1A/1B Leach Stockpiles

Function	Ore stockpiles	
	Active	
Location Characteristics	No upstream issues	
	No downstream issues	
	Regional depth to groundwater:	
	• 1A/1C: 100 to 580 feet, direction of flow is NE and	
	Gettysburg Pit	
	• 1B: 100 to 250 feet, direction of flow is SE	
	Medium upwind fetch, limited downwind fetch	
	In Mimbres Basin drainage	
Construction Method	End dumped	
	Top surface bermed	
Physical Characteristics	Very coarse grained	
	Medium to high saturated hydraulic conductivity	
Leach Status	Currently leached	
Existing Engineering Measures	1A and 1B are addressed concurrently, interior slopes	
	inside of the OPSDA and waiver areas will not be	
	reclaimed	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	273.0
Item	Capital Cost
Cover Material	\$1,262,102
Pullback or Backfill	-
Top/Outslope Adjustment	\$137,653
Revegetation	\$224,943
Channels and Benches	\$1,974,383
Other	-
Capital Cost Totals	\$3,599,081
Capital Cost/Acre	\$13,183



2A/2B Leach and 2B Waste Stockpiles

Function	Ore stockpiles (2A and 2B leach)	
	Waste rock stockpile (2B waste)	
Location Characteristics	No upstream issues	
	Major channel along outslopes (i.e., Deadman Canyon)	
	Regional depth to groundwater is approximately 500 feet,	
	direction of flow is E-NE	
	Medium upwind fetch, medium downwind fetch	
	Interior slopes are inside of OPSDA and waiver areas	
Construction Method	End dumped	
	Top surface bermed	
Physical Characteristics	Very coarse grained	
	Medium to high saturated hydraulic conductivity	
Leach Status	Currently leached (2A leach)	
	Non-leach (2B waste)	
Existing Engineering Measures	PLS collection system to be maintained, and seepage	
	collection system to be maintained or modified to	
	accommodate new footprint	
	Stormwater controls	
	Interior slopes of 2A Stockpile inside of the OPSDA and	
	waiver areas will be reclaimed, interior slopes of 2B	
	Stockpile inside of the OPSDA and waiver areas will not be	
	reclaimed	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	487.0
Item	Capital Cost
Cover Material	\$3,231,529
Pullback or Backfill	_
Top/Outslope Adjustment	\$2,732,058
Revegetation	\$401,266
Channels and Benches	\$3,769,644
Other	-
Capital Cost Totals	\$10,134,497
Capital Cost/Acre	\$20,810



2C, 4A, 4B, and 7B Leach Stockpiles

Function	Ore stockpiles	
Location Characteristics	No upstream issues	
	Regional depth to groundwater is approximately 500 feet,	
	direction of flow is E-NE	
	Medium upwind fetch, medium downwind fetch	
	Interior slopes are inside of OPSDA and waiver areas / open	
	pit	
Construction Method	End dumped	
	Top surface bermed	
Physical Characteristics	Very coarse grained	
	Medium to high saturated hydraulic conductivity	
Leach Status	Currently leached	
Existing Engineering Measures	Interior slopes of 2C and 4A stockpiles inside of the	
	OPSDA and waiver areas will not be reclaimed; slopes of	
	all other stockpiles and stockpile areas will be reclaimed	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	375.0
Item	Capital Cost
Cover Material	\$2,488,386
Pullback or Backfill	-
Top/Outslope Adjustment	\$727,232
Revegetation	\$308,988
Channels and Benches	\$1,402,817
Other	-
Capital Cost Totals	\$4,927,423
Capital Cost/Acre	\$13,140

3A Leach Stockpile and 3B Waste Stockpile

Function	Ore stockpile	
Location Characteristics	No upstream issues	
	No downstream issues	
	Regional depth to groundwater is approximately 100 to	
	350 feet, direction of flow is toward Main Pit and into Gila	
	River Basin to existing perched and regional collection	
	systems	
	Medium upwind fetch, medium downwind fetch	
	In Gila River Basin drainage	
Construction Method	End dumped	
	Top surface bermed	
Physical Characteristics	Very coarse grained	
	Medium to high saturated hydraulic conductivity	
Leach Status	Currently leached	
Existing Engineering Measures	PLS collection system, seepage collection system (to be	
	relocated before regrading), existing regional and perched	
	zone collection systems	
	Interior slopes of 3B Stockpile inside of the OPSDA and	
	waiver areas will not be reclaimed; slopes of all other	
	stockpiles and stockpile areas will be reclaimed	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	455.0
Item	Capital Cost
Cover Material	\$2,852,290
Pullback or Backfill	\$15,627,400
Top/Outslope Adjustment	\$1,383,464
Revegetation	\$374,906
Channels and Benches	\$2,966,801
Other	\$1,733,627
Capital Cost Totals	\$24,938,487
Capital Cost/Acre	\$54,810



4C Leach Stockpile

Function	Ore stockpile	
Location Characteristics	No upstream issues	
	No downstream issues	
	Regional depth to groundwater is less than 50 feet,	
	direction	
	of flow is NE	
	Medium upwind fetch, medium downwind fetch	
Construction Method	End dumped	
Physical Characteristics	Very coarse grained	
	Medium to high saturated hydraulic conductivity	
Leach Status	Currently leached	
Existing Engineering Measures	PLS collection system	
	Seepage collection system	

Matrix of Costs Capital Cost/Facility¹

183.0
Capital Cost
\$1,338,660
-
\$847,618
\$150,786
\$1,396,231
-
\$3,733,295
\$20,401

5A Waste/Overburden Stockpile

Function	Overburden and waste stockpile	
Location Characteristics	No upstream issues	
	No downstream issues	
	Regional depth to groundwater is greater than 400 feet,	
	direction of flow is towards Main Pit	
	Medium upwind fetch, limited downwind fetch	
	Portions of interior slopes within OPSDA and waiver areas	
Construction Method	End dumped	
Physical Characteristics	Coarse to very coarse grained	
	Medium to high saturated hydraulic conductivity	
Leach Status	Non-leach	
Existing Engineering Measures	Stormwater controls	
	Portion of interior slopes within OPSDA and waiver areas	
	will not be reclaimed	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	371.0
Item	Capital Cost
Cover Material	\$1,528,495
Pullback or Backfill	-
Top/Outslope Adjustment	\$2,413,902
Revegetation	\$305,692
Channels and Benches	\$1,538,580
Other	-
Capital Cost Totals	\$5,786,669
Capital Cost/Acre	\$15,597



6B Leach Stockpile

Function	Ore stockpile	
Location Characteristics	No upstream issues	
	No downstream issues	
	Regional depth to groundwater is approximately 500 feet,	
	direction of flow is toward Gettysburg Pit and Main Pit	
	Medium upwind fetch, medium downwind fetch	
	Within the OPSDA and waiver areas	
Construction Method	End dumped	
Physical Characteristics	Very coarse grained	
	Medium to high saturated hydraulic conductivity	
Leach Status	Currently leached	
Existing Engineering Measures	Stormwater controls	
	Slopes inside of the OPSDA and waiver areas will not be	
	reclaimed	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	54.0
Item	Capital Cost
Cover Material	\$276,817
Pullback or Backfill	-
Top/Outslope Adjustment	\$33,631
Revegetation	\$44,494
Channels and Benches	\$326,391
Other	-
Capital Cost Totals	\$681,333
Capital Cost/Acre	\$12,617



6C Leach Stockpile

Function	Ore stockpile	
Location Characteristics	Former Gettysburg In-Pit Stockpile	
	No upstream issues	
	No downstream issues	
	Regional depth to groundwater is approximately 500 feet,	
	direction of flow is toward Gettysburg Pit	
	Medium upwind fetch, medium downwind fetch	
	Interior slopes within the OPSDA and waiver areas / open	
	pit	
Construction Method	End dumped	
Physical Characteristics	Very coarse grained	
	Medium to high saturated hydraulic conductivity	
Leach Status	Currently leached	
Existing Engineering Measures	Stormwater controls	
	Interior slopes within the OPSDA and waiver areas will	
	not be reclaimed	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	66.0
Item	Capital Cost
Cover Material	\$371,540
Pullback or Backfill	-
Top/Outslope Adjustment	\$161,388
Revegetation	\$54,382
Channels and Benches	\$326,701
Other	-
Capital Cost Totals	\$914,011
Capital Cost/Acre	\$13,849

8C Stockpile

Function	Waste Rock Stockpile	
Location Characteristics	Inside Main Pit, former Main Pit Stockpile	
	No upstream issues	
	No downstream issues	
	Regional depth to groundwater is 1200 feet below the current stockpile surface, Main Pit collects groundwater within pit	
	sump	
	Limited upwind fetch, limited to downwind fetch	
	Located within OPSDA and waiver areas	
Construction Method	End dumped	
Physical Characteristics	In-pit dumping	
	Medium to high saturated hydraulic conductivity	
Leach Status	Non-leach	
Existing Engineering Measures	Stormwater controls	
	Only top surface will be reclaimed	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	47.4
Item	Capital Cost
Cover Material	\$197,479
Pullback or Backfill	-
Top/Outslope Adjustment	\$8,774
Revegetation	\$39,023
Channels and Benches	-
Other	-
Capital Cost Totals	\$245,276
Capital Cost/Acre	\$5,179

9A Overburden Stockpile

Function	Overburden stockpile	
Location Characteristics	No upstream issues	
	No downstream issues	
	Regional depth to groundwater is approximately 100 to	
	350 feet, direction of flow is toward Main Pit and into Gila	
	River Basin	
	Medium upwind fetch, medium downwind fetch	
	NW portion of stockpile is in Gila River Basin drainage	
Construction Method	End dumped at initial 3 to 1 slope	
Physical Characteristics	Very coarse grained	
	Medium to high saturated hydraulic conductivity	
Leach Status	Non-leach	
Existing Engineering Measures	Stormwater controls	

Matrix of Costs Capital Cost/Facility¹

ost
2
1
4



9AX Overburden Stockpile

Function	Overburden stockpile	
Location Characteristics	No upstream issues	
	No downstream issues	
	Regional depth to groundwater is approximately 100 to	
	350 feet, direction of flow is toward Main Pit and into Gila	
	River Basin	
	Medium upwind fetch, medium downwind fetch	
	NW portion of stockpile is in Gila River Basin drainage	
Construction Method	End dumped at initial 3 to 1 slope	
Physical Characteristics	Very coarse grained	
	Medium to high saturated hydraulic conductivity	
Leach Status	Non-leach	
Existing Engineering Measures	Stormwater controls	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	63.7
Item	Capital Cost
Cover Material	\$115,945
Pullback or Backfill	-
Top/Outslope Adjustment	\$193,129
Revegetation	\$52,487
Channels and Benches	\$118,553
Other	\$4,271
Capital Cost Totals	\$484,385
Capital Cost/Acre	\$7,604
Costs are based on Telesto Solutions Inc. Forthwork Cost Estimate dated May 2010	



Savanna Pit

Function	Mined pit	
Location Characteristics	No upstream issues	
	No downstream issues	
	Main Pit and Gettysburg Pit dewatering capture zone	
	controls regional groundwater level and flow direction	
Construction Method	Blasting, shoveling, and hauling rock in 50-foot benches	
Physical Characteristics	Solid, intrusive, and skarn rocks with low primary	
	permeability and medium fracture permeability	
Leach Status	Not applicable	
Existing Engineering Measures	Pit dewatering contains regional groundwater	
	All perimeter runon bermed	
	Partially backfilled with Savanna In-Pit Leach Stockpile as	
	part of mine plan (EOY 2014); costs included for	
	reclamation of the interior flat area and some interior slopes	
	of Savanna In-Pit Leach Stockpile	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	65.0
Item	Capital Cost
Cover Material	\$271,033
Pullback or Backfill	_
Top/Outslope Adjustment	\$23,522
Revegetation	\$53,558
Channels and Benches	-
Other	-
Capital Cost Totals	\$348,113
Capital Cost/Acre	\$5,356



San Salvador Pit

Function	Mined pit	
Location Characteristics	No upstream issues	
	No downstream issues	
	Main Pit and Gettysburg Pit dewatering capture zone	
	controls regional groundwater level and flow direction	
Construction Method	Blasting, shoveling, and hauling rock in 50-foot benches	
Physical Characteristics	Solid, intrusive, and skarn rocks with low primary	
	permeability and medium fracture permeability	
Leach Status	Not applicable	
Existing Engineering Measures	Pit dewatering contains regional groundwater	
	All perimeter runon bermed	
	Partially backfilled as part of mine plan (EOY 2014); costs	
	included for reclamation of the backfilled interior flat area	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	115.0
Item	Capital Cost
Cover Material	\$736,297
Pullback or Backfill	\$2,896,038
Top/Outslope Adjustment	\$360,482
Revegetation	\$94,756
Channels and Benches	\$551,972
Other	-
Capital Cost Totals	\$4,639,545
Capital Cost/Acre	\$40,344



Exploration Holes, Monitoring & Extraction Wells

Function	Exploration, Monitoring, Extraction
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	-
Item	Capital Cost
Cover Material	-
Pullback or Backfill	-
Top/Outslope Adjustment	-
Revegetation	-
Channels and Benches	-
Other	\$1,758,065
Capital Cost Totals	\$1,758,065
Capital Cost/Acre	-



Fencing, Signs, and Vehicle Gates Around Pits

Function	N/A	
Location Characteristics	Pit perimeters (Main, Savanna, Gettysburg, and Copper	
	Mountain Pits)	
Construction Method	N/A	
Physical Characteristics	N/A	
Leach Status	N/A	
Existing Engineering Measures	N/A	

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	-
Item	Capital Cost
Cover Material	-
Pullback or Backfill	-
Top/Outslope Adjustment	-
Revegetation	-
Channels and Benches	-
Other	\$1,343,904
Capital Cost Totals	\$1,343,904
Capital Cost/Acre	-



Demolition (including Pipeline Closures)

Function	Pipeline closures; demolition of electrical infrastructure, buildings, fire hydrants, and Tailing Launder Line culverts and steel trestle
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	Pipelines (HDPE process water, PLS, and raffinate during operational phase and during PSE system operation and water treatment); above-ground electrical lines, power poles, telephone lines, fire hydrants, buildings and associated structures/facilities, and Tailing Launder Line culverts and steel trestle
Leach Status	N/A
Existing Engineering Measures	N/A

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	-
Item	Capital Cost
Cover Material	-
Pullback or Backfill	-
Top/Outslope Adjustment	-
Revegetation	-
Channels and Benches	-
Other (Demolition)	\$5,040,149
Capital Cost Totals	\$5,040,149
Capital Cost/Acre	-



1C Top (Haul Road)

Function	Haul Road
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	17.0
Item	Capital Cost
Cover Material	\$95,723
Pullback or Backfill	_
Top/Outslope Adjustment	-
Revegetation	\$14,011
Channels and Benches	-
Other	-
Capital Cost Totals	\$109,734
Capital Cost/Acre	\$6,453



Surface Impoundments

Function	Water Management
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	21.7
Item	Capital Cost
Cover Material	\$118,435
Pullback or Backfill	_
Top/Outslope Adjustment	\$7,405
Revegetation	\$17,888
Channels and Benches	-
Other	-
Capital Cost Totals	\$143,729
Capital Cost/Acre	\$6,620



Tailing Launder Line Tailing Dam 1 Reclaim Water Pumphouse Tailing Repositories Borrow Areas

Function	Reclamation of areas associated with past tailing management; tailing repositories borrow areas
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	183.5
Item	Capital Cost
Cover Material	\$256,620
Pullback or Backfill	-
Top/Outslope Adjustment	\$21,047
Revegetation	\$73,419
Channels and Benches	\$6,974
Other	\$234,184
Capital Cost Totals	\$592,245
Capital Cost/Acre	\$3,227



Seep 5E Collection System

Function	Water Management
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	-
Item	Capital Cost
Cover Material	-
Pullback or Backfill	-
Top/Outslope Adjustment	-
Revegetation	-
Channels and Benches	-
Other	\$133,356
Capital Cost Totals	\$133,356
Capital Cost/Acre	_



Unplanned Disturbance Area

Function	Unforeseen changes to the mine plan including but not limited to small staging areas, utility corridors, haul roads, pull-offs, stockpile expansions, or other miscellaneous facilities
Location Characteristics	Mine Area
Construction Method	N/A
Physical Characteristics	N/A
Leach Status	N/A
Existing Engineering Measures	N/A

Matrix of Costs Capital Cost/Facility¹

Reclaimed Area (Acres)	125.0
Item	Capital Cost
Cover Material	\$697,333
Pullback or Backfill	-
Top/Outslope Adjustment	\$8,040
Revegetation	\$102,996
Channels and Benches	-
Other	-
Capital Cost Totals	\$808,369
Capital Cost/Acre	\$6,467

