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Underground Mine					Unit	Price	Total	Changes		Underground Mine					Unit	Price	Total
Control Access										Control Access							
Backfill Portal #1					1,000	\$ 7.60	\$ 7,600	No change		Backfill Portal #1					1,000	\$ 7.60	\$ 7,600
Cap Raise					5	\$ 85,656	\$ 428,280	No change		Cap Raise					5	\$ 85,656	\$ 428,280
Concrete Cap over open stope					2,500	\$ 14.20	\$ 35,500	Rate change 7.08 to 14.20 - difference of \$17,800		Concrete Cap over open stope					2,500	\$ 7.08	\$ 17,700
Crown Pillar Study					1	\$ 25,000	\$ 25,000	New item - difference of \$25,000 - no requirement for a study as LMI has the designs of the crown pillar and has already filled a portion using these designs		Crown Pillar Study							\$ -
Remove Hazardous Waste										Remove Hazardous Waste							
Remove Hazardous Waste UG Labour					20	\$ 500	\$ 10,000	No change		Remove Hazardous Waste UG Labour					1	\$ 10,000	\$ 10,000
Total							\$ 506,380	difference of \$42,800		Total							\$ 463,580

13	Tailings Impoundment				Unit	Price	Total		Changes		Tailings Impoundment				Unit	Price	Total	
14	Stabilize Embankment										Stabilize Embankment							
15		Rip Rap - Quarry Rock for Dam Resloping and Spillway	100,000	\$	17.80	\$	1,780,000		Rate change 16.41 to 17.80 - difference of \$139,000			Quarry Rock	100,000	\$	16.41	\$	1,641,000	
16	Cover Tailings										Cover Tailings							
17		Soil Cover 375,000 m2	375,000	\$	9.30	\$	3,487,500		Soil cover change from 301,660 to 375,000 (although orginally version stated this 301,660 m2 in description would cover the 375,000 m2) and rate change from 7.08 to 9.30 - difference of \$1,351,747			Soil Cover 375,000 m2	301,660	\$	7.08	\$	2,135,753	
18		Vegetate	50	\$	4,000	\$	200,000		No change			Vegetate	50	\$	4,000.00	\$	200,000	
19		Other - cover repair	20,000	\$	9.30	\$	186,000		Rate change from 7.08 to 9.30 - difference of \$44,400			Other - cover repair upgrade	20,000	\$	7.08	\$	141,600	
20	Remove Tailings Discharge										Remove Tailings Discharge							
21		Pipe	6,000	\$	57.33	\$	343,980		No change			Pipe	6,000	\$	57.33	\$	343,980	
22	Upgrade Spillway										Upgrade Spillway							
23		Excavaute Channel, Soil	30,600	\$	14.20	\$	434,520		No change			Excavaute Channel, Soil	30,600	\$	14.20	\$	434,520	
24		Rip Rap	20,000	\$	30.75	\$	615,000		Rate change from 28.37 to 30.75 - difference \$47,600			Rip Rap	20,000	\$	28.37	\$	567,400	
25		Geotextile	7,000	\$	3.44	\$	24,080		No change			Geotextile	7,000	\$	3.44	\$	24,080	
26	Specialized Items										Specialized Items							
27		Install permanent instruments supply and technican	1	\$	30,000	\$	30,000		No change			Install permanent instruments supply and technican	1	\$	30,000	\$	30,000	
28		install permanent instruments drilling	1	\$	30,000	\$	30,000		No change			install permanent instruments drilling	1	\$	30,000	\$	30,000	
29	Treatment Supernatant										Treatment Supernatant							
30		Equipment maintenance and parts	1	\$	100,000	\$	100,000		New item - difference of \$100,000			Equipment maintenance and parts				\$	-	
31	Annual treatment Costs										Annual treatment Costs							
32		Years	1	\$	100,000	\$	100,000		No change			Years	1	\$	100,000	\$	100,000	
33	Total						\$		7,231,080		Difference of \$1,582,747		Total				\$	5,648,333
34																		

Rock Pile			Unit	Price	Total	Changes	Rock Pile			Unit	Price	Total
36	Relocate Dumps							Relocate Dumps				
37		Load, Haul, Dump and Doze - m3	400,000	\$ 8.90	\$ 3,560,000	Rate change from 7.08 to 8.90 - difference of \$728,000			Load, haul, dump or doze	400,000	\$ 7.08	\$ 2,832,000
38	Other							Other				
39		Waste Rock Survery	100	\$ 200	\$ 20,000	No change			Waste Rock Survery	1	\$ 20,000	\$ 20,000
40	Total				\$ 3,580,000	Difference of \$728,000		Total				\$ 2,852,000
41												

42	Equipment and Buildings						Changes	Equipment and Buildings	Unit	Price	Total				
43	Building Decontamination and Haz Waste Removal							Building Decontamination and Haz Waste Removal							
44		Decontaminate - oil, fuel, glycol systems				\$	-	Rate change of 22.80 to 43.98 - difference of \$179,818 - previously included under buildings is now listed under chemicals - see line 117		Decontaminate - oil, fuel, glycol systems	8,490	\$	22.80	\$	193,572
45		Decontaminate offices/warehouse/ accommodations				\$	-		Rate change from 112.63 to 25.60 - difference of \$319,081 - unit change from 24,562 to 24,582 for difference of 20 - previously included under buildings is now listed under chemicals - see line 118		Decontaminate offices/warehouse/ accommodations	24,562	\$	12.63	\$
46	Remove Buildings							Remove Buildings							
47		Accommodation Complex	7,329	\$	128	\$	938,112	Less building m3 from 24,711 to 24,637 (difference of -71m3)- difference of (\$9,472) - see lines 46-67		Sleepers and Offices	7,329	\$	128	\$	938,112
48		Process Facilities	7,437	\$	128	\$	951,936			Hoist Room and Travel Ways	463	\$	128	\$	59,264
49		Offices, Repair, Lab and Warehouse	6,526	\$	128	\$	835,328			Shaft House	1,253	\$	128	\$	160,384
50		Water and Wastewater Treatment Facilities	177	\$	128	\$	22,656			Warehouse	4,671	\$	128	\$	597,888
51		AN Storage Facility	412	\$	128	\$	52,736			Mill	2,864	\$	128	\$	366,592
52		Warehouse, Shop and Other	2,756	\$	128	\$	352,768			Powerhouse	1,645	\$	128	\$	210,560
53		Fuel Tanks - tanks	8,490	\$	100	\$	849,000	Rate change from 91.57 to 100.00 - difference of \$71,571		Headframe	413	\$	128	\$	52,864
54		Fuel Tanks - piping	2,000	\$	72	\$	144,000	Rate change from 57.33 to 72.00 - difference of \$33,162		Airlock Building and Freshair Intake	366	\$	128	\$	46,848
55		Break Foundation slabs - total of all buildings	24,637	\$	6	\$	147,822	Rate change from 7.28 to 6.00 - difference of (\$32,074) - Less building m3 24,711 to 24,637 (difference of by -71m3) - see lines 68-90		Pastefill Plant	316	\$	128	\$	40,448
56		Consolidate and dump boneyard debris	1	\$	350,000	\$	350,000	No change - see line 99		Cold Storage 2 buildings	1,855	\$	128	\$	237,440
57		Other - isolate buildings	24,637	\$	12.63	\$	311,165	New item - difference \$311,165 - already included in the LMI estimate		Surface Mobile Shop	1,008	\$	128	\$	129,024

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Carpenter Shop m2	482	\$	128	\$	61,696
As Treatment Plant Building	177	\$	128	\$	22,656
Pumphouse	74	\$	128	\$	9,472
Explosives Storage	412	\$	128	\$	52,736
Fire house	31	\$	128	\$	3,968
Emergency Power House	117	\$	128	\$	14,976
Weather Station and Storage Buildings	566	\$	128	\$	72,448
Shop	379	\$	128	\$	48,512
Batch Plant	118	\$	128	\$	15,104
ATV Building	172	\$	128	\$	22,016
Break Basement Slabs					
Sleepers and Offices	7,329	\$	7.28	\$	53,355
Hoist Room and Travel Ways	463	\$	7.28	\$	3,371
Shaft House	1,253	\$	7.28	\$	9,122
Warehouse	4,671	\$	7.28	\$	34,005
Mill	2,864	\$	7.28	\$	20,850
Powerhouse	1,645	\$	7.28	\$	11,976
Headframe	413	\$	7.28	\$	3,007
Airlock Building and Freshair Intake	366	\$	7.28	\$	2,664
Pastefill Plant	316	\$	7.28	\$	2,300
Cold Storage 2 buildings	1,855	\$	7.28	\$	13,504
Surface Mobile Shop	1,008	\$	7.28	\$	7,338
Carpenter Shop m2	482	\$	7.28	\$	3,509
As Treatment Plant Building	177	\$	7.28	\$	1,289
Pumphouse	74	\$	7.28	\$	539
Explosives Storage	412	\$	7.28	\$	2,999
Fire house	31	\$	7.28	\$	226
Emergency Power House	117	\$	7.28	\$	852
Weather Station and Storage Buildings	566	\$	7.28	\$	4,120
Shop	379	\$	7.28	\$	2,759
Batch Plant	118	\$	7.28	\$	859
ATV Building	172	\$	7.28	\$	1,252
Remove Tanks and Pipes					
3 - 360,000 gallon tanks	1,638	\$	91.57	\$	149,992
7 - 350,000 gallon tanks	3,822	\$	91.57	\$	349,981
3 - 187,000 gallon tanks	1,020	\$	91.57	\$	93,401
6- 14,000 gallon tanks	390	\$	91.57	\$	35,712
11 - 20,000 gallon tank	1,540	\$	91.57	\$	141,018
2- 5,000 gallon tanks	80	\$	91.57	\$	7,326
Piping	2,000	\$	57.33	\$	114,660

98	Landfill for Demolition Waste																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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111	Chemicals		Unit	Price	Total	Changes	Chemicals	Unit	Price	Total
112	Hazardous Materials Audit						Hazardous Materials Audit			
113		Primarily an asbestos survey but also need chemical inv.	1	\$ 25,000	\$ 25,000	New Item - difference of \$25,000 - already included in the LMI estimate		Primarily an asbestos survey but also need chemical inv.		\$ -
114		Phase 1 Audit (see below contaminated soil)			\$ -	Not included in this version - difference of (\$50,000)		Phase 1 Audit	1	\$ 50,000 \$ 50,000
115		Phase 2 Audit (see below contaminated soil)			\$ -	Not included in this version - difference of (\$25,000)		Phase 2 Audit	1	\$ 25,000 \$ 25,000
116	Building Decomtamination and Haz Waste Removal						Building Decomtamination and Haz Waste Removal			
117		Decontaminate - oil, fuel, glycol systems	8,490	\$ 43.98	\$ 373,390	Rate change of 22.80 to 43.98 - difference of \$179,818 - previously included under buildings - see line 44		Decontaminate - oil, fuel, glycol systems		\$ -
118		Decontaminate offices/warehouse/ accommodations	24,582	\$ 25.60	\$ 629,299	Rate change from 12.63 to 25.60 - difference of \$319,081 - unit change from 24,562 to 24,582 for difference of 20 - previously included under buildings see line 45		Decontaminate offices/warehouse/ accommodations		\$ -
119		Remove of asbestos siding of buildings	5,000	\$ 25.60	\$ 128,000	not previously included - difference of \$128,000		Remove of asbestos siding of buildings		\$ -
120	Hazardous Materials Consolidated for Removal						Hazardous Materials Consolidated for Removal			
121		Waste Oils	100,000	\$ 1.20	\$ 120,000	New item - difference of \$120,000		Waste Oil		\$ -
122		Fuel	2,344,460	\$ 1.20	\$ 2,813,352	Rate change from 2.00 to 1.20 - unit change from 2,345,5821 to 2,344,560 - difference of -1,121 - price difference of (\$1,877,810)		Fuel	2,345,581	\$ 2.00 \$ 4,691,162
123		Waste batteries	100	\$ 25	\$ 2,500	New item - difference of \$2,500		Waste Batteries		\$ -
124		Assay and environmental lab reagents	1,000	\$ 25	\$ 25,000	New item - difference of \$25,000		Assay and environmenal lab reagents		\$ -
125	Hazardous Materials						Hazardous Materials			
126		Disposal Fees	100	\$ 250	\$ 25,000	No change		Disposal Fees	10,000	\$ 2.50 \$ 25,000

130	Contaminated Soil Removal									
131	Contaminated Soil - excavate and transport landfarm	50,000	\$ 47	\$ 2,350,000		New item - was previously included under contaminated soil removed offsite and contaminated soil hydrocarbon - unit change from 40,000 to 50,000 - a difference of 10,000 -for a difference of both lines 131 and 132 of approx. \$8,720				
132	Contaminated Soil - hydrocarbon offsite	500	\$ 146	\$ 73,000		Unit change from 2,000 to 500 with a rate change of 60.17 to 146.00 - we have included the difference in the line above				
133	Metal contam soil at conc. Load-out			\$ -		Not included in this version - difference of (\$17,800)				
134	other contaminate			\$ -		Not included in this version - difference of (\$7,120)				
135	Contour decontaminated area	50,000	\$ 0.95	\$ 47,500		New item - difference of \$47,500 - item is already covered under line 103				
136	Total			\$ 7,212,041		Difference of (\$10,841)				
137										

Contaminated Soil Removal										
	Contaminated Soil - excavate and transport landfarm									
	Contaminated Soil - hydrocarbon	40,000	\$ 60.17	\$ 2,406,800						
	Metal contam soil at conc. Load-out	2,000	\$ 8.90	\$ 17,800						
	other contaminate	800	\$ 8.90	\$ 7,120						
	Contour decontaminated area									
	Total			\$ 7,222,882						

138	Water Management	Unit	Price	Total		Changes		Water Management	Unit	Price	Total
139	Total			\$ -		No change		Total			\$ -
140											
141											
142											

143	TOTAL DIRECT COSTS - ARCADIS OCTOBER 2015			TOTAL		CHANGES			TOTAL DIRECT COSTS SENES DECEMBER 2014			Total
144	Underground Mine			\$ 506,380		Difference of \$42,800			Underground Mine			\$ 463,580
145	Tailings Impoundment			\$ 7,231,080		Difference of \$1,582,747			Tailings Impoundment			\$ 5,648,333
146	Rock Pile			\$ 3,580,000		Difference of \$728,000			Rock Pile			\$ 2,852,000
147	Equipment and Buildings			\$ 6,577,883		Difference of (\$104,269)			Equipment and Buildings			\$ 6,682,152
148	Chemicals			\$ 7,212,041		Difference of (\$10,841)			Chemicals			\$ 7,222,882
149	Water Management			\$ -		No change			Water Management			\$ -
150	Interim Care and Maintenance			\$ 644,488		New item - difference of \$644,488 - believe this was post closure monitoring and maintenance in the previous version under indirect costs - see line 206			Interim Care and Maintenance			\$ -
151	Post Closure Monitoring and Maintenance			\$ -		Not included in the new version - see below under indirect cost - difference of (\$2,205,670)			Post Closure Monitoring and Maintenance		\$ 2,205,670	
152	Total Direct Costs			\$ 25,751,872		difference of \$677,255			Total Direct Costs			\$ 25,074,617
153												

	Mobilization		Unit	Price	Total		Changes		Mobilization	Unit	Price	Total	
154	Equipment, regional centre to site								Equipment, regional centre to site				
155		Excavators	2	\$ 150,000	\$ 300,000		No change			Excavators	2	\$ 150,000	\$ 300,000
156		Dump trucks	4	\$ 50,000	\$ 200,000		No change			Dump trucks	4	\$ 50,000	\$ 200,000
157		Dozers	2	\$ 150,000	\$ 300,000		No change			Dozers	2	\$ 150,000	\$ 300,000
158		Demolition shears	1	\$ 200,000	\$ 200,000		No change			Demolition shears	1	\$ 200,000	\$ 200,000
159		Crane	1	\$ 100,000	\$ 100,000		No change			Crane	1	\$ 100,000	\$ 100,000
160		Light duty vehicle	3	\$ 25,000	\$ 75,000		No change			Light duty vehicle	3	\$ 25,000	\$ 75,000
161		Loader	2	\$ 150,000	\$ 300,000		No change			Loader	2	\$ 150,000	\$ 300,000
162	Mobilize Workers								Mobilize Workers				
163		Crew Travel Time	40	\$ 1,000	\$ 40,000		Rate change from 600 to 1,000 - difference of \$28,000			Crew Travel Time	20	\$ 600	\$ 12,000
164		Crew transportation	40	\$ 4,500	\$ 180,000		Rate change from 4,000 to 4,500 - difference of \$20,000			Crew transportation	40	\$ 4,000	\$ 160,000
165		Monitoring airfare	5	\$ 4,500	\$ 22,500		New item - difference of \$22,500			Monitoring airfare			\$ -
166	Mobilize Misc. Supplies								Mobilize Misc. Supplies				
167		Fuel	1,400,000	\$ 1.39	\$ 1,946,000		Rate change from 1.30 to 1.39 - difference of \$126,000			Fuel	1,400,000	\$ 1.30	\$ 1,820,000
168		Minor tools and equipment	1	\$ 100,000	\$ 100,000		No change			Minor tools and equipment	1	\$ 100,000	\$ 100,000
169	Worker Accommodations								Worker Accommodations				
170		Man months	275	\$ 2,225	\$ 611,875		Rate change from 2,224.79 to 2,225.00 - difference of \$58			Man months	275	\$ 2,224.79	\$ 611,817
171	Winter Road								Winter Road				
172		Mobilization and debmobilization	1,172	\$ 2,000	\$ 2,344,000		Winter tariff was stated to be included in the mobilization under the previous version - difference (\$344,930) - included in LMI estimate			Mobilization	1	\$ 2,706,450	\$ 2,706,450
173					\$ -			Demobilization		1	\$ 1,342,000	\$ 1,342,000	
174		Winter Road Tariff	1	\$ 1,359,520	\$ 1,359,520			Winter Road Tariff				\$ -	
175	Total				\$ 8,078,895		Difference of (\$148,372)		Total			\$ 8,227,267	

177

178	Post Closure Monitoring and Maintenance				Unit	Price	Total		Changes		Post Closure Monitoring and Maintenance				Unit	Price	Total
179	Monitoring and Inspections										Monitoring and Inspections						
180		Annual Geotechnical Inspections			5	\$ 23,000	\$ 115,000		Rate change from 22,923 to 23,000 - difference of \$385		Annual Geotechnical Inspections	5	\$ 22,923	\$ 114,615			
181		Regulatory Costs/Inspections			10	\$ 15,500	\$ 155,000		No change		Regulatory Costs/Inspections	10	\$ 15,500	\$ 155,000			
182		Surface Water Sampling			10	\$ 25,000	\$ 250,000		Rate change from 6,180 to 25,000 - difference of \$188,200		Surface Water Sampling	10	\$ 6,180	\$ 61,800			
183		EEM survey					\$ -		Not included in this version - difference of (\$126,079)		EEM survey			\$ 126,079	\$ 126,079		
184		Monitoring program as per plan					\$ -		Not included in this version - difference of (\$61,800)		Monitoring program as per plan	10	\$ 6,180	\$ 61,800			
185		Transportation to site					\$ -		not included in this version - difference (\$20,000)		Transportation to site	5	\$ 4,000	\$ 20,000			
186	Cover maintenance								Cover maintenance								
187		Repair Erosion - infill gullies				\$ 500,000	\$ 500,000		No change			Repair Erosion - infill gullies		\$ 500,000	\$ 500,000		
188	Spillway maintenance										Spillway maintenance						
189		Repair Erosion				\$ 100,000	\$ 100,000		No change			Repair Erosion		\$ 100,000	\$ 100,000		
190	Post-closure water treatment										Post-closure water treatment						
191		Annual water treatment costs			2	\$ 100,000	\$ 200,000		No change			Annual water treatment costs	2	\$ 100,000	\$ 200,000		
192																	
193					Subtotal 1-10 years	\$ 1,320,000	Difference of (\$19,294)					Subtotal 1-10 years	\$ 1,339,294				
194					Subtotal longterm 10-100 years	\$ 866,376	No change					Subtotal longterm 10-100 years	\$ 866,376				
195																	
196	Total						\$ 2,186,376	Difference of (\$19,294)	Total						\$ 2,205,670		
197																	

198	TOTAL INDIRECT COSTS - ARCADIS OCTOBER 2015	%	Total	Changes	TOTAL INDIRECT COSTS SENES DECEMBER 2014	%	Total
199	Mob/Debmob (see above)		\$ 8,078,895	Difference of (\$148,372)	Mob and Debmob		\$ 8,227,267
200	Post Closure Monitoring and Maintenance (see above)		\$ 2,186,376	New item -we believe this was previously included under indirect costs - see line 151 - difference of \$2,186,376	Post Closure Monitoring and Maintenance (see above)		\$ -
201	Engineering	10%	\$ 2,575,187	Difference of \$67,725	Engineering	10%	\$ 2,507,462
202	Project Management	5%	\$ 1,287,594	Difference of \$33,863	Project Management	5%	\$ 1,253,731
203	Health and Safety Plans/Monitoring & QA/QC	1%	\$ 257,519	Difference of \$ (642,481)	Health and Safety Plans/Monitoring & QA/QC		\$ 900,000
204	Bonding and Insurance	1%	\$ 257,519	Difference of \$6,773	Bonding and Insurance	1%	\$ 250,746
205	Contingency	20%	\$ 5,150,374	Difference of (\$551,418) - overall LMI has provided for 19% contingency	Contingency	25% except buildings 10%	\$ 4,714,914
206	Post Closure Monitoring and Maintenance		\$ -	Not included in the version - we believe this cost is now called Intermin Care and Maintenance under direct costs in this version - difference of (\$551,418) - see line 150	Post Closure Monitoring and Maintenance	25%	\$ 551,418
207	Market Price Factor Adjustment	0%	\$ -	No change	Market Price Factor Adjustment	0%	\$ -
208							
209	Total indirect Costs		\$ 19,793,464	Difference of \$1,387,926	Total indirect Costs		\$ 18,405,538
210							
211	Grand Total		\$ 45,545,336	Difference of \$2,065,181	Grand Total		\$ 43,480,155