sorted Fine sand Sandy soil with roots Mid Flat GEOSW9-2 Natural Sediments 6.88 7 - 36 Dark yellowish brown 10/R 4/2 Well sorted Fine sand Massive fine grained sand with occasional fine grained pebble. Mid Flat GEOSW22-1 Natural Sediments 6.26 0 - 8 Pale yellowish brown 10/R 6/2 Moderately well sorted Fine grained 95% fine gravel 5% Sand with abundant root fragments occasional spots of tailings Mid Flat GEOSW22-1 Sediments Natural Sediments 6.65 8 - 27 Pale yellowish brown 10/R 6/2 Moderately sorted Fine grained 95% fine gravel 5% Sand with root fragments occasional spots of tailings Mid Flat GEOSW23-1 Natural Sediments 6.63 0 - 6 Very pale orange 10/R 8/2 Very well sorted Silt Bed of silt covering the surface Mid Flat GEOSW24-1 Sediments Natural Sediments			Sediments			brown 10YR 5/4			
Sediments brown 10/R 5/4 medium gravel 20% abundant root masses Mid Flat GEOSW9-1 Natural Sediments 6.45 0 - 7 Moderate yellowish brown 10/R 5/4 Well sorted Fine sand Sandy soil with roots Mid Flat GEOSW9-2 Natural Sediments 6.48 7 - 36 Dark yellowish brown 10/R 4/2 Well sorted Fine sand Massive fine grained sand with occasional fine grained pebble. Mid Flat GEOSW22-1 Natural Sediments 6.26 0 - 8 Pale yellowish brown 10/R 6/2 Moderately well sorted Fine grained 95% fine gravel 5% Sand with abundant root fragments occasional spots of tailings Mid Flat GEOSW22-2 Natural Sediments 6.65 8 - 27 Pale yellowish brown 10/R 6/2 Moderately sorted Fine grained 95% fine gravel 5% Sand with root fragments occasional spots of tailings Mid Flat GEOSW23-1 Natural Sediments 6.67 0 - 6 Very pale orange 10/R 8/2 Very well sorted Silt Bed of silt covering the surface Mid Flat GEOSW24-1 Sediments Natural Sediments 6.63 0 - 5 Moderate Pink 5R 7/4 Well sorted Fine sand Sandy soil with abundant roots	Mid Flat	GEOSW8-1	Natural	6.42	0 - 6	Moderate yellowish	Poorly sorted	Medium fine sand 80%	Fine to medium grained soil with
Mid Flat GEOSW9-1 Natural Sediments 6.45 0 - 7 Moderate yellowish brown 10YR 5/4 Well sorted Fine sand Sandy soil with roots Mid Flat GEOSW9-2 Natural Sediments 6.88 7 - 36 Dark yellowish brown 10YR 6/2 Well sorted Fine sand Massive fine grained sand with occasional fine grained pebble. Mid Flat GEOSW22-1 Natural Sediments 6.26 0 - 8 Pale yellowish brown 10YR 6/2 Moderately well sorted Fine grained 95% fine gravel 5% Sand with abundant root fragments occasional spots of tailings Mid Flat GEOSW22-2 Natural Sediments 6.65 8 - 27 Pale yellowish brown 10YR 6/2 Moderately sorted Fine grained 95% fine gravel 5% Sand with root fragments occasional spots of tailings Mid Flat GEOSW23-1 Natural Sediments 6.79 0 - 6 Very pale orange 10YR 8/2 Very well sorted Silt Bed of silt covering the surface Mid Flat GEOSW24-1 Natural Sediments 6.63 0 - 5 Moderate Pink 5R 7/4 Well sorted Fine sand Sandy soil with abundant roots			Sediments			brown 10YR 5/4		medium gravel 20%	abundant root masses
Sediments brown 10/R 5/4 ord ord <tho< th=""> ord <tho<< th=""></tho<<></tho<>	Mid Flat	GEOSW9-1	Natural	6.45	0 - 7	Moderate yellowish	Well sorted	Fine sand	Sandy soil with roots
Mid Flat GEOSW9-2 Natural Sediments 6.88 7 - 36 Dark yellowish brown 10YR 4/2 Well sorted Fine sand Massive fine grained sand with occasional fine grained pebble. Mid Flat GEOSW22-1 Natural Sediments 6.26 0 - 8 Pale yellowish brown 10YR 6/2 Moderately well sorted Fine grained 95% fine gravel 5% Sand with abundant root fragments Mid Flat GEOSW22-2 Natural Sediments 6.65 8 - 27 Pale yellowish brown 10YR 6/2 Moderately sorted Fine grained 95% fine gravel 5% Sand with occasional spots of tailings Mid Flat GEOSW23-1 Natural Sediments 6.79 0 - 6 Very pale orange 10YR 8/2 Very well Silt Bed of silt covering the surface Mid Flat GEOSW24-1 Natural Sediments 6.63 0 - 5 Moderate Pink 5R 7/4 Well sorted Fine sand Sandy soil with abundant roots			Sediments			brown 10YR 5/4			
Sediments 10YR 4/2 fine grained pebble. Mid Flat GEOSW22-1 Natural Sediments 6.26 0 - 8 Pale yellowish brown 10YR 6/2 Moderately well sorted Fine grained 95% fine gravel 5% Sand with abundant root fragments Mid Flat GEOSW22-1 Natural Sediments 6.65 8 - 27 Pale yellowish brown 10YR 6/2 Moderately sorted Fine grained 95% fine gravel 5% Sand with abundant root fragments Mid Flat GEOSW23-1 Natural Sediments 6.79 0 - 6 Very pale orange 10YR 8/2 Very well Silt Bed of silt covering the surface Mid Flat GEOSW24-1 Natural Sediments 6.63 0 - 5 Moderate Pink 5R 7/4 Well sorted Fine sand Sandy soil with abundant roots	Mid Flat	GEOSW9-2	Natural	6.88	7 - 36	Dark yellowish brown	Well sorted	Fine sand	Massive fine grained sand with occasional
Mid Flat GEOSW22-1 Natural Sediments 6.26 0 - 8 Pale yellowish brown 10YR 6/2 Moderately well sorted Fine grained 95% fine gravel 5% Sand with abundant root fragments Mid Flat GEOSW22-2 Natural Sediments 6.65 8 - 27 Pale yellowish brown 10YR 6/2 Moderately sorted Fine gravel 5% Sand with abundant root fragments Mid Flat GEOSW23-1 Natural Sediments 6.679 0 - 6 Very pale orange 10YR 8/2 Very well Silt Bed of silt covering the surface Mid Flat GEOSW24-1 Natural Sediments 6.63 0 - 5 Moderate Pink 5R 7/4 Well sorted Fine sand Sandy soil with abundant roots			Sediments			10YR 4/2			fine grained pebble.
Jurk b/2 Well sorted gravel 5% occasional spots of tailings Mid Flat GEOSW22-2 Natural Sediments 6.65 8 - 27 Pale yellowish brown 10YR 6/2 Moderately sorted Fine grained 95% fine gravel 5% Sand with root fragments Mid Flat GEOSW23-1 Natural Sediments 6.63 0 - 6 Very pale orange 10YR 8/2 Very well Silt Bed of silt covering the surface Mid Flat GEOSW24-1 Natural Sediments 6.63 0 - 5 Moderate Pink 5R 7/4 Well sorted Fine sand Sandy soil with abundant roots	Wild Flat	GEOSW22-1	Natural	6.26	0-8	raie yellowish brown	woderately	rine grained 95% fine	sand with abundant root fragments
Mid Flat GEOSW22-2 Insturat 6.63 0 - 5 Fall gellowish brown in oderately sorted Inite grained 95% time gravel 5% Sand with root fragments Mid Flat GEOSW22-1 Natural Sediments 6.63 0 - 5 Very pale orange 10YR Very well sorted Silt Bed of silt covering the surface Mid Flat GEOSW22-1 Natural Sediments 6.63 0 - 5 Moderate Pink 5R 7/4 Well sorted Fine sand Sandy soil with abundant roots	Mid Flat	GEOSIWAA A	Sediments	6.05	0 27	LUTK 6/2	Well sorted	Fine grained OF94 first	occasional spots of tailings
Mid Flat GEOSW22-1 Natural 6.63 0 - 5 Moderate Pink 5R 7/4 Well sorted Fine sand Sandy soil with abundant roots	INIG Flat	GE05W22-2	Sedimente	0.05	8-21	Tale yellowish brown	rested	rine grained 95% fine	Sand with root fragments
Mid Flat GEOSW22-1 Natural 6.63 0 - 5 Very paie orange for lyeer very well Sit Dec or sit covering the surface Mid Flat GEOSW22-1 Natural 6.63 0 - 5 Moderate Pink 5R 7/4 Well sorted Fine sand Sandy soil with abundant roots	Mid Elect	GEOS14/22-1	Natural	6 79	0 - 6	Voncesle crosse 10VD	Very well	graver 5%	Rod of silt sovering the surface
Sediments O/2 Softed Mid Flat GEOSW24-1 Natural 6.63 0 - 5 Moderate Pink 5R 7/4 Well sorted Fine sand Sandy soil with abundant roots Sediments Sediments Sediments Sandy soil with abundant roots Sandy soil with abundant roots		GEUSW23-1	Sedimente	0./9	0-0	very pale orange 10YR	very well	SIL	bed of sitt covering the surface
Sediments Sediments	Mid Elet	GEOSW/24-1	Natural	6.62	0.5	Moderate Pink 5P 7/4	Wall carted	Fine cand	Sandy soil with abundant costs
Jeuments Jeuments	In Flat	GE03VV24-1	Sedimente	0.05	5-5	Moderate Pink SK //4	wen sortea	r me sano	Sandy son with abundant roots
Mid Flat GEOSW24-2 Natural 6.81 5 - 15 Pale vellowish brown Well sorted Fine grained 95% fine Sand with root fragments	Mid Elat	GEOSW24-2	Natural	6.81	5 - 15	Pale vellowish brown	Well sorted	Fine grained 95% fine	Sand with root fragments
Sediments 10YR 6/2 rave15%		22001124-2	Sediments	0.01	5 10	10YR 6/2		gravel 5%	

Test Pit Results for the Mid Flat Area (MID FLAT)

4.4 North of Cypress Tailings



Corner Locations for the area north of the Cypress Tailings (CYP N)

Degrees, Min	utes, Seconds	Decimal	Degrees	Universal Transv		
Latitude DMS	Longitude DMS	Latitude DD	Longitude DD	Northing	Easting	Description
32°17'8.42"N	107°47'13.69"W	32.285672	-107.787137	3575512.76	237514.83	Poly Area of Concern
32°17'8.48"N	107°47'7.34"W	32.285689	-107.785372	3575510.29	237681.05	Poly Area of Concern
32°17'6.96"N	107°47'2.09"W	32.285268	-107.783915	3575459.90	237817.22	Poly Area of Concern
32°17'6.24"N	107°47'2.63"W	32.285068	-107.784064	3575438.08	237802.51	Poly Area of Concern
32°17'6.08"N	107°47'11.75"W	32.285023	-107.786597	3575439.35	237563.72	Poly Area of Concern
	Degrees, Min Latitude DMS 32°17'8.42"N 32°17'8.48"N 32°17'6.96"N 32°17'6.24"N 32°17'6.08"N	Degrees, Minutes, Seconds Latitude DMS Longitude DMS 32°17'8.42"N 107°47'13.69"W 32°17'8.48"N 107°47'7.34"W 32°17'6.96"N 107°47'2.09"W 32°17'6.24"N 107°47'2.63"W 32°17'6.08"N 107°47'2.63"W	Degrees, Mivutes, Seconds Decimal Latitude DMS Longitude DMS Latitude DD 32°17'8.42"N 107°47'13.69"W 32.285672 32°17'8.48"N 107°47'7.34"W 32.285689 32°17'6.96"N 107°47'2.09"W 32.285268 32°17'6.24"N 107°47'2.63"W 32.285068 32°17'6.08"N 107°47'1.75"W 32.285068	Degrees, Minutes, Seconds Decimal Degrees Latitude DMS Longitude DMS Latitude DD Longitude DD 32°17'8.42"N 107°47'13.69"W 32.285672 -107.787137 32°17'8.48"N 107°47'13.49"W 32.285689 -107.785372 32°17'8.48"N 107°47'2.09"W 32.285689 -107.785372 32°17'6.96"N 107°47'2.09"W 32.285068 -107.783915 32°17'6.24"N 107°47'2.63"W 32.285068 -107.784064 32°17'6.08"N 107°47'11.75"W 32.285023 -107.786597	Degrees, Minutes, Seconds Decimal Degrees Universal Transv Latitude DMS Longitude DMS Latitude DD Northing 32°17'8.42"N 107°47'13.69"W 32.285672 -107.787137 3575512.76 32°17'8.48"N 107°47'7.34"W 32.285689 -107.785372 3575510.29 32°17'6.96"N 107°47'2.09"W 32.285268 -107.783915 3575459.90 32°17'6.24"N 107°47'2.63"W 32.285068 -107.784064 3575438.08 32°17'6.08"N 107°47'1.175"W 32.285023 -107.786597 3575439.35	Degrees, Minutes, Seconds Decimal Degrees Universal Trans-ves Mercator Latitude DMS Longitude DMS Latitude DD Northing Easting 32°17'8.42"N 107°47'13.69"W 32.285672 -107.787137 3575512.76 237514.83 32°17'8.48"N 107°47'7.34"W 32.285689 -107.785372 3575510.29 237681.05 32°17'6.96"N 107°47'2.09"W 32.28568 -107.783915 3575459.90 237817.22 32°17'6.24"N 107°47'2.63"W 32.28508 -107.78406 3575438.08 237802.51 32°17'6.08"N 107°47'11.75"W 32.285023 -107.786597 3575439.35 23763.72



Proposed Pit Locations for the area north of the Cypress Tailings (CYP N)

	Degrees, Min	utes, Seconds	Decimal	Degrees	Universal Transv	verse Mercator	
Title	Latitude DMS	Longitude DMS	Latitude DD	Longitude DD	Northing	Easting	Description
GeoSW 26	32°17'8.29"N	107°47'12.52"W	32.285637	-107.786811	3575507.96	237545.34	Additional Test Pit
GeoSW 27	32°17'8.35"N	107°47'10.16"W	32.285652	-107.786156	3575508.20	237607.15	Additional Test Pit
GeoSW 28	32°17'8.36"N	107°47'8.02"W	32.285657	-107.785562	3575507.06	237663.16	Additional Test Pit



Actual Pit Locations for the area north of the Cypress Tailings (CYP N)

	Degrees, Min	utes, Seconds	Decimal	Degrees	Universal Trans	verse Mercator	
Title	Latitude DMS	Longitude DMS	Latitude DD	Longitude DD	Northing	Easting	Description
GeoSW 26 New Location	32°17'9.00"N	107°47'14.00"W	32.285833	-107.787222	3575530.80	237507.20	Additional Test Pit
GeoSW 27 New Location	32°17'9.00"N	107°47'11.00"W	32.285833	-107.786389	3575528.76	237585.68	Additional Test Pit
GeoSW 28 New Location	32°17'9.00"N	107°47'9.00"W	32.285833	-107.785833	3575527.40	237638.06	Additional Test Pit
						1	



• GeoSW 8

Pit with no tailings present

Estimated area with tailings present (4.53 Acres)

Study Area	Sample No.	Material Classification	Ph	Interval Sampled (Inches)	Munsell Rock Color	Sorting	Grain Size	Description
CYP N	GEOSW26-1	Natural Sediments	6.90	0 - 17	Moderate yellowish brown 10YR 5/4	Poorly sorted	Fine sand 70% coarse gravel 30%	Sandy soil underlain by sand and gravel. Abundant roots.
CYP N	GEOSW26-2	Natural Sediments	6.84	17 - 48	Pale yellowish brown 10YR 6/2	Well sorted	Fine sand	Massive fine grained sand showing depositional lines of bedding.
CYP N	GEOSW27-1	Natural Sediments	5.11	0 - 8	Moderate yellowish brown 10YR 5/4	Well sorted	Fine sand	Sandy soil with roots. May contain some tailings as evidenced by occasional reddish clusters.
CYP N	GEOSW27-2	Natural Sediments	5.53	8 - 30	Pale brown 5YR 5/2	Well sorted	Fine sand	Bedded fine sand showing layers of deposition
CYP N	GEOSW27-3	Natural Sediments	7.08	3 - 48	Pale yellowish brown 10YR 6/2	Well sorted	Claystone	Massive sandy claystone
CYP N	GEOSW28-1	Natural Sediments	6.37	0 - 9	Moderate yellowish brown 10YR 5/4	well sorted	Fine sand	Sandy soil with occasional tailing fragment near the surface. Abundant roots
CYP N	GEOSW28-2	Natural Sediments	6.53	9 - 18	Pale yellowish brown 10YR 6/2	well sorted	Fine sand	Massive fine sand

Results for the area north of the Cypress Tailings (CYP N)

	Pit logs and photographs - Area North of River (N RIV BK)
Pits Included:	
GEOSW 11	
GEOSW 12	
GEOSW 13	
GEOSW 14	
GEOSW 15	
GEOSW 16	
GEOSW 18	
GEOSW 19	

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Deming Mill & Mill Talling: Chenour Pain Laponed Talling: Dedineation Study by Text Presse	veo Pouthwest, JP, PO Box 332, Säverson, TX, 79257 Adrit 2022	Pit Number:	GenSW 11	TT MOOD B				200	3	4	5 6	7			11		213	14		17	19 3 2	21	22	3 24	25 2	27	2228	9 30	31 32	33 3	5 El 2 36
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	Mill Tailings Closeout Plan	lineation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 11	Date Excavated: 4/20/2022	Description/Remarks	Remobilized tailings? Interbedded fine grained sand with ocrasional gravel pebbles. No svosum		Ph sample: GeoSW11-1			Composite of tailings and sandy gravel indicating a	mixture of tailings and natural sediments. No gypsum				Ph sample: GeoSW11-2				Very well sorted, dense silt					Ph sample: GeoSW11-3					
	Aill & N	igs De	by:	aring:	-	Depth Inches	1 0	4 m	4	n u	7	χ, σ	10	11	12	13	15	16	17	19 20	21	23	24	25	27	28	29	31	33	34 35	36
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	Dei	Expose	Integrated Geologic	שנאונהא' דרר		Munsell Rock Homogeneity Color Sorting	Pale yellowish Well sorted	6/2				Dark vellowish Poorly sorted	orange 10YR	6/6							Pale yellowish Very well brown 10YR sorted	6/2									

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	Mill Tailings Closeout Plan	elineation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 12	Date Excavated: 4/20/2022	h Description/Remarks ss	Weakly cemented fine grained sand tailings. Minor	gypsum	Ph sample GeoSW12-1		Sand with minor clay			-	T					-	T														
	Will &	d sbu	d by:	earing:	2	e Dept Inche	1	2	m 4	S	œ	L	00 0	10	11	12	13	14	1 4	17	18	19	20	21	23	24	26	27	28	29	31	32	33 84	35	36
	ming I	d Taili	Logge G. Rose	Photo B.	5	Grain Size	Fine	grained			Fine	grained	minor clav																						
	De	Expose	d Geologic	es, LLC		Homogeneity Sorting	Well Sorted				Well Sorted																								
			Integrate	DIVISC		Munsell Rock Color	Dark yellowish	orange 10YR	0/0		Pale yellowish	brown 10YR	7/0																						

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out Plan	Test Pitting	WALL LOG	SeoSW 13	20/2022	n/Remarks	ly cemented fine	enting agent is		;	21		A																				
illings Closed	ion Study by	PIT	PIT NUMBER: (Date Excavated: 4/	Descriptio	Tailings, moderate	grained sand. Cem	gypsum		Ph sample: Geoswi		Sand with minor cl																				
Viil T o	lineat	by: nund	aring:		Depth Inches	1	2	3	4	S	9	<u>00</u> 0	70	0T	12	13	14	15	17	18	20	21	22	24	25 26	27	28	30	31	33 33	34	36 36
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Deming	posed Tai	d Geologic	es, LLU	-	Homogeneity Sorting	Well Sorted						Well Sorted																				
	EX	Integrate	Jervic		Munsell Rock Color	Dark	yellowish	orange 10YR	6/6			Pale	brown 10VR	6/2																		

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Aill Tailings Closeout Plan	lineation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 14	Date Excavated: 4/20/2022	Description/Remarks	Tailings, moderately cemented fine grained sand	with gypsun micro clusters. (0.5mm)		Ph sample SeoSW14-1		Sand with minor clay								_														
11 & N	s Del	:Aq	iring:	2	Depth Inches	1	2	ŝ	4	5	7	00	6	10	11	12	13	14	15 16	17	18	20	21	22 27	24	25 26	27	28	30	31	32	34 34	35 36
ning Mi	d Tailing	Logged	Photo Bet	I DE N	Grain Size	Fine	grained				fine	grained				3 20						201									a	6. A.	
Dei	Expose	d Geologic	es, LLC		Homogeneity Sorting	Well sorted					Well sorted																						
		Integrate	Servic		Munsell Rock Color	Dark	yellowish	orange 10YR	6/6		Pale	yellowish	brown 10YR	6/2																			

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					Hd	L			3.55																											
Mill Tailings Closeout Plan	elineation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 15	Date Excavated: 4/20/2022	Description/Remarks	wind blown sand with small nebbles			Tailings, Very fine sand with occasional gravel. No gypsum	Silty sand, massive, bedded with less that 5% fine gravel																										
118	js De	:Ac	ring:		Depth	1	2	8	4 v	9		6	10	11	12	13	14	15	16	17	18	19	20	17	33	24	25	26	12	50	30	31	32	33	5	36
Ming M	d Tailing	Logged L G. Roseniu	Photo Bea	10/0	Grain Size	medium	sand 80%	fine gravel	Fine Sand	Fine sand	50%																									
De	Expose	d Geologic	es, LLC		Homogeneity	Moderately	sorted		Well sorted	Moderately																										
		Integrate	Servic		Munsell Rock Color	Dark	yellowish	brown 10YR	Dk yellowish orange 10yr	Pale	brown 10YR	6/2																								

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out Plan	Test Pit	WALL LO	GeoSW 16	n/Remarks	d blown sand	id, no gypsun ieoSW16-1	than 5% fine teoSV16-2
igs Close	Study by	PI	T NUMBER:	Description	ne grained wir eolian)	ailings, fine sar h sample: G	h sample: C
II Tailir	eation	by: hund	ring: Pl	Dept h	1 2 (a	9 1 1 1	◎ └ ◎ ◎ □ □ 〒 □ □ □ □ □ □ □ □ □ □ □ 0 0 0 0 0 0
ill & Mi	s Delin	Logged	Photo Bear 5 45 W	Grain Size	fedium and 80%	ind Sand	ine sand عبد المعالمة المعالما معالما معالمة المعالما معالما معالمعالما معالما معالمعالما معالما معالمعالما معالما معالمعالما معالما معالمعالما معالما معالمعالما معالما معالمعالما معالما معالممالمما معالما معالما معالما معالما معالما معالما معالم
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	Expos	Integrated C	Services,	Munsell H Rock Color	Dark yellowish M prown 10YR sc	Dark yellowish 🗽 brown 1-YR 3/6	Die yellowish i 12 brown 10yr 6/2 s s

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gs Closeout Plan	Study by Test Pitting	D D D D D D D D D D D D D D D D D D D	PIT NUMBER: GeoSW 18	Date Excavated: 4/20/2022	Description/Remarks PH	Tailings, fine sand, weakly cemented, no gypsum. Ph sample GeoSW18-1	Sity sand, massive, weakly 5 bedded with less than 5% 6 fine gravel 3% 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Deming Mill & Mill Tailin	Exposed Tailings Delineation	ntegrated Geologic Logged by: G. Rosenlund	Services, LLC Photo Bearing: F		Insell Rock Homogeneity Grain Size Depth Color Sorting Inches	yellowish Well Sorted Fine <u>1</u>	e Moderately Fine sand 5 5 lowish sorted 50% slit 6 t 11 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13

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		GeoSW 19					5 7 9 11 D 13 15 17 19 21 23 D 25 27 29 31 33 35 5 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 3
ngs Closeout Plan	Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 19	Date Excavated: 4/20/2022	Description/Remarks PH	Tailings, fine sand, weakly 1 :emented, w/gypsum. (1 mm 2.94 2 :and gypsum clusters) 3	sedded weakly redded massive, weakly 11 11 11 11 11 11 11 11 12 13 13 13 14 14
II & Mill Tailir	is Delineation	Logged by: G. Rosenlund	S 60 E	7	Grain Size Depth Inches	Fine sand 1 1 7 2 c	The Sand 5 Sitt for 5 No. 8 Sitt 6 Sand 5 Sitt 6 Sand 5 Sitt 6 Sand 5 Sitt 11 11 11 11 11 11 11 11 11 11 11 11 1
Deming Mi	Exposed Tailing	Integrated Geologic	Services, LLL		Munsell Rock Homogeneity Color Sorting	Dk yellowish Moderately li orange 10yr sorted 6/6	Pale Moderately Pelowish sorted brown 10/r 6/2

Pit logs and photographs - Riverbank Area along the Mimbres River (RIV BK).

Pits Included:

GEOSW 17

GEOSW 29

			A STATE OF A	A REAL PROPERTY AND A REAL		
			GeoSW17			
ailings Closeout Plan	rtion Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 17	Date Excavated: 4/20/2022	Description/Remarks PH	Weakty cemented, interpoded time grained tailings and medium to coarse alluvial sand. Sand/gypsum clusters 4. Ph sample: GeoSW17-1 3.3 Tailings, weakty cemented fine sand, with gypsum. 3.3 Ph sample: GeoSW17-2 3.3 Ph sample: GeoSW17-3 6.7 Ph sample GeoSW17-3 6.7
Mill & Mill T	ings Delinea	Logged by: G. Rosenlund	Photo Bearing:	JCT M	Grain Size Depth Inches	Meduum to wedum to 4 3 ine sand 2 3 fine Sand 10 7 fine Sand 11 1 fine Sand 13 1
Deming	posed Tail	d Geologic	es, LLC		Homogeneity Sorting	Weil sorted Weil sorted Weil sorted Weil sorted
	Ex	Integrate	Servic		Munsell Rock Color	bark 6/6 ¢llowish 5/R 5/2 Dark Pale Pale brown 10YR 6/2

	Colouran State	A DEOSW 29			7 9 11 B 13 15 17 19 21 25 B 25 27 129 31 33 25 B 37 39 41 43 45 47 B 49 51 53 55 57 58 8 10 12 14 16 18 20 22 14 26 28 30 32 34 36 138 40 42 44 46 48 59 52 53 55 55
t Plan est Pitting	WALL LOG	6	Remarks PH	1 stope wash)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
& Mill Tailings Closeou Delineation Study by T	PITU	PIT NUMBER: GeoSW 2:	Date Escavated: 4/2 ep Description/I h	Bedded sand and gravel. (
Deming Mill & Exposed Tailings L	Seologic Logged by	s, LLC Photo Bearing:	Homogen Grain De eits Size H	Cooting Medium 2 sorted sand & Medium 2 gravel 4	804 det atel 804 det atel 804 ate
	Integrated	Service	Munsell Book	Pale yellowish brown 10YR 6/2	Yellowish gray SY 712

Pit logs and photographs - Mid Flat Area (MID FLAT).

Pits Included:

- GEOSW 1
- GEOSW 2
- GEOSW 3
- GEOSW 4
- GEOSW 5
- **GEOSW 6**
- GEOSW 7
- GEOSW 8
- GEOSW 9
- GEOSW 22
- GEOSW 23
- GEOSW 24

	Dening Aut 5, Mit Tallings Cleanad Plan	Tapping Taring, Definition Model for the Particle Gas functionary (P), PD 1963 353, Material VI, 292372	Area 2022 Pft Number:	C1 1 1	T NCOOD I		7 9 11 11 13 15 17 19 21 23 12 25 27 29 31 33 35 1 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 3
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t Mill Tailings Closeout Plan	elineation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 1	Date Excavated: 4/21/2922	Description/Remarks	Fine grained sandy soil with root debris. Top two inches is wind blown sand with clumps of roots associated with plants. Ph Sample GeoSW 1-1	Fine to coarse sand with minor fine to coarse gravel
Aill &	ngs D	iund	ring:		Depth Inches	1 2 4 5 6	7 8 8 10 11 11 11 11 11 11 11 11 11 11 11 11
eming A	ed Tailir	Logged G. Rosen	Photo Bea		Grain Size	Fine Sand	90% fine sand, 10% coarse gravel gravel
9	Expos	d Geologic	es, LLC	-	Homogeneity Sorting	Well Sorted	Sorted
		Integrate	Servic		Munsell Rock Color	Yellowish Gray 5Y 7/2	Pale brown 10YR 6/2

	Dening MR & MR Talings Classest Plan	Data of the second state o	Aur 2022 Pit Number:	Coccini 1			7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 3
		P	20 		F	1 25 3 5 6	7 9 111 112 111 111 112 112 112
-					đ	6.2	
k Mill Tailings Closeout Plan	Delineation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 1	Date Excavated: 4/21/2922	Description/Remarks	Fine grained sandy soil with root debris. Top two inches is wind blown sand with clumps of roots associated with plants. Ph Sample GeoSW 1-1	Fine to coarse sand with minor fine to coarse gravel
Aill &	d sb	iy:	ring: V		Depth Inches	1 2 3 4 5 6	7 8 8 10 11 11 11 12 13 13 13 13 23 23 23 23 23 23 23 23 23 23 23 23 23
eming A	ed Tailin	G. Roseni	Photo Bea N 70 W		Grain Size	Fine Sand	90% fine sand, 10% coarse gravel gravel
D	Expos	d Geologic	es, LLC	-	Homogeneity Sorting	Well Sorted	Sorted
		Integrate	Servic	-	Munsell Rock Color	Yellowish Gray 5Y 7/2	Pale brown 10YR 6/2

	Connelly Mail & Mail Tallings Chronoux Mail	volument memory (and the 343 structure (and 242 structure (and	Pit Number:	GeoSW 2				19 21 23 22 24 26	27 31 33 35 E 28 30 32 34 3
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					4	7.	<u>ن</u>		
Mill Tailings Closeout Plan	Pelineation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 2	Date Excavated: 4/21/2022	Description/Remarks	Loosely cemented fine sand with pebble sized (1mm) concretions. Grass roots in top 1 inch Ph Sample GeoSW2-1	Medium sand with medium grained gravel with occasional pebble up to 50 mm. Ph Sample: GeoSW2-2	Fine grained sand with medium grained gravel with occasional pebble up to 50 mm.	Sand and Gravel
Aill 8	lgs D	:Ac	uring:		Depth	1 3 2 4	5 6 6 8 8 8 8 8 11 11 12 13 13 13 11 17 11 17 11 12 10 20	21 22 23 24 25 26 26 26 28 28 28	30 31 32 33 33 35 35 36
eming A	ed Tailin	Logged L G. Rosenh	Photo Bed	16/ 6	Grain Size	Fine Grained sand 30%, Fine gravel	85% Fine to medium grained sand with 15% gravel gravel	Fine grained sand	80%Coarse Sand and 20 % medium gravel
D	Expos	d Geologic	es, LLC		Homogeneity	Poorly Sorted	Well Sorted	Poorly Sorted	Poorly Sorted
		Integrated	Servic		Munsell Rock	Grayish Blue 5PB 5/2	Pale yellowish brown 10YR 6/2	Pale yellowish brown 10YR 6/2	Pale yellowish brown 10YR 6/2

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Denning Mill & Mill Tailings Closeout Plan	Exposed Tailings Delineation Study by Test Priting Geo Southwest, UP, PD Box 352, Subertan, TX 79357	Pit Number:	Ganshir 3	C 00000 .			ないに、このでも思いいのかいの	2	2 3		5	6		89					3 14	15					<u>б</u>
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Tailings Closeout Plan	ation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 3	Date Excavated: 4/21/2022	Description/Remarks	Loosely cemented fine sand forming 10	mm sand concretions with root fragments.	Ph sample: GeoSW3-1		Interbedded loosely cemented light gray	and brack incording particul same writing of	Ph sample: GeoSW3-2			Well cemented sandstone comprised of tailings. To hard to dig with backhoe. A	second pit was excavated 20 feet to the north where the same hard well	cemented tailings were intersected.	Further study revealed that the cementing agent is gypsum.		2	Ph sample: GeoSW3-3				
R Mill	Deline	by: und	Tring:		Depth Inches	1	-	2	ŝ	4	S	9	7	00	6	10	11	12	13	14	15	16	17	18	19
8 IliN gr	ailings L	Logged L G. Rosenh	Photo Bed	16/6	Grain Size	Fine sand				Medium	sand				fine sand										
Demi	xposed 1	d Geologic	177 (ca		Homogeneity Sorting	Poorly sorted				Well Sorted					Very well sorted										
	ч	Integrate	NAISC		Munsell Rock Color	Moderate	orange	8/4		N1 Black	light gray				Dark vellowish	orange 10YR 6/6									

Demine Mai & Mai Talings Consent Han Depend Talings Delineation Study by Tear Panie Devisional Study by Tear Panie	Amounter Life (20 Bas 322, Silvertan, 1% 1923) Amin 2022	rtt number:	Gencini A		「「「「「「「「「「「」」」」」」「「「「」」」」」」」		and a state of the		1		A A A A A A A A A A A A A A A A A A A		A A A A A A A A A A A A A A A A A A A	「「「「「「「「「「「」」」									16		18	19	20		23		25		7	29 8		31 3	3332	3334	S
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Mill Trilings Closenut Plan	elineation Study by Test Pitting	PIT WALL LOG		PIT NUMBER: GeoSW 4	Date Excavated: 4/21/2022	Description/Remarks	Tailings, fine sand, weakly cemented. No Gypsum	Ph sample: GeoSW 4-1		Fine sand with minor fine gravel. Very little or no	gypsum.		Ph sample: GeoSW4-2					Fine sand with minor fine gravel, graded bedding											Ph sample: GeoSW4-3										
Mill &	ngs De	d by:	enlund	earing:	1	e Depth Inches	1	2	m	4	v v		- 00	6	10	11	12	13	14	15	16	17	18	19	20	17	77	62	32	26	27	28	29	30	31	32	34	35	36
mina	d Taili	Logge	G. Ros	Photo E		Grain Siz	Fine Sand			Fine Sand	gravel 109	0						Fine Sand	80%,	Coarse	Sand &	PINE grav	0/07																
°C	Expose	d Geologic	es. LLC	1		Homogeneity Sorting	Moderately	Sorted		Well Sorted								Well Sorted																					
		Integrated	Servic			Munsell Rock Color	Dk yellowish	orange 10yr	p/7	Moderate	yellowish brown 10VB	5/4				_		Moderate	Yellowish	Brown 10YR	5/4												_			_			





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Deening Mill & Mill Tailings Closeout Plan Exposed Tailings Delineation Study by Tess Pitting Geo Southwest, U, PO Box SSS Seasons	April 2022	Pit Number:	GeoSW 7												9				3	15 15 4	16	17 17	21	27 27	21	222	3 2 24	25	22,26	7 28	29 3	31	3332	334	36
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Mill Tailings Closeout Plan	elineation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 7	Date Excavated: 4/19/2022	Description/Remarks	Sandy Soil with minor organics				Lenticular sandy gravel	T				Lenticular sand showing bedding pattern from stream					-	-	-							T						
Nill &	Igs D	d by:	earing:	1	Depth Inches	1	2	Ω,	4 I	n v	r r	00	6	10	11	71	14	5	16	17	18	AT UC	21	22	23	25	26	27	28	30	31	32	34	35	36
ming /	d Tailin	Logge G. Rose	Photo B.	TA	Grain Size	Medium	sand			to coarse	gravel				Find Sand	ann of	5																		
De	Expose	d Geologic	Ses, LLC		Homogeneity Sorting	Well sorted				Poorly sorted					Well sorted																				
		Integrate	Servic		Munsell Rock Color	Medium	yellowish	brown 10YR		vellowish	brown 10YR	5/4			Medium	brown 10VD	5/4																		

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Deming Mill & Mill Tailings Obsecut Plan Exposed Tailings Definention 64-4-4-4	Geo Southwest, LP, PO Box 352, Sliverton, TX 39257 Anni Yoon 2010 1000 1000 1000 1000 1000	Pit Number:	C.000110	A MCOAD	<u>.</u>				4 9 1	6 0	7 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11	13 13 13			3 14	15	17 6	21	22	23 53	24	2312		26	27 1	228	9 30	31 3	3332	33 34	36
						Hd		6.42																								
	Mill Tailings Closeout Plan	clineation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 8	Date Excavated: 4/19/2022	Description/Remarks	Fine to medium grained soil with abundant root masses	Ph sample: GeoSW8-1	Fine sand and fine gravel				Gravel/coarse sand lends	Massive fine sand bed										Stream bed deposited fine sand and fine gravel								
	Nill &	ngs De	d by:	earing:	S F	Depth Inches	1 2	2 4 G	6 7	80	10	11	12 13	14	15	16 17	18	19	21	22	23	24	2	27	28	29	30	31	32	34	35	36
	ming A	d Taili	Logge G. Rose	Photo B	NX	Grain Size	Medium fine sand	medium gravel 20%	Fine sand 80% fine	gravel 20%			Med Grave	fine sand	95%									Fine sand	50% Fine	gravel 50%						
	De	Expose	d Geologic	es, LLL		Homogeneity Sorting	Poorly sorted		Well sorted				Poorly sorted	verv well	sorted									Poorly sorted								
			Integrated	Service		Munsell Rock Color	Moderate yellowish	5/4	Moderate yellowish	brown 10YR	+/c		Very Lt Gray	Moderate	yellowish	brown 10YR 5/4								Moderate	yellowish	brown 10YR	5/4					



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				3	H				6.26													6.65										11										
ailings Closeout Plan	tion Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 22	Date Excavated: 4/21/2022	Description/Remarks	Sand with abundant root fragments	occasional spots of tailings		Ph sample: GeoSW22-1				Sand with root fragments								Dh camile: GenSM77-7											Bedded sand showing bands of	deposition						Thir lithology autonds to 40 juring	hims munology exterios to 40 munes and beyond		
lill 7	inea	:A	ing:		Depth Inches	1	2	m	4	S	9	7	00	σ	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	
Mill & N	ings Del	Logged b G. Rosenlu	Photo Bea	1 70 1	Grain Size	Fine	grained	95% fine	gravel 5%				Fine	grained	95% fine	gravel 5%	_					3										fine	grained									
Deming	posed Tail	d Geologic	es, LLC	307	Homogeneity Sorting	Moderately	well sorted						Moderately	sorted																		Well sorted										
	EX	Integrate	Servic		Munsell Color	Pale	yellowish	brown 10YR	6/2				Pale	yellowish	brown 10YR	7/9																Pale	yellowish	brown 10YR	6/2							

	the second se								P			「「「「「「「「「「「「「「「」」」」												Carlo Arrah	「「「「「「「「「「「「」」」」		A lost of the second of the					
	GeoSW 23							and a state of the		5					9					15		7-18	119 20	21	2:22	3 E :	25 26	27 23	29 3	31 0 322	33	35 83
	101				-	1	3	4	5	9	8	6	10	11	12	13	15	16	17	19 19	20	22	23	24	26	27	29	30	31 37	33	34 35	36
lings Closeout Plan	on Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW23	Date Escavated: 4/21/2022	Description/Remarks PH	Bed of silt covering the surface	Ph sample: GeoSW23-1 6.79			sand with minor gravel peoples.																						
& Mill Tai	Delineativ	Agged by: Rosenlund	to Bearing:		Size Depth Inches	1	3	4	<u>،</u>	and b	00	10% 9	10	11	12	13	15	16	17	18 19	20	22 22	23	24	26	27	87 50	30	31 37	33	35	36
lliM gr	ailings	ic Ic G.	Phot		seity Grain	Silt				PO% CC	to fine	gravel																				+
Demir	Dosed T	ed Geologi	Les, LLC		Homogen	Very well				sorted																						
	EXI	Integrate	IN JOC		Munsell Rock Color	Very pale	8/2			vellowish	brown 10YR	6/2																				

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	9				F	_	44	0.0					_	6.8					+																			
ilings Closeout Plan	ion Study by Test Pittin	PIT WALL LOG	PIT NUMBER: GeoSW 24	Date Excavated: 4/21/2022	Description/Remarks	Sandy soil with abundant roots		Ph Sample: GeoSW24-1		Sand with root fragments				Ph Sample: GeoSW24-2						Bedded lenses of sand and gravel																		
ill Ta	neat	y: ind	ring:	24	Depth	1	2	3	4	5	9	-	0 0	20	9	II	12	13	+T	15	16	11	18	FI	20	22	23	24	25	26	28	29	30	31	32	34	35	2
Mill & M	ings Deli	Logged b G. Rosenh	Photo Bea		Grain Size	fine sand				Fine	grained	95% TINE	000 0000				_		1	Fine	grained		gravel															
Deming	posed Tail	d Geologic	Ces, LLU		Homogeneity	Well sorted				Well sorted										Poorly sorted																		
	EXI	Integrate	DIAJac		Munsell Rock Color	Moderate	Pink 5R 7/4			Pale	yellowish	brown JUYK	- 10							Medium	yellowish brown 10VD		+/c															

Pit logs and photographs – Area north of the Cypress Tailings (CYP N).

Pits Included:

GEOSW 26

GEOSW 27

GEOSW 28

			GeoSW 26								Part of the second seco	10				7 19 21 23 E 18 20 22 24	25 27 25 26 28		
					H	1	m s	1 10	9 r	~ 00	6	10	11	13	15	18 19 20 22 23 24 25	6.84 26 23 29 29	30 31 33 33	34 35 36
ailings Closeout Plan	tion Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 26	Date Escavated: 4/21/2022	Description/Remarks	Sandy soil with abundant roots.					Ph sample: GeoSW26-1 Interval = 0 to 17 t inches		Fine sand and gravel			depositional lines of bedding.	Ph sample: GeoSW26-2		This lithology continues to 48 inches and beyond.
Mill To	lineat	by:	aring: E	4	Depth Inches	1	ه «	1 IN	9	00	6	10	11 12	13 14	15 16	18 19 20 21 22 23 23 24 24	26 27 28 28 29	30 31 32 33	34 35 36
Mill &	ings De	Logged G. Roser	Photo Be	OT N	Grain Size	Fine sand							Fine sand 70% Fine	gravel 30%					
Deming	posed Tail	d Geologic	SS, LLC		Homogeneity Sorting	Poorly sorted							Poorly sorted						
	EX	Integrated	Service		Munsell Rock Color	Moderate yellowish	brown 10YR 5/4						Pale yellowish	brown 10YR 6/2	8	yellowish brown 10YR 6/2			

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iill & Mill Tailings Closeout Plan	& Mill Tailings Closeout Plan Delineation Study by Test Pitting	PIT WALL LOG	PIT NUMBER: GeoSW 27	Date Excavated: 4/2//2022 Description/Remarks		Sandy soil with roots. May contrain some tailings as evidenced by occasional reddish clusters. Ph sample: GeoSW27-1	Bedded fine sand showing layers of deposition Ph sample: GeoSW27-2	Massive sandy claystone Ph sample: GeoSW27-3 interval = 30 to 48 inches This lithology continues to 48 inches and beyond
in Mi	ailing	iy: und	ng: P	Dept 2	<u>ء</u>	- <u>1</u> 0 0 - 1	∞	୍ଷ <mark>ଅଷ୍ଟ ଅଷ୍ଟ ଅଷ୍ଟ ଅଷ୍ଟ ଅଷ୍ଟ ଅଷ୍ଟ ଅଷ୍ଟ</mark> ଅଭ
Demir	posed T	Logged I G. Rosenk	Photo Bean N 25 E	Grain	Size			
	E	d Geologic	177 ft ft ft	Homogenei	` <i>B</i>	Wellsorted	Well sorted	Well sorted
		Integrated	DIVIDE	Munsell	Rock Color	Moderate yellowish 5/4	Pale brown SYR 572	Pale yellowish brown 10YR 6/2



pH Test logs for all samples

Area north of the Mimbres River (N RIV BK)

Study Area	Sample No.	Date Collected	Gross Sample Weight (gr)	Tested Sample Portion Wt.	H2O Added Wt. (gr)	Sample Prep. Date	Sample Prep. Time	Ph Meter Calibration Date	Ph Meter Calibration Time	Date of Ph Test	Time of Ph Test
N RIV BK	GEOSW11-1	4/20/2022	292	<mark>(gr)</mark> 152	150	4/20/2022	8:50 PM	4/30/2022	12:47 PM	4/30/2022	1:44 PM
N RIV BK	GEOSW11-2	4/20/2022	268	150	151	4/20/2022	9:09 PM	4/30/2022	12:47 PM	4/30/2022	1:47 PM
N RIV BK	GEOSW11-3	4/20/2022	350	152	150	4/20/2022	9:31 PM	4/30/2022	12:47 PM	4/30/2022	1:49 PM
N RIV BK	GEOSW12-1	4/20/2022	476	151	151	4/20/2022	9:45 PM	4/30/2022	12:47 PM	4/30/2022	1:53 PM
N RIV BK	GEOSW13-1	4/20/2022	600	150	150	4/20/2022	9:57 PM	4/30/2022	12:47 PM	4/30/2022	1:56 PM
N RIV BK	GEOSW14-1	4/20/2022	435	150	150	4/27/2022	3:51 PM	4/30/2022	12:47 PM	4/30/2022	2:00 PM
N RIV BK	GEOSW15-1	4/20/2022	557	150	150	4/27/2022	5:21 PM	4/30/2022	12:47 PM	4/30/2022	2:16 PM
N RIV BK	GEOSW16-1	4/20/2022	347	150	150	4/27/2022	5:05 PM	4/30/2022	12:47 PM	4/30/2022	2:20 PM
N RIV BK	GEOSW16-2	4/20/2022	528	150	150	4/27/2022	5:12 PM	4/30/2022	12:47 PM	4/30/2022	2:33 PM
N RIV BK	GEOSW18-1	4/20/2022	512	150	150	4/27/2022	4:09 PM	4/30/2022	2:39 PM	4/30/2022	2:42 PM
N RIV BK	GEOSW19-1	4/20/2022	324	150	160	4/27/2022	4:22 PM	4/30/2022	2:39 PM	4/30/2022	2:44 PM

Area along the Mimbres River (RIV BK)

Study Area	Sample No.	Date Collected	Gross Sample Weight (gr)	Tested Sample Portion Wt. (gr)	H2O Added Wt. (gr)	Sample Prep. Date	Sample Prep. Time	Ph Meter Calibration Date	Ph Meter Calibration Time	Date of Ph Test	Time of Ph Test
RIV BK	GEOSW17-1	4/20/2022	426	150	153	4/27/2022	4:39 PM	4/30/2022	12:47 PM	4/30/2022	2:37 PM
RIV BK	GEOSW17-2	4/20/2022	477	151	150	4/27/2022	4:47 PM	4/30/2022	12:47 PM	4/30/2022	2:29 PM
RIV BK	GEOSW17-3	4/20/2022	452	150	151	4/27/2022	4:55 PM	4/30/2022	12:47 PM	4/30/2022	2:31 PM
RIV BK	GEOSW29-1	4/20/2022	675	150	153	4/27/2022	3:46 PM	4/30/2022	2:39 PM	4/30/2022	3:25 PM
RIV BK	GEOSW29-2	4/20/2022	503	150	150	4/27/2022	3:56 PM	4/30/2022	2:39 PM	4/30/2022	3:27 PM

Mid Flat Area (MID FLAT)

Study Area	Sample No.	Date Collected	Gross Sample Weight (gr)	Tested Sample Portion Wt.	H2O Added Wt. (gr)	Sample Prep. Date	Sample Prep. Time	Ph Meter Calibration Date	Ph Meter Calibration Time	Date of Ph Test	Time of Ph Test
Mid Flat	GEOSW1-1	4/21/2022	685	150	151	4/27/2022	6:36 PM	4/30/2022	12:47 PM	4/30/2022	12:51 PM
Mid Flat	GEOSW2-1	4/21/2022	559	150	154	4/27/2022	5:42 PM	4/30/2022	12:47 PM	4/30/2022	12:55 PM
Mid Flat	GEOSW2-2	4/21/2022	677	150	152	4/27/2022	5:50 PM	4/30/2022	12:47 PM	4/30/2022	1:00 PM
Mid Flat	GEOSW3-1	4/21/2022	556	150	151	4/27/2022	6:54 PM	4/30/2022	12:47 PM	4/30/2022	1:08 PM
Mid Flat	GEOSW3-2	4/21/2022	508	150	152	4/27/2022	7:01 PM	4/30/2022	12:47 PM	4/30/2022	1:10 PM
Mid Flat	GEOSW3-3	4/21/2022	1204	150	150	4/27/2022	8:00 PM	4/30/2022	12:47 PM	4/30/2022	1:15 PM
Mid Flat	GEOSW4-1	4/19/2022	313	150	150	4/19/2022	9:51 PM	4/20/2022	6:33 AM	4/20/2022	6:37 AM
Mid Flat	GEOSW4-2	4/19/2022	416	150	151	4/19/2022	10:06 PM	4/20/2022	6:33 AM	4/20/2022	6:41 AM
Mid Flat	GEOSW4-3	4/19/2022	551	150	150	4/19/2022	10:21 PM	4/20/2022	6:33 AM	4/20/2022	6:45 AM
Mid Flat	GEOSW5-1	4/19/2022	370	150	150	4/19/2022	10:51 PM	4/20/2022	6:33 AM	4/20/2022	6:57 AM
Mid Flat	GEOSW5-2	4/19/2022	363	150	150	4/19/2022	11:03 PM	4/20/2022	6:33 AM	4/20/2022	7:02 AM
Mid Flat	GEOSW6-1	4/21/2022	584	150	151	4/27/2022	2:35 PM	4/30/2022	12:47 PM	4/30/2022	1:20 PM
Mid Flat	GEOSW6-2	4/21/2022	654	150	150	4/27/2022	2:48 PM	4/30/2022	12:47 PM	4/30/2022	1:23 PM
Mid Flat	GEOSW7-1	4/19/2022	415	150	150	4/19/2022	10:21 PM	4/20/2022	6:33 PM	4/20/2022	6:48 PM
Mid Flat	GEOSW8-1	4/19/2022	608	152	150	4/19/2022	10:42 PM	4/20/2022	6:33 PM	4/20/2022	6:53 PM
Mid Flat	GEOSW9-1	4/21/2022	603	150	150	4/27/2022	2:12 PM	4/30/2022	12:47 PM	4/30/2022	1:35 PM
Mid Flat	GEOSW9-2	4/21/2022	662	150	152	4/27/2022	12:26 PM	4/30/2022	12:47 PM	4/30/2022	1:28 PM
Mid Flat	GEOSW22-1	4/21/2022	660	156	155	4/27/2022	2:57 PM	4/30/2022	2:39 PM	4/30/2022	2:48 PM
Mid Flat	GEOSW22-2	4/21/2022	690	156	157	4/27/2022	3:03 PM	4/30/2022	2:39 PM	4/30/2022	2:50 PM
Mid Flat	GEOSW23-1	4/21/2022	592	150	150	4/27/2022	6:28 PM	4/30/2022	2:39 PM	4/30/2022	2:54 PM
Mid Flat	GEOSW24-1	4/21/2022	712	150	151	4/27/2022	3:10 PM	4/30/2022	2:39 PM	4/30/2022	2:57 PM
Mid Flat	GEOSW24-2	4/21/2022	749	150	151	4/27/2022	3:16 PM	4/30/2022	2:39 PM	4/30/2022	3:00 PM

Area north of Cypress	s Tailings (CYP N)

Study Area	Sample No.	Date Collected	Gross Sample Weight (gr)	Tested Sample Portion Wt. (gr)	H2O Added Wt. (gr)	Sample Prep. Date	Sample Prep. Time	Ph Meter Calibration Date	Ph Meter Calibration Time	Date of Ph Test	Time of Ph Test
CYP N	GEOSW26-1	4/21/2022	725	150	150	4/27/2022	3:27 PM	4/30/2022	2:39 PM	4/30/2022	3:05 PM
CYP N	GEOSW26-2	4/21/2022	606	150	153	4/27/2022	3:35 PM	4/30/2022	2:39 PM	4/30/2022	3:09 PM
CYP N	GEOSW27-1	4/21/2022	806	151	153	4/27/2022	5:58 PM	4/30/2022	2:39 PM	4/30/2022	3:12 PM
CYP N	GEOSW27-2	4/21/2022	734	152	153	4/27/2022	6:07 PM	4/30/2022	2:39 PM	4/30/2022	3:14 PM
CYP N	GEOSW27-3	4/21/2022	493	150	153	4/27/2022	6:16 PM	4/30/2022	2:39 PM	4/30/2022	3:17 PM
CYP N	GEOSW28-1	4/21/2022	658	151	152	4/27/2022	7:09 PM	4/30/2022	2:39 PM	4/30/2022	3:20 PM
CYP N	GEOSW28-2	4/21/2022	795	152	151	4/27/2022	7:16 PM	4/30/2022	2:39 PM	4/30/2022	3:20 PM