

Table 1. Reclamation Bond Summary through the end of Year 1 (2017). Exhibit 66

Item	Cost
Area Bond	
Backfill	\$ 11,236,367
Rough Grading Backfill	\$ -
Finish Grading	\$ 2,622
Area Bond Subtotal	\$ 11,238,989
Incremental Bond	
Overburden Redistribution	\$ 4,653,013
Demolition	\$ 42,242
Environmental Monitoring	\$ 62,235
Scarification	\$ 12,736
Topsoil	\$ 1,066,516
Revegetation	\$ 143,430
Incremental Bond Subtotal	\$ 5,980,172
Reclamation Bond Subtotal	\$ 17,219,162
Miscellaneous Contingency	\$ 4,502,599
Total Estimated Bond	\$ 21,721,760

Table 2. Area Bond Estimate

Description	Unit	Base Quantity	Swell Factor	Final Quantity	Unit Cost	Subtotal	Comments
Pit TR-1 Backfill (Reclaimed Fill)	yd ³	3,973,464	100%	3,973,464	\$ 2.30	\$ 9,138,967.20	WDEQ/LQD Guideline 12, Appendix A, 992 Loader and 777 Truck, 2000 ft. distance, level grade. Also includes WDEQ/LQD Guideline 12, Appendix E, D9T Dozer, 200 ft. distance, level grade.
Pit TR-1 Backfill (Native Overburden)	yd ³	786,132	116%	911,913	\$ 2.30	\$ 2,097,400.18	"
Total				4,885,377	\$ 2.30	\$ 11,236,367.38	"
Rough Grading Backfill	ac	-	-	0	\$ 70.92	\$ -	WDEQ/LQD Guideline 12, Appendix M, 854G Rubber Tire Dozer
Final Grading	ac	-	-	33.8	\$ 77.57	\$ 2,621.87	WDEQ/LQD Guideline 12, Appendix G, 16M Motor Grader

Total Area Bond Estimate \$ 11,238,989.24

Table 3. Overburden Redistribution Estimate

Description	Unit	Base Quantity	Swell Factor	Final Quantity	Unit Cost	Subtotal	Comments
Sediment Ponds							
Sediment Pond SP-1	yd ³	25,100	100%	25,100	\$ 1.31	\$ 32,906.10	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 1,000 ft. average distance, level grade.
Sediment Pond SP-2	yd ³	12,800	100%	12,800	\$ 1.31	\$ 16,780.80	"
Sediment Pond SP-3	yd ³	82,600	100%	82,600	\$ 1.31	\$ 108,288.60	"
Sediment Pond SP-4	yd ³	15,400	100%	15,400	\$ 1.31	\$ 20,189.40	"
Sediment Pond SP-5	yd ³	23,600	100%	23,600	\$ 1.31	\$ 30,939.60	"
Sediment Pond SP-6	yd ³	23,300	100%	23,300	\$ 1.31	\$ 30,546.30	"
Total				182,800	\$ 1.31	\$ 239,650.80	"
Haul Roads							
HR-2 and HR-3	yd ³	1,560,352	100%	1,560,352	\$ 2.76	\$ 4,306,572.21	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 5,000 ft. average distance, level grade. Average distance used for estimating purposes.
Hidden Water Creek Year 1 Diversion Earthwork							
Diversion	yd ³	57,107	100%	57,107	\$ 1.87	\$ 106,789.98	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 2,500 ft. distance, level grade.
Total Overburden Redistribution Estimate						\$ 4,653,012.99	

Table 4. Demolition Estimate

Description	Unit	Final Quantity	Unit Cost	Subtotal	Comments
Fences	lf	NA	\$ 2.00	-	WDEQ/LQD Guideline 12, Appendix H.
Powerlines	lf	NA	\$ 0.38	-	"
Hard-surfaced roads	ac	NA	\$871.04	-	WDEQ/LQD Guideline 12, Appendix I.
Bridges	ea	NA		-	"
Abandoned Equipment	ea	NA		-	
Railroad	lf	NA	\$ 8.78	-	WDEQ/LQD Guideline 12, Appendix K.
Facility Buildings	-	NA		-	WDEQ/LQD Guideline 12, Appendix K.
Mineral Handling Facilities	-	NA		-	WDEQ/LQD Guideline 12, Appendix K.
Culverts¹					
HR-15	lf	225	\$ 6.88	\$ 1,548.00	WDEQ/LQD Guideline 12, Appendix J.
HR-16	lf	280	\$ 6.88	\$ 1,926.40	"
HR-17	lf	100	\$ 6.88	\$ 688.00	"
HR-14 (72" diameter)	lf	885	\$ 33.85	\$ 29,957.25	RS Means 2014; 02 41 13.40.200
Total				\$ 34,119.65	
Hidden Water Creek Year 1 Diversion Piping					
Diversion (10' diameter)	lf	230	\$ 33.85	\$ 8,122.50	RS Means 2014; 02 41 13.40.200. Cost also includes removal of elbow fitting for drop structure: RS Means 2014, 02 41 13.40.300.
Total Demolition Estimate				\$ 42,242.15	

Notes: ¹Refer to Exhibit 1 for culvert locations.

NA: Not Available

Table 5. Environmental Monitoring Reclamation Costs

Groundwater Monitoring and Borehole Sites ¹		
Location ID	Depth (ft)	Cost
GEO-1-2015-AL	5	\$ 85.40
GEO-2-2015-AL	5	\$ 85.40
GEO-3-2015-AL	5	\$ 85.40
GEO-4-2015-AL	5	\$ 85.40
GEO-5-2015-AL	5	\$ 85.40
GEO-6-2015-AL	5	\$ 85.40
578433-AL-1	20	\$ 134.20
578434-AL-1	20	\$ 134.20
578434-AL-2	20	\$ 134.20
578421SESW	420	\$ 1,079.70
578428SWNE	400	\$ 1,079.70
578428NESE	319	\$ 1,079.70
578434NWNE	511	\$ 1,079.70
Geo-1-2014	400	\$ 1,061.40
Geo-2-2014	500	\$ 1,061.40
Geo-3-2014	450	\$ 1,061.40
Geo-4-2014	500	\$ 1,061.40
Geo-5-2014	500	\$ 1,061.40
578427	80	\$ 1,061.40
578421-3-CRN-MAS	135	\$ 1,193.27
578421-CRN-MAS	474	\$ 1,193.27
578421-MON	360	\$ 1,193.27
578421-2-CRN-MAS	440	\$ 1,193.27
578421-2-MON	270	\$ 1,193.27
578428-MON	360	\$ 1,193.27
578428-CRN-MAS	454	\$ 1,193.27
578435-D1	360	\$ 1,193.27
578435-D2	420	\$ 1,193.27
578435-D3	470	\$ 1,193.27
578435-MON	570	\$ 1,193.27
578435-CRN-MAS	700	\$ 1,193.27
578435-SMITH	200	\$ 1,193.27
578435-ROLAND	120	\$ 1,193.27
578434-D2	170	\$ 1,193.27
578434-MON	300	\$ 1,193.27
578434-CRN-MAS	440	\$ 1,193.27
SM 578510-CRN-1	91	\$ 414.96
SM 578510-MST-1	140	\$ 414.96
SM 578511-CRN-1	125	\$ 414.96
SM 578511-MST-1	157	\$ 414.96
SM 578512-CRN-1	62	\$ 414.96
SM 578512-MST-1	114	\$ 414.96
SM 578513-CRN-1	116	\$ 414.96
SM 578513-MST-1	140	\$ 414.96
SM 578418-CRN-1	150	\$ 414.96
SM 578418-MST-1	180	\$ 414.96
SM 578409-CRN-1	109	\$ 414.96

Table 5. Environmental Monitoring Reclamation Costs Cont.

Groundwater Monitoring and Borehole Sites¹		
Location ID	Depth (ft)	Cost
SM 578409-CRN-OB-1	110	\$ 414.96
SM 578409-MST-1	120	\$ 414.96
SM 578409-MST-OB-1	120	\$ 414.96
SM 578409-UNB-1	142	\$ 414.96
SM 578415-CRN-MST	182	\$ 414.96
SM 578512-AL-1	22	\$ 414.96
SM 578513-AL-1	22	\$ 414.96
SM 578418-AL-1	27	\$ 414.96
R-13-011	150	\$ 673.44
R-13-012	150	\$ 673.44
R-13-016	700	\$ 673.44
R-13-018	80	\$ 673.44
R-13-019	150	\$ 673.44
R-13-020	180	\$ 673.44
R-13-023	160	\$ 673.44
R-13-024	450	\$ 673.44
R-13-025	140	\$ 673.44
R-13-026	300	\$ 673.44
Ambre 01	284	\$ 240.00
Ambre 02	40	\$ 240.00
Ambre 03	36	\$ 240.00
Ambre 04	40	\$ 240.00
Ambre 05	210	\$ 240.00
Ambre 06	330	\$ 240.00
Ambre 07	190	\$ 240.00
Ambre 09	300	\$ 240.00
Ambre 10	240	\$ 240.00
Ambre 11	390	\$ 240.00
R-12006	190	\$ 240.00
R-12008	140	\$ 240.00
R-12009A	50	\$ 240.00
R-12010	40	\$ 240.00
R-12011	30	\$ 240.00
R-12012	40	\$ 240.00
R-12013	170	\$ 240.00
R-12014	140	\$ 240.00
R-12015	140	\$ 240.00
R-12018D	60	\$ 240.00
R-12019D	60	\$ 240.00
	Sub-total	\$ 51,546.43
Surface Water Monitoring Sites		
SM578418-SW-1		\$ 2,672.16
SM578512-SW-1		\$ 2,672.16
SM578409-SW-1		\$ 2,672.16
SM578415-SW-1		\$ 2,672.16
	Sub-total	\$ 10,688.64
Total Environmental Monitoring Estimate:		\$ 62,235.07

Note:¹Drill hole bond per hole from CN160 (TFN6 2/025) including 22% contingency 7-28-15.
November 2015

Bond Estimate T6
Brook 013461

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Table 6. Scarification Estimate

Description	Unit	Final Quantity	Unit Cost	Subtotal	Comments
Currently affected area	ac	0	\$ 71.15	\$ -	WDEQ/LQD Guideline 12, Appendix P.
Planned disturbance through Year 1	ac	179	\$ 71.15	\$ 12,735.85	"
Total Scarification Estimate \$				12,735.85	

Table 7. Topsoil Estimate

Description	Unit	Base Quantity	Unit	Final Quantity ¹	Unit Cost	Subtotal	Comments
pit TR-1	ac	33.8	yd ³	72,708	\$ 2.15	\$ 156,357.60	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 2,500 ft. distance, level grade with 15% increase for topsoil.
Sediment Ponds							
SP-1	ac	2.4	yd ³	5,163	\$ 3.98	\$ 20,530.38	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 7,000 ft. distance, level grade with 15% increase for topsoil.
SP-2	ac	1.7	yd ³	3,657	\$ 2.15	\$ 7,864.14	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 2,500 ft. distance, level grade with 15% increase for topsoil.
SP-3	ac	4.6	yd ³	9,895	\$ 2.36	\$ 23,327.72	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 3,000 ft. distance, level grade with 15% increase for topsoil.
SP-4	ac	2.0	yd ³	4,302	\$ 1.26	\$ 5,432.42	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 500 ft. distance, level grade with 15% increase for topsoil.
SP-5	ac	1.5	yd ³	3,227	\$ 2.57	\$ 8,289.63	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 3,500 ft. distance, level grade with 15% increase for topsoil.
SP-6	ac	2.1	yd ³	4,517	\$ 1.26	\$ 5,704.04	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 500 ft. distance, level grade with 15% increase for topsoil.
Overburden Piles							
OB-1	ac	4.7	yd ³	10,110	\$ 3.98	\$ 40,205.32	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 7,000 ft. distance, level grade with 15% increase for topsoil.
OB-2	ac	8.5	yd ³	18,284	\$ 3.98	\$ 72,711.75	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 7,000 ft. distance, level grade with 15% increase for topsoil.
OB-3	ac	13.8	yd ³	29,685	\$ 2.36	\$ 69,983.17	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 3,000 ft. distance, level grade with 15% increase for topsoil.
OB-4	ac	24.2	yd ³	52,057	\$ 2.15	\$ 111,948.34	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 2,500 ft. distance, level grade with 15% increase for topsoil.
Overburden Piles							
Haul roads and other disturbed areas	ac	79.7	yd ³	171,444	\$ 3.17	\$ 544,161.85	WDEQ/LQD Guideline 12, Appendix C, 637G Scraper, 5,000 ft. average distance, level grade with 15% increase for topsoil.
						Total Topsoil Estimate \$ 1,066,516.35	

Note: ¹ Topsoil depth of 16 inches was used based on Reclamation Plan was used for volume calculations in all areas.

Table 8. Revegetation Estimate

Description	Unit	Final Quantity	Unit Cost	Subtotal	Comments
Planned disturbance through Year 1	ac	204.9	\$700.00	\$ 143,430.00	Estimate including revegetation of topsoil piles footprints.
Total Revegetation Estimate				\$ 143,430.00	

Table 9. Miscellaneous Contingency Items

Item	Cost	Description
Independent design firm for final reclamation design	\$ 60,000.00	WDEQ/LQD Guideline 12, LQD and WMA agreed to flat \$250,000 for project design regardless of project size. Cost reduced based on project size.
Contractor profit, overhead, mobilization and demobilization costs	\$ 2,324,586.82	WDEQ/LQD Guideline 12, LQD is presently using 13.5 percent for these items.
Preconstruction investigation and stabilization	\$ 258,287.42	WDEQ/LQD Guideline 12, LQD is presently using 1.5 percent for these items.
Independent firm to manage the final reclamation project (3 percent)	\$ 516,574.85	WDEQ/LQD Guideline 12, Appendix R sliding scale.
On site monitoring program for ten years after completion of final reclamation project	\$ 172,191.62	WDEQ/LQD Guideline 12, LQD is presently using 1 percent for these items.
Costs for on site security during the final reclamation project and liability insurance cost during the final reclamation project and over the full bonding period (1 year).	\$ 250,000.00	WDEQ/LQD Guideline 12, LQD and WMA agreed to \$250,000 per year of project life would be adequate.
Long-term administration and accounting cost	\$ 60,000.00	WDEQ/LQD Guideline 12, LQD and WMA agreed to range of \$315,000 to \$505,000 depending on project size. Cost reduced based on project size.
Unknown costs	\$ 860,958.08	WDEQ/LQD Guideline 12, LQD is presently using 5 percent for these items.
Total Contingency Estimate	\$ 4,502,598.80	