NI 43-101 Technical Report Feasibility Study Revenue–Virginius Mine Ouray, Colorado

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Report Prepared for



Ouray Silver Mines

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Table of Contents

1	Sun	nmary	1
	1.1	Property Description and Ownership	1
	1.2	Geology and Mineralization	1
	1.3	Status of Exploration, Development and Operations	2
	1.4	Mineral Processing and Metallurgical Testing	2
	1.5	Mineral Resource Estimate	4
	1.6	Mineral Reserve Estimate	7
	1.7	Mining Methods	9
	1.8	Recovery Methods	.11
	1.9	Project Infrastructure	.11
		1.9.1 Off-site Infrastructure and Product Logistics	.11
		1.9.2 On-site Infrastructure	.11
	1.10	Environmental Studies and Permitting	.14
	1.11	Capital and Operating Costs	.15
	1.12	Economic Analysis	.16
	1.13	Project Implementation	.17
	1.14	Conclusions and Recommendations	.20
		1.14.1 Property Description and Ownership	.20
		1.14.2 Geology and Mineralization	.20
		1.14.3 Status of Exploration, Development and Operations	.20
		1.14.4 Mineral Resource Estimate	.21
		1.14.5 Recovery Methods	.21
		1.14.6 Project Infrastructure	.21
2	Intro	oduction	23
	2.1	Terms of Reference and Purpose of the Report	.23
	2.2	Qualifications of Consultants	.23
	2.3	Details of Inspection	.25
	2.4	Sources of Information	.25
	2.5	Effective Date	.25
	2.6	Units of Measure	.26
3	Reli	ance on Other Experts	27
4		perty Description and Location	
	4.1	Property Location	
	4.2	Mineral Titles	
		4.2.1 Nature and Extent of Issuer's Interest	.33

SRK Consulting (U.S.), Inc.	
NI 43-101 Technical Report.	Feasibility Study, Revenue – Virginius Mine

INI 4	5-101		Fagein
		4.2.2 Claim Location and Access	34
	4.3	Royalties	34
	4.4	Environmental Liabilities and Permitting	34
		4.4.1 Environmental Liabilities	34
		4.4.2 Required Permits and Status	35
5	Acc	essibility, Climate, Local Resources, Infrastructure and Physiography	36
	5.1	Topography, Elevation and Vegetation	36
	5.2	Accessibility and Transportation to the Property	36
	5.3	Climate	36
	5.4	Sufficiency of Surface Rights	37
	5.5	Infrastructure Availability and Sources	37
6	Hist	tory	39
	6.1	Prior Ownership and Ownership Changes	39
	6.2	Exploration and Development Results of Previous Owners	44
	6.3	Historic Production	44
7	Geo	blogical Setting and Mineralization	45
	7.1	Regional Geology	45
	7.2	Local Geology	46
	7.3	Project Geology	47
	7.4	Significant Mineralized Zones	52
8	Dep	osit Type	57
	8.1	Mineral Deposit	57
9	Ехр	loration	58
	9.1	Relevant Exploration Work	58
	9.2	Sampling Methods and Sample Quality	58
		9.2.1 2011 - 2013 Star Mines	60
		9.2.2 FRSM and OSMI Exploration	61
	9.3	Significant Results and Interpretation	62
10	Dril	ling	64
	10.1	Type and Extent	64
	10.2	Procedures	69
		10.2.1 Historic	69
		10.2.2 Star Mines	70
		10.2.3 OSMI	71
	10.3	Interpretation and Relevant Results	72
11	San	nple Preparation, Analysis and Security	74
	11.1	Security Measures	74

Page iii

		11.1.1 Historical	74
		11.1.2 OSMI	74
	11.2	Sample Preparation for Analysis	74
		11.2.1 Historical	74
		11.2.2 OSMI	75
	11.3	Sample Analysis	76
		11.3.1 Historical	76
		11.3.2 OSMI	77
	11.4	Quality Assurance/Quality Control Procedures	78
		11.4.1 Standards	78
		11.4.2 Blanks	80
		11.4.3 Duplicates	80
	11.5	Opinion on Adequacy	81
12	Data	a Verification	83
	12.1	Limitations	84
	12.2	Opinion on Data Adequacy	84
13	Met	allurgy	86
	13.1	Introduction	86
	13.2	Prefeasibility Metallurgical Program	86
		13.2.1 Test Sample Characterization	
		13.2.2 Mineralogical Analyses	87
		13.2.3 Comminution Studies	88
		13.2.4 Metallurgical Testwork – Master Composite	89
		13.2.5 Metallurgical Testwork: Variability Composites	
		13.2.6 Thickening and Filtration Studies	104
	13.3	Feasibility Metallurgical Studies	106
		13.3.1 Test Sample Characterization	106
		13.3.2 Mineralogical Analyses	109
		13.3.3 Comminution	111
		13.3.4 Confirmatory Flotation Studies	111
		13.3.5 Large Batch Flotation Studies	113
		13.3.6 Locked-Cycle Test on Master Composite	116
		13.3.7 Thickening and Filtration Studies	118
		13.3.8 Concentrate and Tailing Characterization	120
	13.4	Recoverability and Relevant Test Results	124
		Process Design Parameters	
	13.6	Significant Factors	131

14	Min	eral Resource Estimate	133
	14.1	Database	133
		14.1.1 Coordinate Systems	133
		14.1.2 Topography	133
		14.1.3 Drilling and Sampling Database	133
	14.2	Geologic Model	135
	14.3	Assay Capping and Compositing	
		14.3.1 Outliers	138
		14.3.2 Compositing	141
		14.3.3 Declustering Channel Sampling	143
	14.4	Density	144
	14.5	Variogram Analysis and Modeling	146
	14.6	Block Model	146
	14.7	Estimation Methodology	147
		14.7.1 Virginius Vein	147
		14.7.2 Terrible Vein	149
		14.7.3 Yellow Rose	149
	14.8	Model Validation	150
		14.8.1 Visual Comparison	150
		14.8.2 Comparative Statistics	152
		14.8.3 Swath Plots	154
	14.9	Resource Classification	155
		14.9.1 Virginius/Footwall and Terrible Classification	156
		14.9.2 Yellow Rose Classification	158
	14.10	0Mineral Resource Statement	159
	14.11	1Mineral Resource Sensitivity	163
	14.12	2Relevant Factors	168
15	Min	eral Reserve Estimate	171
	15.1	Introduction	171
	15.2	Conversion Assumptions, Parameters and Methods	172
		15.2.1 Mining Recovery	173
		15.2.2 Dilution	173
		15.2.3 Net Smelter Return	176
		15.2.4 Cut-off Evaluation	179
	15.3	Reserve Estimate	179
		15.3.1 Relevant Factors	
16	Mini	ing Methods	182

16.1	Mining Methods	
	16.1.1 Mineralized Areas	
	16.1.2 Resue Mining	
16.2	Geotechnical Parameters	
	16.2.1 Geomechanical Characterization	187
	16.2.2 Geomechanical Domains and Rock Mass Properties	189
	16.2.3 Mine Design Parameters	189
	16.2.4 Stoping Sequence and Sill Pillars	190
16.3	Mine Design	190
	16.3.1 Historically Mined Areas	190
	16.3.2 Stope Design	192
	16.3.3 May 2017 Resue Test Stope Discussion	195
	16.3.4 Development Design	201
	16.3.5 Mine Design	204
16.4	Production Schedule	206
	16.4.1 Productivity Assumptions	206
	16.4.2 Monthly Production Schedule	207
16.5	Mining Operations	210
	16.5.1 Rehabilitation of Historic Workings	211
	16.5.2 Resue Mining	211
	16.5.3 Waste Rock	212
16.6	Mine Equipment, Key Materials and Projects	212
	16.6.1 Mine Equipment and Key Materials	212
	16.6.2 Projects	214
16.7	Ventilation	215
	16.7.1 Initial Proposed Mine Layout	215
	16.7.2 Airflow Requirements	215
	16.7.3 Ventilation Model Development	216
	16.7.4 Staged Modeling Main Fan Results	222
	16.7.5 Specific Area Ventilation Requirements	222
16.8	Mine Services	226
	16.8.1 Hoisting	226
	16.8.2 Compressed Air	226
	16.8.3 Dewatering	226
	16.8.4 Electrical	226
	16.8.5 Health and Safety	227
	16.8.6 Mining Labor	
	16.8.7 Grade Control	

17	Rec	covery Methods	230
	17.1	Operation Results	
	17.2	Processing Methods	231
	17.3	Process Design and Flowsheet	233
		17.3.1 Run-of-Mine Storage and Crushing	234
		17.3.2 Primary Rod Milling	
		17.3.3 Secondary Ball Milling	
		17.3.4 Bulk Lead Rougher Flotation	
		17.3.5 Zinc Rougher Flotation	236
		17.3.6 Lead Cleaner Flotation	236
		17.3.7 Zinc Cleaner Flotation	237
		17.3.8 Lead Concentrate Thickening and Filtration	237
		17.3.9 Zinc Concentration Thickening and Filtration	238
		17.3.10 Tailings Thickening and Filtration	238
		17.3.11 Reagent Mixing, Storage and Distribution	239
		17.3.12 Raw Water Storage and Distribution	240
		17.3.13 Process Water Storage and Distribution	
		17.3.14 HP and LP Air Services	
	17.4	Plant Design and Equipment Characteristics	
	17.5	Consumable Requirements	241
		17.5.1 Electrical Power	241
		17.5.2 Reagents	
		17.5.3 Process Consumables (Major Sources)	
18	Proj	ject Infrastructure	
	18.1	Off-site Infrastructure and Product Logistics	244
		18.1.1 Mine Access Road	244
		18.1.2 Off-site Warehouse and Offices	247
		18.1.3 Product Logistics	
	18.2	On-site Infrastructure	249
		18.2.1 Introduction	
		18.2.2 Access	251
		18.2.3 Plant	
		18.2.4 Solid Waste Handling	
		18.2.5 Emergency Hoist	
		18.2.6 Water Systems	254
		18.2.7 Compressed Air Systems	
		18.2.8 Power Supply System	

		40.0.0 -		
		18.2.9 Propane Supply		
		18.2.10	Fuel and Lubricant Storage	
		18.2.11	Surface Crusher Plant	
		18.2.12	Mine Administration and Dry Building	
		18.2.13	Railyard Building	
		18.2.14	Mill Reagent and Compressor Storage Building	
		18.2.15	Other Surface Facilities	
		18.2.16	Explosives Storage	
		18.2.17	Laboratory	
		18.2.18	Weigh-Scale	
		18.2.19	Security/ Gatehouse	
		18.2.20	Communications	
		-	Management Area	
19	Mar	ket Stud	lies and Contracts	272
		19.1.1 F	easibility Study Metal Price Assumptions	272
			oncentrate Market Study	
	19.2	Contract	s and Status	274
20	Env	ironme	ntal Studies, Permitting and Social or Community Impact	275
	20.1	Required	Permits and Status	275
		20.1.1 D	RMS - Technical Revision 8	277
		20.1.2 D	RMS - Technical Revision 9	
			RMS - Technical Revision 9 DPHE – Colorado Pollutant Discharge System	277
	20.2	20.1.3 C		277
	20.2	20.1.3 C Environm	DPHE – Colorado Pollutant Discharge System	277 277 278
	20.2	20.1.3 C Environn 20.2.1 B	DPHE – Colorado Pollutant Discharge System nental Study Results	277 277 278 278 278
		20.1.3 C Environn 20.2.1 B 20.2.2 R	DPHE – Colorado Pollutant Discharge System nental Study Results aseline Water Quality	
	20.3	20.1.3 C Environm 20.2.1 B 20.2.2 R Commun	DPHE – Colorado Pollutant Discharge System nental Study Results aseline Water Quality esults of Geochemical Studies of Waste Rock and Tailings	
	20.3	20.1.3 C Environn 20.2.1 B 20.2.2 R Commun Operation	DPHE – Colorado Pollutant Discharge System nental Study Results aseline Water Quality esults of Geochemical Studies of Waste Rock and Tailings ity Involvement	
	20.3	20.1.3 C Environm 20.2.1 B 20.2.2 R Commun Operation 20.4.1 P	DPHE – Colorado Pollutant Discharge System nental Study Results aseline Water Quality esults of Geochemical Studies of Waste Rock and Tailings ity Involvement g and Post Closure Requirements and Plans	
	20.3	20.1.3 C Environm 20.2.1 B 20.2.2 R Commun Operation 20.4.1 P 20.4.2 T	DPHE – Colorado Pollutant Discharge System nental Study Results aseline Water Quality esults of Geochemical Studies of Waste Rock and Tailings ity Involvement g and Post Closure Requirements and Plans ost-Closure Water Management	
	20.3	20.1.3 C Environn 20.2.1 B 20.2.2 R Commun Operation 20.4.1 P 20.4.2 T 20.4.3 S	DPHE – Colorado Pollutant Discharge System nental Study Results aseline Water Quality esults of Geochemical Studies of Waste Rock and Tailings ity Involvement g and Post Closure Requirements and Plans ost-Closure Water Management ailings Management Area	
	20.3	20.1.3 C Environm 20.2.1 B 20.2.2 R Commun Operatin 20.4.1 P 20.4.2 T 20.4.3 S 20.4.4 P	DPHE – Colorado Pollutant Discharge System nental Study Results aseline Water Quality esults of Geochemical Studies of Waste Rock and Tailings ity Involvement g and Post Closure Requirements and Plans ost-Closure Water Management ailings Management Area hafts	
	20.3 20.4	20.1.3 C Environm 20.2.1 B 20.2.2 R Commun Operation 20.4.1 P 20.4.2 T 20.4.3 S 20.4.4 P 20.4.5 P	DPHE – Colorado Pollutant Discharge System	
	20.3 20.4 20.5	20.1.3 C Environn 20.2.1 B 20.2.2 R Commun Operation 20.4.1 P 20.4.2 T 20.4.3 S 20.4.3 S 20.4.4 P 20.4.5 P Closure I	DPHE – Colorado Pollutant Discharge System	
21	20.3 20.4 20.5 20.6	20.1.3 C Environm 20.2.1 B 20.2.2 R Commun Operation 20.4.1 P 20.4.2 T 20.4.3 S 20.4.4 P 20.4.5 P Closure I Reclama	DPHE – Colorado Pollutant Discharge System	
21	20.3 20.4 20.5 20.6 Cap	20.1.3 C Environm 20.2.1 B 20.2.2 R Commun Operatin 20.4.1 P 20.4.2 T 20.4.3 S 20.4.4 P 20.4.5 P Closure I Reclama	DPHE – Colorado Pollutant Discharge System	

	21.1.2 Capital Cost Summary	
	21.1.3 Processing Plant Capital Cost Estimate	290
	21.1.4 Mining Capital Cost Estimate	292
	21.1.5 Surface Capital Cost Estimate	296
	21.1.6 Infrastructure Capital Cost Estimate	296
21.2	Operating Cost Estimate	298
	21.2.1 Operating Costs Assumptions and Qualifications	298
	21.2.2 Operating Cost Summary	299
	21.2.3 Mining Operating Cost Estimate	299
	21.2.4 Processing Plant Operating Cost Estimate	
	21.2.5 Surface Operating Cost Estimate	
	21.2.6 G&A Operating Cost Estimate	
22 Ecc	onomic Analysis	306
22.1	Principal Assumptions and Input Parameters	
22.2	Cash Flow Forecasts and Annual Production Forecasts	
22.3	Taxes, Royalties and Other Interests	
	22.3.1 Ownership Structure	312
22.4	Sensitivity Analysis	312
23 Adj	acent Properties	
24 Oth	her Relevant Data and Information	
	er Relevant Data and Information	315
		315
	Project Implementation	
	Project Implementation	
	Project Implementation	315 315 315 316 317
	Project Implementation	315 315 315 315 316 316 317 317
	Project Implementation	315 315 315 315 316 316 317 317 317
	Project Implementation	315 315 315 316 317 317 317 317 318
	Project Implementation	315 315 315 316 317 317 317 317 318 318
	Project Implementation 24.1.1 Introduction 24.1.2 Engineering and Construction Management 24.1.3 Procurement 24.1.4 Logistics 24.1.5 Construction 24.1.6 Construction Contracting 24.1.7 Temporary Facilities	315
	Project Implementation	315
	Project Implementation	315 315 315 316 317 317 317 317 318 318 318 318 319 319 320
24.1	Project Implementation	315 315 315 316 317 317 317 317 317 318 318 318 319 319 320 322
24.1 25 Inte	Project Implementation	315
24.1 25 Inte 25.1	Project Implementation	315 315 315 316 317 317 317 317 317 318 318 318 319 319 320 322 328 328
24.1 25 Inte 25.1 25.2	Project Implementation	315 315 315 316 317 317 317 317 318 318 318 318 319 319 320 322 328 328 328

	25.5 Mineral Resource Estimate	329
	25.6 Mining and Mineral Reserves	330
	25.7 Recovery Methods	331
	25.8 Project Infrastructure	331
	25.9 Environmental Studies and Permitting	332
	25.10Capital and Operating Costs	333
	25.11Economic Analysis	333
26	Recommendations	. 334
	26.1 Mineral Resources	334
	26.2 Mining Methods	334
	26.3 Recovery Methods	335
	26.4 Project Infrastructure	335
	26.5 Environmental Studies and Permitting	335
	26.6 Recommended Work Program Costs	336
27	References	. 337
28	Glossary	. 340
	28.1 Mineral Resources	
	28.2 Mineral Reserves	340
	28.3 Definition of Terms	
	28.4 Abbreviations	342

List of Tables

Table 1-1: Estimated Metal Recoveries for the Virginius-Revenue Mine	4
Table 1-2: OSMI Mineral Resource Estimate as of March 1, 2017 – SRK Consulting (U.S.), Inc	6
Table 1-3: OSMI Mineral Reserves Estimate as of June 15, 2018 – SRK Consulting (U.S.), Inc	8
Table 1-4: Capital Cost Summary (US\$000's)	15
Table 1-5: Operating Cost Summary	16
Table 1-6: Pre-Tax and After-Tax Indicative Economic Results (US\$000's)	17
Table 2-1: Site Visit Participants	25
Table 4-1: Mining Claims Owned by OSMI	32
Table 4-2: Unpatented Mining Claims	33
Table 6-1: Ownership and Exploration History of the Virginius Vein and the Revenue Tunnel	42
Table 6-2: Historical Production from the Project as Reported by Tremlett in 1976 modified by R. Perry (201	
Table 7-1: Stratigraphic Column for Rocks Exposed in the Project Area	47
Table 7-2: Age Dates of Mineralization from the Northwestern San Juan Mountains	53
Table 9-1: Exploration Work Completed between 1966 and 2001	58

Table 9-2: Exploration Work Completed between 2012 and 20136	0
Table 10-1: Total Core Drilling on the Project6	6
Table 10-2: Summary of Assays from 2016 OSMI Drilling Campaign7	3
Table 11-1: Elements and Upper and Lower Detection Limits for ALS code ME-ICP617	7
Table 11-2: Summary of Detection Limits and Laboratory Codes for OSMI Submissions7	8
Table 11-3: Summary of Duplicate Samples Submitted During 20168	51
Table 13-1: Head Analyses for Master and Variability Composites8	57
Table 13-2: Mineralogical Composition of Test Composites by QEMSCAN Analyses	8
Table 13-3: Bond Low Energy Impact and Abrasion Tests on Virginius Main Ore and Waste Samples8	8
Table 13-4: Bond Rod Mill (RWi) and Ball Mill (BWi) Determinations8	9
Table 13-5: Summary of Grind Size vs. Recovery and Cyanide Addition9	0
Table 13-6: Summary of First Stage Lead and Zinc Cleaner Flotation vs. Regrind Size9	13
Table 13-7: Summary of Locked-Cycle Test on Virginius Main Master Composite (Average of Cycles 5, 6, an 7)	
Table 13-8: Summary of Rougher Flotation Test on Virginius Main High Dilution Composite9	8
Table 13-9: Summary of Rougher Flotation Tests on the Virginius Hanging Wall Variability Composite9	9
Table 13-10: Summary of Rougher Flotation Test on the Virginius Master/Yellow Rose Variability Composit	
Table 13-11: Summary of Locked Cycle Test on the Virginius High Dilution Variability Composite (Average of Cycles 4, 5 & 6) 10	of)2
Table 13-12: Summary of Locked-Cycle Test on the Virginius Hanging Wall Composite (Average of Cycles 4 5 and 6)	
Table 13-13: Summary of Locked-Cycle Test on the Virginius Main/Yellow Rose Blend Variability Composit 10	
Table 13-14: Thickener Sizing Parameters (Metric): Zinc Scavenger Flotation Tailing and Lead Cleaner Concentrate	
Table 13-15: Lead Concentrate PneumaPress® Filtration Test Result)6
Table 13-16: Pressure Filtration Sizing Parameters - Zinc Scavenger Flotation Tailing and Lead Cleaner Concentrate	
Table 13-17: Metallurgical Sample Description and Locations 10	17
Table 13-18: Variability Composite Predicted Ore Grades with Dilution	19
Table 13-19: Head Assays for Feasibility Study Master Composite and Variability Composites	19
Table 13-20: Mineral Occurrence in the Master Composite 11	0
Table 13-21: Sulfide Mineral Liberation in the Master Composite	0
Table 13-22: Bond Ball Mill and Rod Mill Work Indices on Variability and Master Composites	1
Table 13-23: Summary of Confirmatory Lead and Zinc Flotation Test Results	2
Table 13-24: Summary of Large Batch Lead and Zinc Flotation Test Results	4
Table 13-25: Summary of Locked-Cycle Test Results on the Master Composite (Average of Last 3 Cycles	s)
Table 13-26: Summary of Thickening Test Results on Feasibility and Prefeasibility Master Composite Flotatio Tailing and Lead Concentrate 11	

Table 13-27: Summary of Pressure Filtration Tests on Master Composite Flotation Tailings	120
Table 13-28: Multi-Element Analyses on Lead and Zinc Concentrates and Final Flotation Tailing	121
Table 13-29: Acid-Base Accounting Results on Master Composite Flotation Tailings	123
Table 13-30: Summary of Relevant Test Results From Feasibility and Prefeasibility Metallurgical Pr	
Table 13-31: Summary of Concentrate Grades from Relevant Test Results from Feasibility and Prefe Metallurgical Programs	
Table 13-32: Estimated Metal Recoveries for the Virginius-Revenue Mine	129
Table 13-33: Reagent Usage and Dosage Requirements for Processing Virginius Main Ore	130
Table 13-34: Key Process Design Parameters	130
Table 14-1: Drilling Statistics for the Yellow Rose	134
Table 14-2: Channel Sample Statistics for the Yellow Rose	135
Table 14-3: Drilling Statistics for the Virginius	135
Table 14-4: Channel Sampling Statistics for Virginius	135
Table 14-5: Virginius Veins and Modelling Codes	138
Table 14-6: Assay Capping by Deposit	139
Table 14-7: Summary of Raw vs. Capped Values for Estimated Veins (absent values reset to detection	n)140
Table 14-8: Summary Statistics of Composited Values in Main Veins	142
Table 14-9: Summary of Density Sampling in Yellow Rose Drilling	145
Table 14-10: Summary of 2016 Density Measurements by Rock Type	146
Table 14-11: Summary of Block Model Origin	146
Table 14-12: Summary of Sensitivity Analysis on Parameters for Estimation on Virginius Vein	149
Table 14-13: Summary of Final Estimation Parameters for Virginius and FW Vein	149
Table 14-14: Summary of Final Estimation Parameters for Terrible Vein	149
Table 14-15: Summary of Final Estimation Parameters for Yellow Rose Vein	150
Table 14-16: Summary of Comparison between Composite (declustered) vs. ID2 and NN Block Estimation Vein	•
Table 14-17: Process Plant Recoveries by Concentrate Used in NSR Calculations for Geology	160
Table 14-18: NSR Calculation Commodity Price Assumptions	160
Table 14-19: OSMI Mineral Resource Estimate as of March 1, 2017 – SRK Consulting (U.S.), Inc	162
Table 14-20: Grade Tonnage Sensitivity Virginius Vein, Split by M&I and Inferred	164
Table 14-21: Grade Tonnage Sensitivity Footwall Vein, Split by M&I and Inferred	165
Table 14-22: Grade Tonnage Sensitivity Terrible Vein Split by M&I, and Inferred	166
Table 14-23: Grade Tonnage Sensitivity Yellow Rose Vein Split by M&I, and Inferred	167
Table 15-1: April 2016 Test Stope Results	175
Table 15-2: Process Plant Recoveries by Concentrate	176
Table 15-3: NSR Calculation Commodity Price Assumptions	177
Table 15-4: Example NSR Calculation	178
Table 15-5: Estimated Total Operating Cost	179

Table 15-6: OSMI Mineral Reserves Estimate as of June 15, 2018 – SRK Consulting (U.S.), Inc	180
Table 16-1: Summary of Planned Opening Dimensions	186
Table 16-2: Summary of 2017 Laboratory Testing Program	
Table 16-3: Summary of Rock Mass Quality, Virginius North Area	189
Table 16-4: Ground Support Requirements (Barton Method)	190
Table 16-5: May 2017 Test Stope Measurements and Dilution Calculation	200
Table 16-6: May 2017 Test Stope Drilling Productivity Results	201
Table 16-7: Development Dimension	204
Table 16-8: Productivity Rates	207
Table 16-9: Monthly Mining Schedule	208
Table 16-10: Mining Equipment List – Existing and Additional	213
Table 16-11: Fixed Equipment – Existing and Additional	213
Table 16-12: Haulage Equipment – Existing and Additional	214
Table 16-13: Mine Key Materials (Existing and Additional)	214
Table 16-14: Key Mine Projects	215
Table 16-15: Minimum Total Mine Airflow Requirements (Excluding Leakage)	216
Table 16-16: Airway Friction Factors	217
Table 16-17: Fans Required for Month 65 Steady State	222
Table 16-18: Main Fan Operating Points	222
Table 16-19: Shaft 1 and Lower Revenue Duct Systems	223
Table 16-20: 1200 and 1800 Level Initial Ducts	225
Table 16-21: Yellow Rose Main Duct	225
Table 16-22: Mining Personnel Position and Number	228
Table 17-1: Key Process Design Criteria Parameters	234
Table 17-2: Summary of the Power Consumption Rates per Processing Plant Area (Based on 91,3	
Table 17-3: Reagent Usage (based on 91,390 st/y)	
Table 17-4: Process Consumables Usage (91,390 st/y)	243
Table 18-1: Laboratory Initial Cost Estimate	
Table 18-2: Summary of Filtered Tailings Laboratory Direct Shear Test Results	
Table 18-3: Summary of FOS Stability Analysis	
Table 19-1: S&P Capital IQ Metal Price Forecast and Selected Metal Prices (US\$)	272
Table 19-2: Expected Concentrate Specifications	
Table 19-3: Forecast Lead Concentrate Sales Terms	
Table 19-4: Forecast Zinc Concentrate Sales Terms	274
Table 20-1: Existing Environmental and Operational Permits	276
Table 20-2: Water Quality Sampling Station Summary	
Table 20-3: Waste Rock Synthetic Precipitation Leachate Procedure Results	

Table 20-4: Tailings SPLP results from Mill Commissioning	284
Table 21-1: Capital and Startup Cost Summary (in US\$000's)	289
Table 21-2: Pre-Production Capitalized Operating Cost (US\$000's)	289
Table 21-3: Mill Equipment, Engineering and Construction Cost (US\$000's)	290
Table 21-4: Process Facilities Basis of Costs	292
Table 21-5: Mine Equipment, Engineering and Construction Capital (costs in US\$000's)	294
Table 21-6: Surface Equipment Capital (US\$000's)	296
Table 21-7: Infrastructure Capital (US\$000's)	297
Table 21-8: Burden Cost Buildup	298
Table 21-9: Operating Cost Summary	299
Table 21-10: Mining Operating Cost by Activity	299
Table 21-11: Mining Activity Costs and Productivities	
Table 21-12: Summary of Operating Costs – Processing Area	301
Table 21-13: Electrical Consumption and Costs (based on 91,390 st/y)	
Table 21-14: Reagent Costs (based on 91,390 st/y)	
Table 21-15: Non-Reagent Consumables Costs (based on 91,390 st/y)	
Table 21-16: Surface Operating Costs (US\$000's)	304
Table 21-17: G&A Operating Cost Summary	305
Table 21-18: G&A Labor Cost Summary (1)	305
Table 22-1: Basic Model Parameters	
Table 22-2: Mine Production Summary	307
Table 22-3: Mill Production Summary	
Table 22-4: Concentrate Production Summary	
Table 22-5: Net Smelter Return	
Table 22-6: Life-of-Mine Indicative Pre-Tax and After -Tax Economic Results (in US\$000's)	310
Table 22-7: Life-of-Mine Total Production Cost Contribution (1)	311
Table 24-1: OSMI Project Staffing by Period	324
Table 26-1: Summary of Costs for Recommended Work	336
Table 28-1: Definition of Terms	341
Table 28-2: Abbreviations	342

List of Figures

Figure 1-1: Mine Design Colored by NSR - Rotated View Looking Southwest (Looking from the	ə Portal)10
Figure 1-2: Existing Surface Infrastructure	13
Figure 1-3: Overall Project Restart Schedule	18
Figure 1-4: Ramp-up Throughput Plan	18

Figure 1-5: Planned Construction Sequence and Lead Times	19
Figure 4-1: Location Map	29
Figure 4-2: Location Map Showing Drainage Basins	30
Figure 4-3: OSMI Claim Ownership	31
Figure 7-1: Western San Juan Caldera Complex	45
Figure 7-2: Generalized Geologic Map of the Silverton / Ouray / Telluride Area	46
Figure 7-3: Example of the Role of Dikes in the Geological Model, Completed During Initial Geological F by SRK During 2015 (Section viewing NW)	
Figure 7-4: Important Structural Features and Principal Veins in the Project Area	51
Figure 7-5: Revenue Tunnel and the Yellow Rose, Terrible and Virginius Veins	54
Figure 9-1: Historical Underground Samples	59
Figure 9-2: Historical Sampling within F9 Stope	60
Figure 9-3: Collar Plot Showing Sampling and Drilling Collar Locations - 2012 to 2013	61
Figure 9-4: OSMI Sampling Locations	62
Figure 9-5: Summary of Exploration Sampling by Year	63
Figure 10-1: Drillhole Traces (blue) Covering the Virginius, Footwall and Terrible Veins, Plotted Against S Trace of Veins (Red)	
Figure 10-2: Drillhole Traces (Blue) Covering the Yellow Rose Veins (Red)	68
Figure 10-3: Example of Cross Section Showing Interaction of Vein to Drilling Intersection	69
Figure 10-4: Example of Historical Logging Sheets by Ranchers (1983)	70
Figure 10-5: Cross Section showing Example of OSMI Drilling Sections Relative to Vein	72
Figure 11-1: Analysis of Assays for CRM 601 Submissions per Element	79
Figure 11-2: Analysis of Blank Samples for Ag during 2016 OSMI Submissions	80
Figure 11-3: Example of XY Scatter Chart to Compare Original to Repeat Assays	81
Figure 13-1: Metal Recovery into the Lead and Zinc Rougher Concentrates vs. Grind Size	91
Figure 13-2: Metal Recovery to the Lead and Zinc Rougher Concentrates vs. Cyanide Addition	91
Figure 13-3: Metal Recovery into the Lead Rougher Flotation Concentrate vs. Retention Time	92
Figure 13-4: Lead Recovery into First Stage Cleaner Concentrate vs. Retention Time	94
Figure 13-5: Metal Recovery during First-Stage Lead Cleaner Flotation vs. Retention Time (No Regrind	J)94
Figure 13-6: Locked-Cycle Test Flowsheet	95
Figure 13-7: Rougher Flotation Metal Recoveries vs. Retention Time: Virginius High Dilution Var Composite	
Figure 13-8: Rougher Flotation Metal Recoveries vs. Retention Time: Hanging Wall Variability Compos	ite 100
Figure 13-9: Rougher Flotation Metal Recoveries vs. Retention Time: Master/Yellow Rose Van Composite	
Figure 13-10: Feasibility Study Metallurgical Sample Locations	108
Figure 13-11: Lead Cleaner-2 Flotation vs. Retention Time	115
Figure 13-12: Zinc Cleaner-2 Flotation vs. Retention Time	116
Figure 13-13: Silver Recovery into the Pb Concentrate vs. Feed Grade	126

Figure	13-14: Gold Recovery into the Pb Concentrate vs. Feed Grade126
Figure	13-15: Lead Recovery into the Pb Concentrate vs. Feed Grade
Figure	13-16: Copper Recovery into the Pb Concentrate vs. Feed Grade
Figure	13-17: Zinc Recovery into the Pb Concentrate vs. Feed Grade
Figure	13-18: Zinc Recovery into the Zn Concentrate vs. Feed Grade
Figure	14-1: Example of Geo-Referenced Historical Maps for the Virginius Vein136
Figure	14-2: Plan Showing Modelled Geological Domains (Veins) at Yellow Rose137
Figure	14-3: Oblique View Showing Geological Domains (Veins) for the Virginius Vein
Figure	14-4: Log Probability of Sample Lengths in Veins for the Virginius Vein (kzone1) and Yellow Rose Vein
Figure	14-5: Example of Declustering Investigation in KZONE 1, Showing Raw Samples as Crosses and Declustered Mean for Same Area as Points
Figure	14-6: Long Section, Showing Estimation Parameter Ellipse and Stope Outlines Looking Southwest148
Figure	14-7: Long Sections Showing Ag (oz/st) Estimates Versus Composite Grades151
Figure	14-8: Example of Swath Plots (Revenue and Yellow Rose) Used to Review Block Estimates versus Composites Along Strike of Each Vein
Figure	14-9: Search Pass Estimated for Blocks of Virginius Vein (Long Section) Looking Southwest157
Figure	14-10: Long Section (Looking Southwest) of Virginius Vein Showing Final Classification157
Figure	14-11: Long Section (Looking Southwest) of Footwall Vein Showing Final Classification158
Figure	14-12: Long Section (Looking Southwest) of Terrible Vein showing Final Classification
Figure	14-13: Long Section (Looking Northeast) of Yellow Rose Vein Classification
Figure	15-1: OSMI Site Layout and Vein Location
Figure	15-2: Resue Mining Test Stope Layout
Figure	15-3: Stope Location
Figure	15-4: Resue Test Stope Photo
Figure	16-1: Long Section of the Virginius Area (Looking Southwest) with Historically Mined Areas, Showing Current Northing and Level Nomenclature
Figure	16-2: Resue Mining Method Details – Long Section
Figure	16-3: Resue Mining Method Details – Long Section on Left, Cross Section on Right
Figure	16-4: Longitudinal Section through the Virginius Vein, showing the Stratigraphy and Historic Mining
Figure	16-5: Virginius Main Vein Resource Blocks – Colored by NSR
Figure	16-6: Virginius Footwall Vein Resource Blocks – Colored by NSR
Figure	16-7: Terrible Vein Resource Blocks – Colored by NSR
Figure	16-8: Yellow Rose Main Vein Resource Blocks – Colored by NSR
Figure	16-9: Resue Drill Hole Pattern Used the 561 Test Stope196
Figure	16-10: Test Stope Area and Sequence
Figure	16-11: 561 2017 Test Stope Measured Overbreak Results199
Figure	16-12: Revenue and Terrible Area Planned Development (Rotated View- Looking Toward Portal)203

Figure 16-13: Yellow Rose Area Planned Development (Rotated View- Looking Toward Portal)	203
Figure 16-14: Mine Design Colored by NSR – Rotated View Looking Southwest (Looking from the Portal)	205
Figure 16-15: Mine Design Colored by NSR – Rotated View Looking Northeast (Looking Toward the Po	,
Figure 16-16: Mine Design Colored by Mining Width – Rotated View Looking Southwest (Looking From Portal)	
Figure 16-17: Mine Production Schedule, Colored by Time-Period - Rotated View Looking Southwest (Lool from the Portal)	•
Figure 16-18: Overall Mine Layout Including Stopes and Development	215
Figure 16-19: General Layout for Month 23 Time Frame	217
Figure 16-20: Month 23 South Side Auxiliary Ventilation Systems, Option 1	218
Figure 16-21: Month 23 South Side Auxiliary Ventilation Systems, Option 2	218
Figure 16-22: General Layout for Month 35 Time Frame	219
Figure 16-23: General Layout for Month 65	220
Figure 16-24: Revenue Area Airflow Distribution	220
Figure 16-25: Yellow Rose Stope and Development Ventilation Layout	221
Figure 16-26: Shaft 1 Duct Configuration	223
Figure 16-27: 1200 and 1800 Level Ducts	224
Figure 17-1: Simplified Flowsheet with the Principal Process Areas	232
Figure 18-1: Photograph of Winter Access Road	245
Figure 18-2: Alpine Safety Operating Plan – Regional Slide Paths	246
Figure 18-3: Photograph of the Access Road and the Height Limit for the Road in the Rock Overhang	247
Figure 18-4: Ouray Administrative/Warehouse Building and Yard (Street View)	248
Figure 18-5: Ouray Administrative/Warehouse Building and Yard	248
Figure 18-6: Existing Surface Infrastructure	250
Figure 18-7: Planned Surface Infrastructure	251
Figure 18-8: Photo of an Alimak Hek Style Elevator	253
Figure 18-9: Emergency Hoist and Headframe Photos	254
Figure 18-10: Passive Water Treatment System Cross-Section (Schematic)	256
Figure 18-11: Existing Compressors	257
Table 18-12: Site Connected Power Requirements	258
Figure 18-13: Upper Level Plan View of New Changehouse Area	262
Figure 18-14: Ground Level Plan View of New Switchyard Building	263
Figure 18-15: General Arrangement of Compressor/Reagent Building	264
Figure 18-16: Plan View of TSF Dry Stack Pile with Limits of Pile Shown in Red	268
Figure 18-17: Required Tailings Storage Capacity Curve	269
Figure 18-18: Perspective View of the TSF Piles Looking Towards Southwest After 5 Years of Production	270
Figure 18-19: Perspective View of the TSF Piles Looking Towards Southwest After Life-of-Mine	270
Figure 18-20: Example Slope Stability Output for Atlas North-Northeast Cross Section A	271

Figure 20-1: Area-Wide Surface Water and Groundwater Sample Locations	280
Figure 22-1: Project After-Tax Metrics	311
Figure 22-2: After-Tax NPV (5%) Sensitivity Chart (US\$000's)	313
Figure 23-1: Location of the Camp Bird Mine Relative to the OSMI Boundaries	314
Figure 24-1: Overall Project Restart Schedule	315
Figure 24-2: Ramp-up Throughput Plan	316
Figure 24-3: Planned Construction Sequence and Lead Times	320
Figure 24-4: OSMI Organization Chart	323
Figure 24-5: Stope School Objective Outline	326

1 Summary

This report is prepared as a Technical Report for Ouray Silver Mines, Inc. (OSMI or Company) and Aurcana Corporation (Aurcana) by SRK Consulting (U.S.), Inc. (SRK) and is based on a 2017 Revenue-Virginius Mine (the Project) Feasibility Study (FS) updated with 2018 capital and operating cost estimates.

1.1 Property Description and Ownership

The Project is located in southwestern Colorado approximately 5.5 miles southwest of the town of Ouray. The Revenue Tunnel, the site of the current surface activity, is located at longitude 107.750° W, latitude 37.974° N (mine grid coordinates of 100,630 ft E, 99,100 ft N).

The Project is a past silver producer in the Sneffels Mining District. Silver was reportedly discovered at the Project in 1876 with underground production beginning in 1880 and continuing through 1906 when, according to Ranchers Exploration and Development Corp. (Ranchers), the mine flooded (Ranchers, 1980). Additional testwork and planning began on the property in 2012 by Star Mine Operations (Star Mines). In May 2014 Star Mines sold a portion of mine ownership to Fortune Revenue Silver Mines, Inc. (FRSM), a wholly owned subsidiary of Fortune Minerals Limited (FML), which operated the property for a short time under this structure. In October 2014, FRSM received senior secured financing, (the "PFA"), guaranteed by FML, from LRC-FRSM, LLC (LRC-FRSM), and used that financing plus shares of FML to acquire the balance of 100% of the assets and finalize commissioning of the mine. After default on the PFA, on July 17, 2015 Fortune Minerals and LRC-FRSM entered into a Master Restructuring Agreement (MRA). As part of the MRA, FML transferred 100% ownership of FRSM to LRC-FRSM II, LLC (an affiliate of LRC-FRSM) and on July 21, 2015, the name of the operating entity was changed from Fortune Revenue Silver Mines, Inc. (OSMI).

On July 27, 2018, LRC-FRSM and LRC-FRSM II (collectively, "LRC Group") entered into a Letter of Intent to sell, respectively, the PFA and 100% of OSMI to Aurcana Corporation ("Aurcana") in exchange for the issuance of common shares of Aurcana to the LRC Group (the "Transaction"). Following the Transaction, including shares issued pursuant to an equipment purchase agreement for the benefit of Aurcana but prior to any shares issued as a result of an equity financing related to the Transaction, the LRC Group will own approximately 75% of Aurcana and Aurcana will own 100% of OSMI on a debt free basis, including 100% of the shares of common stock of OSMI and the PFA. The completion of the Transaction remains subject to the fulfillment of certain conditions, including the execution of a definitive binding agreement in respect of the Transaction, completion of due diligence, and receipt of shareholder and regulatory approvals.

1.2 Geology and Mineralization

The Virginius, Terrible and Yellow Rose veins located within the current OSMI property are the focus for the current Mineral Resource update. All three are quartz veins containing silver (Ag), gold (Au), copper (Cu), lead (Pb) and zinc (Zn) minerals hosted primarily in the San Juan volcanic rocks. Veins range from several inches up to 6 ft in width, with a resource average of approximately 1.1 ft, and have been mined historically and drilled over a vertical extent of over 3,000 ft. The Virginius Vein has been mapped at surface by the U.S. Geological Survey (USGS) over a distance of approximately

11,700 feet (ft) the Terrible Vein has been traced for over 4,000 ft and the Yellow Rose up to 16,000 ft extending off the current property limits

Mineralization found in the Virginius, Terrible and Yellow Rose veins is interpreted as epithermal (formed at shallow depths and low to medium temperatures). Some workers are of the opinion that it may also be interpreted as deep epithermal or shallow mesothermal. The Virginius has been previously described to be of shallow emplacement and it hosts galena, sphalerite, pyrite, tetrahedrite arsenopyrite, marcasite, polybasite and minor covellite. Gangue minerals include quartz, barite, sericite, calcite, rhodochrosite, ankerite, siderite and other carbonate minerals. Some authors have reported adularia, and other more obscure silicates, carbonates and sulfates. Alteration minerals include sericite, beidellite and other clays as well as iron and magnesium oxides.

Mineralization is described as massive, occurring in nodules and bands in association with calcite. Galena was described as coarse-grained with euhedral crystals up to 3.5 inches long. Quartz occurs as rhythmically banded veins characteristic of low sulfidation epithermal vein development.

1.3 Status of Exploration, Development and Operations

The Project has been mined historically at various periods. OSMI also completed a validation study of the historical database, which included translating the historical descriptive drilling logs into a series of logging codes in the current database. There have been five stages of drilling at the Project, which included Federal (12 holes for 6,395 ft), Ranchers (337 holes for 84,729 ft), Sunshine (18 holes for 6,567 ft, and Star Mines (103 holes for 42,061 ft), all via surface or underground rigs. In additional to the underground drilling a total of 2,331 channel samples have been taken by various owners. The validation work has been extended to both diamond drilling and underground channel sampling. In 2016 OSMI also completed a data capture and revised survey of the historical underground workings from historical maps, to increase the confidence in the spatial location of the sampling.

In 2016, OSMI drilled 42 NQ core holes from underground in the Monongahela (Virginius) Vein using an underground drilling rig with access from four exploration drifts (two in the hangingwall and two in the footwall of the vein).

All 2016 drillhole collars were surveyed by an OSMI surveyor. Downhole surveys were completed on the majority of drillholes by the drilling company using a REFLEX EZ-SHOT[™] tool. Downhole surveys were not completed in some of the drillholes due to tool availability and safety concerns with use of survey equipment in steep up-holes. The drillholes were surveyed at varying intervals along the hole and at the bottom of the hole. The drillholes, which did receive downhole surveys, did not show significant deviation from planned orientations.

1.4 Mineral Processing and Metallurgical Testing

On behalf of OSMI, SRK designed and supervised both prefeasibility-level and feasibility-level metallurgical development programs for the Revenue-Virginius Project. The prefeasibility metallurgical program was fully documented in SRK's prefeasibility study, "Prefeasibility Study Report – Revenue Virginius Mine – Ouray Colorado", August 3, 2016 (PFS). The results of the feasibility metallurgical program are detailed in this FS report. For the purposes of continuity, the key results from the PFS metallurgical program are also presented in this report. Both metallurgical programs were conducted by FLSmidth USA, Inc. (previously Dawson Metallurgical Laboratory). The PFS metallurgical program was conducted on a bulk 1-ton (t) master composite representing the Virginius Main Vein and on

variability composites characteristic of the Virginius Footwall Vein, and the Yellow Rose Vein. The Feasibility Study (FS) metallurgical program was conducted on a master composite formulated to represent the weighted average ore contribution from the various mining areas of the mine and on five variability composites representing ore from selected areas of the Virginius Main Vein, Virginius Footwall Vein and the Yellow Rose Vein. The ore is a complex polymetallic containing gold, silver, lead, copper and zinc. Silver is the metal of primary importance and is associated primarily with the copper mineralization (tetrahedrite).

Feasibility-level metallurgical studies were based on the outcomes of the PFS metallurgical program and resulted in further optimization of the flotation process to recover the contained metal values in separate lead and zinc cleaner flotation concentrates. A separate copper concentrate was not produced. This program was conducted on variability composites that represented spatial and grade variations within the Virginius Main Vein, the Virginius Footwall Vein and the Yellow Rose Vein, as well as a master composite that was formulated to represent the weighted average contribution from these veins during the first five years of mining. Generally, lead concentrates containing about 65% lead and over 250 ounce per short ton (oz/st) silver and zinc concentrates containing about 54% Zn and 15 to 20 oz/st silver were consistently produced.

Metal recoveries were estimated for the ore grade ranges shown in Table 1-1 and the following general observations can be made:

- Silver recovery is similar to the PFS with recoveries into the lead concentrate ranging from 93% to 95% depending on feed grade;
- Gold recovery into the lead concentrate ranges from 58% to 68% with an additional 4-6% recovery into the zinc concentrate depending upon feed grade;
- Lead recovery into the lead concentrate is very consistent at 94% to 95% and relatively independent of feed grade;
- Copper recovery into the lead concentrate ranges from 84% to 91% depending upon feed grade; and
- Zinc recovery into the zinc concentrate is estimated at 60% to 86% depending upon feed grade.

Multi-element analyses were conducted on the final lead and zinc concentrates produced from lockedcycle tests on the master composite. Significant quantities of arsenic and antimony were found in the lead concentrate. The zinc concentrate contained significant levels of arsenic and cadmium.

Table 1-1: Estimated Metal Recoveries for the Virginius-Revenue Mine

Silver Recovery Estimate

Ore Grade Range (oz/st Ag)			
Low	10.0	20.0	30.0
High	20.0	30.0	47.0
Estimated Silver Recovery (%)			
Pb Conc.	93	94	95
Zn Conc.	1	1	1

Gold Recovery Estimate

Ore Grade Range (oz/st Au)			
Low	0.005	0.040	0.079
High	0.040	0.079	0.100
Estimated Gold Recovery (%)			
Pb Conc.	58	63	68
Zn Conc.	6	5	4

Lead Recovery Estimate

Ore Grade Range (Pb %)			
Low	1.0	2.1	5.0
High	2.1	5.0	8.5
Estimated Lead Recovery (%)			
Pb Conc.	94	94	95
Zn Conc.	1	1	1

Copper Recovery Estimate

Ore Grade Range (Cu %)										
Low	0.06	0.20	0.30							
High	0.20	0.30	0.50							
Estimated Copper Recovery (%)										
Estimated	Copper	Recove	ery (%)							
Estimated Pb Conc.	Copper 84	Recove	e ry (%) 91							

Zinc Recovery Estimate

Ore Grade Range (Zn %)										
Low	0.5	1.2	3.0							
High	1.2	3.0	5.0							
Estimate	ed Zinc F	Recover	y (%)							
Pb Conc.	31	23	10							
Zn Conc.	60	71	86							

Source: SRK, 2017

1.5 Mineral Resource Estimate

SRK has produced updated Mineral Resource estimates for Ag, Au, Cu, Pb and Zn on three main vein systems, namely the Virginius, Terrible and Yellow Rose systems. All three veins have been explored and mined to various degrees in the past.

An updated geological model has been produced by SRK based initially on the main lithological units, and then via grades to provide the best estimate of the location of the mineralization within the geological units. All results from channel samples and drilling at the Project that are within the wireframes have been used in the mineral resource estimate.

SRK has undertaken geological modelling to construct updated mineralization wireframes for the Virginius Vein system, Terrible Vein and the Yellow Rose Vein systems. SRK used the 3D solids

Page 4

created in Leapfrog to code the drillholes to differentiate between mineralization and waste, and undertook statistical and geostatistical analyses on the composited data, as constrained by the modelled wireframes.

SRK has produced grade estimates for Ag, Au, Cu, Pb, Zn using an Inverse Distance Squared (ID2) algorithm, using a combined drilling and channel sampling database. To reduce the potential impact of localized high-grades overly influencing the estimates, SRK has declustered the channel samples to 50 ft x 50 ft x 50 ft panels prior to estimation and has weighted the samples during grade estimation by their respective decluster values.

The Mineral Resource classification uses the Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Definition Standards - For Mineral Resources and Mineral Reserves, prepared by the CIM Standing Committee on Reserve Definitions and adopted by CIM Council on May 14, 2014. The Resources at the Project have been classified as Measured, Indicated and Inferred at Yellow Rose and Virginius Veins. The Terrible Vein has been limited to Indicated and Inferred, whereby Indicated material is focused around diamond drilling completed from surface by previous owners.

The current proposed mining method for the Project will result in all material within an established stope being mined, and therefore the direct application of a cut-off grade (CoG) on a block by block basis is not considered appropriate for the Project. SRK has accounted for the CoG during the classification of Measured and Indicated material by working with OSMI staff on potential mining areas. Once an area was identified SRK analyzed the blocks based on the confidence criteria laid out in Section 14.9, and coding the model with the Net Smelter Return (NSR) value. Each area has then been evaluated to ensure the defined areas remain above the NSR CoG.

In comparison, for the inferred resources SRK does not consider there to be sufficient confidence in the estimates to define the edges of any potential stope areas. For the purpose of defining the potential for economic extractions, SRK assumed a NSR cut-off of US\$200/st, and the final classification and grade cut-offs have been reviewed on long sections to ensure continuity.

The updated Mineral Resource for the Project with an effective date of March 1, 2017 is presented in Table 1-2.

		Tons	Tonnage		G	rade				Con	tained M	etal	
Classification	Vein	(kst)	Factor	Ag	Au	Pb	Cu	Zn	Ag	Au	Pb	Cu	Zn
	(KSI)	I actor	(oz/st)	(oz/st)	(%)	(%)	(%)	(koz)	(koz)	(klb)	(klb)	(klb)	
	Virginius Main	218.0	11.0	22.6	0.07	5.15	0.24	1.89	4,918	15	22,433	1,058	8,262
	Virginius FW	58.0	11.0	25.8	0.03	4.05	0.36	1.61	1,495	2	4,695	416	1,865
Measured	Terrible	-	-	-	-	-	-	-	-	-	-	-	-
	Yellow Rose	38.9	11.0	22.1	0.05	4.51	0.17	2.53	860	2	3,506	135	1,966
	Total Measured	314.9	11.0	23.1	0.06	4.86	0.26	1.92	7,273	19	30,634	1,609	12,093
	Virginius Main	311.0	11.0	24.2	0.06	4.38	0.26	2.56	7,516	19	27,262	1,587	15,921
	Virginius FW	103.0	11.0	12.6	0.03	2.67	0.21	1.20	1,298	3	5,501	431	2,472
Indicated	Terrible	49.0	11.0	17.6	0.06	7.44	0.14	1.46	861	3	7,287	137	1,435
	Yellow Rose	209.0	11.0	11.8	0.03	2.44	0.10	1.69	2,460	7	10,180	401	7,051
	Total Indicated	672.0	11.0	18.1	0.05	3.74	0.19	2.00	12,135	32	50,230	2,556	26,879
	Virginius Main	529.0	11.0	23.50	0.06	4.70	0.25	2.29	12,434	34	49,695	2,645	24,183
	Virginius FW	161.0	11.0	17.35	0.03	3.17	0.26	1.35	2,793	5	10,196	847	4,337
M + I	Terrible	49.0	11.0	17.57	0.06	7.44	0.14	1.46	861	3	7,287	137	1,435
	Yellow Rose	247.9	11.0	11.77	0.03	2.44	0.10	1.69	3,320	9	13,686	536	9,017
	Total M + I	986.9	11.0	19.7	0.05	4.10	0.21	1.97	19,408	51	80,864	4,165	38,972
	Virginius Main	170.0	11.0	30.7	0.07	5.96	0.42	3.07	5,220	12	20,268	1,444	10,440
	Virginius FW	1.0	11.0	19.0	0.00	2.20	0.20	0.95	19	0	44	4	19
Inferred	Terrible	52.0	11.0	28.8	0.12	7.04	0.11	1.31	1,499	6	7,323	115	1,359
	Yellow Rose	108.0	11.0	20.9	0.04	1.34	0.15	1.72	2,258	4	2,894	325	3,724
	Total Inferred	331.0	11.0	27.2	0.07	4.61	0.29	2.35	8,996	22,000	30,529	1,888	15,542

Table 1-2: OSMI Mineral Resource Estimate as of March 1, 2017 – SRK Consulting (U.S.), Inc.

• Mineral Resources are reported inclusive of the Mineral Reserves.

• Mineral Resources are not Mineral Reserves and do not have demonstrated economic viability. There is no certainty that all or any part of the Mineral Resources estimated will be converted into Mineral Reserves.

• Mineral Resource tonnage and contained metal have been rounded to reflect the accuracy of the estimate, and numbers may not add due to rounding.

• All Measured and Indicated estimates with the defined wireframes are considered to have potential for economic extraction as the entire level will be mined

• Inferred Mineral Resources are limited using a NSR cut-off US\$200/st.

Metal price assumptions considered for the calculation of NSR are: Gold (US\$1,270/oz), Silver (US\$18.55/oz), Lead (US\$0.95/lb), Copper (US\$2.55/lb) and Zinc (US\$1.15/lb).

• Cut-off calculations assume average metallurgical recoveries equal to: Gold (65%), Silver (96%), Lead (96%), Copper (94%) and Zinc (89%).

• The resources were estimated by Benjamin Parsons, BSc, MSc Geology, MAusIMM (CP) #222568 of SRK, a Qualified Person.

1.6 Mineral Reserve Estimate

Based on the orientation and width of the mineralization, review of historic mining and available geotechnical information, a resue mining method is appropriate where waste rock serves as backfill as the stope is advanced in an overhand manner. This method is highly selective and allows for mining narrow widths down to 6 inches. The design assumes mining of large panels where raises/infrastructure is used for the entire panel length. There may be places along the panel which fall below CoG, however these must be mined due to the mining method and infrastructure. These lower grade areas are included in the reserve, however the block NSR is above cut-off.

All mineral reserve tonnages are expressed as dry short tons (st) (i.e., no moisture) and are based on the density values stored in the block model. Inferred material is not included in the design. Mining dilution has also been applied with a grade of zero.

A 3D mine design has been created representing the reserve areas. Dilution is included in the reserve and a 100% mining recovery of the planned mining areas is assumed.

An NSR approach was used and takes into account revenue for four elements (Zn, Pb, Ag and Au) and production of two concentrates (lead concentrate and zinc concentrate). Planned mining areas were evaluated on a value basis to ensure they were economic.

Mineral reserves were classified using the 2014 CIM Definition standards. The mineral reserve statement for OSMI is presented in Table 1-3. The mineral reserve estimate is as of June 15, 2018, which is the date when final quotes were received and economic model was compiled.

Area	Description	Tons	Ag	Au	Pb	Zn	Contained Ag	Contained Au	Contained Pb	Contained Zn	NSR
Alea	Description	(kst)	(oz/st)	(oz/st)	(%)	(%)	(koz)	(koz)	(klb)	(klb)	(US\$/st)
	Proven	203.5	24.47	0.06	5.09	1.75	4,980	12.6	20,720	7,124	500
Virginius	Probable	206.6	30.35	0.06	5.11	2.80	6,270	13.1	21,133	11,571	602
	P+P	410.1	27.43	0.06	5.10	2.28	11,251	25.7	41,853	18,694	551
	Proven	0	0	0	0	0	-	-	-	-	0
Terrible	Probable	44.9	17.95	0.05	7.40	1.37	806	2.2	6,642	1,229	406
	P+P	44.9	17.95	0.05	7.40	1.37	806	2.2	6,642	1,229	406
	Proven	40.9	20.19	0.05	4.20	2.31	825	2.1	3,433	1,887	419
Yellow Rose	Probable	79.2	16.68	0.04	3.29	1.83	1,321	2.8	5,209	2,896	338
	P+P	120.0	17.87	0.04	3.60	1.99	2,145	4.9	8,642	4,784	366
	Proven	244.4	23.75	0.06	4.94	1.84	5,805	14.7	24,153	9,011	486
All Areas Total	Probable	330.7	25.39	0.05	4.99	2.37	8,397	18.1	32,985	15,696	512
	P+P	575.1	24.70	0.06	4.97	2.15	14,202	32.8	57,138	24,707	501

Table 1-3: OSMI Mineral Reserves Estimate as of June 15, 2018 – SRK Consulting (U.S.), Inc.

• All figures are rounded to reflect the relative accuracy of the estimates. Totals may not sum due to rounding. NSR listed here may be somewhat different than values calculated in the final economic model due to updated information at time of economic modeling.

• Mineral reserves are reported using an NSR CoG based on metal price assumptions*, metallurgical recovery assumptions**, mining costs, processing costs, general and administrative (G&A) costs, and treatment and refining charges. Mining costs, processing costs, and G&A costs total US\$240.51/st.

* Metal price assumptions considered for the calculation of NSR are: Gold (US\$1,270/oz), Silver (US\$18.55/oz), Lead (US\$0.95/lb) and Zinc (US\$1.15/lb). ** Metallurgical recoveries for payable items in the Pb concentrate are: Gold (60%), Silver (95%), and Lead (95%). Metallurgical recoveries for payable items in the Zn concentrate are: Zinc (54%).

• Mineral reserves have been stated on the basis of a mine design, mine plan, and cash-flow model. Full mining recovery of designed areas is assumed. Mining dilution is applied at zero grade and ranges from 5.9% to 26.8%. A minimum mining width of 6inches is used.

• The Mineral reserves were estimated by OSMI. Joanna Poeck, (BS Mining, MMSA, SME-RM) a Qualified Person, reviewed and audited the reserve estimates.

1.7 Mining Methods

Geotechnical

SRK has conducted a geotechnical evaluation of the Project (SRK, 2016). Geotechnical core logging, structural mapping of drifts, and laboratory strength testing of drill core samples were used to characterize the mineralized rock and surrounding host rock. The characterization programs consisted of logging of 1,274 ft of core from drillholes located on the 2,000 ft level, drift face mapping from 30 stations in existing access drifts, laboratory strength testing of 38 historic and 20 new core samples. The new samples were tested by Agapito Associates in Grand Junction, Colorado. Because only a limited number of tests have been conducted to date, SRK has used the 33-percentile values for design purposes. Confidence in the assumed rock mass characterization values used in the design comes from observations of ground conditions in the accessible historic workings.

The Virginius Vein was divided into four structural-geotechnical domains: the hangingwall (HW), dike (Dk) including mineralized vein, footwall (FW), and the countryrock of the San Juan formation (SJ). These domains were based primarily on the visible geologic structure near the vein, historic ground conditions, and the characterization data. The domains were used as the basis for developing the geotechnical design parameters. All of these domains are generally characterized as "Good" rock quality.

The stable open stope dimensions were estimated using the Potvin (2001) stability method. The size of open stope areas is 6 ft drift plus 6 ft resue slot with up to 6 ft wide vein and up to 1,000 ft long along vein strike. Stability estimates were also made for shrinkage stopes (only F-9 stope in current plan). Based on historic experience at the mine shrinkage stopes should remain stable. Ground support requirements were estimated using empirical support charts developed by Barton (1974).

Mining Methods

The reserves consider three of the many known veins within the Project - the Virginius, Terrible and Yellow Rose Veins. All are quartz veins containing silver, gold, copper, lead and zinc minerals hosted primarily in the San Juan volcanic rocks. Veins range from several inches up to several feet, and have been mined and drilled over a vertical extent of over 3,000 ft. The veins typically have dips around 70° but vary locally from approximately 50° to 85°.

The property has been historically mined since the late 1800's. A new 300 st/d underground mill was constructed around 2013, though commercial production has not yet occurred. Based on the orientation and width of the mineralization, review of historic mining, and available geotechnical information, a resue mining method is appropriate where waste rock serves as backfill as the stope is advanced in an overhand manner. This method is highly selective and allows for mining narrow widths down to 0.5 ft. The mine has a significant amount of high grade Ag ore carried in narrow vein structures.

Based on the NSR of the blocks in the resource model, large mining panels/stopes are manually identified in long section. The geologic vein shape is cut to the mining panels/stopes and tonnages/grades are reported for each stope. Stope dilution is calculated in the block model for each block, based on the specific block width, and is also reported to give an average dilution for the entire stope. Tonnages/grades within a given stope are then diluted, based on the average dilution of that stope, in a spreadsheet. The average diluted grade of the entire stope panel is then compared to the CoG to ensure economic viability. A 3D design of the development required to mine the stopes was completed. Rehabilitation of existing workings is used when practical. The mining widths are narrow

JAO/TmP

and average approximately 1.5 ft in the Virginius and Terrible areas, and 2.5 ft in the Yellow Rose area.

A stope block is identified having minimum approximate dimensions of approximately 500 to 1,000 ft along strike and up to 300 ft in height. Typically, an off-ore access drift is developed on the footwall along the length of the stope. Two-compartment raises known as cribbed manways, are developed on each end of the stope from the level below providing access to any level of the stope. In the center of the stope a three-compartment service raise with a manway, ore pass, and equipment slide is constructed as the primary access. Each raise will have utilities run up into the stope so that miners can pull water or air from either side of the stope or from the middle service raise.

The underground mine design process results in reserves of 575 kst (diluted) with an average grade of 24.70 oz/st Ag, 0.06 oz/st Au, 4.97% Pb, and 2.15% Zn. The overall NSR value for the reserve is US\$501/st¹. These tonnages and grades include only Proven and Probable material. Figure 1-1 shows the mine design colored by NSR and width.



Source: SRK

Figure 1-1: Mine Design Colored by NSR – Rotated View Looking Southwest (Looking from the Portal)

A monthly production schedule was generated using Excel for each development and stope item. This schedule was created by OSMI and SRK converted the line items and dates into an iGantt schedule to verify the scheduling order, required development and production tonnages/grades by period. The schedule targeted approximately 7,670 st ore/month (92,000 st/y).

¹ Note that concentrate grade, recovery and market terms (e.g. payability) assumption used for LoM average NSR calculations may vary somewhat from final assumptions in the economic model, as these assumptions were made prior to the results of the metallurgical and concentrate marketing studies. These changes in the economic model assumptions are not considered material to the mine design process.

1.8 Recovery Methods

The processing plant will use conventional processing technologies of crushing, grinding, flotation, and concentrate dewatering to produce two separate lead and zinc concentrates. The plant will also collect tailings and produce a filtered tails product for disposal. The concentrator facility has an annualized design throughput of at least 91,390 st/y. The recovery of the lead and zinc concentrates will be performed by a traditional flotation process used to upgrade concentrate grades. The predicted recovery of lead and zinc are based on flotation testing completed by FLSmidth. The lead recovery based on testwork indicates that up to 95% recovery is possible into the lead concentrate. The zinc recovery based on testwork also indicated that up to 86% recovery is possible into the Zinc concentrate.

The ore from the mine will be transported by rail to a crushing circuit followed by a rod mill in open circuit and ball mill in closed circuit. Once the targeted liberation size of the particles from the ball mill slurry is reached, the slurry will be sent to the flotation circuit for concentration. The flotation circuit recovery and grade was improved from the installed flowsheet by the addition of new flotation capacity. The flotation circuit includes rougher, cleaner and final column stage flotation. This new flowsheet replaced the flowsheet proposed by Lycopodium during the 2016 PFS and eliminated the lead/copper flotation separation process, the regrind mill, and the online sample analysis system. The addition of concentrate thickeners improved the final concentrate capacity and feed delivery system to the filter press dewatering stage. Importantly, debottlenecking and design improvements including the addition of the Derrick screens and change to a new rod mill on the front end of the plant will increase performance in both consistency of feed and availability.

1.9 Project Infrastructure

1.9.1 Off-site Infrastructure and Product Logistics

The existing and functioning Project off-site infrastructure includes access to the mine on existing improved roads and a warehouse/administrative facility located in Ouray. The area has significant developed infrastructure and is supported by the communities of Ouray and Ridgway with the combined population of both communities and the surrounding Ouray county of approximately 4,250. The City of Montrose (population >20,000), Colorado is within a 30-minute drive from Ouray and is expected to provide the bulk of housing for employees. These communities combined have experienced labor, supporting infrastructure and established businesses that have supported the mining industry in the area in the past.

The mine is located approximately 5.5 miles southwest of the town of Ouray and is accessed from U.S. Highway 550 near Ouray on Ouray County roads 361 and 26. The county roads are improved gravel that can be impacted by severe winter weather. The existing 15,000 square foot (ft²) off-site warehouse in Ouray houses administrative offices and includes a parking lot, laydown yard,

The mine will produce approximately 30 super sacks of concentrate per day that OSMI will transport from the mine to the Ouray warehouse for storage and shipping to the buyer's destination. For this study, transportation cost is based on transport to a delivery point in Mexico or Canada.

1.9.2 On-site Infrastructure

The majority of the required Project infrastructure currently exists and has supported prior operations. When the Project was last in operation in June 2015 a number of inefficiencies were determined to

exist. During restart, additional infrastructure will be constructed including a rail yard, expanded office and miners dry, dump wall repair, reagent storage building, and additional weather protection for outside facilities.

The existing surface facilities, as shown in Figure 1-2, include a tailings storage area, stockpile for low grade ore, administrative building and miner dry, mill building which also houses the tailings filters, laboratory and reagents and miscellaneous storage area. Other facilities not shown include a tailings thickener, rail system and car unloader, emergency generator, diesel storage tank, warehouse and shops. The site has several laydown and storage areas.

Tailings Storage Facility (TSF) — SRK has designed the filtered tailings piles within the existing permit boundaries to a height that can store the required storage capacity of the current FS Life-of-Mine (LoM) plan. The tailings have been tested for shear strengths and those values have been used in stability analyses to demonstrate that the factor of safety (FOS) is greater than the minimum 1.3 criteria. The availability of the 2 separate piles provides the operational flexibility to store tailings and 222,469 st of waste rock, for a total of 797,434 st of combined waste and tailings. Tailings can be placed on the Revenue pile (eastern pile) during the summer months from May through November. The tailings need to be placed on the Atlas pile (western pile) during the winter months from December through April due to avalanche precautions.

The Project has an existing permitted filtered tailings pile. A Tailings and Waste Management Plan of operations conducted by Greg Lewicki and Associates (Lewicki, 2015) and was submitted for the approved TSF permit. This work includes descriptions of the planned filtered tailings as received from the mill, compaction tests results and field compaction requirements, cold weather management plan, and ultimate planned pile configurations. Geotechnical laboratory testing was conducted by CTL Thompson (Thompson, 2015). Additional compaction and direct shear test were conducted on filtered tailings by IGES in Salt Lake City (IGES, 2017). Estimated material properties have been used to compute stability of the tailings stack using SLIDE program. The analysis results indicate a FOS of 2.17 under wet conditions. All cases analyzed have a FOS greater than the minimum 1.3 criteria.

A permit revision in the future will be required to modify the permitted 8.9 million cubic feet (Mft³) storage capacity after about 5 years of continuous production because more than 8.9 Mft³ of tailings will be produced. Since the revision is a volume revision only and is in the same footprint it does not impact the current permit boundary or disturbed area and therefore will be a Technical Revision which does not require public notice. SRK currently sees no reason such Technical Revision would not be granted.



Source: OSMI, 2016

Figure 1-2: Existing Surface Infrastructure

The underground infrastructure includes a portal, main access drift, #1 and #2 shafts, track haulage system, mine power system tied to the backup generator, mine ventilation system, emergency hoist and borehole, compressed air system, mine drainage ditches and pumps, and underground powder and primer magazines, communications systems (both surface and underground), and water supply pumps and sump.

The existing site infrastructure has been in place and functioning in the past during mine operations, most recently in 2015. In 2016, a passive water treatment system designed to capture mine discharge water was completed and fully permitted by OSMI, and is currently in operation.

The Project will add to or modify slightly the existing facilities to further develop the Project. Primary surface infrastructure additions include:

- Increasing backup generator size to 3.0 million watts (MW)to allow full operations to continue in the event that line power is interrupted during the winter and adding a facility to house the generator;
- Improving and upgrading the current electrical system;
- Expanding the existing administrative building and changehouse;
- Covered railyard and warehouse facility at the mine portal;
- Updating the surface crusher/screen system;

- Replacing the emergency hoist in the Hubb-Reed raise with an Alimak-style elevator system and adding ground and water control;
- Rehabilitation of the #1 Shaft and hoist;
- Rehabilitation of the run-arounds in the main haulage drift to allow sidings and create direct line transport of muck to the mill or waste dump wall;
- Construction of a genset and transformer building;
- Adding water treatment systems for a mill bleed stream;
- Updating the compressed air system for both mine and mill with additional capacity and replacing supply lines;
- Adding miscellaneous facilities to support warehousing, utilities and maintenance;
- Updating the laboratory and relocating to an offsite location adjacent to the warehouse in Ouray. Laboratory work will be contracted to an independent third party;
- Adding an access road, bridge, and surface water control system to the future winter tails storage; and
- Updating the IT and communications systems for the mine site and warehouse.

1.10 Environmental Studies and Permitting

Mining and mined land reclamation in the state of Colorado are declared necessary, proper, and compatible activities under the Colorado Mined Land Reclamation Act, Title 34 Article 32 of the Colorado Revised Statutes (CRS). The reclamation approvals and permitting for mine related activities falls under the jurisdiction of the Mined Land Reclamation Board (the Board) and the Colorado Division of Reclamation, Mining and Safety (DRMS). The Project operates in accordance with the DRMS 112(d) Permit Number M2012-032.

On July 5, 2016, the DRMS approved Technical Revision 8 (TR-08) to Amendment 1 of DRMS Permit M201232. TR-08 eliminates the need for Outfall-001, improves mine discharge water quality, and allows infiltration of mine discharge water to groundwater.

The mine currently holds Colorado Discharge Permit System (CPDS) Permit No. CO0000003, which authorizes surface water discharge from the Mine Water Pond to Sneffels Creek (Outfall-001). The Revenue Tunnel Portal discharges mine water through two 8-inch high-density polyethylene (HDPE) pipes to the Mine Water Pond. In accordance with permit conditions, OSMI conducts monthly and quarterly effluent sampling when an outfall is present. The current CPDS permit will expire on August 31, 2018.

On November 23, 2016, OSMI filed a Termination Application with WQCD for Outfall-001A. This termination followed OSMI's implementation of DRMS Permit TR-08 which requested the transfer of discharge to a bio-reactive treatment system with groundwater infiltration (effective September 8, 2016) which also eliminated discharge through Outfall-001A. In June 2017, the WQCD denied the Termination Application, and CDPHE requested OSMI submit a Permit Modification application for Permit No CO0000003 to modify certain aspects of the permit, including construction of an expanded five-stage passive water treatment system and addition of a new Outfall-002A.

A permit modification was submitted to WQCD on October 25, 2018. The WQCD issued a draft permit for public notice on June 14, 2018. Public comments are due July 16, 2018. In addition, OSMI entered into discussions with WQCD to establish a compliance order on consent that will allow OSMI to

construct the upgraded passive water treatment system over two years along with a defined startup period following construction to allow the system to reach operational performance.

The mine also maintains a CPDS General Permit for storm water discharge (Permit No. COR040289, former Permit No. COR040273). This permit requires a Storm Water Management Plan (SWMP) and routine compliance reporting. On October 6, 2016, WQCD field inspectors notified OSMI of deficiencies related the site SWMP from prior operators. On October 13, 2016, OSMI notified WQCD that the deficiencies were corrected by OSMI on its own prior to the October 6, 2016 notice.

The current reclamation bond is US\$476,269. All bonds are held by a fully-funded certificate of deposit with Alpine Bank.

1.11 Capital and Operating Costs

The capital cost estimate is broken down by area including mining, processing plant, surface mobile equipment, infrastructure and engineering and construction contracts. Capital costs were developed by OSMI and Barr Engineering Co. (Barr) (process plant only). SRK reviewed the capital cost buildup and quotations for all areas except the process plant, which Barr maintains responsibility for. The capital costs are inclusive of applicable indirect costs. Contingency has been included in the estimate.

Capitalized preproduction costs, including owner's costs during the construction period, are included as operating and general and administrative (G&A) costs from the start of construction through the end of the 2-month ramp up period. The capital estimate is currently at a $\pm 15\%$ accuracy which is appropriate for a feasibility-level estimate. Costs are reflective of Q2 2018 and are US\$ based so foreign exchange conversion is not required.

The capital cost estimates are based primarily on quotations by vendors on materials, supplies, equipment, and installation. First principle buildups make up the remaining estimates. Escalation has not been included in the estimate. Table 1-4 is a summary of the overall Project capital.

Description	Construction	Ramp Up	Total Initial Capital	Sustaining Capital	Total LoM Capital
Revenue Mine	(\$3,207)	(\$383)	(\$3,590)	(\$301)	(\$3,890)
Revenue Mill	(\$3,899)	(\$124)	(\$4,023)	(\$94)	(\$4,117)
Surface	(\$910)	\$0	(\$910)	(\$222)	(\$1,132)
Site Infrastructure	(\$712)	\$0	(\$712)	(\$179)	(\$891)
Engineering & Construction Contracts	(\$14,522)	(\$1,463)	(\$15,984)	(\$6,837)	(\$22,821)
Subtotal	(\$23,250)	(\$1,970)	(\$25,219)	(\$7,632)	(\$32,852)
Pre-Production Costs	(\$6,982)	\$0	(\$6,982)	\$0	(\$6,982)
Subtotal	(\$30,232)	(\$1,970)	(\$32,202)	(\$7,632)	(\$39,834)
Contingency	(\$1,889)	(\$172)	(\$2,060)	(\$723)	(\$2,784)
Total Capital	(\$32,121)	(\$2,141)	(\$34,262)	(\$8,356)	(\$42,618)
Operating Costs During Ramp Up		(\$2,838)	(\$2,838)		
Net Revenue During Ramp Up		\$306	\$306		
Total Net Capital and Start Up Costs	(\$32,121)	(\$4,673)	(\$36,794)		

Table 1-4: Capital Cost	Summary (US\$000's)
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Source: OSMI, 2018

The operating cost estimate is broken down by area including mining, processing, G&A, and surface operating costs. Operating costs were developed by OSMI and Barr (process plant only). SRK reviewed the operating cost build up and basis of estimates for all areas except processing, for which

Barr maintains responsibility. Contingency has not been included in the operating cost estimate. The estimate is based on Q1 2017 pricing. The operating costs are in US\$ and no foreign currency conversion is required. No escalation has been included in the operating costs. The overall accuracy of the operating cost estimate is $\pm 15\%$ which is appropriate for a feasibility-level estimate.

The Project operating cost summary is presented in Table 1-5 and amounts to US\$251/st ore during the LoM.

Revenue Mine	L	.oM	First 5 Years			
Operating Costs	US\$000's	US\$/st RoM	US\$000's	US\$/st RoM		
Revenue Mining	\$54,895	\$95	\$47,990	\$103		
Revenue Milling	\$29,291	\$51	\$23,796	\$51		
G&A	\$53,530	\$93	\$41,894	\$90		
Surface Operating Costs	\$6,671	\$12	\$5,383	\$12		
Total Operating Costs	\$144,387	\$251	\$119,062	\$254		

Table 1-5: Operating Cost Summary

Source: OSMI 2018

1.12 Economic Analysis

The Project, as designed, will ship 41.5 kst of Pb concentrate and 16.9 kst of zinc concentrates over the current 77-month (approximately 6.5 years) reserve life. Production is forecast to be sold either to a trader or directly to a smelter, with multiple options available based on concentrate quality and volumes. The operation will produce recovered metal of 13.5 million ounces (Moz) silver, 22.5 thousand ounces (koz) gold, 54.5 million pounds (Mlb) of lead and 23.3 Mlb of zinc.

With total capital expenditure over the life of the current reserve of US\$42.6 million and operating costs of US\$251/st ore, the Project will generate after-tax free cash flow of US\$135.1 million over its current 77 month reserve life, based on the flat commodity prices assumed herein. This results in a 1.9 year payback period, an after-tax net present value (NPV) 5% of US\$74.9 million and an after-tax internal rate of return (IRR) of 71%. Total production costs (inclusive of sustaining capital) are forecast to be US\$15.41/oz payable silver, excluding by-product credits. The NSR from Au, Pb, and Zn result in a by-product credit of US\$7.41/oz of payable silver, reducing the total production cost estimate to US\$8.00 per oz payable silver, on a byproduct basis. When calculated based on silver equivalent production, the total production cost is US\$11.01 per oz payable silver equivalent. Pre-tax and after-tax economic metrics are presented in Table 1-6.

Payable Gross Revenue by Metal	Value	% of Gross	Weigh	nted Average Prices
Silver	\$237,995	71%	\$18.50	US\$/oz Ag
Gold	\$25,461	8%	\$1,300	US\$/oz Au
Copper	\$0	0%	\$0	US\$/lb Cu
Lead	\$51,256	15%	\$1.00	US\$/lb Pb
Zinc	\$18,633	6%	\$1.20	US\$/lb Zr
Total	\$333,345	100%		
Estimate of Cash Flow				
	Value	% of G. Rev.		
Total Gross Revenue	\$333,345			
Smelting / Refining	(\$24,520)			
Freight / Insurance	(\$12,986)			
NSR Pre Royalty	\$295,839			
Royalties	(\$5,917)			
Total Net Revenue	\$289,922	87%		
Total Operating Cost	(\$144,387)	-43%		
Operating Profit (EBITDA) Pre-tax Cash Flow	\$145,535	44%		
Total Tax	(\$10,460)			
After Tax Cash Flow	\$135,076			
LoM Capital	(\$42,618)			
Pre-tax Undiscounted Free Cash Flow (US\$000)	\$102,918			
After-tax Undiscounted Free Cash Flow (US\$000)	\$92,458			
Discounted Cash Flow and Returns				
	After-Tax			
Undiscounted Free Cash Flow (US\$000)	\$92,458			
NPV US\$000 @ 5.0%	\$74,883			
IRR	71.2%			
Break Even Years	1.9			

Table 1-6: Pre-Tax and After-Tax Indicative Economic Results (US\$000's)

Source: OSMI, 2018

1.13 Project Implementation

OSMI will conduct a restart program that will include surface and underground projects to move the Project to full production. OSMI developed an implementation plan that addresses the Project schedule, engineering and construction management, procurement, logistics, construction, construction contracting, temporary facilities, temporary utilities, Project planning/execution/reporting, pre-commissioning and commissioning, and startup/turnover. The plan also addresses recruiting and training of new employees.

The program will include projects on surface facilities, the processing plant, and the underground mine. The key construction activities other than mine development are as follows:

- #1 Shaft Rehabilitation and Hoist Commissioning;
- Raisebore Rehabilitation;
- Mill Upgrades and Expansion; and •
- Surface Facilities Expansion. .

OSMI will self-perform a number of the activities and will also manage the overall program. Outside firms will be utilized for the #1 Shaft rehabilitation, raisebore rehabilitation, mill upgrade and expansion and surface facilities expansion installations. A procurement and materials management team will be put in place to support the restart project, the existing Ouray warehouse and the Project on-site facilities that will coordinate the logistics and control of materials, supplies and equipment needed for the restart. OSMI's new Enterprise Resource Planning (ERP) system is currently being commissioned, was designed specifically to the Company's requirements, and will be used to track cost and procurement of materials. Construction of temporary facilities, housing, and general support of the Project are not required as the existing community and site facilities will be used for the restart effort. The Project restart schedule is developed and will take approximately 6 months before the first month of mill processing and 8 months to complete construction, pre-commissioning and commissioning before cash flow positive including working capital and forecast concentrate payment terms. Full capacity is reached in month 10.

Engineering is completed to a detailed design level with drawings for construction available. No further detailed engineering is expected to be required. The Project is scheduled for an 8 month construction period with ramp up for 3 months with one month of overlap with construction completion in month 7. All long lead time equipment will be ordered immediately after Board approval of funding. The schedule is summarized in Figure 1-3.

Month	0	1	2	3	4	5	6	7	8	9	10	11	12
Board Approval / Full Funding	х												
Order Long Lead Time Equipment	х												
Mine Development		х	х	х	х	х	х	х					
Construction, commissioning		х	х	х	х	х	х	х					
Start of Production								х					
Mill Ramp Up								x	х	х			
Cash Flow Positive										x	x	х	x
Full production cash positive											x	х	x

Source: OSMI, 2017

Figure 1-3: Overall Project Restart Schedule

The ramp up schedule to full production and cash flow positive consists of increasing mine production and mill throughput each month beginning in month seven. Figure 1-4 shows the planned mill throughput for each month.

Month	7	8	9	10	11	12
Tons Milled Per Month	822	3,835	3,903	7,670	7,670	7,670

Source: OSMI 2017

Figure 1-4: Ramp-up Throughput Plan

A construction sequence for the surface facilities and mill is planned based on equipment delivery lead times as well as seasonal constructability is shown in Figure 1-5. Assuming a restart in the 3rd quarter, all outside surface buildings will need to be constructed before winter conditions prevail. These buildings will house new equipment and provide the needed expansion for office space and change rooms (dry). Long lead equipment such as the rod mill and Derrick screens have already been purchased. The Derrick screens are currently stored in the OSMI Ouray warehouse. The rod mill is
fully paid including shipping and is stored in Tucson Arizona. All other long lead time equipment will be ordered immediately after Board approval of funding.

Mill Construction	Lead Time	1	2	3	4	5	6	7	8
Site Infrastructure Buildings	none	Х	х	х	х	х			
200- Crusher, conveyors, dry screen	12 to 24 weeks			x	x	x	x	x	
300- Rod mill, ball mill, wet screens	10 to 12 weeks			x	x	x	x		
700- Reagents and Reagent Building	6 to 10 weeks			x	x	x			
300- Flotation / Tank Cells	18 to 24 weeks					x	x	x	
400- Conc. Thickeners / Presses	18 to 24 weeks						x	x	
Commission Plant in mid-month 7								Х	х
Mine Construction									
Raise Bore and Alimak Hek		X	X	Х	Х				
Rehab Main Haulage at Runarounds # 1 & # 2 and Shaft Entrance		X	X	Х					
# 1 / # 2 Alimak lateral Development			X	X	X	X	X	x	X

Figure 1-5: Planned Construction Sequence and Lead Times

During the construction phase, OSMI management will manage all aspects of construction. Contractor Project Superintendents will report daily on all activities to the OSMI Project Manager for the assigned area. There are two separate areas for project management which are the mill project and underground mine project.

Contractors and their employees will be required to take the same orientation program that OSMI employees are required to take upon commencement of employment; i.e., medical, drug test, references, safety orientation, etc. All contractors will be required to have and document the requisite MSHA training.

Plant commissioning will be done in multiple phases and will begin once pre-commissioning has been completed. Commissioning will be completed by OSMI employees with mechanical, electrical and instrumentation support from the contractors that installed the equipment. Vendor support will be arranged if necessary.

Mill ramp up will commence after the commissioning phases are complete. Following ramp up the mill is expected to operate at a steady state milling an estimated 270 tons per operating day.

The plan details the steps to be taken in the recruiting and training process as well as the time frame associated with each. The objective of this plan is to ensure OSMI is hiring qualified candidates and that those candidates are properly trained for their specific job requirements, thereby ensuring a safe working environment and enhancing employee retention.

OSMI currently has a staff of 17 people and will ramp to 140 by month 8 of the restart Project. OSMI will add staff over the following four months to reach full staffing of 150 employees. The 150 employee staffing will be maintained for the life of the mine under the current mine plan.

1.14 Conclusions and Recommendations

1.14.1 Property Description and Ownership

The Project is located in southwestern Colorado about 5.5 miles southwest of the town of Ouray. All of the mining claims are located in Township 43 North, Range 8 West, New Mexico Prime Meridian (NMPM), Ouray and San Miguel Counties, Colorado, and are held in the name of OSMI.

SRK have reviewed the current licenses in relation to the geological model and Mineral Resource, which SRK considers sufficient to cover the current estimated Mineral Resources.

1.14.2 Geology and Mineralization

SRK considers the current geological model to be reasonably well understood. Historical economic mining supports the potential for economic extraction. OMSI has completed sufficient geological work, both from historical logs and via underground mapping, drilling and sampling to have a detailed understanding of the current geological model.

During mining, understanding local variations will be important as the veins can show features relating to variable geometry, and erratic grade distribution (nugget effect), plus variations in internal architecture. Clear and accurate mapping of the local variations of mineralization features is essential. These features can include variations in dip, strike and width, late-stage faulting/shearing effects and vein continuity and type. Variations generally require close geological understanding to ensure optimum grade, minimal dilution and maximum mining recovery.

1.14.3 Status of Exploration, Development and Operations

In comparison to the previous Mineral Resource Estimate (April 2014), the Company has completed an additional 42 diamond core holes from underground within the northern portion of the Virginius Vein, as well as completed approximately 30 channel samples.

Drilling and channel sampling completed by OSMI during 2016 has been logged and sampled by senior OSMI geological staff. All samples have been submitted to Skyline labs for preparation and analysis using both fire assay and ICP methods. OSMI has included a Quality Assurance/Quality Control (QA/QC) program as part of the 2016 drilling campaign. While the dataset is limited in terms of population size, SRK considers the results to be within a reasonable level of error, and therefore acceptable for use in the Mineral Resource estimate.

OSMI has also completed a validation study of the historical database, which included translating the historical descriptive drilling logs into a series of logging codes in the current database. The validation work has been extended to both diamond drilling and underground channel sampling.

SRK comments that the drilling below the 2000 level conducted by prior owners was conducted using AQ sized core which was the standard practice at that time. This may not be considered best practice under guidelines today. These areas are currently not accessible, but once open follow-up drilling to validate existing results should be completed.

1.14.4 Mineral Resource Estimate

SRK considers the current estimate could be improved by the following studies:

- Development of a mine scale structural and geological model. This could assist in guiding future exploration at depth within the conglomerates, as well as identifying and areas of risk for changes in ground conditions.
- The current density database should be increased with the inclusion of routine density measurements taken on all new drilling and from underground sampling.
- Development of a short-term model using underground sampling data which can be used to compare future variations in the long-term Mineral Resource estimates.

1.14.5 Recovery Methods

The new additions of the 2nd stage crushing and additional grinding provided by the rod mill should improve the liberation of the ore and improve the capabilities for improved recovery in flotation. The additional process testing provided important data and results for the optimization of the flotation circuit. The addition of more flotation capacity in the lead and zinc circuit will improve flotation recovery and selectivity. The upgraded process flowsheet has the opportunity to improve the process and allow for flexibility in operations that did not exist prior to the changes noted herein. The process flowsheet has been improved, although adjustments in startup should be anticipated. Possible adjustments to the rod mill and wet screen during startup to address issues that arise are described in further detail in Section 27.

1.14.6 **Project Infrastructure**

The primary risks to the Project related to infrastructure include:

- Weather related issues including access and avalanche impact;
- Power reliability that has been addressed by adding backup generation capacity;
- Access to the emergency hoist at the surface for maintenance and upkeep has been addressed by changing the type of system and allowing access through the mine versus the access by mountain road to the previous system;
- Water quality issues that have been addressed by the addition of water treatment facilities;
- Poor performance of the air compressor system that in the past impacted mining and milling operations. The additional compressor capacity contained within the capital estimate dedicated to the mill as well as the additional new compressor for the mine should address this issue;
- The access road is narrow and steep and winter conditions can impact access at times. The Project includes a budget for avalanche mitigation measures and a snow removal contract. Procedures are developed and in place to address these risks; and
- The question of normal operation electrical loads remains open, because OSMI was unable to provide Barr's engineering design team with operational load information to determine demand factors. Normally, one year or more of data is needed to confirm demand factors. Our evaluation has been completed using demand factors from the Lycopodium 2016 PFS report (Lycopodium, 2016), and we are unable to independently confirm these are suitable for sizing of the transformer which Barr has sized, or the emergency generator that OSMI is designing and procuring. At the time of this report, our design includes a 5,000 kilo volt amperes (kVA)

transformer, and OSMI is planning to procure a 3 MW emergency generator to power the facility.

Opportunities include improved mining and milling productivity from eliminating the historical delays associated with power and compressed air, both of which are addressed in this Project.

The major infrastructure related items are being addressed in the restart Project and SRK makes no additional recommendations for additional work.

2 Introduction

2.1 Terms of Reference and Purpose of the Report

This report is prepared as a Technical Report for Ouray Silver Mines, Inc. (OSMI or Company) and Aurcana Corporation (Aurcana) by SRK Consulting (U.S.), Inc. (SRK) and is based on a 2017 Revenue-Virginius Mine (the Project) Feasibility Study (FS) updated with 2018 capital and operating cost estimates.

This report is intended for use by OSMI and Aurcana subject to the terms and conditions of OSMI's contract with SRK. Any other uses of this report by any third party is at that party's sole risk. The responsibility for this disclosure remains with OSMI and/or Aurcana, as applicable.

The quality of information, conclusions and estimates contained herein is consistent with the level of effort involved in SRK's services, based on: i) information available at the time of preparation, ii) data supplied by outside sources, and iii) the assumptions, conditions, and qualifications set forth in this report.

This report provides Mineral Resource and Mineral Reserve estimates, and a classification of resources and reserves prepared in accordance with the Canadian Institute of Mining, Metallurgy and Petroleum Standards on Mineral Resources and Reserves: Definitions and Guidelines, May 10, 2014 (CIM, 2014).

2.2 Qualifications of Consultants

The Consultants preparing this technical report are specialists in the fields of geology, exploration, Mineral Resource and Mineral Reserve estimation and classification, underground mining, geotechnical, environmental, permitting, metallurgical testing, mineral processing, processing design, capital and operating cost estimation, and mineral economics.

None of the Consultants or any associates employed in the preparation of this report has any beneficial interest in OSMI or Aurcana. The Consultants are not insiders, associates, or affiliates of OSMI or Aurcana. The results of this Technical Report are not dependent upon any prior agreements concerning the conclusions to be reached, nor are there any undisclosed understandings concerning any future business dealings between OSMI and the Consultants nor Aurcana and the Constultants. The Consultants are being paid a fee for their work in accordance with normal professional consulting practice.

The following individuals, by virtue of their education, experience and professional association, are considered Qualified Persons (QP) as defined in the NI 43-101 standard, for this report, and are members in good standing of appropriate professional institutions. The QP's are responsible for specific sections as follows:

- Ben Parsons, MSc, MAusIMM (CP), Principal Consultant (Resource Geologist) is the QP responsible for Sections 4 through 12 and Section 14, 23, and portions of Sections 1, 25 and 26 summarized therefrom, of this Technical Report.
- Eric J. Olin, MSc Metallurgy, MBA, SME-RM, MAusIMM, SRK Principal Consultant (Metallurgy) is the QP responsible for Section 13, and portions of Sections 1, 25 and 26 summarized therefrom, of this Technical Report.

- John Tinucci, PhD, PE, SRK President/Practice Leader/Principal Consultant (Geotechnical Engineer) is the QP responsible for Section 16.2 and Section 18.2, and portions of Sections 1, 25 and 26 summarized therefrom, of this Technical Report.
- Jeff Osborn, BEng Mining, MMSAQP, SRK Principal Consultant (Mining Engineer) is the QP responsible Sections 2, 3, 16.5, 16.6, 16.7, 18.1, 18.3 and Section 24, and portions of Sections 1, 25 and 26 summarized therefrom, of this Technical Report.
- Brian Prosser, PE, SRK Principal Consultant (Ventilation) is the QP responsible for Section 16.7, and portions of Sections 1,25 and 26 summarized therefrom, of this Technical Report.
- Joanna Poeck, BEng Mining, SME-RM, MMSAQP, SRK Senior Consultant (Mining Engineer) is the QP responsible Sections 15 and Sections 16.1, 16.3 and 16.4, and portions of Sections 1, 25 and 26 summarized therefrom, of this Technical Report.
- Dave Mickelson, PE, Sr. Mechanical Engineer, Barr Engineering is the QP responsible for Process and Recovery Section 17, 21.1.3, 21.2.4 and portions of Sections 1, 25 and 26 summarized therefrom, of this Technical Report.
- Terry Braun, MSc, PE, Practice Leader/Principal Consultant (Civil Engineer) is the QP responsible for Environmental Studies, Permitting and Social/Community Impact Section 20, and portions of Sections 1, 25 and 26 summarized therefrom, of this Technical Report.
- John Pfahl, ME, Corporate Advisory Consultant (Mining Engineer) is the QP responsible for Market Studies, Capital and Operating Costs and Economic Analysis Sections 19, 21, excluding Section 21.1.3 and Section 21.2.4, Section 22 and portions of Sections 1, 25 and 26 summarized therefrom, of this Technical Report.

2.3 Details of Inspection

Details of site visits are shown in Table 2-1.

Table 2-1: Site Visit Participants

Personnel	Company	Expertise	Date(s) of Visit	Details of Inspection
Jeff Osborn	SRK	Mining	May 16, 2014 August 24, 2015 May 5, 2016 May 15, 2017 June 15, 2018	Each trip included an underground inspection and tour of surface facilities. The 8/24/2016 visit included inspection of surface emergency hoist.
John Tinucci	SRK	Geotechnical	May 16, 2014 August 24, 2015	Underground inspection and tour of surface facilities. Specific review of #1 shaft area.
Ben Parsons	SRK	Geology	August 24, 2015 October 19, 2015 June 20 to 22, 2016 February 21 to 24, 2017	Trip included Underground inspection, review drilling core, review historical records and database validation
Brian Prosser, PE	SRK	Ventilation	September 30 to October 1, 2015	Walked the entire mine (areas safe for access), measured airway resistances, examined the existing main fan, and developed a basic ventilation model
Dave Mickelson	Barr	Technical Lead (Process)	February 28 to March 2, 2017	Reviewed the entire processing area in preparation for the final design of the processing plant upgrade
Dean Kemmer	Barr	Mechanical (Process)	February 28 to March 2, 2017	Reviewed the entire processing area in preparation for the final design of the processing plant upgrade
Jeremy Kalibabyky	Barr	Mechanical (Process)	February 28 to March 2, 2017	Reviewed the entire processing area in preparation for the final design of the processing plant upgrade
Tom Gustafson	Barr	Electrical (Process)	February 28 to March 2, 2017	Reviewed the entire processing area in preparation for the final design of the processing plant upgrade
John Trullinger	Barr	Structural (Process)	February 28 to March 2, 2017	Reviewed the entire processing area in preparation for the final design of the processing plant upgrade

Source: SRK, 2018

2.4 Sources of Information

This report is based in part on internal OSMI technical reports, previous feasibility studies, maps, published government reports, Company letters and memoranda, and public information as cited throughout this report and listed in the References Section 27.

2.5 Effective Date

The effective date of this report is June 15, 2018, which is the date the final quotes were received and economic model was compiled.

JAO/TmP

2.6 Units of Measure

The US System for weights and units has been used throughout this report except where noted. Tons are reported in short tons (st) of 2,000 lb except where noted as metric tonnes (mt) of 1,000 kilograms (kg). All currency is in U.S. dollars (US\$) unless otherwise stated.

3 Reliance on Other Experts

The Consultant's opinion contained herein is based on information provided to the Consultants by OSMI throughout the course of the investigations. SRK has relied upon the work of other consultants in the Project areas in support of this Technical Report.

The Consultants used their experience to determine if the information from previous reports was suitable for inclusion in this technical report and adjusted information that required amending. This report includes technical information, which required subsequent calculations to derive subtotals, totals and weighted averages. Such calculations inherently involve a degree of rounding and consequently introduce a margin of error. Where these occur, the Consultants do not consider them to be material.

These items have not been independently reviewed by SRK/Barr and SRK/Barr did not seen an independent legal opinion of these items.

<u>SRK</u>

- SRK has not performed an independent verification of land title and tenure as summarized in Section 4 of this report. SRK did not verify the legality of any underlying agreements that may exist concerning the permits or other agreement between third parties, but have fully relied on OSMI and its legal advisor for land title issues.
- SRK was informed by OSMI that there are no known litigations potentially affecting the Project.

<u>Barr</u>

- Barr has not independently reviewed the results of laboratory testing used for further developing Section 17 Recovery Methods. Barr has fully relied upon, and disclaim responsibility for, information derived by the mineral processing experts retained by OSMI for this information through the following documents:
 - Dawson Metallurgical Laboratories, Inc. (1998). Results of Continued Flotation Tests and an Amalgamation Test Performed on Whole Ore from the Revenue Virginia Project, June 29, 1998;
 - Dawson Metallurgical Laboratories, Inc., (1994). Results of Flotation Test Work on a Silver Bearing Tetrahedrite – Galena Ore from the Revenue Virginius Property, February 23, 1994;
 - FLSmidth, (2017). Revenue Mine Project-Thickening and Filtration Testing, prepared for Ouray Silver Mines, Inc., by FLSmidth Minerals Testing and Research Center, Braun, Jennifer, Salt Lake City, Utah, April 19, 2017;
 - FLSmidth, (2017) Dawson Metallurgical Labs Locked cycle flotation tests for OSMI ore, Excel spreadsheet test data results. Received Clint Fletcher OSMI email April 17, 2017.
 - FLSmidth, (2016). Metallurgical Testing Program on the Revenue Mine Project, prepared for SRK Consulting, by FLSmidth Minerals Testing and Research Center, Kallen Konen, Perry Allen, Paul Bennett, Salt Lake City, Utah, July 22, 2016.;
 - FLSmidth (2016). Mineralogical Characterization of Composite Samples from Ouray Revenue Mine and Flotation Concentrates from FLSmidth Locked-Cycle Testing, June 14, 2016;
 - FLSmidth (2016). Bond Crusher and Rod Mill Work Indexes, Dawson Metallurgical Laboratories, March 2016;
 - Lycopodium, (2016). Process Plant Upgrade Pre-Feasibility Study, prepared for Ouray Silver Mines, Inc., by Lycopodium Minerals Canada Ltd., June 2016, Revision 0;

- Nowicki, K. (2016) Thickening, Rheology and Pressure Filtration Testing, FLSmidth Laboratory Test Report, May 2016;
- SRK, (2016). Prefeasibility Study Report, prepared for Ouray Silver Mines, Inc., by SRK Consulting (U.S.), Inc., Clarke et al., August 3, 2016;
- SRK (2016). Reagents Dosages for Processing Virginius Main Ore, Excel Spreadsheet from SRK Consulting, May 31, 2016; and
- SRK (2015) Metallurgical Review Technical Memorandum, SRK Consulting, December 28, 2015.

4 **Property Description and Location**

4.1 **Property Location**

The Project is in southwestern Colorado approximately 5.5 miles southwest of the town of Ouray. The Revenue Tunnel, the site of the current surface activity, is located at longitude 107.750° W, latitude 37.974° N (mine grid coordinates of 100,630 ft E, 99,100 ft N). The majority of the historical underground work occurred approximately 1.2 miles to the southwest centered at approximately 107.773° W., latitude 37.967° N (mine grid coordinates of 97,790 ft E, 95,070 ft N). Figure 4-1 presents the location of the Project.



Source: Star Mines, 2013

Figure 4-2 shows a generalized location map with drainage basins labeled, which are used as locators throughout this report.

Figure 4-1: Location Map



Source: OSMI, 2018

Figure 4-2: Location Map Showing Drainage Basins

4.2 Mineral Titles

Steven Lappin, Consulting Landman and Surveyor, was contracted to compile the claim ownership in the vicinity of OSMI's holdings in 2012 to 2014 under the previous (Star Mines) ownership. Since the inception of OSMI, holdings from previous owners have been merged into one land package. During 2015, as part of the assumption of ownership by LRC-FRSM II of OSMI, additional title work was completed by the law firm of Davis, Graham and Stubbs of Denver confirming existing patented and unpatented claim ownership.

OSMI currently contracts with Wolcott, a land services company, for digital storage, title work and evaluation of title of attractive target properties. In addition, OSMI continues to survey and replace claim corners on the ground each field season under contract with Monadnock Mineral Services which is a Registered Land Surveying Company. All claims controlling the apex of veins with Mineral Resources underlying them have been surveyed by a Registered Land Surveyor. Apex law is in effect in the State of Colorado.

The property consists of both patented and unpatented mining claims. There are 110 patented mining claims covering 744.40 net acres and 39 unpatented mining claims covering 342.98 net acres. Figure 4-3 shows OSMI's current land package simplified for ease of viewing in this document. Table 4-1 and Table 4-2 show a detailed listing of the claims and includes the ownership interest in each claim.



Source: OSMI, 2018

Figure 4-3: OSMI Claim Ownership

Table 4-1: Mining Claims Owned by OSMI

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| Millionaire 472 10/31/1882 TBD 10.09 80.00% Yellow Rose Ouray Revenue Image: Comparison of the comparison | Grand Trunk
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Mark Twain Millsite
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Moltke
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Anglo Saxon
Black Hawk
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 | RVM Holdings
RVM Holdings | Not on tax role. Same location as Muldoon. | | | | | | |
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| US Depository 474 7/18/1889 TBD 10.28 80.00% Yellow Rose Ouray Revenue Image: Component of the compone | Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Mottke
Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson Stonewall Jackson MS Volta Grant Lincoln Millsite Eclipse Millsite Victor Eliza Pinkstone Blank Millsite Blazer Protector Ymir Revenue Millsite SiWash Millsite Blank Two Step | 339
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 | RVM Holdings
RVM Holdings | Not on tax role. Same location as Muldoon. | | | | | |
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| Cumberland 2077 2/25/1887 11594 10.33 100% Atlas - Cumberland Ouray Sidney RVM Holdings Atlas Ext. 5684 6/4/1895 25685 3.89 100% Atlas - Cumberland Ouray Sidney RVM Holdings Sidney (W portion) 982 10/4/1883 8250 8.95 100% Atlas - Cumberland Ouray Sidney RVM Holdings Monetizer 346 7/30/1881 4872 10.33 100% WOF Ouray Silver RVM Holdings Queenie 1824 8/9/1887 12378 9.9 100% Terrible Ouray Silver RVM Holdings Clara Belle 6537 4/23/1892 20807 8.27 100% WOF Ouray Silver RVM Holdings Mikado 6537 4/23/1892 20807 10.2 100% WOF Ouray Silver RVM Holdings Victor 6537 4/23/1892 20807 9.4 100% WOF
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RVM Holdings</td><td>Not on tax role. Same location as Muldoon.</td></tr><tr><td>Clara Belle 6537 4/23/1892 20807 8.27 100% WOF Ouray Silver RVM Holdings Mikado 6537 4/23/1892 20807 10.2 100% Ouray Silver RVM Holdings Sarah Bernhardt 6537 4/23/1892 20807 9.94 100% WOF Ouray Silver RVM Holdings Victor 6537 4/23/1892 20807 9.94 100% WOF Ouray Silver RVM Holdings Victor 6537 4/23/1892 20807 9.86 100% WOF Ouray Silver RVM Holdings Boojum 16089 6/8/1907 44192 7.76 100% Ouray Silver RVM Holdings Snark 16089 6/8/1907 44192 5.46 100% WOF Ouray Silver RVM Holdings Total Acres I
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Anglo Saxon
Black Hawk
Myrtle
Revenue
Blaine
Col. Porter
Ottawa
Stonewall Jackson
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Millionaire
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RVM H</td><td>Not on tax role. Same location as Muldoon.</td></tr><tr><td>Source: OSMI, 2018</td><td>Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Mottke Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson Stonewall Jackson Stonewall Jackson Stonewall Jackson Stonewall Jackson Eliza Pinkstone Blank Millsite Blazer Protector Ymir Revenue Millsite Blazer Protector Ymir Revenue Millsite Blazer Protector Ymir Revenue Millsite Blazer Distep Chief Deposit Millionaire US Depository Sidney (E 200 ft.) Cumberland Attas Ext. Sidney (W portion) Monetizer Queenie Clara Belle Mikado Sarah Bernhardt Victor Boojum Snark</td><td>339 343 A 343 B 344 B 344 B 344 B 344 C 344 B 345 840 1823 2410 2411 5019 5394 A 5394 B 5723 5723 5772 A 12399 12495 14495 16494 16653 16494 16714 16965 17500 17500 167 472 982 2077
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Black Hawk
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RVM H</td><td>Not on tax role. Same location as Muldoon.</td></tr> <tr><td>Source: OSMI, 2018</td><td>Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Mottke Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson Stonewall Jackson Stonewall Jackson Stonewall Jackson Stonewall Jackson Eliza Pinkstone Blank Millsite Blazer Protector Ymir Revenue Millsite Blazer Protector Ymir Revenue Millsite Blazer Protector Ymir Revenue Millsite Blazer Distep Chief Deposit Millionaire US Depository Sidney (E 200 ft.) Cumberland Attas Ext. Sidney (W portion) Monetizer Queenie Clara Belle Mikado Sarah Bernhardt Victor Boojum Snark</td><td>339 343 A 343 B 344 B 344 B 344 B 344 C 344 B 345 840 1823 2410 2411 5019 5394 A 5394 B 5723 5723 5772 A 12399 12495 14495 16494 16653 16494 16714 16965 17500 17500 167 472 982 2077
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RVM H</td><td>Not on tax role. Same location as Muldoon.</td></tr> | RVM Holdings
RVM Holdings | Not on tax role. Same location as Muldoon. | Snark 16089 6/8/1907 44192 5.46 100% WOF Ouray Silver RVM Holdings Total Acres 812.32 <td>Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Mottke Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson Stonewall Jackson Stonewall Jackson Grant Lincoln Lincoln Lincoln Millsite Eclipse Millsite Victor Eliza Pinkstone Blank Millsite Blazer Protector Ymir Revenue Millsite SiWash Millsite Blazer Cohief Deposit Millionaire US Depository Sidney (E 200 ft.) Cumberland Atlas Ext. Sidney (W portion) Monetizer Queenie Clara Belle Mikado Sarah Bernhardt</td> <td>339
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RVM H</td><td>Not on tax role. Same location as Muldoon.</td></td<> | RVM Holdings
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RVM H | Not on tax role. Same location as Muldoon. | Source: OSMI, 2018 | Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Mottke Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson Stonewall Jackson Stonewall Jackson Stonewall Jackson Stonewall Jackson Eliza Pinkstone Blank Millsite Blazer Protector Ymir Revenue Millsite Blazer Protector Ymir Revenue Millsite Blazer Protector Ymir Revenue Millsite Blazer Distep Chief Deposit Millionaire US Depository Sidney (E 200 ft.) Cumberland Attas Ext. Sidney (W portion) Monetizer Queenie Clara Belle Mikado Sarah Bernhardt Victor Boojum Snark | 339 343 A 343 B 344 B 344 B 344 B 344 C 344 B 345 840 1823 2410 2411 5019 5394 A 5394 B 5723 5723 5772 A 12399 12495 14495 16494 16653 16494 16714 16965 17500 17500 167 472 982 2077 5684 | 3/17/1884
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RVM H</td><td>Not on tax role. Same location as Muldoon.</td></tr>
<tr><td>Source: OSMI, 2018</td><td>Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Mottke Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson Stonewall Jackson Stonewall Jackson Stonewall Jackson Stonewall Jackson Eliza Pinkstone Blank Millsite Blazer Protector Ymir Revenue Millsite Blazer Protector Ymir Revenue Millsite Blazer Protector Ymir Revenue Millsite Blazer Distep Chief Deposit Millionaire US Depository Sidney (E 200 ft.) Cumberland Attas Ext. Sidney (W portion) Monetizer Queenie Clara Belle Mikado Sarah Bernhardt Victor Boojum Snark</td><td>339 343 A 343 B 344 B 344 B 344 B 344 C 344 B 345 840 1823 2410 2411 5019 5394 A 5394 B 5723 5723 5772 A 12399 12495 14495 16494 16653 16494 16714 16965 17500 17500 167 472 982 2077 5684</td><td>3/17/1884
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RVM H</td><td>Not on tax role. Same location as Muldoon.</td></tr>

 | RVM Holdings
RVM Holdings | Not on tax role. Same location as Muldoon. | Snark 16089 6/8/1907 44192 5.46 100% WOF Ouray Silver RVM Holdings Total Acres 812.32 <td>Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Mottke Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson Stonewall Jackson Stonewall Jackson Grant Lincoln Lincoln Lincoln Millsite Eclipse Millsite Victor Eliza Pinkstone Blank Millsite Blazer Protector Ymir Revenue Millsite SiWash Millsite Blazer Cohief Deposit Millionaire US Depository Sidney (E 200 ft.) Cumberland Atlas Ext. Sidney (W portion) Monetizer Queenie Clara Belle Mikado Sarah Bernhardt</td> <td>339
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| Clara Belle 6537 4/23/1892 20807 8.27 100% WOF Ouray Silver RVM Holdings Mikado 6537 4/23/1892 20807 10.2 100% Ouray Silver RVM Holdings Sarah Bernhardt 6537 4/23/1892 20807 9.94 100% WOF Ouray Silver RVM Holdings Victor 6537 4/23/1892 20807 9.94 100% WOF Ouray Silver RVM Holdings Victor 6537 4/23/1892 20807 9.86 100% WOF Ouray Silver RVM Holdings Boojum 16089 6/8/1907 44192 7.76 100% Ouray Silver RVM Holdings Snark 16089 6/8/1907 44192 5.46 100% WOF Ouray Silver RVM Holdings Total Acres I I 812.32 I I I I I
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Mark Twain Millsite
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Atlas Ext.
Sidney (W portion) | 339
343 A
343 B
344 A
344 B
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| Sarah Bernhardt 6537 4/23/1892 20807 9.94 100% WOF Ouray Silver RVM Holdings Victor 6537 4/23/1892 20807 9.86 100% Ouray Silver RVM Holdings Boojum 16089 6/8/1907 44192 7.76 100% Ouray Silver RVM Holdings Snark 16089 6/8/1907 44192 5.46 100% WOF Ouray Silver RVM Holdings Total Acres 812.32
 | Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Moltke Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson MS Volta Grant Lincoln Millsite Eclipse Millsite Victor Eliza Pinkstone Blazer Millsite Blazer Protector Ymir Revenue Millsite SiWash Millsite Sidney (K portion) Monetizer Queenie | 339
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RVM H</td><td>Not on tax role. Same location as Muldoon.</td></td<></td></td></tr> <tr><td>Total Acres 812.32 812.32</td><td>Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Mottke Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson Stonewall Jackson MS Volta Grant Lincoln Lincoln Millsite Eclipse Millsite Victor Eliza Pinkstone Blaark Millsite Blazer Blazer Protector Ymir Revenue Millsite SiWash Millsite Blazer Protector Ymir Revenue Millsite SiWash Millsite Blazer Chief Deposit Millonaire US Depository Sidney (E 200 ft.) Cumberland Atlas Ext. Sidney (W portion) Monetizer Queenie Clara Belle Mikado Sarah Bernhardt Victor</td><td>339 343 A 343 B 344 B 344 B 345 840 1823 2410 2411 5019 5394 A 5723 5723 5772 A 12399 124495 14495 14495 14495 14495 16053 16494 16653 16494 16494 16494 16714 16965 17500 17500 167 474 982 2077 5684 982 346 18237 6537
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RVM H</td><td>Not on tax role. Same location as Muldoon.</td></tr> <tr><td>Source: OSMI, 2018</td><td>Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Mottke Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson Stonewall Jackson Stonewall Jackson Stonewall Jackson Stonewall Jackson Eliza Pinkstone Blank Millsite Blazer Protector Ymir Revenue Millsite Blazer Protector Ymir Revenue Millsite Blazer Protector Ymir Revenue Millsite Blazer Distep Chief Deposit Millionaire US Depository Sidney (E 200 ft.) Cumberland Attas Ext. Sidney (W portion) Monetizer Queenie Clara Belle Mikado Sarah Bernhardt Victor Boojum Snark</td><td>339 343 A 343 B 344 B 344 B 344 B 344 C 344 B 345 840 1823 2410 2411 5019 5394 A 5394 B 5723 5723 5772 A 12399 12495 14495 16494 16653 16494 16714 16965 17500 17500 167 472 982 2077
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RVM H</td><td>Not on tax role. Same location as Muldoon.</td></tr>

 | RVM Holdings
RVM Holdings | Not on tax role. Same location as Muldoon. | Snark 16089 6/8/1907 44192 5.46 100% WOF Ouray Silver RVM Holdings Total Acres 812.32 <td>Grand Trunk Wheel of Fortune Wheel of Fortune MS Mark Twain Mark Twain Millsite Silver Queen Little Chief Valley View Bismark Mottke Blackstone Hard Cash Hard Cash Millsite Anglo Saxon Black Hawk Myrtle Revenue Blaine Col. Porter Ottawa Stonewall Jackson Stonewall Jackson Stonewall Jackson Grant Lincoln Lincoln Lincoln Millsite Eclipse Millsite Victor Eliza Pinkstone Blank Millsite Blazer Protector Ymir Revenue Millsite SiWash Millsite Blazer Cohief Deposit Millionaire US Depository Sidney (E 200 ft.) Cumberland Atlas Ext. Sidney (W portion) Monetizer Queenie Clara Belle Mikado Sarah Bernhardt</td> <td>339
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RVM H</td><td>Not on tax role. Same location as Muldoon.</td></td<>

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| Source: OSMI, 2018
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Source: OSMI, 2018

Claim Name	BLM Serial #	Location Date	Gross Acres	Section	Net Acres	County
T.M.C. No 1	CMC281857	9/2/2011	20.42	20	10.67	Ouray
T.M.C. No 2	CMC281858	9/2/2011	20.42	20	9.14	Ouray
T.M.C. No 3	CMC281859	9/2/2011	20.42	20	5.06	Ouray
T.M.C. No 4	CMC281860	9/2/2011	20.42	20, 21	13.74	Ouray
T.M.C. No 5	CMC281861	9/2/2011	20.42	20, 21	12.95	Ouray
RV 1	CMC282292	10/4/2011	20.66	21, 22	4.31	Ouray
RV 2	CMC282293	10/4/2011	20.66	21, 22	8.56	Ouray
RV 4	CMC284135	7/13/2012	20.66	21, 22	4.69	Ouray
RV 5	CMC282295	10/5/2011	20.66	21	2.89	Ouray
RV 6	CMC282296	10/5/2011	20.66	21, 22	12.46	Ouray
RV 7	CMC282297	10/5/2011	20.66	21	5.07	Ouray
RV 8	CMC284136	7/14/2012	20.66	21	2.56	Ouray
RV 9	CMC284137	7/13/2012	20.66	21	3.02	Ouray
RV 10	CMC284138	7/17/2012	20.66	19,20	8.80	Ouray
RV 11	CMC284139	7/17/2012	20.66	20	1.88	Ouray
RV 12	CMC284140	7/17/2012	20.66	20	8.82	Ouray
RV13	CMC284141	7/17/2012	20.66	20	6.56	Ouray
RV 14	CMC284142	7/17/2012	20.66	20	8.36	Ouray
RV 15	CMC284143	7/17/2012	20.66	20,29	13.24	Ouray
RV 16	CMC284144	7/18/2012	20.66	20,29	17.23	Ouray
RV 17	CMC284145	7/18/2012	20.66	20,29	8.52	San Miguel
RV 18	CMC284146	7/21/2012	20.66	21,28	1.37	Ouray
RV 19	CMC284147	7/22/2012	11.02	28	1.18	Ouray
RV 20	CMC284148	8/1/2012	20.66	22,27	9.87	Ouray
RV 21	CMC284149	7/30/2012	20.66	22,27	15.10	Ouray
RV 22	CMC284150	7/29/2012	20.15	22,27	13.80	Ouray
RV 23	CMC284151	7/29/2012	20.15	27	16.41	Ouray
RV 24	CMC284152	7/30/2012	20.58	27	17.37	Ouray
RV 25	CMC284153	7/30/2012	20.58	27	9.05	Ouray
RV 26	CMC284154	7/30/2012	20.66	26,27	7.58	Ouray
RV 27	CMC284155	7/30/2012	20.66	26,27	7.14	Ouray
RV 28	CMC284156	8/2/2012	20.66	29	12.72	San Miguel
RV 29	CMC284157	8/2/2012	20.66	29	12.87	San Miguel
RV 30	CMC284158	8/2/2012	20.66	29	13.02	San Miguel
RV 31	CMC284159	8/2/2012	20.66	29	20.66	San Miguel
RV 33	CMC285304	7/2/2013	20.66	17,20	3.60	Ouray
RV 34	CMC285305	7/2/2013	20.66	17,20	12.71	Ouray
Total Acres				,	342.98	

Table 4-2: Unpatented Mining Claims

Source: OSMI, 2018

4.2.1 Nature and Extent of Issuer's Interest

The mining claims, Revenue Tunnel, all mining equipment, surface equipment and buildings, milling equipment and operations located on these claims are owned and controlled by OSMI. As part of Colorado state laws for any mining claim application, a company is required to supply a large-scale claim map, in addition to a sketch or narrative describing the claim boundaries and the relationships to neighboring claims or landmarks, which effectively defines whether a claim is considered the senior claim or a junior claim. This can be explained in more detail by assuming two adjacent claims with intersecting veins. The Senior claim has rights to follow the extension of the main structure (vein) being mined on its own claim into a neighbor's claim, and vice versa for any minor veins being mined on the

junior claim. In a situation where at the intersections of the veins there is significant mineralization, then it is the Senior Claims right to mine that area, even if located on the juniors claim.

Patented claims grant both fee simple ownership of the surface of the land and all underlying minerals. Unpatented mining claims grant ownership to the underlying minerals and permit use of the surface for activities and infrastructure required to exploit the underlying minerals.

Owners of patented mining claims are required to pay annual county property taxes to hold the land and beyond payment of taxes, ownership is in perpetuity. Unpatented mining claims grant provisional ownership of the underlying minerals and to maintain this ownership annual fees of US\$155 per claim are due the U.S. Bureau of Land Management (BLM) by September 1st of each year. OSMI records an affidavit of payment of the BLM claim fee with the Clerk and Recorders office of Ouray County and has done so for 2017 and will complete this again in August of 2018. This is not a legal requirement, but the fee for recording is US\$6 for the first page, US\$5 for each additional page and US\$0.25 for each claim name paid to Ouray County.

4.2.2 Claim Location and Access

The claims covering the Yellow Rose Vein zone are accessible on surface from County Road 26C (Silver Basin Road). Surface accesses to the claims covering the Virginius and Terrible Veins are along County Roads 26A, X, W and V (Governor Basin Road).

The Revenue Tunnel is a historical access tunnel with a deeded tunnel easement that passes through OSMI claims as well as other claims held by private/corporate ownership and the U.S. Forest Service (USFS). The USFS manages surface activities on unpatented claims and not mineral rights.

4.3 Royalties

A royalty on approximately 79 claims was established in the Stock Purchase agreement between RVM Holdings and Silver Star Resources on September 21, 2011. The royalty applies to production from certain patented claims of the property. The agreement covenants that the owner of the property is not obligated to explore, develop, or produce from the property, all decisions regarding the property are in the sole discretion of the owner, and no interest shall be due on the royalty. There are no other obligations of the owner related to the royalty.

The agreement calls for a 2% NSR royalty up to a total payment of US\$9 million paid out of production. After the US\$9 million for royalty has been paid, and if the price of silver is greater than US\$60/oz, a NSR royalty of 1% will be due on continuing production up to a total payout of a second US\$9 million. Table 4-1 shows the claims for which this RVM Holdings production royalty is payable.

4.4 Environmental Liabilities and Permitting

The current environmental liabilities include reclamation and closure of the existing surface infrastructure (e.g., buildings, portal, surface water management), waste rock stockpiles and the Revenue Pond TSF. The current reclamation bond is US\$476,269. All bonds are held by a fully-funded certificate of deposit with Alpine Bank.

4.4.1 Environmental Liabilities

The current environmental liabilities include reclamation and closure of the existing surface infrastructure (e.g., buildings, portal, surface water management), waste rock stockpiles and the

Revenue Pond TSF. The estimated cost for reclamation and closure of the existing disturbance is US\$464,333.79. OSMI maintains a reclamation bond for this total.

4.4.2 Required Permits and Status

OSMI maintains the required environmental permits for re-start of mine operations. Plans for re-start involve three technical revisions to the primary mining permit (No. M2012032) administered by the DRMS. Section 20.1 provides a summary of the required permits and current status for re-start of operations.

5 Accessibility, Climate, Local Resources, Infrastructure and Physiography

5.1 Topography, Elevation and Vegetation

The Project is in southwestern Colorado near the town of Ouray, in Ouray County. Ouray is approximately 335 highway miles or approximately 5.5 hours by road southwest of Denver via Interstate 70 and US Highways 50, 550 and 285.

The San Juan Mountains in general, and the Project area in particular, are rugged young volcanic mountains with steep topography. Glacial valleys form the broadest areas of relatively flat ground but are typically surrounded by steep walls. Within the Project area, elevations range from about 10,000 ft to nearly 13,500 ft.

The Revenue portal site is developed on a large flat area of broken waste rock from the construction of the Revenue Tunnel. The surface buildings and infrastructure are located at the mouth of the Revenue Tunnel. A dry stack tailing facility and a further expansion is co-located with the other surface facilities. The mill is located underground near the Revenue portal area and is connected to the Revenue Tunnel via underground workings.

Vegetation on the property is typical of Sub-alpine areas of the southern Rocky Mountains. North facing slopes are typically covered by evergreen trees while south facing slopes are drier and have plants requiring less moisture.

5.2 Accessibility and Transportation to the Property

To access the property from Ouray, follow County Road (CR) 361 southwest up Canyon Creek past the Camp Bird Mine. The portal of the Revenue Tunnel is 6.7 miles from the beginning of CR 361 on the south side of Sneffels Creek. Current surface activity is at the Revenue portal (Figure 4-1). Additional property access information can be found in Section18.

During the summer months, the property is accessible by high clearance two-wheel-drive vehicles. During the winter, four-wheel-drive vehicles are required since the road is snow covered.

5.3 Climate

There are no officially published weather/climate records for the Project. The nearest information is for Ouray located at an elevation of approximately 7,800 ft, which is about 2,860 ft lower than the Revenue portal at 10,660 ft. The Köppen Climate Classification subtype for Ouray is "Dfb - "Warm Summer Continental Climate". The average temperature for the year in Ouray is 44.3°F. The warmest month, on average, is July with an average temperature of 64.7°F. The coolest month, on average, is January with an average temperature of 25.8°F. The highest recorded temperature in Ouray is 96.0°F in June and the lowest recorded temperature was -22.0°F in January.

Average annual precipitation for Ouray is 23.1 inches. March is the wettest month with 2.3 inches of precipitation falling as snow while June is the driest with 1.1 inches of precipitation. Average annual snowfall is 140.2 inches.

The portal area and mine surface infrastructure are located at an elevation of 10,660 ft. The portal and surface facilities lie just below a north facing slope at the base of Sydney Basin and on the south side

of Sneffels Creek in a steep-walled valley approximately 1,000 ft below timberline. The area near the portal is classified as Sub-alpine but the higher elevation of the property, are in the Alpine climate zone. The Project area experiences broad temperature swings both within and between seasons. During winter months, temperatures hover near freezing on warmer days to well below 0°F on cold days and nights. During summer, temperatures vary from the 50's°F to modestly below freezing on cooler nights to the upper 70's°F and low 80's°F on very warm days. Anecdotal information suggests that the average temperature at the portal is typically 15°F cooler and winter snowfall perhaps double that falling in Ouray.

The Project is accessible year-around although heavy winter snow in the area requires plowing from about November through May along with avalanche mitigation to maintain year-round mining operations. The road up to the Revenue portal is maintained by OSMI year-round under permit with Ouray County and the US Forest Service. During winter months OSMI is permitted to close the road to all but emergency traffic at Senator Gulch which is located approximately halfway to the mine on County Road 361. During summer months the mine maintains the road along with the County. The Project has avalanche controls in place during the winter months and currently contracts with Helitrax, a local avalanche forecasting and mitigation company based in Telluride. During the summer months, thunderstorms are frequent and can be severe with lightning and heavy rainfall that can cause flash flooding in the streams.

5.4 Sufficiency of Surface Rights

Since the area is located on patented mining claims owned and controlled by OSMI, certain permitting activities are simplified. The mineral deposits are located at variable distances to the southeast of the portal and accessed from the Revenue Tunnel.

5.5 Infrastructure Availability and Sources

The Project was operated previously and has well developed power, water supply and access to skilled miners. The site has a developed tailings storage area and plant site as well as developed access. The details of the infrastructure are discussed in Sections 17 and 18.

OSMI owns, operates and maintains the following water and land rights for the Revenue-Virginius Mine:

- Revenue-Virginius Mine Works, 3.34 cfs (1,500 gpm); and
- Lake Reservoir, 27.74 acre-feet of water.

The original decree for the Revenue-Virginius Mine Works was issued on June 26, 1979 by the Colorado State District Court Water Division No. 4, Case No. W-2993. The point of diversion is located within the NE ¼ SE ¼ of Section 21, Township 43 North, Range 8 West of the NMPM. The source of the water rights is located within Sneffels Creek, a tributary of the Uncompany River. The Revenue-Virginius Mine Works for mining, milling and industrial purposes has a recorded appropriation date of 1934. Commercial, piscatorial, recreational, fire protection and domestic purposes were decreed as of December 30, 1976. The decreed municipal rights were cancelled on December 8, 1987 in Case No. 87CW110.

The original decree for Lake Reservoir was issued on April 10, 1979 by the Colorado State District Court Water Division No. 4, Case No. W-2991. This is an absolute decree. The water rights equal 27.74 acre feet of water for storage. Lake Reservoir is described as being located in accordance with

a map and statements No. 5049 filled with the State Engineer on August 20, 1908. Point of discharge is located at a point whence Corner Number 3 of Survey Number 1318B, Mt. Sneffels Mill Site bears North 57° East, 295 ft in Section 21, Township 43 North, Range 8 West of the NMPM. The Lake Reservoir for water storage right for domestic, fire protection, mining, milling and power purposes has a recorded appropriation date of 1905.

6.1 **Prior Ownership and Ownership Changes**

The following text and Table 6-1 summarizes the history of the Project and, unless otherwise noted, is taken substantially from an internal report by Steve Zahony (2013) and from an internal memorandum written by Sunshine Mining and Refining Company (Sunshine) on the property dated January 12, 2001.

The history of the Project is well documented by past reports and historical essays and books. Table 6-1 is a summary outline of the property's mining history and lists key individuals involved at various times. The property has had two owners from 1886 until the purchase by FRSM. A.E. Reynolds was the principal owner of the Caroline Mining Co. and its successor companies, and his heirs remained the owners of the property until its purchase by Star Mines in 2011 (Zahony, 2013).

After the outcrop discovery of the Virginius Vein in 1876 and its near-surface development, the property was purchased in 1880 and developed by the Caroline Mining Company under the direction of A. E. Reynolds. The earliest work occurred at high elevations in Governor Basin and mostly from the 3rd Level portal. The 3rd Level became the primary access to the vein and development of the mine progressed downward through a 1,100 ft internal shaft from the 3rd Level to the 14th Level (Zahony, 2013).

When logistics and costs became too challenging to continue mining from the 3rd Level and Virginius Shaft, the Revenue Tunnel was driven between 1888 and 1893 to access the Virginius Vein at depth. The Revenue Tunnel Company spent nearly five years driving the Revenue Tunnel. The Tunnel intersected several veins en route to the Virginius Vein and these became targets for varying levels of exploration and production. Among these was the Cumberland-Atlas Vein system, which was mined during this period. When miners reached the Virginius structure in the Revenue Tunnel, they encountered a strong eastern or footwall structure of the vein, and later a western or main structure. They drifted on the main structure to the southeast for over 5,000 ft, to beyond where the Virginius Vein intersected the Montana Vein system (Zahony, 2013).

Caroline Mines operated the mine for its most productive period from 1880 to 1901. Several setbacks resulted in limited production beyond 1901. In 1906, a fire in the upper workings caused electrical damage and failure resulting in flooding on levels below the Revenue Level. The following year the Revenue mill burned. Production after the mill fire was limited to small scale mining and some exploration (Zahony, 2013).

After A. E. Reynolds' death in 1921, the property was managed by his daughter and son in-law. Work during this period included modest development work over the next several years including the construction of a small 10 st/d ball mill and limited stoping (Zahony, 2013).

In 1923, the northwest extension drift on the Terrible Vein was channel sampled along its length on approximately 6 ft centers. The average sample width was thought to be 2 ft. No economic mineralization was located at that time, but the results showed silver values of ranging from <1 oz/st and up to 50 oz/st and variable gold values ranging from 0.01 to 0.76 oz/st and averaging in the range of 0.05 to 0.06 oz/ st Au. No distinct shoots of higher grade vein material were identified on the main level and these grades have not been confirmed through modern sampling. Other work included the development of an approximate 200 ft raise and limited drifting along vein at the top of the raise. Channel sampling the raise and associated levels near the end of the northwest-trending drift above

the Revenue Level did not identify economic mineralization at the time but higher grades than those found on the tunnel level were reported.

In 1938, the family of A.E. Reynolds contracted geologist George Garrey to direct development of the Project. Garrey assumed management of the family's mining assets including the Project. He wrote multiple reports on the Project's veins and their exploration potential. These reports formed the basis for the modern exploration of the Revenue property by Camp Bird Colorado, Inc. (Federal Resources), Ranchers Exploration and Development Corp. (Ranchers), and Sunshine.

According to Garrey (1947), pre-1922 production from the Cumberland was US\$153,590, with an additional US\$16,862 having been mined by lessees from 1922 to 1926. Of the 12,000 st mined before 1922, 4,200 st were hand-cobbed and shipped, averaging 0.136 oz/st Au, 28.5 oz/st Ag, and 25.5% Pb.

Between 1948 and 1953, there was work on the Wheel of Fortune Vein. The Wheel of Fortune Vein was intersected by several long drifts that followed veins crossing the Revenue Tunnel to the southeast. Intersections between the Yellow Rose, Anglo-Saxon, Cumberland, and Virginius Veins failed to find economic mineralization within the Wheel of Fortune structure at the Revenue Tunnel Level, and the Wheel of Fortune was not historically mined in these areas (Zahony, 2013).

Limited production from Wheel of Fortune Vein was low but reportedly "high grade", most of it coming from a single mineralized shoot that was mined on three levels over a vertical extent of 400 ft immediately above the main adit level. This principal level consists of a drift along the Wheel of Fortune Vein with a portal on the southwest slope of Sneffels Creek's valley at an elevation of 10,680 ft. The drift is 1,730 ft long, following the vein in a southwesterly direction extending through its intersection with the Yellow Rose Vein and beyond for another 450 ft from that intersection. The single mineralized shoot on the Wheel of Fortune claim was discovered cropping out at the surface and was worked down following the northeasterly rake of the shoot to just above the long main drift level that was driven below the stope. Production from the shoot was high in silver but the shoot narrowed with depth. The long drift encountered no economic mineralization though several shallow experimental stopes were attempted. Towards the northeast from the portal, in the opposite direction from the drift and across Sneffels Creek, the trace of the Wheel of Fortune Vein is followed by the Potosi patented claim. Beyond the Potosi claim the Wheel of Fortune structure appears to continue further to the northeast with the rising surface slope to the Bimetallic Mine, whose portal is at an elevation of 11,475 ft. Production at this mine was high grade silver-gold mineralized material, but the Bimetallic Mine is outside the present Project boundaries.

Federal Resources leased the property in 1960 and in their five-year lease period drove over 3,440 ft of headings, mostly to the north of the Virginius Shaft No.1 on both the Revenue Tunnel and the 210 Levels. This also included work in the Cumberland Vein workings and the Belcoe Raise. Camp Bird work included channel sampling, experimental mining and test milling at the Camp Bird milling facility.

The most complete and usable exploration and development information on the Project was generated by Ranchers between 1980 and 1984 when Ranchers spent US\$8.5 million in exploration and was committed to take the property to production. However, Ranchers' hard-rock mining assets were purchased by Hecla Mining in mid-1984 and Hecla shut down the Revenue Project.

Sunshine leased the Project in 1994 and between that date and the termination of its lease in 2001, spent an additional US\$1.2 million in its study of the Virginius and Yellow Rose Veins, rehabilitation of

the portal, and in exploratory surface drilling of other veins. Sunshine built on earlier Ranchers' work to construct a modern digital database of all previous channel sampling and drilling and created a 3D digital model of the underground workings. They also expended considerable effort toward estimating and frequently updating "reserves" on the property (Zahony, 2013).

Star Mines acquired the Project in 2011 from RV through a combination of a stock purchases of the RV dated September 21, 2011, and closed June 25, 2012. Star Mines expanded the Project with further land acquisitions. Star Mines conducted exploration including drilling and channel sampling in both the Virginius and the Yellow Rose between 2012 and 2013. This work in part supports the resource estimates reported in this Technical Report and are discussed in Sections 9 and 10 of this report.

On May 8, 2014, Fortune Revenue obtained a 12% interest in the Project and operating authority for the mine, mill and surface operations via its wholly owned subsidiary FRSM. On October 1, 2014, FRSM acquired the balance of 100% ownership of the mine through an asset purchase agreement supported by senior secured financing (the "PFA") from Lascaux Resource Capital Fund I LP (LRC) via LRC-FRSM, LLC (LRC-FRSM). FML was the guarantor on the PFA. After default on the PFA, on July 17, 2015 FML and LRC-FRSM, LLC entered a Master Restructuring Agreement. As part of the MRA, 100% ownership of FRSM transferred to LRC-FRSM II, LLC, also held 100% by LRC. On July 21, 2015, FRSM changed its name to OSMI. OSMI currently owns and operates the site.

On July 27, 2018, LRC-FRSM and LRC-FRSM II (collectively, "LRC Group") entered into a Letter of Intent to sell, respectively, the PFA and 100% of OSMI to Aurcana Corporation ("Aurcana") in exchange for the issuance of common shares of Aurcana to the LRC Group (the "Transaction"). Following the Transaction, including shares issued pursuant to an equipment purchase agreement for the benefit of Aurcana but prior to any shares issued as a result of an equity financing related to the Transaction, the LRC Group will own approximately 75% of Aurcana and Aurcana will own 100% of OSMI on a debt free basis, including 100% of the shares of common stock of OSMI and the PFA. The completion of the Transaction remains subject to the fulfillment of certain conditions, including the execution of a definitive binding agreement in respect of the Transaction, completion of due diligence, and receipt of shareholder and regulatory approvals.

A summary of the history is shown in Table 6-1.

Date	Ownership	Company	Activity	Persons Involved	Core Holes
1876 to1880		Individuals	Virginius Vein discovered at 12,700 ft, accessed via upper two levels.	WB Feland, Alvord & Chase	
1880		Caroline Mining Co	Virginius claims purchased by AE Reynolds.	AE Reynolds	
1880 to 1906		Caroline Mining Co and Glacier Mining Co	3rd Level driven at 12,420 ft elevation and Virginius UG Shaft sunk from 3rd level to 14th Level. Vein stoped 14 th Level to 3 rd level.	AE Reynolds	
1888 to 1893		Revenue Tunnel Co	Drive the 8 ft x9 ft Revenue Tunnel for 7,500 ft	AE Reynolds	
1894 to 1906		Revenue Tunnel Co and Caroline Mining Co	Production from above the Revenue Tunnel Level and below the Tunnel Level down to the 350 Level. New stamp mill at the portal in 1895.	AE Reynolds, HW Reed manager 1880-1901, EH Platt	
1906		Revenue Tunnel Co	Fire in upper workings caused electrical failure and subsequent flooding of all levels below the Revenue Level.		
1907 to 1922		Lessee	Revenue mill burns 1912, H Krumb takes 228 channel samples of Virginius Vein on the Tunnel Level.	AE Reynolds, H Krumb, PG Caetani, EH Platt, AG Suydam	
1916 to 1918		Revenue Tunnel Co	Drifting on 14 th level of Virginius Vein exposes +650 ft of milling mineralized material but no mill available.	Suyuam	
1921			AE Reynolds dies. Daughter Ann R Morse and husband Bradish Morse take control.	Morse and Morse	
1922 to 1923	Family of	Sneffels Leasing Co	Stoping on Cumberland Vein under Atlas Extension patented claim on Revenue Level.	JW Clamp, TH Woods	
1932	 Family of A.E 	Lessee	Build 10 st/d ball mill and gravity table.	WB Rogers	
1934 to1938	Reynolds	Revenue Development Co	Rehab work, develop Belcoe Raise up 200 ft on Cumberland Vein from Revenue Level, milled some Cumberland dump at 0.04 oz/st Au, 4.6 oz/st Ag, 5% Pb.	JW Belcoe, GA Franz	
1943 to 1945		King Lease	Drift 150 ft on +200 level of Cumberland Vein, sink Cutler winze 100 ft, and repair Revenue Tunnel.	LK Requa, RG Lee, RS Dunn	
1946 to 1948		Virginius Mines Co	Rehab Virginius Vein drift and Revenue Tunnel. Recondition Shaft No 1 to -350 level, 210 level extended SE 146', Cutler winze on Cumberland deepened to 146'.	DC McNaughton, WSJ	
1948 to 1953		Revenue Mines	Atlas drift extended 1,428 ft from Revenue Tunnel, two fatalities in Atlas drift, work on Wheel of Fortune Vein.	MC Dann	
1960 to 1970		Camp Bird (Federal Besources)	Drove NW and test mined the Monongahela section of the Revenue Vein on the Revenue Level and drove 116 ft NW on the -210 level. Most underground work completed in 1966.	CP Tremlet, JDS	DDH-1 to DDH-6, DDH-M-1 to DDEH-m-6
1966]	Revenue Virginius Mines Co	Progress report by C Melbye to JH Tippit - RV Mining Co.	C Melbye, JH Tippit	
1947 to 1976	1	Revenue Virginius Mines Co	Project summary and projected operation report by CP Tremlet.		
1980 to 1984		Ranchers Exploration and Development Corp	Rehab Revenue Tunnel, rehab Shaft No. 1 to 700 level, drift south along vein on 550 level, UG drilling from 550 level on Virginius Vein and on Yellow Rose Vein, experimental stoping up from 210 level to the Revenue Level.	RA Larson, Project Mgr, JR Trujillo, Geologist, DJ Fitch, RE Lyons	RV-1 to RV-85, FF-1 to FF- 152, YR-1 to YR-36, Y-1 to Y-24, T-1, TT-1 to TT-43, TF-1 to TF-9, BG-1 to BG-2, M-1 to M-2, HC-1 to HC-5

Table 6-1: Ownership and Exploration History of the Virginius Vein and the Revenue Tunnel

Date	Ownership	Company	Activity	Persons Involved	Core Holes
1984 to 1985		Hecla Mining Co	Hecla purchased mining assets of Ranchers, reviewed the RV project and elected to drop it.		
1994-2001		Sunshine Mining and Refining Co	Explored project, drilled underground, enhanced the digital database including the 3D digital model, and calculated a reserve.	Alan Young, VP, JR Trujillo, Geologist	MK-1, MK-2, SQ-1, SQ-2, T- 2, T-3, YR37 to YR-46, WF-1 to WF-3
2011	Star	Star Mine Operations LLC	Property is purchased by Star Mining Operations from Virginius Mines Corporation owned by the heirs of A.E. Reynolds.	Rory Williams, JR Trujillo, Jim Williams	
2012 toMay 8, 2014	Star	Star Mine Operations LLC	Star buys project, drills on Virginius and Yellow Rose Veins, builds 300 st/d underground mill, and develops veins for production.	Rory Williams Jim Williams	YR-47 to YR-66, Y-25 to Y- 50, WOF-1 to WOF-7, TR-1 to TR-16, MT-1 to MT-10
May 2014 to July 17, 2015	Fortune Revenue	Fortune Revenue Silver Mines Inc.	FRSM obtains a 12% interest in the Project as well as operating authority for the mine, mill and surface operations. FRSM completes 100% acquisition of the assets and commences production targeting 400 st/d mill throughput.	Robin Goad CEO Mike Romaniuk COO	
July 17,2015 to Present	OSMI	OSMI	OSMI takes ownership of 100% of the Project. It retrenches operations, revises the operating strategy and completes a PFS in 2016 and FS in 2017 including drilling, metallurgy and process design. In 2018 the FS is updated to refresh capital and operating cost estimates to current bids.	Brian Briggs CEO	OSM-001-OSM-042

Source: Zahony, 2013; Modified by SRK, 2014, Modified by OSMI, 2018

Page 43

6.2 Exploration and Development Results of Previous Owners

The exploration completed by previous owners is detailed in Section 9 of this report.

6.3 Historic Production

Historical production records by Perry (2013) showed varying detail in historical recordkeeping. The majority of the production from the mine occurred between its discovery in 1876 and the flooding and fires that occurred in 1906 and 1912. Specific production records for the period 1876 to 1895 are not available. A. E. Reynolds' heirs believe that many of these early records had been stored at the mill and were destroyed in the 1912 fire. However, this was a very productive period in the mine's history and involved all or most of the production from the surface to the 14 Level of the mine. The longitudinal sections of the Revenue Vein show the major extent of this productive period.

In 1976, Tremlett compiled production records from 1895 to 1906. His records begin roughly when the Revenue Tunnel would have reached the Virginius Vein and probably represent production between the Revenue Tunnel and the 14 Level and from the Revenue Tunnel level down to the 550 Level. Table 6-2 is modified from Tremlett (1976). It is a summary of production for the 12-year period between 1895 and 1906 and documents approximately 10.1 Moz of silver production. It is estimated that approximately 204,000 st were milled. Between 1901 and 1906, the average grade of the product sold was 14.89 oz/st Ag, 0.083 oz/st Au and 4.38% Pb. The 10.1 Moz of silver reported by Tremlett (1976) does not include pre-1895 production or the more modest production from 1907 through about 1920.

Year	Tons Mined (st)	Tons Milled (st)	Tons Shipped Crude + Conc.	Tonnes of Total Conc. Sold	Ag oz Sold	Au oz Sold	Pb lb Sold
1895 to 1900							
1895			5,556		751,823	2,419	3,176,000
1896			9.346		1,167,657	2,613	4,914,400
1897			11,992		1,685,916	3,181	6,565,600
1898			11,452		1,676,371	4,952	6,799,200
1899			10,663		1,477,502	5,399	5,659,600
1900			8,254		1,174,668	6,466	4,984,800
Totals 1895 to1900		203,778	57,263		7,933,937	25,030	32,099,600
1901 to 1906							
1901	62,008	60,095	1,313	4,933	889,378	5,846	3,871,303
1902	44,347			Incomplete re	oordo		
1903	33,382			Incomplete re	colus		
1904	8,506	8,344	162	1,175	111,788	774	956,721
1905	33,665	32,539	1,126	4,364	533,295	2,318	3,824,784
1906	42,336	39,693	2,643	4,352	647,903	3,160	4,170,616
Totals 1901 to 1906	162,236	141,271	5,244 (20,068 reported)	14,824	2,182,344	12,098	12,823,424
Total 1907 to 1912	unknown	unknown	122,223		14,529,368	123,515	63,320,823
Totals 1895 to 1912			199,553		24,645,639	159,642	108,243,847

Table 6-2: Historical Production from the Project as Reported by Tremlett in 1976 modified byR. Perry (2013)

Source: Tremlett (1976) modified by OSMI (2017)

7 Geological Setting and Mineralization

7.1 Regional Geology

The San Juan Mountains are the erosional remnants of a large Tertiary volcanic field covering roughly 9,500 square miles in southwestern Colorado. The volcanic field is reported to contain fifteen defined and two buried calderas (Steven and Lipman, 1976). The older pre-caldera volcanic rocks, thought to have formed 35 to 30 Ma ago, consisted of intermediate, predominantly andesitic, flows and flow breccias. About 30 Ma ago, the eruptive character became more explosive, depositing rocks of intermediate to more felsic composition. The character of the volcanism changed again at about 28 Ma to a bi-modal suite of basaltic and rhyolitic rocks with the largest volume of felsic rocks consisting of the Sapinero Mesa Tuff, which was erupted from the San Juan and Uncompahgre calderas.

Most relevant to the Project are the nearby San Juan-Uncompany Silverton and Lake City Calderas shown in Figure 7-1. These lie to the east of the Project. The San Juan-Uncompany Caldera is a large northeast-aligned volcanic depression consisting of the earlier Uncompany and San Juan Calderas, which in turn host the younger Lake City Caldera in its northeast portion and the Silverton Caldera at its southwestern segment. Steven and Lipman (1976) are of the opinion that the Silverton/San Juan/Lake City/Uncompany Caldera system is unique in the San Juan Mountains in that it displays the best-developed radial/concentric fracture system of any of the calderas in the San Juan Mountains. Steven and Lipman (1976) speculate that this complex and strong faulting are likely the control for the vein systems in the San Juan Mountains.



Source: Perry, 2013; modified from Steven and Lipman, 1976

Figure 7-1: Western San Juan Caldera Complex

7.2 Local Geology

The dominant rock formation in the Project area is the 35 to 30 Ma andesitic San Juan Formation. This is a thick package of mostly water-lain volcaniclastic rocks with minor lava flows. These rocks are in turn overlain by younger (30 to 28 Ma) ash flows of the Ute Ridge and Blue Mesa Tuffs. Volcanism in the Project area is interpreted to have begun approximately 28.4 to 26.37 Ma ago related to eruptions in the Uncompany and San Juan Calderas. This resulted in the deposition of the Dillon Mesa and Sapinero Mesa Tuffs. Subsequent doming and collapse resulted in the development of the Silverton Caldera and in deposition of the Crystal Lake Tuff approximately 26.7 Ma.

Based on stratigraphic relations, Burbank and Luedke (1966) believe that the Stony Mountain/Sneffels intrusive complex was forming contemporaneously with collapse of the Silverton caldera although K-Ar age dating by Lipman and others (1976) yields ages for these intrusives of about 32 Ma, indicating they had been active for some time prior to development of the Silverton Caldera.

The veins of the Sneffels district seem to occupy structures that were genetically related to the San Juan and Silverton Calderas, they are radial and concentric structures extending for several miles northwest of the actual caldera margin. These structures were apparently influenced by the contemporaneous emplacement of the Stony Mountain Stock as evidenced by their propensity to merge with the radial pattern of faulting surrounding the Stony Mountain Stock (Figure 7-2).



Source: Perry, 2013; modified from Varnes, 1963

Figure 7-2: Generalized Geologic Map of the Silverton / Ouray / Telluride Area

7.3 Project Geology

There are several formations exposed within the Project area but not all are exposed in the underground workings of the mine. Table 7-1 is a summary of the rock units, which, within the area of the mine, span a vertical thickness of nearly 3,500 ft.

Series	Formation	Description			
	Gilpin Peak Tuff (Tertiary Paleogene (Tpg)) (4 mebers) 28.4 Ma	Tpg-5 (Dillon Mesa tuff), 80' Tpg-4, 32' Tpg-3, (Blue Mesa Tuff) 325' Tpg-1 (Ute Ridge Tuff), 490'	Predominantly quartz-latitic, welded ash-flow tuffs		
Oligocene	Burns Formation	Dark, massive flows, flow breccias, and tuffs of predominantly rhyodacitic composition 0 to 230 ft thick			
	Eureka Member, Sapinero Mesa Tuff				
	Picayune Formation	Dark, porphyritic and amygdaloidal flows, breccias and tuffs of andesitic to rhyodacitic composition 50 to 100 ft thick			
	San Juan Formation 35 to 30 Ma		dacite mudflow breccias with site flows, 2,000 to 2,600 ft thick		
Eocene	Telluride Conglomerate	Reddish-gray to red-brow interbedded sandstone, si thick	n conglomerate with iltstone and shale, 0 to 520 ft		

 Table 7-1: Stratigraphic Column for Rocks Exposed in the Project Area

Source: Burbank and Luedke, 1966 and Lipman, et al., 1973

Although extensively exposed at surface in the area, the Burns Formation is not recognized within the workings of the Project. It is believed that the unit pinches out short of its intersection with the workings. Below is a discussion of each of the formations, oldest to youngest, found in the Project.

Telluride Conglomerate

The Eocene Telluride Conglomerate is located in the Project area and while not actually exposed in the current mine, it has been identified in drilling completed by Ranchers approximately 100 ft below the bottom of the No 1 Shaft (700 Level) at about 800 ft below the Revenue Level.

The Telluride Conglomerate lies unconformably on an erosional platform consisting of rocks from Precambrian to Cretaceous in age. It is an arkosic conglomerate with rounded to sub-angular clasts of Precambrian quartz and lesser amounts of granitic, sedimentary and volcanic fragments ranging in size from pebbles to boulders more than 3 ft in diameter. The larger clasts lie in a matrix of ferruginous calcite-cemented, fine-grained quartz, feldspars and mica. The Telluride Conglomerate is exposed in red to grey cliffs below the Project's facilities in the Sneffels Creek Valley. The unit pinches and swells, and contains discontinuous lenses of sandstone and siltstone. The Telluride Conglomerate hosted significant base-metal replacement bodies in the nearby Idarado and Camp Bird mines where veins intersected lenses of porous and reactive host carbonate. Because of this, the Telluride Conglomerate is considered an economically important rock unit in the district. Further drilling will be required to test for potential economic viability in the area below the Revenue Vein mining area.

San Juan Formation

The San Juan Formation is the most extensively exposed rock unit in the vicinity of the Project. Within the mine workings it is exposed over more than 2,000 vertical feet from the 8th Level down to the lowermost -700 Level of the mine. It is the host for the majority of the mineralization.

The unit is grey to maroon and is made up of heterogeneous, intermediate composition volcanic fragments. Clasts range in composition from andesite to quartz latite and some clasts are porphyritic within a very fine-grained groundmass. Like many of the volcanic units in the western San Juan Mountains, it is composed of mud flows, pyroclastic breccias, and water-lain tuffs. The unit was likely deposited upon partially dissected flanks of active volcanoes (Lipman et al., 1973). Lipman et al. (1973) dated material from a flow breccia at 32.1 Ma.

Mapping in the district by Burbank and Luedke (1964, 1966) and Luedke and Burbank (1962) shows the unit to be 2,000 to 2,600 ft thick, similar to its thickness in the mine. Depending on the particular facies, the unit is fairly resistant and tends to form steep slopes and cliffs.

Picayune Formation

Near the mine, the Picayune Formation occurs as a 50 to 100 ft thick lava flow resting unconformably on the San Juan Formation. It is generally a dark amygdaloidal porphyritic andesite to rhyodacite with 2 to 3 millimeter (mm) gray to white subhedral oligoclase laths. Burbank and Luedke (1966) interpret the unit to be the lowermost member of the Silverton Volcanic Group but Lipman et al. (1973) interpret the unit to be a "down faulted vent-facies accumulation forming the cores of early central volcances that were the source of the mudflow breccias in the San Juan Formation". However, Coxe (1985) disputes that interpretation noting that near the Project the Picayune Formation occurs as a relatively thin and continuous flow overlying more than 2,000 ft of San Juan tuff and deems it to be geologically improbable as an adequate source unit. Coxe (1985) also notes that the unit is altered and most of the original dark minerals are no longer identifiable and exist as some mix of chlorite, quartz and iron-titanium oxides.

Eureka Tuff

The Eureka Tuff is a medium to dark colored rhyodacitic to quartz latitic welded ash flow tuff with abundant lithic fragments derived from similar composition lava (Burbank and Luedke, 1966). In the Project area the unit is discontinuous, lying unconformably on the irregular surface of the Picayune Formation, which had been thinned by erosion. Where present, the Eureka Formation can be up to 200 ft thick.

Lipman et al (1973) reinterpreted the unit as part of the Sapinero Mesa Tuff. However, since the Eureka tuff occurs nearly 1,000 ft stratigraphically below the Sapinero Mesa Tuff in the Revenue Mine area, Coxe (1985) is of the opinion that the Eureka Tuff represents more locally derived material from one of the earlier intermediate composition eruptions from the nearby San Juan caldera and is not part of the Sapinero Mesa Tuff.

Burns Formation

The Burns Formation (a 0 to 230 ft-thick discontinuous unit) is best developed as an intra-caldera volcanic unit with complex facies that include lava flows, mud flows, breccias and tuffs. The unit is thought to have been deposited from several local sources in a topographically complex environment. The eruptive facies of the unit in particular extend beyond the rim of the Silverton Caldera and at least

as far north as the Camp Bird Mine. The Burns Formation crops out in the area, but is interpreted to pinch out short of where it would be expected to intersect the Project workings.

Gilpin Peak Tuff

The Gilpin Peak Tuff represents a collection of separate units and these are the highest units exposed in the Project area. The Gilpin Peak Tuff consists of several mapped units with four of these units outcropping in the high peaks near the Project. The base of the Gilpin Peak group (considered the lowermost group) occurs at about 12,400 ft elevation and all of the remaining units occur above this topographic level (Coxe, 1985).

<u>Dikes</u>

Regionally, dikes are abundant and cross-cut all of the volcanic units. The dikes range in thickness from 2 to 20 ft, are mostly northwest trending and typically dip at 65° or steeper. These dikes vary from dense aphanitic to porphyritic andesites containing up to 20% phenocrysts (Coxe, 1985). Burbank (1941) notes that "some veins that follow dike walls are mineralized for horizontal stretches of 25,000 ft or more, though not retaining commercial grade throughout."

Northwest trending andesite dikes are common within the Project area. The Virginius Vein lies within or along the contact of an andesite dike (Virginius dike). For most of its mined extent to date, the dike occurs as the host rock, and other times as the hanging or footwall contact (Figure 7-3), to the vein. SRK considers the location of the dike to be important in defining the geological setting within the Virginius system. This is important due to the relatively thin nature of the vein itself to assist in guiding exploration both during the current and future phases of exploration. This dike likely plays some role in the mineralizing process, even if only to mark a structurally weak pathway for later solutions to follow.

The Virginius dike is an aphanitic to slightly porphyritic andesite that averages about 8 ft in thickness. It is easily recognized because it forms a blocky pattern along the mine's ribs where it is exposed (Coxe, 1985). The dike's aphanitic groundmass is chloritized with some small (0.2 mm) plagioclase microlites. Coxe (1985) says that up to 10% of the rock consists of 1 to 2 mm andesine feldspar phenocrysts but otherwise hydrothermal alteration has destroyed the primary mineralogy.



Source: SRK - geological revision, 2017

Figure 7-3: Example of the Role of Dikes in the Geological Model, Completed During Initial Geological Review by SRK During 2015 (Section viewing NW)

Structure

Pre-Tertiary structural events are evident in the deeply eroded Uncompany Gorge south of Ouray. Precambrian through Cretaceous rocks are exposed and display several episodes of intense deformation. Overlying these rocks are moderately folded and faulted Paleozoic to Mesozoic units. During the Laramide orogeny this package of rocks was domed, and earlier faulting was reactivated. A later period of movement along these faults can be seen where they offset the overlying San Juan Formation. This is likely the earliest structural event that may be directly relevant to the structural and mineralization history of the Revenue Mine area (Luedke and Burbank, 1962; Burbank and Luedke, 1964).

Virtually all of the structural developments relevant to mineralization are related to the several major caldera events in the region, particularly the Silverton, San Juan and Uncompany Calderas that are to the east of the Project and to the caldera-concurrent emplacement of the Stony Mountain Stock.

These calderas cover an area approximately 15 miles x 30 miles in extent (Figure 7-4) and include four nested calderas within a larger collapse feature. The initial doming and subsequent collapse of these calderas formed a very complex pattern of concentric and radial fractures that control most of the veins and dikes in the region, and although somewhat obscured by deposition and erosion, still are recognizable in the topography today. The Stony Mountain Stock, which lies some five to six miles northwest of the rim of the Silverton Caldera, seems to be structurally connected to the Silverton Caldera by a very prominent fault-vein-dike swarm called the Sneffels Axis. Near the caldera rim the concentric and radial faults seem to have been developing at the same time as they truncate and/or offset each other.



Source: Modified from Lipman et al, 1976

Figure 7-4: Important Structural Features and Principal Veins in the Project Area

According to Burbank (1941), dikes fill many of the radial structures near the Stony Mountain Stock, but further to the southeast along the Sneffels Axis, the proportion of dike-filled structures significantly

decreases. The central portion of the Sneffels Axis reaches roughly six miles in width. Across the axis, the structures change from southwest dipping on the southwest side to steeply northeast dipping on the northeast side. Burbank (1941) cites this as evidence that these normal faults formed largely in response to a down, rather than up, warping of the crust along the axis. Total vertical sagging across the axis is estimated to be 200 to 500 ft and Burbank (1941) states that the axis developed late, at least post Picayune Formation deposition, since the thickness of the Picayune Formation stays constant across the axis rather than thickening due to ponding in the middle if it had been deposited into an existing depression. The Virginius, Yellow Rose and Terrible Veins are all part of the Sneffels Axis group of structures and are situated in the central portion of the axis.

Alteration

Much of the volcanic pile throughout the western San Juan Mountains was subjected to mild to strong propylitic alteration resulting in pervasive chlorite and calcite alteration with more intensely altered areas also displaying epidote and pyrite. Coxe (1985) states that the type of wall rock along the Virginius Vein determined the nature of the alteration.

The Virginius andesite dike displays only minor alteration consisting of chlorite or calcite replacement of the mafic minerals and plagioclase. The adjacent San Juan Formation shows stronger propylitic alteration. Microscopically, the primary minerals have been replaced with sericite, chlorite, hematite and other oxides. Higher in the section the Gilpin Peak ash flow layers display similar alteration to the San Juan Formation (Coxe, 1985).

Mineralizing fluids further altered the rocks adjacent to the veins but typically over shorter distances of about 2 ft in the San Juan Formation and 7 ft in the overlying Gilpin Peak units (Coxe, 1985). Coxe (1985) observed that more distal, vein-related alteration was dominated by chlorite while sericite was dominant nearer the vein and tends to impart a bleached look to the rocks. Concentrations of pyrite, siderite and quartz increase to within 2 to 9 inches of the vein where Coxe (1985) states that quartz and sericite replace all of the siderite and calcite. Although there are mineralogical changes in the altered zone adjacent to the veins, primary breccia textures almost completely survive the alteration process (Coxe, 1985).

7.4 Significant Mineralized Zones

Mineralization in the District is found primarily in sub-vertical fissure veins and is classified as a telescoped epithermal quartz vein type deposit. The veins are characterized by somewhat constrained vertical extents (generally less than 1,000 ft) and a vertical zoning that favors precious metals in the upper levels grading into more base-metal rich mineralization with depth.

The mineralogy found at the Project is consistent with this type of mineralization and includes galena, sphalerite, tetrahedrite, polybasite, chalcopyrite, pyrite, arsenopyrite, marcasite as well as ferroan rhodonite, calcian-ferroan rhodochrosite, quartz and chlorite.

There is also potential, based on production from the Campbird and Idarado Mines which are contiguous with the OSMI property, for replacement mineralization within the calcareous Telluride Conglomerate with up to 80% massive sulfide. Replacement mineralization has not been fully identified in the Project to date, but three drill holes were drilled into the Telluride Conglomerate during exploration by Ranchers and one intersection pierced the vein inside the Telluride Conglomerate with high-grade mineralization reported. Further exploration will be required to determine the potential, and there is no guarantee that future exploration will yield positive results. The Telluride Conglomerate

remains a significant exploration target, once suitable drilling locations from lower levels of the mine can be achieved.

Lipman et al. (1976) made a comprehensive effort to age date material from numerous mines in the western San Juan Mountains. They identified mineralization dating from as early as 29.6 Ma southeast of the Uncompany Caldera to as young as 10.2 Ma for mineralization at Camp Bird Mine in the District. The more significant deposits tend to date in a narrower range of 22.5 to 16 Ma. Table 7-2 summarizes some of the important dates in the district.

Area or Deposit	Age Date	Comment
SE of Uncompangre Caldera	29.6 Ma	Disseminated mineralization in the core of a strato- volcano
Capitol City District Veins, 9 miles west of Lake City	Around 26.7 Ma	Likely coeval with development of Silverton/Uncompahgre Calderas
Chimney type deposits in the Red Mountain District	22.5 Ma	Contemporaneous with Lake City Caldera
Replacement mineralization in the	*17.0 Ma and	*This is the more reliable of the two dates and is
Argentine Vein	13.1 Ma	derived from K-feldspar
Shenandoah-Dives Vein from southeast of Silverton	16 to 17 Ma	Roughly equivalent to age of veins northwest of the Silverton caldera
Sunnyside Vein north of Silverton	Between 13.0	Age date from Casadevall and Ohmoto, 1977
in the Eureka Graben	and 16.6 Ma	
Camp Bird Vein	10.5 Ma and	The young age is just one of several ways this vein
	10.2 Ma	is distinct from most in the area

 Table 7-2: Age Dates of Mineralization from the Northwestern San Juan Mountains

Source: Lipman et al. (1976); Casadevall and Ohmoto (1977)

The following discussion of the important veins within the Project area is taken in part from a Star Mines' internal report written by Stephen Zahony (Zahony, 2013B). Figure 7-5 shows the relation between the Yellow Rose, Virginius and Terrible Veins as well as additional veins that are exploration targets for OSMI along the trace of the Revenue Tunnel.



Source: OSMI, 2017

Figure 7-5: Revenue Tunnel and the Yellow Rose, Terrible and Virginius Veins

Virginius Vein System

The most historically productive vein system at the Project is the Virginius and its northern extension, which is sometimes referred to as the Monongahela Vein. Reference to the Virginius Vein in this report will include the Monongahela. Between 1875 and 1906, this vein system is estimated to have produced over 15 Moz of silver with "significant lead and gold credits".

Rather than being a single continuous vein, the vein occurs as an intermittently stacked/anastomosing system of one to three sub parallel veins separated by up to 100 ft. Frequent reference is made to the "hangingwall", "footwall" and "main" vein and all have been productive in different parts of the mine. Sunshine subdivided the Virginius into six sub-veins as listed below:

- FW for the footwall vein;
- HW for the hanging wall vein;
- V1 for the vein within the Virginius dike;
- V2 for the vein on the footwall of the Virginius dike;
- V3 for the vein on the hanging wall of the Virginius dike; and
- UK and QM for two minor veins between the footwall vein and the dike.

Given these several parallel vein strands, questions remain if in all cases where stoping has followed the main vein or one of the several splits during mining.

The Virginius Vein in the north-northwest heading from the Revenue Tunnel is continuous over long strike (11,700 ft based on mapping) and dip distances and historic stoping occurs extensively within a zone 3,600 ft along strike and 2,500 vertical ft. The vein is typically averages about 1.5 ft or less in width although it can be as thick as 3 ft. The largest intercept on the vein recorded in the database was approximately 7 ft. It is reported to be a galena bearing vein, with perhaps 2 ft of altered and weakly mineralized rock on either side. Wallrock beyond that total width is weakly altered to unaltered and makes for relatively stable walls for mining purposes. More recent exposure by OSMI shows the vein widths can be more variable and reach widths of over 2 ft to 3 ft on a local scale in exposures during test stopes mined in 2016. The average width of the vein within the current Mineral Resources is estimated at approximately 1.3 ft.

The vein strikes from N45°W (near the 3rd Level portal) to N25°W in the northwest part of the mine (Coxe, 1985). In the upper workings, the vein is nearly vertical or even steeply northeast dipping in places. The vein is reported to outcrop at surface but is difficult to trace with confidence due to the rugged nature of the topography, snow cover and talus. An interpreted trace of the vein at surface has been used by SRK during the geological modelling stage. An inflection occurs at approximately the 6th level where the vein establishes a southwest dip that persists to the lowest workings, varying from 45° to 75° but typically dipping 65° to 75° southwest.

In the mine, the vein tends to follow the Virginius andesite dike and can occur as the hanging wall, footwall or interior to the dike although close proximity is almost always the case. The dike is strongly altered with much of the original mineralogy and texture destroyed or replaced. It does not appear that the vein is genetically related to the dike but may rather simply follow the same zone of weakness that the dike exploited.

The vein tends to be narrow but continuous and typically consists of quartz with variable amounts of galena, tetrahedrite, polybasite. sphalerite, chalcopyrite and pyrite. The mineralogy of the vein is remarkably constant over the very large vertical and horizontal span, although the silver grade is variable (Benham, 1980). Tetrahedrite and polybasite are the principal silver minerals in the mine and can reach concentrations of 15% silver by weight.

Yellow Rose Vein

Development of the Revenue Tunnel provided deep access to several veins in the District including the Yellow Rose Vein. The Yellow Rose is a northwest trending vein sub-parallel to the Virginius located more than 5,000 ft to the northeast. The Yellow Rose was mined to a minor extent in the early years following development of the Revenue Tunnel and was explored by Ranchers, Sunshine and Star Mines over a length of approximately 3,800 ft and a down dip extension of approximately 550 ft. The vein zone has been mapped over 16,000 ft at surface. Like the Virginius, the Yellow Rose Vein dips steeply to the southwest and consists of several anastomosing veins within a broader structural zone. The mineralogy of the Yellow Rose is similar to the Virginius, but in general it is a wider vein averaging approximately 3 ft. The widest vein intercept sampled is approximately 10 ft with the smallest intercept at 0.1 ft. The Yellow Rose is considered to be a lower grade target than Virginius.

Unlike the Virginius, the Yellow Rose does not follow a dike, which may result in more difficult mining conditions due to hangingwall and footwall conditions.

Terrible Vein System

The Terrible Vein has an overall N60°W strike with a steep southwesterly dip. Historical production came from workings with portals on three levels spaced at about 100 vertical feet with adits along the south slopes of Governor Basin ranging in elevation from 12,050 to 12,270 ft. A 4th and 5th Level were reached by means of internal shafts, but stoping only occurred above the 4th Level or above 11,950 ft elevation. The Terrible Vein system is intersected by the Revenue Tunnel and followed by a drift to the northwest of the tunnel for 1,202 ft and to the southeast for 850 ft. The vein tends to be narrow but continuous and typically consists of quartz with variable amounts of galena, tetrahedrite, polybasite. sphalerite, chalcopyrite and pyrite, similarly to the Virginius Vein and other veins in the vicinity.

The intersection of the Terrible Vein with the Virginius Vein system was identified as an exploration target by Ranchers who drilled one core hole from the surface. Sunshine drilled two holes in this region in 1995, and Star Mines drilled an additional 30 surface core holes into this target. Due to the extreme topography, some of the drilling is highly oblique to the vein orientation and in some cases, did not intersect the vein. The results from this drilling where the vein has been intersected show a sufficient degree of continuity at the northern end, contributing to the current Mineral Resource estimate.

The lower levels of the vein have been intersected from a raise at the northern end of the Terrible drift, located on the Revenue tunnel level. All material within the region of the Terrible drift is considered to be below the economic cut-off based on the current sampling. These samples are in general low-grade, but have been used to confirm the orientation of the vein in the current model.

8 Deposit Type

8.1 Mineral Deposit

The Project's vein deposits and the several associated veins within the mine are classified as volcanichosted epithermal base and precious metal vein type deposits. These deposits are sometimes referred to as intermediate sulfidation epithermal deposits typically characterized as high in silver and gold with or without base metals, associated with andesite volcanism and structurally controlled.

At Virginius, chalcedonic quartz and cockscomb textures have been observed and late euhedral calcite is found in places. Fluid inclusion studies suggest that boiling did not occur in the system. However, the presence of breccia in places indicates that at least some boiling occurred (Sunshine, 2001; Coxe, 1985).

SRK is of the opinion that the Company is applying an appropriate deposit model to the Project for use in exploration.

9 Exploration

9.1 **Relevant Exploration Work**

The majority of exploration and underground sampling on the Project (namely on the Virginius, Terrible, and Yellow Rose Veins), were completed by previous operators. Limited documented information is available on the exploration methods and techniques used prior to the Star Mines exploration programs, which were documented in previous technical reports. SRK reviewed the information as part of previous commissions and the following provides a brief summary of the work.

9.2 Sampling Methods and Sample Quality

Prior to Star Mines, the available exploration records started with Camp Bird's in 1966 and continued with Ranchers and then Sunshine's work on the Project.

Table 9-1 shows exploration work completed during the period of 1966 to 2001 in the Project area. The number of drillholes reflects all drillholes drilled at the Project and includes targets outside the Yellow Rose, Virginius and Terrible Veins (Figure 9-1).

Table 9-1 · Fx	nloration Worl	c Completed	between	1966 and 2001
		Completed	Detween	1300 and 2001

Historical Sampling 1966 to 2001	# of Completed Work
Surface Exploration Rockchip Samples	9
Surface Samples of Dumps and Tailings	0
Underground Channel Samples	1,286
Surface Core Holes	161
Underground Core Holes	309
Source: Star Minos 2013	

Source: Star Mines, 2013



Source: SRK: 2016

Figure 9-1: Historical Underground Samples

The channel sampling programs typically focused on particular sections of various veins. Samples were collected on 6 to 10 ft centers along the vein with samples taken across the vein width and typically in the range of 0.5 to 2 ft. Samples were collected using a hammer and chisel and were a continuous, chip channel sample. The samples were reported to be collected to be as continuous as possible using the available equipment (Figure 9-2).

Camp Bird, Ranchers and Sunshine were successful underground mining companies and the work completed by these companies was considered industry standard for the period when the work was completed.



Source: SRK, 2016

Figure 9-2: Historical Sampling within F9 Stope

9.2.1 2011 - 2013 Star Mines

During this period, the mine was under ownership of Star Mines. Star Mine's exploration efforts began in 2012, continued through 2013 and included surface and underground sampling as well as surface and underground drilling. Principal exploration effort has been a combination of surface and underground core drilling in the Virginius, Terrible, Wheel of Fortune and Yellow Rose Veins and exploration and development drifting in the Yellow Rose Vein. Star Mines also collected exploration samples from outcropping veins, systematically sampled mine dumps and collected channel samples in the Yellow Rose Vein from underground. A summary of the completed exploration work by Star Mines is shown in Table 9-2.

Star Mines Sampling 2012 to 2013	Star Mines 2012	Star Mines 2013
Chip Samples of Outcrops	0	818
Underground Channel Samples	0	201
Surface Core Holes	39	33
Underground Core Holes	33	0

Table 9-2: Exploration Work Completed between 2012 and 2013

Source: Star Mines, 2013

Star Mines used the same channel sampling techniques as Ranchers. The channel sampling programs were completed on 6 to 10 ft centers along the vein with samples taken across the vein width. Samples were collected using a hammer and chisel and were a continuous, chip channel sample. The samples were collected to be as continuous as possible using the available equipment.

Star Mines investigated the possibility of processing material from the Atlas Tailings and Virginius mine dump. As part of this, Star Mines sampled the Atlas historic tailings, which are located northwest of

the Revenue Portal. Star Mines collected 269 samples on a nominal grid of 35 ft x 35 ft. The Virginius mine dump located at the 3-Level in Governor Basin was sampled on a 5 ft x 25 ft grid by digging 1 ft deep pits. There were 542 samples collected from this site. Preliminary results indicated that there is the possibility of processing the Atlas tails and Virginius dump material, but additional evaluation is required for both targets, which has not been completed at this time (Figure 9-3).



Source: SRK, 2016

Figure 9-3: Collar Plot Showing Sampling and Drilling Collar Locations - 2012 to 2013

9.2.2 FRSM and OSMI Exploration

Between 2014 and 2015, the mine remained in operation during this period, routine mine sampling was completed using the same continuous chip sampling procedure. A total of 608 channel samples were taken between 2014 and 2015 from with the Yellow Rose Vein, and the Monongahela and Virginius Veins (Figure 9-4).

OSMI has completed an initial phase of underground drilling and limited channel sampling on the Virginius Vein; no additional work has been completed on the Yellow Rose Vein.

The focus of OSMI's recent exploration program was to complete a series of underground drillholes along Virginius Vein at the northern end of the Revenue level of the mine, which is discussed in more detail in Section 10 of this report.

In addition to the underground drilling programs, OSMI has conducted a series of channel sampling from relevant vein exposures, where access remains available, for example, within a test resue stope in this same area and more recently within the scram drive below an area of the mine known as the Federal stope.

OSMI used the same channel sampling techniques as the previous explorers. The channel sampling programs were completed on 6 to 10 ft centers along the vein with samples taken across the vein width. Samples were collected using a hammer and chisel and were a continuous, chip channel sample. The samples were collected to be as continuous as possible using the available equipment.

A total of 23 samples were taken in 2016 as part of the resue stoping test. Further sampling of the resue test stope occurred earlier in 2017, which returned grades ranging from 0.8 to 30.0 oz/t Ag, with an average grade of 5.0 oz/t Ag. The initial five samples out of 23 averaged 10.0 oz/t Ag within the stope. Note that the location selected for the test stope was in an easily accessible lower grade area.



Source: SRK, 2017
Figure 9-4: OSMI Sampling Locations

9.3 Significant Results and Interpretation

A total of 2,331 underground channel samples and 811 waste dump samples have been collected to date and incorporated into the current model update. The focus of the most recent sampling has been within the northwest of the Virginius Vein (Monongahela) and south of the revenue tunnel where the vein has been accessed via a hangingwall ramp.

Figure 9-5 shows the locations of the channel sampling relative to the underground development. Todate, the work has focused on the two main veins, and some historical sampling information exists for additional veins, which if captured, may aid in assessing the potential for these structures.

The sampling is considered a continuous chip sample, not a complete channel sample, and therefore may have a degree of sampling bias associated with the collection. SRK recommends that OSMI consider using diamond saws to cut representative channels across the full width of the vein in future

campaigns, to ensure the sample volumes are representative. Sampling has been completed across the width of the vein within the face during advance and is therefore assumed to be representative.

SRK accepted the underground sampling within the current estimates, but has not used surface sampling during the geological modelling or estimation process.



Source: SRK, 2017

Figure 9-5: Summary of Exploration Sampling by Year

10 Drilling

10.1 Type and Extent

Prior to 1966, the Project was explored and developed by conventional underground drifting and shaft sinking. Given the continuity along strike and dip of the mineralization, this technique was cost effective for the earlier operators. There are no records of these early operators having completed any drilling on the Project.

The first modern exploration and development drilling occurred in 1966 when Federal Resources, explored the Project as a way to expand operations at the Camp Bird Mine. The Camp Bird Mine is a gold mine while the Project is a past silver producer.

- Camp Bird reopened some of the workings on the Virginius Vein below the Revenue Tunnel level and drilled seven core holes from the 350 Level totaling 1,140 ft of AQ (1.062 inches diameter);
- In 1968, Federal Resources expanded their efforts to include surface exploration and drilled six NX (2.155 inches diameter) sized core holes on the Monongahela claim to explore the northern extension of the Virginius Vein. This surface drilling totaled 5,255 ft;
- In 1980, Ranchers acquired control of the property. Ranchers drilled a total of 84,729 ft of core including 12,967 ft from the surface and 71,762 ft from underground. Ranchers' work included both surface and underground drilling, targeting the Virginius, Terrible and Yellow Rose Veins and other veins in the claim block, including the Banner-Governor and Highland Chief;
- In 1994, Sunshine took control of the Project and mapped most of the accessible workings off the Revenue Level. Sunshine drilled 6,567 ft of NX core to explore several surface targets including the Yellow Rose, Wheel of Fortune, Mikado, Silver Queen and Terrible Veins;
- Star Mines purchased the Project in 2011 and initiated a drilling program in 2012. Star Mine's target in 2012 was the Yellow Rose Vein. The Company drilled NQ core (1.875 inches diameter) completing 9,681 ft of drilling underground and 9,456 ft of drilling at the surface. Star Mines also drilled 8,540 ft of NQ core from surface on the Monongahela claim to explore the northern extension of the Virginius Vein. Additionally, Star Mines completed 2,516 ft of underground core drilling to explore the Wheel of Fortune Vein at the end of 2012;
- In 2013, Star Mines drilled 20 NQ core holes from the surface in Governor Basin to explore the Terrible and Virginius Veins completing 11,868 ft; and
- In 2016, OSMI drilled 42 NQ core holes from underground in the northern portion of the Virginius Vein using an underground drilling rig with access from four crosscuts (two in the hangingwall and two in the footwall of the vein).

It is reported that the combined drilling on the Project since Federal Resources' early efforts totals 147,481 ft of core including 92,829 ft from underground and 54,653 ft from the surface.

A portion of the historical core was retained in a warehouse on site at the Revenue Tunnel portal. This warehouse was broken into and vandalized under prior ownership sometime during 2001-2011. Pieces of core were stolen from core boxes and approximately 30% of the core was dumped. The core from drilling prior to Star Mine's ownership of the property that was not vandalized is stored in OSMI's core facility in Ouray, Colorado. All of the core from Star Mines' 2012 and 2013 drilling is also stored at this core facility. Core from the OSMI 2016 drilling program has been stored for short term near the Revenue Tunnel portal, for geological logging, with final storage at the Ouray warehouse.

Table 10-1 summarizes the drilling at the Project. Figure 10-1 and Figure 10-2 show the drillholes at the Yellow Rose, Virginius and Terrible, respectively. Most drilling has been completed from underground using fan drilling. In general, the angle of the vein to drilling is reasonable (Figure 10-3). In some cases, especially at lower levels of the mine, the angles are a little more oblique and may result in less ideal intersection angles. SRK recommends that the drilling intersection angles should be considered for any new drilling programs.

A small amount of drillholes (approximately 12) were not drilled into the current resource targets (Virginius, Terrible and Yellow Rose). The drill holes that are excluded were targeted on the Wheel of Fortune and Silver Queen Veins. However, the bulk of the drilling which included a total of 489 holes for 145,907 ft are currently in the database supplied to SRK.

Hole Nos.	Date	Company	Location	Core	Number of	Number of	Surface	UG
					Surface Holes	UG Holes	(ft)	(ft)
DDH-1 to DDH-7	1966	Federal Resources	350 Level	AQ	7			1,140
DDH-M-1 to DH-M-6	1968	Federal Resources	Monongahela surface	NX		5	5,255	
Federal Resources	-			Total	7	5	5,255	1,140
BG-1 to BG-2	1981	Ranchers	Banner-Governor surface	NX	2		786	
M-1 to M-2	1981	Ranchers	Monongahela surface (Virginius Vein)	NX	2		1,690	
T-1	1981	Ranchers	Terrible Vein surface	NX	1		896	
HC-1	1981	Ranchers	Highland Chief surface	NX	1		405	
Y-1 to Y-24	1984	Ranchers	Yellow Rose Rev. L.	AQ & AW	24			7,557
YR-1 to YR-7	1981	Ranchers	Yellow Rose surface	NX	7		2,221	
YR-8 to YR-17	1982	Ranchers	Yellow Rose surface	NX	10		1,695	
YR-18 to YR-28	1983	Ranchers	Yellow Rose surface	NX	11		2,912	
YR-29 to YR 36	1984	Ranchers	Yellow Rose surface	NX	8		2,362	
RV-1 to RV-6	1981	Ranchers	Revenue Level	AX		6		2,953
RV-7 to RV-40	1981	Ranchers	Revenue Level	AQ		34		4,883
RV-50 to RV-53	1983	Ranchers	Revenue Level	AQ		4		553
RV-63 to RV-79	1983	Ranchers	Revenue Level	AQ		17		3,009
RV-80 to RV-85	1984	Ranchers	Revenue Level	AQ		6		1,246
TT-1 to TT-18	1983	Ranchers	210 Level	AQ		18		3,371
TT-19 to TT 43	1984	Ranchers	210 Level	AQ		25		5,655
TF-1 to TF-9	1982	Ranchers	350 level	AQ		9		1,927
FF-1 to FF-100	1983	Ranchers	550 Level	AQ		100		29,544
FF-101 to FF-152	1984	Ranchers	550 Level	AQ		52		11,065
Ranchers				Total	66	271	12,967	71,762
YR-37 toYR-43	1994	Sunshine	Yellow Rose surface	NX	7		2,820	
YR-44 toYR-46	1995	Sunshine	Yellow Rose surface	NX	3		1,177	
WF-2 to WF-3	1995	Sunshine	Wheel of Fortune surface	NX	2		455	
MK-1 to MK-2	1995	Sunshine	Mikado Vein surface	NX	2		660	
SQ-1 to SQ-2	1995	Sunshine	Silver Queen surface	NX	2		572	
T-2 to T-3	1995	Sunshine	Terrible Vein surface	NX	2		883	
Sunshine				Total	18		6,567	0
Y-25 to Y-50	2012	Star Mines	Yellow Rose	NQ		33	,	9,681
YR-47 to YR-66 (-75)	2012	Star Mines	Yellow Rose surface	NQ	31		9,456	-,
WOF-1 to WOF-7	2012	Star Mines	Wheel of Fortune	NQ	7		0,100	2,516
MT-1 to MT-13	2012	Star Mines	Monongahela surface (Virginius Vein)	NQ	13		8,540	_,
MT-14, MT-16, MT-17	2013	Star Mines	Monongahela surface (Virginius Vein)	NQ	2		2,772	
TR-1 to TR-17	2013	Star Mines	Terrible Vein surface	NQ	17		9,096	
Star	2010	otal Millio		Total	70	33	29,864	12,197
OSM001 - OSM042	2016	OSMI	Monongahela Underground (Virginius Vein)			42	20,004	7,730
OSMI	2010		menenganola onderground (virginido vein)	Total		42		7,730
Total by Drilling Type	(Surface	e or Underground)		Total	161	351	54,653	92,829
Total Drilling	Jouriac	e or onderground)		Total	101	512	J 4 ,0JJ	92,829
Total Drilling				TULAI		512		147,402

Table 10-1: Total Core Drilling on the Project

Source: SRK based on OSMI information, 2017



Source: SRK, 2017

Figure 10-1: Drillhole Traces (blue) Covering the Virginius, Footwall and Terrible Veins, Plotted Against Surface Trace of Veins (Red)



Source: SRK, 2017

Figure 10-2: Drillhole Traces (Blue) Covering the Yellow Rose Veins (Red)



Source: SRK, 2017

Figure 10-3: Example of Cross Section Showing Interaction of Vein to Drilling Intersection

10.2 Procedures

10.2.1 Historic

Limited knowledge of the historical drilling and sampling procedures is known with the exception of information captured in the drilling logs (Figure 10-4), which included hole ID, hole location (XYZ), Bearing, Inclination, Depth, Hole Size, Driller, logger, and date. SRK has initially been supplied with scans of the historical logs, which have in turn been verified against the original logging sheets located at the mine. In general, the geological logs are informative, but contain most geological information in the form of detailed written descriptions, which makes use in an electronic database difficult. SRK has produced a series of quick logs of the data for the current estimation to utilize the geological information, but SRK recommends that work be completed to produce a complete geological database including information on major geological units, minor geological units, evidence of geological

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structure, and core loss. No estimate of core recovery exists in the historical logging and, therefore, cannot be assessed.

Source: OSMI, 2015

Figure 10-4: Example of Historical Logging Sheets by Ranchers (1983)

10.2.2 Star Mines

All Star Mines drillhole collars were surveyed by Merritt Surveying, a local surveying firm. Any historical drillhole collars that could be positively identified have been surveyed. Holes that predate 2012 that cannot be located may vary from a few feet to 30 ft above or below the surface. These older holes were registered to the topography for modeling and resource estimation and showed acceptable correlation with Star Mines data. SRK previously recommended a focused effort to identify historical holes and check their collar elevations and survey locations. This effort was substantially completed by OSMI prior to this report in areas deemed crucial to the resource estimated and is ongoing for the remainder of the drillhole database. Further clarification of collar locations will be completed by OSMI once levels below the 2000 level are accessed.

Downhole surveys were completed by the drilling company using a REFLEX EZ SHOT tool provided by Core One. This is a magnetic downhole survey instrument. There are trace amounts of magnetite in the mineralization at a microscopic level. According to Star Mines, the amount of magnetite present has not affected the use of Brunton compasses or other magnetic instruments underground and there

have been no observed issues with using magnetic downhole survey instruments. The drillholes were surveyed at varying intervals along the hole and at the bottom of the hole.

Drill core was placed into waxed cardboard boxes directly from the core tube at the drill site. A wooden run-block was marked with the hole depth in feet and was placed in the core box upon completion of each drill run. The core was drilled with 10 ft tools for surface drilling and 5 ft for underground drilling. Core recovery was generally very good, and 100% core recovery is common. The core boxes were covered with a cardboard lid and then transported to the core logging facilities in Ouray. Core was typically delivered at the end of each shift, depending on productivity and weather conditions. Core was transported from the drill rig to the Revenue Portal by the drilling contractor.

After drilling, underground drillhole collars drilled by Star Mines were surveyed by site personnel and later checked by Merritt. Merritt set the surface control points for the Project, surveyed all surface drillholes drilled by Star Mines and locatable surface drillholes from previous operators. Merritt also surveyed accessible underground workings and drillholes that could be located on the Revenue Tunnel level.

10.2.3 OSMI

Drilling has been completed via existing exploration drives using a fan drilling pattern. SRK worked with OSMI in locating the holes and defining the drilling orientations to try to maximize the drilling coverage from the available locations. Figure 10-5 shows an example section through one of the drilling fans (looking northwest), which demonstrates the typical intersection angles achieved. SRK considers the current drilling is representative of the vein locations, with efforts made to avoid shallow intersection angles where possible.

All 2016 drillhole collars were surveyed by an OSMI surveyor. Downhole surveys were completed on the majority of drillholes by the drilling company using a REFLEX EZ SHOT tool. The Reflex EZ SHOT is a magnetic downhole survey instrument. There are trace amounts of magnetite in the mineralization, but not in significant quantities to interfere with surveying instruments. Downhole surveys were not completed in some of the drillholes due to tool availability and safety concerns with use of survey equipment in steep up-holes. The drillholes were surveyed at varying intervals along the hole and at the bottom of the hole. The drillholes which did receive downhole surveys did not show significant deviation from planned orientations.

Drill core was placed into waxed cardboard boxes directly from core barrel at the drill site. A wooden run-block was marked with the hole depth in feet and was placed in the core box upon completion of each drill run. The core was drilled with 5 ft intervals using triple tubes to minimize core loss. Core recovery was generally very good, and 100% core recovery is common, in some areas of broken ground core recovery was less but noted accordingly in the logging sheets. The core boxes were covered with a cardboard lid and then transported to the core logging facility on the surface by the drilling contractor. Core was typically delivered at the end of each shift, depending on productivity and rail access.



Source: SRK, 2018

Figure 10-5: Cross Section showing Example of OSMI Drilling Sections Relative to Vein

10.3 Interpretation and Relevant Results

Drilling is conducted to intercept the veins as perpendicular as possible. Given the terrain and drilling access very few intercepts from surface are considered of true thickness. Drilling at the Virginius vein is best completed from underground to intercept the vein perpendicular to the vein dip. A summary of the intersections from the 2016 Drilling results is shown in Table 10-2.

The current process used by OSMI has been to utilize crosscuts and fan drilling patterns. One alternative would be to drive a footwall lateral (or hangingwall if required) drift from which drilling could be completed at more regular intervals, whilst ensuring intersections remain as perpendicular as possible.

						Cu	Zn
BHID	Count	(ft)	(opt)	(opt)	(%)	(%)	(%)
OSM-001	1	1.5	0.04	65.20	10.44	0.68	14.71
OSM-002	1	0.6	0.08	332.00	7.93	2.57	6.51
OSM-003	1	2.4	0.08	21.10	15.55	0.09	0.93
OSM-004	1	1.5	0.11	8.26	2.93	0.08	2.22
OSM-005	1	0.5	0.05	31.80	12.08	0.17	15.12
OSM-006	1	1.5	0.05	11.90	5.53	0.11	1.94
OSM-007	3	0.5	0.00	0.18	0.03	0.01	0.07
OSM-008	2	1.5	0.00	0.31	0.10	0.01	0.09
OSM-009	2	2.4	0.02	4.78	1.57	0.02	1.22
OSM-010	1	2.0	0.07	8.58	4.72	0.05	0.40
OSM-011	1	1.4	0.00	0.05	0.01	0.01	0.01
OSM-012	1	1.2	0.01	1.91	1.16	0.02	0.67
OSM-013	1	0.8	0.01	3.60	1.89	0.02	1.55
OSM-014	1	4.0	0.01	1.33	0.82	0.02	1.29
OSM-015	1	2.6	0.02	56.50	9.43	0.36	1.97
OSM-016	1	1.2	0.02	7.05	1.73	0.05	0.93
OSM-017	2	0.5	0.00	1.16	1.58	0.01	0.12
OSM-018	2	6.8	0.00	0.23	0.23	0.01	0.03
OSM-022	2	6.6	0.05	4.37	1.36	0.03	1.29
OSM-023	3	0.5	0.00	0.57	0.66	0.01	0.76
OSM-024	2	2.0	0.02	27.10	2.31	0.23	2.06
OSM-025	2	3.4	0.02	102.00	9.22	1.11	3.58
OSM-026	1	0.6	0.01	70.30	4.02	0.72	2.01
OSM-027	1	1.8	0.22	15.30	4.75	0.23	0.85
OSM-028	2	0.5	0.02	1.80	0.67	0.02	0.37
OSM-029	1	1.6	0.02	32.40	0.96	0.19	2.00
OSM-030	2	1.6	0.08	15.80	2.54	0.07	1.34
OSM-031	2	0.8	0.01	19.60	1.29	0.17	4.46
OSM-032	1	1.0	0.05	26.80	1.31	0.29	2.17
OSM-033	2	0.5	0.57	118.00	2.47	0.95	1.83
OSM-034	2	0.5	0.01	38.00	9.54	0.40	8.64
OSM-035	1	1.3	0.02	11.10	6.80	0.07	22.62
OSM-036	1	1.5	0.02	11.60	3.57	0.07	15.43
OSM-037	2	2.6	0.23	8.21	5.06	0.06	0.76
OSM-038	1	1.2	0.03	3.27	1.49	0.03	1.98
OSM-039	2	1.4	0.01	7.59	1.35	0.06	11.08
OSM-040	2	1.7	0.02	140.00	11.28	0.74	0.56
OSM-041	2	1.1	0.01	13.50	5.52	0.09	5.21
OSM-042	1	0.5	0.04	28.90	7.27	0.18	2.91
Grand Total	59	1.68	0.05	29.76	3.71	0.24	3.15

Table 10-2: Summary of Assays from 2016 OSMI Drilling Campaign

Source: SRK, 2018

11 Sample Preparation, Analysis and Security

11.1 Security Measures

11.1.1 Historical

Sample security, preparation and analysis by previous operators pre-dated public reporting under CIM guidelines. The work conducted by previous operators was done using industry practice of the time period. During historic operations, core and channel samples would have been moved from the drill site or collection site to the portal area and then shipped to the appropriate laboratory. Core was stored at the warehouse at the Revenue Tunnel portal and until Sunshine ended involvement with the Project in 2001, was controlled and secure. It is reported that the core warehouse at the Revenue Portal was broken into between 2001 and 2011 and approximately 30% of the historic core was lost through vandalism.

During the exploration completed by Star Mines, core was transported to the Star Mines facility in Ouray by either the contractor or Star Mines personnel. The core was then stored in a locked secure facility until it was logged and sampled. After sampling, samples were shipped via FedEx or UPS to ALS Global (ALS) in Reno, Nevada. All facilities supervision, technical program supervision, and core logging were carried out by employees of Star Mines.

After logging and sampling, the core boxes are stored at Star Mines' field office in Ouray in the warehouse or in locked steel cargo containers. After analysis, all sample pulps and rejects were shipped from ALS in Reno back to Ouray where they are stored in a locked weatherproof building.

11.1.2 OSMI

Sample security has been maintained by OSMI during the most recent campaign. Drill core has been transported from the underground rig to the portal on a daily basis, where it has been reviewed by the Company geologist. Core is sealed in a locked room overnight and is stored at the core facility. A portion of the drilling core is also stored at OSMI warehouse facility in Ouray. After analysis, all sample pulps and rejects are shipped from the laboratory back to Ouray where they are stored in a locked weatherproof building. SRK considers the sample security and chain of custody to follow best practice.

11.2 Sample Preparation for Analysis

11.2.1 Historical

Core drilled by Federal Resources and Sunshine was initially logged by a company geologist. The geologists sampled vein intercepts and alteration associated with the vein. The geologist marked sample intervals on the core where a vein or mineralization was visible. The minimum sample interval was defined by the width of the vein. All samples were recorded on the drill log. Core was split in half lengthwise with one-half retained and one-half shipped to the assay laboratory for analysis. The half of the core not analyzed was retained at the warehouse. SRK does not know precisely how the core was split; however, during this time period, it was likely a manual splitter.

The core logging by Star and OSMI was completed at a small facility near the main mine access. The core facility was locked by the geologist at the end of each shift to ensure security. The main core storage facility is located at the current OSMI warehouse in Ouray. The core has been stored on pallets and on racks and wrapped in plastic with the hole numbers marked. To log the core, each box in a

drillhole was laid out in sequence on elevated racks in the core logging area of the warehouse. The core was examined for condition, missing core, and depth tag errors. Boxes were labeled for photographing with black felt tip pens including the hole number, depth, and box number. The core was then washed and photographed.

Geologic data was entered on a paper core logging form as the field geologists log the drill core on a log sheet that includes drillhole location, bearing, inclination and start and finish date. Other information includes core recovery, description of the core and sample from, to and length information. Within the logging section, a comprehensive description of lithology, structure, alteration, mineralization and veining was made by the field geologists.

Significant faults and zones of incompetent core are marked and entered in the log. Star Mines did not collect Rock Quality Designation (RQD) or other geotechnical data during its drilling programs.

Core recovery was recorded for each core run, which was every 5 ft for underground or 10 ft for surface holes. Rubble, re-drill, or slough recovered at the top of a core lift that was not in place is not counted as recovered core and was discarded. The core recovery data collected by the geologist was recorded in the drill log. Recovery is greater than 95% and up to 100%.

Star Mines' geologists sampled vein intercepts and alteration associated with the vein. Star Mines did not sample barren wall rock. The geologist marked sample intervals on the core where a vein or mineralization was visible. The minimum sample interval was defined by the width of the vein (ranging from 0.1 to 5 ft), with an average sampling length within the vein of 1.2 ft. All samples were recorded on the drill log. Sample data was subsequently entered into a sample spreadsheet. Sample numbers were assigned sequentially from sample tag books provided by Star Mines. Each sample has a unique sample number. A wooden block with the sample number was put into the core box at the top of each sample to provide a permanent record of the sample. The samples were sawed in half lengthwise with one half sent to the lab and the other half kept in the core box representing the interval. All samples were cut using a diamond saw. A printed sample tag was placed in the sample bag with each sample by core cutting personnel. All sampling was performed by Star Mines personnel under the supervision of the chief geologist.

All samples were packaged and shipped from Ouray via FedEx and UPS to ALS in Reno, Nevada, generally within five days of sample collection. ALS had ISO 17025:2005 accreditation for individual analytical methods and ISO 9001:2008 accreditation for quality management. ALS is a commercial laboratory which is independent to OSMI and no direct interest in the Project.

Individual samples were packed in rice bags sealed with duct tape. Samples were organized sequentially, in each rice bag with no more than ten samples per bag. Rice bags were labeled with the shipment number, bag number and total number of rice bags in the shipment. Each bag also had the sample number range included in the bag on a sheet of paper. A laboratory sample submittal form was filled out and emailed to the lab. Shipment information was recorded in a sample tracking spreadsheet.

11.2.2 OSMI

Drill core was logged by an OSMI geologist for both geological and geotechnical parameters. Geotechnical data was collected under the direction of SRK and included collection of recovery data by drill run for the entirety of the drilling, as well as run-based detailed geotechnical logging for the entirety of eight drillholes.

Geological logging was conducted on the entirety of all the holes with particular attention to mineralized veins and the "shoulder" regions on each side of the veins. Geologic data was entered into a digital spreadsheet as the field geologists logged the drill core. The log sheet includes drillhole location, bearing, inclination and start and finish date. Other information includes core recovery, description of the core and sample from, to and length information. Within the logging section, a comprehensive description of lithology, structure, alteration, mineralization and veining was made by the field geologists.

Sample intervals were selected by the Company Senior Geologist. Sampling was selected to have a maximum length of 4 ft. Vein samples were selected contact to contact and veins less than 0.5 ft included country rock to the 0.5 ft minimum. Shoulder samples consisted of a minimum of two 2 ft samples either side of the vein.

The core intervals sampled were marked by colored crayon, measured, assigned a unique identification number and recorded in a sampling record, which was included in the final drill log. These core intervals have been photographed prior to splitting.

Core drilled by OSMI was split in half lengthwise with one-half retained and one-half shipped to the assay laboratory for analysis. The other half of the core was retained at the warehouse. OSMI sample intervals have mainly been split by diamond saw, with the exception of samples that are severely fractured and friable. An OSMI senior geologist makes determination of the best method of splitting as necessary. Friable veins are susceptible to loss of economic mineralization and biased sampling. Where whole core sampling occurs, this has been noted with a summary description of the intersection and the reason for whole-core sampling included in the geological log.

Repeat analyses of certain core samples, selected by the geologist, consisted of a second assay on the original pulp. Blank samples prepared by OSMI were inserted into the sample stream as determined by the geologist. The laboratory inserted Certified Reference Materials (CRM) standards and performed repeat analyses at their usual frequency.

11.3 Sample Analysis

11.3.1 Historical

Federal Resources utilized the Camp Bird Mine laboratory located at the Camp Bird Mine. Analytical work for any drilling completed between 1960 and 1970 would likely have been analyzed in that laboratory. SRK cannot confirm this and can not confirm any accreditations held by the facility at the time. The Camp Bird laboratory conducted Fire Assay (FA) for precious metals and had the capability of analyzing copper, lead and zinc. SRK does not know the detection limits for these analyses at this laboratory.

Between 1980 and 1984, Ranchers used the following analytical laboratories, which are all commercial facilities and independent of the mine:

- Mountain States Research and Development (Mountain States) in Vail Arizona;
- Root & Norton in Silverton, Colorado;
- Union Assay Office, Inc. (Union Assay) in Salt Lake City, Utah; and
- Skyline Labs, Inc. (Skyline) in Wheat Ridge, Colorado.

These laboratories analyzed precious metals by FA. Root & Norton report that FA was a one assay ton charge. None of the other labs distinguish whether FA was by 1 or 2 assay ton; copper, lead and

zinc were likely by Atomic Absorption Spectroscopy (AAS). The lower detection limits for FA at Skyline and Root & Norton were 0.005 oz/st for gold and 0.01 oz/st for silver. Skyline reported a lower detection limit of 0.005% for copper and lead and 0.002% for zinc. Mountain States reported gold grades down to 0.001 oz/st and silver down to 0.05 oz/st but SRK is unsure if these are the lower detection limits. Neither Root & Norton nor Mountain States indicated what the lower detection limit for copper, lead and zinc were on their assay certificates.

Sunshine explored the Project between 1994 and 2001 and used Skyline for analytical work at the Project.

Star Mines submitted samples to ALS in Reno for analysis. On receipt at ALS, the sample bags were opened, sorted and dried prior to preparation. All samples were crushed to >70% passing 6 mm. The coarse-crushed material was then fine-crushed to 70% passing 2 mm and a Boyd Rotary Splitter was used to split a 1,000 gram (g) sample. The 1,000 g split was pulverized to 85% passing 75 micrometer (μ m) (0.075 mm).

The samples were then analyzed by FA with a gravimetric finish for both gold and silver. This is ALS method ME-GRA22, which is analysis using a 50 g charge. The analytical range is 5 to 10,000 ppm for silver and 0.05 to 1,000 ppm for gold. Silver was also analyzed using Ag-GRA21, which is a 30 g charge, FA analysis with gravimetric finish if there was insufficient sample to run using a 50 g charge. The upper limit for this analytical method is 100 ppm. Star Mines also had a subsample analyzed using a 33 element geochemistry package that includes silver, copper, lead and zinc. This is ALS code ME-ICP61 and analysis is by Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) and four acid digestion. Table 11-1 lists the elements and detection limits for ALS method ME-ICP61. Over limit analytical results for silver, copper, lead and zinc using the geochemistry package were reanalyzed using ALS method OG62 for individual elements.

ALS shipped the pulps and rejects back to Star Mines, which are stored at the Company's warehouse in Ouray.

Element	ppm	Element	ppm	Element	ppm
Ag	0.5-100	Fe	0.01-50%	S	0.01-10%
AI	0.01-50%	Ga	10-10,000	Sb	5-10,000
As	5-10,000	К	0.01-10%	Sc	1-10,000
Ba	10-10,000	La	10-10,000	Sr	1-10,000
Be	0.5-1,000	Mg	0.01-50%	Th	20-10,000
Bi	2-10,000	Mn	5-100,000	Ti	0.01-10%
Ca	0.01-50%	Мо	1-10,000	TI	10,10,000
Cd	0.5-1,000	Na	0.01-10%	U	10-10,000
Co	1-10,000	Ni	1-10,000	V	1-10,000
Cr	1-10,000	Р	10-10,000	W	10-10,000
Cu	1-10,000	Pb	2-10,000	Zn	2-10,000

Table 11-1: Elements and Upper and Lower Detection Limits for ALS code ME-ICP61

Source: ALS Geochemistry, 2013

Note: Limits are in ppm unless otherwise noted

11.3.2 OSMI

All samples from the OSMI exploration drilling program were dispatched to Skyline (which is independent of the mine) for preparation and analysis. Sample shipments to the laboratory consisted of every samples collected from the drilling program with priority batches sent for material with logged vein intersections and lower priority on batches taken from the shoulder of the vein.

The laboratory reported all analyses and QA/QC results in excel spreadsheets and Published Document Format (PDF) documents. Coarse rejects of all samples will be returned and stored on the mine site for future use. OSMI has selected two methods of analysis of the samples to enable a full suite of element data using suitable assay methods (a summary of the detection limits used is shown in Table 11-2.

Assay Procedure A - Each mineralized vein sample and specified repeats were analyzed by:

- 50 g charge fire assay for both gold and silver (Skyline method FA-3-50g); and
- Multi-element analysis for copper, lead and zinc (Skyline method MEA).

Assay Procedure B - Each country rock sample, specified repeats and blank samples were analyzed by:

- 30 g charge fire assay for gold (Skyline method FA-1); and
- Multi-element geochemical 32 element ICP-OES (Skyline method TE-2).

Element	Unit	Detection	Assay Code	Element	Unit	Detection	Assay Code
Au	oz/st	0.001	FA-01	К	%	0.01	TE-2
Ag	oz/st	0.10	FA-4	La	ppm	10	TE-2
Ag	ppm	0.2	TE-2	Mg	%	0.01	TE-2
Pb	ppm	2	TE-2	Mn	ppm	5	TE-2
Cu	ppm	1	TE-2	Мо	ppm	2	TE-2
Zn	ppm	1	TE-2	Na	%	0.01	TE-2
AI	%	0.01	TE-2	Ni	ppm	1	TE-2
As	ppm	5	TE-2	Р	%	0.001	TE-2
Ва	ppm	10	TE-2	S	%	0.01	TE-2
Be	ppm	0.5	TE-2	Sb	ppm	5	TE-2
Bi	ppm	5	TE-2	Sc	ppm	0.1	TE-2
Ca	%	0.01	TE-2	Sr	ppm	1	TE-2
Cd	ppm	1	TE-2	Ti	%	0.01	TE-2
Co	ppm	1	TE-2	TI	ppm	10	TE-2
Cr	ppm	1	TE-2	V	ppm	1	TE-2
Fe	%	0.01	TE-2	W	ppm	10	TE-2
Hg	ppm	1	TE-2	Zr	ppm	1	TE-2

 Table 11-2: Summary of Detection Limits and Laboratory Codes for OSMI Submissions

Source: SRK, 2017

11.4 Quality Assurance/Quality Control Procedures

Historical QA/QC was not systematic and was only run to verify certain samples.

Star Mines completed a basic QA/QC program, which included reference materials (RMs), blanks and duplicate silver analysis. Star Mines did not insert any core duplicates during this period. Core duplicates are used to test the variability of a deposit and can be used to determine adequacy of sample size during preparation. SRK highlights, some of the historical drilling (pre-2000) in lower levels of the mine were mainly completed using NX or AQ diameter, which is less than ideal for the mineralization style. The use of channel sampling within the same areas has supported the current estimates, with further validation/analysis recommended once access is available.

11.4.1 Standards

No standards were submitted for routine submissions prior to Star Mines. The Star Mines database was a limited dataset and more RM measurements would have been required for a representative

interpretation. The failures that occurred were in the low-grade silver RM and in the gold RMs. The silver failures were below the lower CoG for the mineralization and were not of concern. SRK previously noted that use of a RM closer to the lower CoG would be more appropriate.

OSMI used 16 CRMs, eight high Ag grade (CRM 605) and eight low Ag grade (CRM 601) (Figure 11-1). The CRM samples have been inserted into the sample stream by the geologist, with 13 being included with vein submissions and three submissions taken from the shoulders of the vein. In addition to the OSMI CRM submissions OSMI has relied upon the laboratory CRM standards.

SRK was presented with copies from the laboratory certificates in electronic format, and has extracted the information accordingly. The following provides a summary of the submissions of OSMI samples within the veins, which represents 13 submissions. The results have been reviewed, for all key elements and SRK has converted the assay values to the appropriate units (typically ppm) of the certification in each case. Overall, the samples have all reported within the two standard deviation limits which is deemed acceptable, but SRK highlights this is a relatively small data set and routine submission of OSMI CRM material should continue for future drilling and sampling campaigns.



Source: SRK, 2016

Figure 11-1: Analysis of Assays for CRM 601 Submissions per Element

11.4.2 Blanks

No blanks we submitted in the historical sampling. Star Mines used a pulp blank from MEG during both 2012 and 2013. There were no failures in the blank submissions (Figure 11-2). OSMI has used pulp blanks during the 2016 campaign. Blank material was sources from intervals of unmineralized country rock. Only one sample has reported above a limit of 0.5 ppm Ag, which SRK does not consider a concern. Overall SRK considers there little to no evidence of contamination at Skyline during the 2016 submissions.



Source: SRK, 2016

Figure 11-2: Analysis of Blank Samples for Ag during 2016 OSMI Submissions

11.4.3 Duplicates

OMSI has requested repeat analyses on core samples, selected by the geologist, which consist of a second assay on the original pulp. The assay results have been reported in the original certificates from the laboratory as "CHK" assays. These samples only test the analytical precision as they are taken from pulps and do not demonstrate the full variability of the mineralization which would be expected to be higher. Given the size of the OSMI 2016 drilling program, the current practice is considered reasonable, but for future submissions SRK would recommend including a coarse reject pulp to improve the confidence in the precision of the laboratory.

SRK has reviewed the results using basic statistics and XY scatter plots of the original versus the repeat assays. The results of the analysis for pulp repeats are shown in Table 11-3 and an example of the gold and silver XY scatter plots used is shown in Figure 11-3. The results from the investigation indicate a strong correlation between the original and repeat assays, which demonstrates a high precision within the laboratory analytical process.

	Au	Ag	Pb	Cu	Zn
Original	(oz/st)	(oz/st)	(%)	(%)	(%)
Mean	0.035	19.143	3.090	0.155	2.396
Standard Deviation	0.074	44.760	3.813	0.354	4.042
Sample Variance	0.005	2003.441	14.538	0.125	16.339
Range	0.568	331.950	15.545	2.565	22.615
Minimum	0.001	0.050	0.005	0.005	0.005
Maximum	0.568	332.000	15.550	2.570	22.620
Sum	2.668	1474.030	237.910	11.940	184.510
Count	77	77	77	77	77
	Au	Ag	Pb	Cu	Zn
Repeat	(oz/st)	(oz/st)	(%)	(%)	(%)
Mean	0.035	19.340	3.097	0.155	2.397
Standard Deviation	0.075	45.310	3.820	0.352	4.035
Communa Marianaa	0 000	0050 005	44 505	0 10 1	40.000
Sample Variance	0.006	2053.025	14.595	0.124	16.282
Range	0.006	2053.025 335.950	14.595 15.545	0.124 2.545	16.282 22.375
				-	
Range	0.584	335.950	15.545	2.545	22.375
Range Minimum	0.584 0.001	335.950 0.050	15.545 0.005	2.545 0.005	22.375 0.005

Table 11-3: Summary of Duplicate Samples Submitted During 2016

Source: SRK, 2016



Source: SRK, 2016



11.5 Opinion on Adequacy

SRK comments that the majority of the data used in the Mineral Resource pre-dates requirements for insertion of QA/QC common with JORC and CIM guidelines. The use of historical data has a degree of risk, but given the long production history at the mine over various periods of time SRK has accepted that the drilling and sampling methodology are suitable for use in the geological modelling, and Mineral Resource estimate.

All drilling completed by Star Mines and OSMI has included QA/QC and have been deemed acceptable for use in the Mineral Resource estimate. OSMI has an established chain of custody to ensure sample security from the drilling rig to submission to the laboratory. SRK is of the opinion that the sampling and analytical methods employed at the time of sampling and analysis followed industry standard

protocols. Drilling on the lower levels have a relatively narrow core diameter, which may require verification sampling/drilling once access can be gained to the lower levels of the mine.

The values displayed on a long section, when reviewed over close spacing, result in a highly variable (nuggetty) style deposit. It is for this reason that historically the mining methods have been to mine using large panels, which result in a more average grade for the deposit as it accounts for the internal variance within the panels.

SRK considers the current database to be of sufficient quality for use as the basis for the current Mineral Resource estimate; however, as new areas open up from underground development, all new sampling should follow the latest protocols established in 2016, to ensure industry best practice is maintained.

12 Data Verification

In 2014 SRK reviewed 10% of the database of both historical and new data against assay certificates and found less than 2% error in the database. Errors identified, at that time, were corrected in the database. No major changes were made to the assay database except where OSMI geologists averaged samples that had multiple assays.

SRK has completed a detailed review of the historical logging to gain more geological information. The geologic data had been entered on a paper core logging form as the field geologists/technicians originally logged the drill core. The log sheet includes drillhole location, bearing, inclination and start and finish date. Other information includes a description of the core and sample from, to and length information. Within the logging section, a comprehensive description of lithology, structure, alteration, mineralization and veining was made by the field geologists. Historical logs have been located both in hard and electronic copies.

SRK noted that the logging in general was descriptive which did not provide ease for capture into a modern geological database, as the use of major, minor geological columns, alteration styles, and key structures cannot be visually noted without the detailed reading of the geological logging.

In 2016 OSMI made the decision to focus on further validation of the geological database and review the historical logs in more detail. OSMI completed an internal review of the database versus the historical logging. To complete the review OSMI read through all the detail of the historical logs (detailed descriptions), and created the relevant logging codes in a standardized format. During the review, it was noted that some of the silver assays in the final database used an average of both FA and ICP measurements. It is believed that the FA will produce the most accurate assays and therefore OSMI has updated the raw database to reflect this change.

The validation work initially focused on the drilling in the upper 2210 and 2350 levels of the Virginius Vein where short term mining targets existed, but has subsequently been expanded to the entire drilling database. During the review OSMI generated a new series of logging codes to identify the main mineralization structures. Using the logging codes SRK has identified the main mineralization structures under the following categories:

- V1: Virginius Main Vein, which has been simplified to identify the main grade bearing structure;
- FW: Virginius Footwall Vein;
- Terrible: Terrible Vein; and
- Yellow Rose: Yellow Rose Vein.

In addition to recapturing the Yellow Rose assays, Star Mines previously provided additional copper data for the Yellow Rose area from subsequently located historical data. However, the first pass validation identified greater than 10% error in data entry for the copper analytical data. As part of the on-going validation OSMI staff reviewed and corrected all the assays in the database, which was limited to averaging grades where multiple assays had been taken.

Additional validation work completed by OSMI, and reviewed by SRK during 2016-2017, includes:

- OSMI commissioned Robert Larson to review the historical plans and update a digital survey of the historical development, including re-establishing the mine grid origins;
- OSMI commissioned an on-going survey of all available development using modern digital methods;

- SRK reviewed the collar information versus the current topography and noted some discrepancies, which were corrected and reviewed with OSMI staff;
- SRK made an adjustment to one downhole survey which was assumed to be a potential rounding error. The revised geology provided a smoother interpretation and avoided a "pulling point" in the geological model, which was felt to overstate the potential vein thickness; and
- Borehole M-03 has been removed from the estimation process as it intersects the "jump-off dike" and does not intersect the Virginius Vein.

12.1 Limitations

During the first pass of the 2015 geological modelling, SRK used the lithology as the primary selection for the interpretation. Upon completion a more detailed review of the wireframes indicated that the underground channel sampling, which represents a significant portion of the database, had not been logged using the same geological coding as the drilling database, which led to issues in developing the geological model. SRK accounted for these intervals in the current estimate by assigning manual interpretations of the hangingwall and footwall contacts. SRK considers there to be some risk of local variations, but SRK has attempted to limit this during the manual interpretation. To resolve the issue where lithology had not been logged, identification where possible of the lithological codes would improve the ability to model sub-units.

During the review of the historical information, SRK noted the absence of a portion of the historical channel sampling information on the 2210 level of the mine. The 2210 level have been recorded on a series of mapping sheets (three in total), with separate series for geology and assay information. OSMI located all maps with the exception of the assay information from the most northern portions of the mine. The risk of no assaying information has been limited to a degree as the most recent drilling has targeted this area, but additional sampling information may benefit in providing more robust estimates of the mean grades in these areas.

SRK completed a statistical review of the channel and drilling database which supports the use of both the chip and drilling samples. In general, the channel samples report higher grades than the drilling. Drill core sample lengths are 40% longer than the channel sample lengths which is a function of diamond drilling at angles through the mineralization, as opposed to channel samples that were perpendicular to the strike of the mineralization.

SRK has also noted the use of channel sampling for accurate placement of the mineralization has a degree of uncertainty due to different survey datums being used during different periods of the mining at Virginius OSMI completed an independent survey of the mine which tied back to the newly validated positions. SRK recommends that OSMI continue their review all the XY positions of the collars primarily for the underground sampling but also for the drill collars, when access is available.

12.2 Opinion on Data Adequacy

Overall SRK is satisfied that during the validation process any changes in location to the vein will likely be localized and not result in any material changes. Local variability may be further explained by a greater understanding of the structural setting within the vein, as a number of known key geological features are discussed in historical reports but are not represented in three dimensions due to a lack of collated data at present. SRK recommends that OMSI start the process of capturing the location along with any dip and strike measurements of key features such as the "Jump-off Dike", which are highlighted on historical long sections as these may prove important in understanding geological controls.

SRK used the combined diamond drilling and underground sampling databases within the current estimate. There is a degree of risk given the historical nature of the channel sampling and the narrow core diameters used in the drilling at the lower levels of the mine. It is difficult, at present, to equate the level of risk, as the majority of the channels have been taken within the higher-grade precious metal zones, compared to the majority of the drilling being at lower levels with lower precious metal values, but increased base metal values. SRK notes the following in terms of the current database:

- OSMI has an established production history with the average grades noted in the sampling comparing favorable to production;
- The majority of the mineralization within the Monongahela area has been drilled using diamond drilling; and
- Sampling within the F9 stope confirms dip continuity in grades between levels.

SRK is of the opinion that no material bias is being introduced by using the database as presented by OSMI, and that it is adequate for use in the geological modelling and Mineral Resource estimation.

13 Metallurgy

13.1 Introduction

On behalf of OSMI, SRK designed and supervised both prefeasibility-level and feasibility-level metallurgical development programs for the Revenue-Virginius Project. The prefeasibility-level metallurgical program was fully documented in SRK's PFS report. The results of the feasibility-level metallurgical program are detailed in this FS report. The key results from the PFS metallurgical program are also presented in this report. Both metallurgical programs were conducted by FLSmidth USA, Inc. (previously Dawson Metallurgical Laboratory). The PFS metallurgical program was conducted on a bulk 1-ton master composite representing the Virginius Main Vein and on variability composites characteristic of the Virginius Hanging Wall Vein, and the Yellow Rose Vein. The FS metallurgical program was conducted on a master composite formulated to represent the weighted average ore contribution from the various mining areas of the mine and on five variability composites representing ore from selected areas of the Virginius Main Vein, Footwall vein and the Yellow Rose Vein. The ore is a complex polymetallic containing gold, silver, lead, copper and zinc. Silver is the metal of primary importance and is associated primarily with the copper mineralization (tetrahedrite and polybasite).

13.2 Prefeasibility Metallurgical Program

The objective of the PFS metallurgical program was to define the process parameters required to maximize metal recovery into separate lead and zinc flotation concentrates. The main scope of the metallurgical program included the following:

- Comminution and abrasion index determinations;
- Differential Pb-Cu-Ag and Zn rougher/scavenger flotation studies;
- Cleaner flotation studies;
- Lead/copper separations studies;
- Locked-cycle flotation testwork;
- Tailing thickener tests;
- Tailing pressure filtration testwork (dry stack tailings disposal);
- Concentrate thickening and pressure filtration tests; and
- Final concentrate characterization.

13.2.1 Test Sample Characterization

Prefeasibility-level metallurgical studies were conducted on a master composite, characteristic of the Virginius Main Vein and three variability composites. The Virginius Main master composite was formulated from ore and waste rock shot out from an overhead pillar in Stope 231 to represent ore grades that would likely be achieved using the resue mining technique in which at that time 40% dilution was anticipated (as described in the mining portion of this report, for average vein widths of 18 inches of width, dilution was found to be about half or less than 20% for the resue mining method).

The three variability composites were formulated to be characteristic of the Virginius Main Vein, using the shrinkage stope mining technique in which 60% dilution is anticipated, the Virginius Hanging Wall Vein and a blend of the Yellow Rose and Virginius Main Veins. Ore representing the Yellow Rose Vein was formulated from available ½ core. Table 13-1 shows the head assays of the master composite

and variability composites that were developed for the PFS metallurgical program and the blending strategy that was used to formulate each composite.

Composites	Composite	Composite Blend	Ag	Au	Pb	Cu	Zn	Fe	S=	S(tot)
Composites	Туре	Composite Biend	(oz	z/st)	(%)					
Virginius Master (VM)	Master	60% ore : 40% waste	30.0	0.008	5.36	0.35	0.60	5.40	2.18	2.24
Virginius High Dilution	Variability	40% ore : 60% waste	21.7	0.004	3.79	0.24	0.40	5.53	1.56	1.74
Yellow Rose Blend	Variability	25% VM : 75% YR	28.5	0.013	4.74	0.28	0.96	4.57	3.10	3.42
Hanging Wall	Variability	100% Hanging Wall	10.0	0.011	1.49	0.14	1.32	5.46	2.25	2.31

Table 13-1: Head Analyses for Master and Variability Composites

Source: FLSmidth, 2016

13.2.2 Mineralogical Analyses

Representative sub-samples of the Master composite, Hanging Wall variability composite and Yellow Rose Blend variability composite were examined by x-ray diffraction (XRD) and automated mineral analysis (AMA) for mineralogy, locking/liberation analyses and trace mineral detection. The results of this work are presented in FLSmidth's report, "Mineralogical Characterization of Composite Samples from Ouray Revenue Mine and Flotation Concentrates from FLSmidth Locked-Cycle Testing", June 14, 2016. The minerals detected and their concentrations in each composite are shown in Table 13-2. Lead was found to occur as galena, zinc was found to occur as sphalerite and copper was found to occur primarily as chalcopyrite and tetrahedrite. Tetrahedrite was identified as the primary silver-bearing mineral in the Virginius Master composite and the Yellow Rose Blend variability composite. Polybasite was identified as the primary silver-bearing mineral in the Hanging Wall variability composite. Tetrahedrite was found to contain about 12% silver and polybasite was found to contain almost 60% silver.

	Virginius Master	Hanging Wall	Yellow Rose Blend
ltem	Composite	Variability Composite	Variability Composite
	(%)	(%)	(%)
Chalcopyrite	0.56	0.38	0.35
Tetrahedrite	0.8	0.02	0.74
Other (Cu) ⁽¹⁾	0.03	0.04	0.01
Galena	6.60	1.44	5.80
Sphalerite	0.73	1.59	1.36
Pyrite	1.85	3.22	3.79
Arsenopyrite	0.01	0.06	0.01
Polybasite	0.01	0.04	0.02
Quartz	30.4	46.5	38.9
K-Feldspar	9.29	4.26	7.09
Plagioclase	6.48	2.60	4.68
Muscovite	17.6	20.7	16.4
Chlorite	10.0	3.61	7.24
Smectite & Kaolinite	1.41	1.46	1.12
Amphibole & Pyroxene	0.09	0.01	0.07
Calcite & Dolomite	6.55	5.80	4.67
Rhodochrosite	4.54	4.83	3.55
Siderite	0.49	0.94	0.37
Iron Oxide	1.15	1.32	0.95
Rutile/Ilmenite	0.35	0.34	0.38
Apatite	0.17	0.24	0.18
Epidote	0.13	0.03	0.08
Rhodonite	0.00	0.05	0.02
Barite	0.13	0.11	1.82
Other ⁽²⁾	0.59	0.32	0.41

Source: FLSmidth, 2016

(1) Copper sulfides, phosphates, oxides and silicates

(2) Grouping of ultra trace concentrations of silicates, sulfides and oxides

13.2.3 Comminution Studies

Bond Low Energy Impact tests (CWi) and abrasion index (Ai) determinations were conducted on ore and waste samples from the Virginius Main Vein. The results of these tests are summarized in Table 13-3. The Virginius Main ore sample had a reported CWi of 6.1 kWh/st and the waste sample had a CWi of 14.4 kWh/st. The ore sample Ai was reported at 0.267 indicating that the ore is abrasive and high wear rates can be anticipated. The waste sample Ai was reported at 0.057, which is considered lightly abrasive. Additionally, the specific gravity of the ore sample was measured at 2.91 and the waste sample was measured at 2.73.

Table 13-3: Bond Low Energy Impact and Abrasion Tests on Virginius Main Ore and Waste Samples

CWi (kWh/st)	Ai	SG
6.1	0.267	2.91
14.4	0.057	2.73
	6.1	6.1 0.267

Source: FLSmidth, 2016

As shown in Table 13-4 the bond rod mill work index (RWi) was measured at 15.08 kWh/st for the Virginius Master composite using a 1,180 μ m closing screen. The bond ball mill work index (BWi) was determined for the Virginius Master composite and the three variability composites using a 150 μ m closing screen and was found to range from 14.9 kWh/st for the Yellow Rose/Virginius Master blend

variability composite to 17.2 kWh/st for the Virginius high dilution variability composite. These results indicate that ore is medium-hard.

RWi kWh/st	BWi kWh/st
15.1	16.3
	17.2
	14.9
	16.4
	kWh/st

Table 13-4: Bond Rod Mill (RWi) and Ball Mill (BWi) Determinations

Source: FLSmidth, 2016

13.2.4 Metallurgical Testwork – Master Composite

Metallurgical studies were conducted on the Virginius Main Master Composite and included a detailed evaluation of process parameters to recover silver, gold, lead, zinc and copper values by differential flotation using a process flowsheet that includes crushing, grinding, lead/copper/silver flotation followed by zinc flotation. Lead-copper separation from the lead/copper concentrate was evaluated in an effort to make separate silver- and gold-bearing lead, copper and zinc flotation concentrates. The results of this lead to the decision not to incorporate a lead-copper separation circuit in the flowsheet, and as such, the results of this work are not presented in this report. Testwork on the Virginius master composite was followed by confirmatory open circuit and locked-cycle testing on each of the of the variability composites using optimized test conditions established for the Virginius master composite.

Reagent Dosage Matrix

A reagent dosage matrix test series was run to evaluate various reagents and dosages during lead and zinc rougher flotation. For this test series a target primary grind size of 80% passing (P_{80}) 106 µm was selected. During lead flotation, various dosages of sodium metabisulfite (MBS) and zinc sulfate were evaluated as zinc mineral depressants, and various dosages of 3418A (dialkyl dithiophosphinate), 242 (diaryl dithiophosphate) and 3477 (diisobutyl dithiophosphate) were evaluated as lead/silver/copper collectors. Following lead flotation, the pH of the lead flotation tailing was adjusted to 11.5 – 11.9 with lime and various dosages of copper sulfate were added to activate the zinc minerals (sphalerite). This was followed by the addition of various dosages of sodium ethyl xanthate and sodium isopropyl xanthate (SIPX) as zinc mineral collectors.

This test series indicated that zinc mineral suppression during lead rougher flotation was maximized with the addition of MBS and zinc sulfate in combination at dosages of 0.5 lb/st for each reagent. The addition of 3418A and 242 at 0.015 lb/st and 0.01 lb/st resulted the recovery of 96.6% of the silver, 53.7% of the gold, 97.6% of the lead and 96.7% of the copper into a lead rougher concentrate containing 285 oz/st silver and 46.4% lead. Approximately 36% of the zinc reported to the lead rougher concentrate.

Depending upon the copper sulfate dosage it was found that about 40% to 44% of the zinc and 15% to 24% of the remaining gold could be recovered into a zinc rougher concentrate containing 6.4% to 7.8% Zn and 0.02 to 0.06 oz/st Au. Overall silver and gold recovery into the lead and zinc rougher concentrates was 97.2% and 77.3%, respectively.

Grind Recovery and Cyanide Addition Test Series

A test series was conducted to evaluate metal recovery during lead and zinc rougher flotation versus grind size, as well as the effect of cyanide addition as an aid to zinc mineral depression during lead flotation. Grind sizes over the range from P_{80} 70 to 160 µm were evaluated without the use of sodium cyanide. Cyanide additions of 0.01, 0.02 and 0.03 lb/st NaCN were evaluated at a grind size of P_{80} 95 µm. The results of these tests are summarized in Table 13-5 and shown graphically in Figure 13-1, Figure 13-2 and Figure 13-3. Figure 13-1 and Figure 13-2 show metal recovery into the lead and zinc concentrates versus grind size and cyanide addition. Figure 13-3 shows metal recovery into the lead rougher flotation concentration versus flotation retention time.

It was found that metal recoveries were generally insensitive to grind size over the range tested with about 98% lead recovery, 96% silver recovery and 92% copper recovery into the lead rougher concentrate. Zinc metallurgy was somewhat impacted at the coarsest grind size of P_{80} 160 µm with 52.5% of the zinc reporting to the zinc concentrate. At the finer grind sizes, zinc recovery into the zinc rougher concentrate ranged from 55% to 60%. As a result of the somewhat improved zinc metallurgy at grind sizes finer than P_{80} 160 µm, a grind size of P_{80} 130 µm was established as the target grind for all future testing. This test series also found that sodium cyanide did not provide any additional depression of the zinc minerals during lead rougher flotation over the range tested. As a result, the use of cyanide was eliminated from any further consideration.

It can be observed from Figure 13-3 that flotation into the lead rougher concentrate is complete after 8 minutes of flotation. It can also be observed that zinc flotation into the lead concentrate can be partially controlled by controlling the rougher flotation retention time due to the slower flotation kinetics associated with the zinc minerals.

Grind P80 µm	160	132	95	71	95	95	95
lb/st NaCN	-	-	-	-	0.01	0.02	0.03
Pb Conc. Recovery %							
Ag	98.0	98.1	98.4	98.3	98.5	98.6	98.5
Pb	96.3	96.1	96.1	95.0	96.4	97.3	97.2
Cu	90.6	91.6	92.4	93.0	92.0	91.6	93.2
Zn	38.6	34.4	36.0	29.5	35.9	38.7	34.4
Zn Conc. Recovery %							
Ag	0.9	0.8	0.8	0.9	0.6	0.6	0.6
Pb	0.5	0.6	0.7	1.3	0.5	0.4	0.4
Cu	1.4	1.3	1.4	1.3	1.3	1.3	1.3
Zn	52.5	55.1	55.5	60.3	55.1	52.2	55.4
Pb Ro Conc. Grade							
Ag (oz/st)	326	318	321	319	290	301	303
Pb (%)	54.5	49.5	49.6	54.0	54.0	56.6	58.4
Cu (%)	3.50	3.40	3.48	3.50	3.38	3.51	3.66
Zn (%)	2.46	2.12	2.20	1.82	2.19	2.42	2.17
Zn Ro Conc. Grade							
Ag (oz/st)	25.3	20.9	14.3	18.2	12.8	14.5	14.7
Pb (%)	2.70	2.40	2.04	4.63	1.91	2.09	1.90
Cu (%)	0.48	0.41	0.30	0.32	0.32	0.41	0.40
Zn (%)	29.1	28.6	19.7	24.2	23.0	26.9	27.5

Table 13-5: Summary of Grind Size vs. Recovery and Cyanide Addition

Source: FLSmidth, 2016.

Ro = rougher


Source: FLSmidth, 2016





Source: FLSmidth, 2016

Figure 13-2: Metal Recovery to the Lead and Zinc Rougher Concentrates vs. Cyanide Addition



Figure 13-3: Metal Recovery into the Lead Rougher Flotation Concentrate vs. Retention Time

Open Circuit Cleaner Flotation

After completion of the reagent scoping and grind-recovery test series, larger scale lead and zinc rougher flotation tests were run under the following optimized conditions in order to generate lead and zinc rougher concentrates for open circuit cleaner flotation studies:

Lead Rougher Flotation

- Primary grind: P₈₀ 130 µm
- PH: 7.2 (natural)
- ZnSO4: 0.5 lb/st
- MBS: 0.5 lb/st
- Cytec 3418A: 0.015 lb/st
- Cytec 232: 0.01 lb/st
- Retention Time: 8 minutes

Zinc Rougher Flotation

- PH: 11.9 (with lime)
- CuSO₄.5H₂O: 0.22 lb/st
- SIPX: 0.03 lb/st
- Retention Time: 3 minutes

The lead rougher concentrates were then reground to various grind sizes ranging from P_{80} 90 μ m (no regrinding) to P_{80} 32 μ m and then upgraded in one stage of cleaner flotation with the following conditions:

• ZnSO4: 0.025 lb/st

- MBS: 0.025 lb/st
- Cytec 3418A: as needed
- PH: 7.5
- Retention Time: 5 minutes

The zinc rougher concentrate was upgraded in one stage of cleaner flotation with the following conditions:

- SIPX: 0.03 lb/st
- PH: 10.5
- Retention Time: 2 minutes

The results of both lead and zinc flotation after one stage of open circuit cleaner flotation are summarized in Table 13-6. Without regrinding, it was possible to achieve an overall recovery of 91.6% of the silver, 45% of gold, 93.4% of lead and 87.3% of copper into a lead cleaner flotation concentrate containing 59.8% Pb, 350 oz/st Ag, 3.8% Cu and 1.8% Zn. Approximately 28% of the zinc contained in the ore reported to the lead cleaner concentrate. Regrinding of the lead concentrate resulted in slower flotation kinetics and slightly lower overall lead recoveries. This is shown graphically in Figure 13-4. Silver, gold and copper in the lead concentrate did not appear to be affected by regrinding.

The results of this test series indicated that regrinding of the lead concentrate prior to cleaner flotation was not required. As such, all future lead cleaner flotation testwork was performed without regrinding. Metal recovery during first-stage lead cleaner flotation versus retention time (without regrinding) is shown graphically in Figure 13-5. Metal recovery is essentially complete after 3 to 5 minutes of laboratory-scale flotation.

 Table 13-6: Summary of First Stage Lead and Zinc Cleaner Flotation vs. Regrind Size

Regrind	rind Grade (oz/st or %) Overall / Red						Recov	ery (%)	(1)	
P80 µm	Ag	Au	Pb	Cu	Zn	Ag	Au	Pb	Cu	Zn
90	350	0.03	59.8	3.76	1.83	91.6	45.2	93.4	87.3	27.7
50	362	0.03	53.7	3.94	1.78	92.3	42.8	88.2	85.1	26.2
35	352	0.03	66.7	4.36	1.97	92.7	44.8	90.6	87.3	26.5
32	340	0.03	62.4	4.31	2.71	90.7	47.4	90.4	89.0	39.0

Lead Cleaner - 1 Conc.

Zinc Cleaner -1 Conc.

Regrind		Grade	oz/st	or %)		Overall / Recovery (%) ⁽¹⁾						
P80 µm	Ag	Au	Pb	Cu	Zn	Ag	Au	Pb	Cu	Zn		
90	65	0.05	6.4	1.1	38.4	1.7	7.3	1.0	2.5	57.5		
50	68	0.05	7.9	1.3	35.8	1.7	7.6	1.2	2.7	50.6		
35	46	0.04	4.6	0.9	42.4	1.2	6.9	0.6	1.9	58.7		
32	55	0.07	10.7	1.0	33.5	1.0	7.4	1.1	1.4	34.0		

Source: FLSmidth, 2016

(1) Overall recovery based on ore feed



Source: FLSmidth, 2016





Source: FLSmidth, 2016

Figure 13-5: Metal Recovery during First-Stage Lead Cleaner Flotation vs. Retention Time (No Regrind)

Locked-Cycle Test

A seven-stage locked-cycle test was run on the Virginius Main master composite using the optimized flotation parameters to simulate the disposition of intermediate process products in a continuous flotation circuit. The flowsheet used for the locked-cycle test is shown in Figure 13-6 and included the following parameters:

- Primary grinding to P₈₀ 130 µm;
- Addition of 0.5 lb/st zinc sulfate and 0.5 lb/st MBS during grinding as zinc mineral depressants;
- Conditioning with 0.01 lb/st Cytec 3418A and 0.01 lb/st Cytec 242;
- Lead rougher flotation for 8 minutes;
- Conditioning for zinc flotation with lime to pH 11.9 and 0.22 lb/st copper sulfate;
- Conditioning with 0.03 lb/st sodium isopropyl xanthate;
- Zinc rougher flotation for 3 minutes;
- Lead cleaner-1 flotation with cleaner-1 tailing recycled to lead rougher flotation;
- Lead cleaner-2 flotation with cleaner-2 tailing recycled to lead rougher flotation; and
- Zinc cleaner-1 flotation with cleaner-1 tailing recycled to zinc rougher flotation.



Source: FLSmidth, 2016

Figure 13-6: Locked-Cycle Test Flowsheet

The results for the locked cycle test (average of last three cycles) are summarized in Table 13-7 and show that 96.6% of the silver, 47.5% of the gold, 96.2% of the lead and 90.6% of copper were recovered into a lead cleaner flotation concentrate containing 69.1% Pb, 378 oz/st Ag, 0.03 oz/st Au, 3.6% Cu and 2.2% Zinc. Almost 32% of the zinc in the feed reported to the lead cleaner concentrate. Zinc flotation recovered 56.2% of zinc, 1.3% of the silver and 4.5% of the gold into a zinc cleaner concentrate containing 46.5% Zn, 60.7 oz/st Ag and 0.03 oz/st Au. Overall silver recovery was 98.8% and overall gold recovery was 52%.

Product	Wt.%	Grade	(oz/st)		Grade	e (%)				Distribu	tion (%)		
Floduct	VVL.70	Ag	Au	Pb	Cu	Zn	Fe	Ag	Au	Pb	Cu	Zn	Fe
Lead Cleaner - 2 Conc.	8.22	378	0.030	69.1	3.63	2.19	1.68	96.6	47.5	96.2	90.6	31.8	2.7
Zinc Cleaner -1 Conc.	0.68	60.7	0.034	4.4	0.55	46.5	3.20	1.3	4.5	0.5	1.1	56.2	0.4
Zinc Rougher Tails	91.10	0.8	0.003	0.21	0.030	0.07	5.35	2.2	48.0	3.3	8.3	11.9	96.8
Total Cycle 5, 6, 7	100.00	32.2	0.005	5.91	0.33	0.56	5.03	100.0	100.0	100.0	100.0	100.0	100.0

Table 13-7: Summary of Locked-Cycle Test on Virginius Main Master Composite (Average of Cycles 5, 6, and 7)

Three variability composites were evaluated during the PFS metallurgical program and tested against the optimized flotation parameters that had been developed for the Virginius Main master composite. The confirmatory testwork conducted on each of the variability composites included initial differential lead and zinc rougher flotation tests in which flotation kinetic data was gathered. This was followed by locked-cycle testing that included differential lead and zinc rougher flotation, two stages of lead cleaner flotation and one stage of zinc cleaner flotation with recirculation of the cleaner flotation tailings. In addition, thickening and filtration testwork was conducted on the rougher flotation tailings generated from each variability composite. The variability composites that were developed for this program are described as follows:

Differential Lead and Zinc Rougher Flotation

Virginius Main High Dilution Variability Composite (VHD)

The results of differential lead and zinc rougher flotation tests on the VHD composite conducted under optimized conditions are summarized in Table 13-8, and show that about 97% of the silver, 43% of the gold, 96% of lead and 93% of copper were recovered into a lead rougher concentrate containing 55% Pb, 295 oz/st Ag, 0.03 oz/st Au and 3.4% Zn. About 59% of the zinc and an additional 1.3% of the gold and 9.6% of the silver were recovered into the zinc rougher concentrate at a grade of 19.9% Zn, 21 oz/st Ag and 0.03 oz/st Au. Rougher flotation metal recoveries as a function of flotation retention time are shown in Figure 13-7. Metal recovery into the lead rougher concentrate was complete after six to eight minutes of flotation. Zinc recovery into the zinc rougher concentrate was complete after 4 minutes of flotation.

			G	rade			Distribution (%)				
Product	Wt %	Ag (oz/st)	Au (oz/st)	Pb (%)	Cu (%)	Zn (%)	Ag	Au	Pb	Cu	Zn
Lead Ro. Conc.	6.7	295	0.03	55.1	3.35	2.08	97.4	43.3	95.9	93.2	32.6
Zinc Ro. Conc.	1.3	21	0.03	4.13	0.34	19.9	1.3	9.6	1.4	1.8	58.6
Zinc Ro Tails	92.0	0.3	0.002	0.11	0.01	0.04	1.3	47.1	2.7	5.0	8.9
Calculated Head	100.0	20.3	0.004	3.85	0.24	0.43	100.0	100.0	100.0	100.0	100.0
	4.0										

Table 13-8: Summary of Rougher Flotation Test on Virginius Main High Dilution Composite

Source: FLSmidth, 2016

JAO/TmP



Source: FLSmidth, 2016

Figure 13-7: Rougher Flotation Metal Recoveries vs. Retention Time: Virginius High Dilution Variability Composite

Virginius Hanging Wall Variability Composite (VHW)

The results of differential lead and zinc rougher flotation tests on the VHW composite, conducted under optimized conditions, are summarized in Table 13-9. These results show that about 90% of the silver, 67% of the gold, 91% of the lead and 80% of copper were recovered into a lead rougher concentrate containing 26.7% Pb, 185 oz/st Ag, 0.2 oz/st Au and 6.5% Zn. About 69% of the zinc and an additional 3.5% of the gold and 10.4% of the silver were recovered into the zinc rougher concentrate at a grade of 26.1% Zn, 11 oz/st Ag and 0.05 oz/st Au. Rougher flotation metal recovery as a function of flotation retention time is shown in Figure 13-8. Metal recovery into the lead rougher concentrate was complete after four minutes of flotation. Zinc recovery into the zinc rougher concentrate was complete after four minutes of flotation. The lower silver, lead and copper recoveries during lead rougher flotation are attributed to the lower grades of these metals in the VHW composite. Similarly, the higher zinc recovery into the zinc rougher concentrate was complete.

Table 13-9: Summary of Rougher Flotation Tests on the Virginius Hanging Wall Variability Composite

			G	rade			Distribution (%)							
Product	Wt%	Ag (oz/st)	Au (oz/st)	Pb (%)	Cu (%)	Zn (%)	Ag	Au	Pb	Cu	Zn			
Lead Ro. Conc.	4.7	185	0.20	26.7	2.07	6.52	90.2	66.6	90.9	80.1	26.6			
Zinc Ro. Conc.	3.1	11	0.05	1.05	0.17	26.1	3.5	10.4	2.3	4.2	69.1			
Zinc Ro Tails	92.2	0.7	0.004	0.10	0.02	0.05	6.3	23.0	6.8	15.7	4.3			
Calculated Head	100.0	9.7	0.014	1.39	0.12	1.16	100.0	100.0	100.0	100.0	100.0			

Source: FLSmidth, 2016



Figure 13-8: Rougher Flotation Metal Recoveries vs. Retention Time: Hanging Wall Variability Composite

Virginius Master/Yellow Rose Variability Composite (VMYR)

The results of differential lead and zinc rougher flotation tests on the VMYR composite conducted under optimized conditions are summarized in Table 13-10 and show that about 97% of the silver, 58% of the gold, 95% of lead and 94% of copper were recovered into a lead rougher concentrate containing 51% Pb, 291 oz/st Ag, 0.12 oz/st Au and 4.5% Zn. About 56% of the zinc and an additional 2.0% of the gold and 27.8% of the silver were recovered into the zinc rougher concentrate at a grade of 17.2% Zn, 16 oz/st Ag and 0.16 oz/st Au. Rougher flotation metal recoveries as a function of flotation retention time are shown in Figure 13-9. Metal recovery into the lead rougher concentrate was complete after six to eight minutes of flotation. Zinc recovery into the zinc rougher concentrate was complete after four minutes of flotation.

 Table 13-10: Summary of Rougher Flotation Test on the Virginius Master/Yellow Rose

 Variability Composite

			G	rade				Distribution (%)						
Product	Wt %	Ag (oz/st)	Au (oz/st)	Pb (%)	Cu (%)	Zn (%)	Ag	Au	Pb	Cu	Zn			
Lead Ro. Conc.	9.1	291	0.12	50.8	2.97	4.53	96.7	58.2	95.3	94.3	40.0			
Zinc Ro. Conc.	3.4	16	0.16	2.94	0.21	17.2	2.0	27.8	2.0	2.5	55.7			
Zinc Ro Tails	87.5	0.4	0.003	0.15	0.01	0.05	1.3	14.0	2.7	3.2	4.3			
Calculated Head	100.0	27.5	0.019	4.87	0.29	1.03	100.0	100.0	100.0	100.0	100.0			

Source: FLSmidth, 2016



Figure 13-9: Rougher Flotation Metal Recoveries vs. Retention Time: Master/Yellow Rose Variability Composite

Locked-Cycle Flotation

Six-stage locked-cycle tests was run on each of the variability composites using the same optimized test flowsheet and parameters that were used for the locked-cycle test on the Virginius Main master composite.

Virginius Main High Dilution Variability Composite (VHD)

The results for the locked cycle test on the VHD composite (average of last three cycles) are summarized in Table 13-11 and show that 97.1% of the silver, 49.7% of the gold, 97.2% of the lead and 95.2% of copper were recovered into a lead cleaner flotation concentrate containing 73.5% Pb, 364 oz/st Ag, 0.047 oz/st Au, 4.5% Cu and 2.8% Zinc. About 38% of the zinc in the feed reported to the lead cleaner concentrate. Zinc flotation recovered 52.7% of zinc, 0.6% of the silver and 4.7% of the gold into a zinc cleaner concentrate containing 41.7% Zn, 22 oz/st Ag and 0.05 oz/st Au. Overall silver recovery was 97.7% and overall gold recovery was 54.4%.

Table 13-11: Summary of Locked Cycle Test on the	e Virginius High Dilution Variabilit	y Composite (Average of Cycles 4, 5 & 6)
--------------------------------------------------	--------------------------------------	------------------------------------------

Product	Wt.%	Grade	e (oz/st)	Grade (%)				Distribution (%)						
Floduci	VVL.70	Ag	Au	Pb	Cu	Zn	Fe	Ag	Au	Pb	Cu	Zn	Fe	
Lead Cleaner-2 Conc.	5.6	364	0.047	73.5	4.52	2.81	1.92	97.1	49.7	97.2	95.2	38.3	1.9	
Zinc Cleaner-1 Conc.	0.5	22	0.048	3.83	0.32	41.7	5.06	0.6	4.7	0.5	0.6	52.7	0.5	
Zinc Rougher Tails	93.9	0.5	0.003	0.11	0.012	0.039	5.94	2.3	45.5	2.5	4.4	9.2	97.8	
Total - Cycle 4, 5, 6	100.0	21.0	0.005	4.03	0.25	0.40	5.70	100.0	100.0	100.0	100.0	100.0	100.0	

Virginius Hanging Wall Variability Composite (VHW)

The results for the locked cycle test on the VHW composite (average of last three cycles) are summarized in Table 13-12 and show that 87.8% of the silver, 70.3% of the gold, 91.7% of the lead and 83% of copper were recovered into a lead cleaner flotation concentrate containing 40.3% Pb, 267 oz/st Ag, 0.34 oz/st Au, 3.2% Cu and 9.9% Zinc. About 32% of the zinc in the feed reported to the lead cleaner concentrate. Zinc flotation recovered 57.5% of zinc, 1.4% of the silver and 2.8% of the gold into a zinc cleaner concentrate containing 48.9% Zn, 12 oz/st Ag and 0.04 oz/st Au. Overall silver recovery was 89.2% and overall gold recovery was 73.1%. The lower silver, lead and copper recoveries, as well as the lower grade of the lead cleaner concentrate are most likely attributable to the lower grade of the VHW composite, which contained 10.7 oz/st Ag, 1.55% Pb and 0.14% Cu.

Product	Wt.%	Grade	ade (oz/st) Grade (%) Distribution (%))				
Product	VVI.70	Ag	Au	Pb	Cu	Zn	Fe	Ag	Au	Pb	Cu	Zn	Fe
Lead													
Cleaner-2	3.5	267	0.340	40.3	3.24	9.89	13.99	87.8	70.3	91.7	83.0	32.0	10.5
Conc.													
Zinc													
Cleaner-1	1.3	12	0.037	0.73	0.19	48.9	3.97	1.4	2.8	0.6	1.7	57.5	1.1
Conc.													
Zinc													
Rougher	95.2	1.2	0.005	0.13	0.022	0.12	4.37	10.7	26.9	7.7	15.2	10.5	88.4
Tails													
Total -													
Cycle 4,	100.0	10.7	0.017	1.55	0.14	1.09	4.70	100.0	100.0	100.0	100.0	100.0	100.0
5, 6													

Table 13-12: Summary of Locked-Cycle Test on the Virginius Hanging Wall Composite (Average of Cycles 4, 5 and 6)

Source: FLSmidth, 2016

Virginius Master/Yellow Rose Variability Composite (VMYR)

The results for the locked cycle test on the VMYR composite (average of last three cycles) are summarized in Table 13-13 and show that 96.7% of the silver, 61.8% of the gold, 95.9% of the lead and 93.5% of copper were recovered into a lead cleaner flotation concentrate containing 64.6% Pb, 353 oz/st Ag, 0.1 oz/st Au, 3.8% Cu and 5.0% Zinc. About 40% of the zinc in the feed reported to the lead cleaner concentrate. Zinc flotation recovered 52.5% of zinc, 1.3% of the silver and 5.9% of the gold into a zinc cleaner concentrate containing 31.7% Zn, 22 oz/st Ag and 0.05 oz/st Au. Overall silver recovery was 98% and overall gold recovery was 67.7%%.

Product	Wt.%		Grade (oz/st)		Grade (%)				Distribution (%)					
		Ag	Au	Pb	Cu	Źn	Fe	Ag	Au	Pb	Cu	Zn	Fe	
Lead Cleaner-2 Conc.	7.6	353	0.099	64.6	3.85	5.01	3.12	96.7	61.8	95.9	93.5	40.0	5.1	
Zinc Cleaner-1 Conc.	1.6	22	0.046	3.74	0.34	31.7	12.1	1.3	5.9	1.1	1.7	52.5	4.1	
Zinc Rougher Tails	90.8	0.6	0.004	0.16	0.016	0.079	4.62	2.1	32.2	2.9	4.8	7.5	90.8	
Total - Cycle 4, 5, 6	100.0	27.7	0.012	5.07	0.31	0.97	4.62	100.0	100.0	100.0	100.0	100.0	100.0	

Table 13-13: Summary of Locked-Cycle Test on the Virginius Main/Yellow Rose Blend Variability Composite

13.2.6 Thickening and Filtration Studies

Thickening and pressure filtration tests were conducted on the zinc rougher flotation tailings and final lead cleaner concentrate produced from the Virginius Main master composite. In addition, thickening and pressure filtration tests were conducted on the zinc rougher flotation tailings produced from each of the three variability composites. The results of this work are documented in two FLSmidth's reports, "Thickening, Rheology and Pressure Filtration Testing: Virginius Master No. 2 Lead Cleaner Concentrate and Zinc Scavenger Tailings", June 2016 and "Thickening and Pressure Filtration Testing - Zinc Scavenger Tailings: Variability Samples", June 2016.

Thickening Studies

The results of the thickening tests on the zinc scavenger tailings and the lead cleaner concentrate are summarized in Table 13-14. An anionic polyacrylamide flocculant with a high molecular weight and medium charge density produced the best overall clarity and settling velocities (Hychem AF 309, or equivalent) and flocculant dosages for the zinc scavenger tailing ranged from about 20 to 25 g/mt for the master composite to 35 to 45 g/mt for the Master composite/Yellow Rose blend variability composite. The specific unit settling area for the zinc scavenger tailings ranged from 0.05 m²/mt/d for the Master composite to 0.12 m²/mt/d for the Master/Yellow Rose blend variability composite. The specific unit dosage for the lead cleaner concentrate is about 10 g/mt of concentrate and the specific settling area for the lead cleaner concentrate was reported at 0.1 m²/mt/d.

These specific settling areas indicate that both the zinc scavenger tailings and lead cleaner concentrate can be expected to settle very well, but it should be recognized for thickener sizing purposes that specification of settling areas less than $0.125 \text{ m}^2/\text{mt/d}$ is impractical due to rise rate limitations. As such, actual thickener specifications and scale-up factors should be provided by selected thickener vendors prior to finalizing equipment selection.

The recommended underflow slurry density from the concentrate thickener is approximately 80% solids, which results in a yield stress of about 25 Pa. with a retention time of less than one hour. The recommended slurry density for the tailings thickener underflow is approximately 60% to 65% solids for the Virginius composites and about 50% to 55% solids for the Virginius Main/Yellow Rose Blend composite. Underflow yield stress for the scavenger tailings ranged from 20 to 50 Pa.

		Zinc S	cavenger F	Flotation Ta	ailings	Lead CI Conc.
Thickening Parameters	Units	Master	Variab	oility Comp	osites	Master
		VM	VHD	VHW	VMYR	VM
Thickener Type		high rate	high rate	high rate	high rate	conventional
Feedwell Slurry Density	wt%	10	10	10	10	30
Flocculant dosage	g/mt	20 to 25	15 to 20	20 to 30	35 to 45	10
Unit Area	m²/mt/d	0.045	0.05	0.07	0.12	0.1
Solids Loading	mt/d/m ²	22				10
Recommended Max. Rise Rate	m/h	10				1 -1.25
Design Underflow Slurry Density	wt%	65	60	60	54	80
Overflow Clarity	ppm	<100	<100	<100	<100	<200
U/F Yield Stress at Design	Pa	50	20	35	25	25

 Table 13-14: Thickener Sizing Parameters (Metric): Zinc Scavenger Flotation Tailing and Lead

 Cleaner Concentrate

Filtration Studies

FLSmidth tested pressure filtration methods for both the lead concentrate and flotation tailing samples at the feed solids concentrations determined for the thickener testwork. This testwork generated design data used for sizing their PneumaPress filter for the concentrate and a recessed chamber plate and frame filter press for the flotation tailings. FLSmidth also provided data to correlate the PneumaPress test results to develop sizing specifications for a concentrate are summarized in Table 13-15. The results of the pressure filtration testwork conducted on the zinc flotation tailing samples and FLSmidth's estimated parameters for lead concentrate filtration with a recessed pressure filter are presented in Table 13-16.

Test results on the lead cleaner concentrate indicate that the PneumaPress can achieve filtration rates of approximately 3,000 to 6,000 kg/m²/h at cake moistures of less than 4%. FLSmidth's correlation of the PneumaPress results to a conventional plate and frame filter press, indicate an estimated filter press specific filtration area of 792 to 1,273, kg/m²/h would be required to filter the lead cleaner concentrate.

Recessed chamber filter press testwork on the zinc scavenger tailing samples from the Virginius Master, Virginius High Dilution (VHD) and Virginius Hanging Wall (VHW) composites demonstrated that with a 50 mm chamber and an applied pressure of 15.5 bar that specific filtration rates of 150 to 175 kg/m²/h will yield a cake moisture of about 14% to 15 wt%. The Virginius Master/Yellow Rose Blend composite yielded filter cakes with higher moisture contents ranging from 16.7 to 19.3 wt%.

It should be noted that filtration testwork on the zinc cleaner flotation concentrate was not conducted because suitable quantities of zinc concentrate could not be generated for this purpose.

Table 13-15: Lead Concentrate PneumaPress® Filtration Test Result

No. 2 Lead Cleaner Conc. (VM)	
Cake/Chamber Thickness (mm)	55
Cake Formation / Drying Pressure (bar)	10
Cake Formation Time (min)	0.12
Cake Drying Time (min)	0.55 to 2.8
Technical Time (min)	1.5
Total Cycle Time (min)	2.2 to 2.8
Cake Moisture (wt %)	2.7 to 4.4
Filtration Rate (kg/m ² /h)	3,000 to 6,000

Source: FLSmidth, 2016

Table 13-16: Pressure Filtration Sizing Parameters - Zinc Scavenger Flotation Tailing and Lead Cleaner Concentrate

Filtration		Zin	c Scavenger I	-lotation Taili	ngs	Lead CI Conc.
Parameters	Units	Master	Varia	ability Compo	sites	Master
Faiameters		VM	VHD	VHW	VMYR	VM
Filter Type Thickener Type		pressure	pressure	pressure	pressure	pressure
Cake Thickness	mm	50	50	50	50	50
Formation Pressure	bar	15.5	15.5	15.5	15.5	10
Formation time	minutes	7.5	4	5.5	3	0.25
Cake Drying Time	minutes	0 to 8	0 to 7	0 - 8	0 - 5	0 - 3
Technical Time	minutes	4.5	4.5	4.5	4.5	4.5
Cake Moisture	wt %	14.2 to 15.5	15.1 to 17.7	15.1 to 17.0	16.7 to 19.3	2.7 to 11
Filtration Rate	kg/m²/h	150 to 250	175 to 325	154 to 277	215 to 360	792 to 1273

Source: FLSmidth, 2016

13.3 Feasibility Metallurgical Studies

Feasibility-level metallurgical studies were conducted by FLSmidth (Dawson) and the results of these studies are fully documented in in their report "Report of Feasibility Level Flotation on Variability Composite Samples From OSMI's Revenue Mine" May 4, 2017. This program was based on the outcomes of the PFS metallurgical program and resulted in further optimization of the flotation process to recover the contained metal values in separate lead and zinc cleaner flotation concentrates. This program was conducted on variability composites that represented spatial and grade variations within the Virginius Main Vein, the Footwall Vein and the Yellow Rose Vein, as well as a master composite the was formulated to represent the weighted average contribution from these veins during the first five years of mining.

13.3.1 Test Sample Characterization

Five variability samples were collected for the feasibility-level metallurgical program. These samples were identified as follows:

- VM-1 (VM-Mong): Virginius Main Vein sample from the Monongahela area;
 - VM-2 (VM-Decline): Virginius Main Vein sample from the decline area;
- VF-1 (FW-Stope): Virginius Footwall Vein sample from the 231 stope;
- VF-2 (FW-Decline): Virginius Footwall Vein sample from the decline area; and
- YR-1 (Yellow Rose): Yellow Rose Vein sample.

The VM-1, VM-2, VF-1 and VF-2 samples were collected by drilling and blasting and then collecting five to six sub-samples that were each placed in five-gallon buckets and assayed separately prior to

compositing. The YR-1 samples were collected by scaling fractured material and collecting the material into five 5-gallon buckets which were also assayed separately prior to compositing. The following protocol was used for each of the sampling points:

- Multiple sub-samples of vein material and dilution material were collected in each sampling area;
- Each sub-sample was assigned a specific identification number;
- Identification of each sampling location with accurate three-dimensional coordinates;
- Photograph of each sub-sample; and
- Photograph of each sampling location with a description of the geology.

Table 13-17 provides a description and coordinates for each of the variability samples and Figure 13-10 shows the actual locations from which each of the samples was taken.

			Co	oordinate	s	Waight	
Sample	Туре	Location	East (ft)	North (ft)	Elev. (ft)	Weight (kg)	Description
VM-1	Main Vein	561 stope	93,544	96,565	10,752	136	Quartz-carbonate vein with galena, sphalerite, tetrahedrite and pyrite
VM-1	Dilution (andesite)	561 stope	93,544	96,565	10,752	na	Vein transects andesite dyke
VF-1	Footwall Vein	231 stope	94,055	95,924	10,709	163	Quartz-carbonate vein with galena, sphalerite, tetrahedrite and pyrite
VF-1	Dilution (pyroclastic)	231 stope	94,055	95,924	10,709	53	Vein transects andesitic- dacitic pyroclastic flows
VM-2	Main Vein	Decline 19L	94,818	94,846	10,691	132	Quartz-carbonate vein with galena, sphalerite, tetrahedrite and pyrite
VM-2	Dilution (andesite)	Decline 19L	94,818	94,846	10,691	na	Vein transects andesite dyke
VF-2	Footwall Vein	Decline 65L	94,996	94,492	10,644	145	Quartz-carbonate vein with galena, sphalerite, tetrahedrite and pyrite
VF-2	Dilution (pyroclastic)	Decline 65L	94,996	94,492	10,644	53	Vein transects andesitic- dacitic pyroclastic flows
YR-1	Yellow Rose Vein	Yellow Rose	101,780	97,432	11,130	171	Quartz-carbonate vein with galena, sphalerite, tetrahedrite and pyrite
YR-1	Dilution (pyroclastic)	Yellow Rose	101,780	97,432	11,130	55	Vein transects andesitic- dacitic pyroclastic flows

Table 13-17: Metallurgical Sample Description and Locations

Source: OSMI, 2017



Source: OSMI, 2017

Figure 13-10: Feasibility Study Metallurgical Sample Locations

The buckets of vein and dilution material from each area of the mine were assayed individually and on the basis of these assays, the percentage of dilution with unmineralized material was determined in order to achieve composite target grades that would correspond with ore grades that were similar to those established in the mine plan. Table 13-18 shows the predicted average undiluted and diluted grades for each variability composite. Table 13-19 shows the actual head assays for each variability

composite. Also shown are the calculated and assay heads for the master composite that was formulated on the basis of the mine plan contribution from each area:

- Virginius Main Vein: 69.8%
- Virginius Footwall Vein: 9.4%
- Yellow Rose Vein: 20.8%

Table 13-18: Variability Composite Predicted Ore Grades with Dilution

Sample	Туре	Dilution (%)	Ag (oz/st)	Pb (%)	Cu (%)	Zn (%)
VM-1	Vein		27	6.2	0.3	2.4
VM-1	Dilution		<0.1	0.019	0.01	0.03
Diluted		0%	27.0	6.2	0.3	2.4
VM-2	Vein		54.2	9.7	0.73	0.92
VM-2	Dilution		0.4	0.12	0.01	0.06
Diluted		70%	38.9	7	0.5	0.7
VF-1	Vein		66	15.9	0.8	2
VF-1	Dilution		<0.1	0.024	0.022	0.01
Diluted		80%	36.7	8.0	0.4	1.0
VF-2	Vein		18.7	5.0	0.2	5.3
VF-2	Dilution		<0.1	0.011	0.015	0.02
Diluted		50%	12.5	3.3	0.1	3.5
YR-1	Vein		57.7	13.1	0.4	5.1
YR-1	Dilution		<0.1	0.049	0.003	0.016
Diluted		80%	32.1	7.3	0.2	2.8

Source: FLSmidth/SRK, 2017

Sample	Master Comp. %	Ag (oz/st)	Au (oz/st)	Pb (%)	Cu (%)	Zn (%)	Fe (%)	S(t) (%)	S(=) (%)
VM-1	34.9	28	0.016	6.67	0.28	2.88	2.77	4.25	3.96
VM-2	34.9	39	0.170	10.40	0.51	0.67	4.51	3.73	3.54
VF-1	4.7	36	0.010	9.69	0.46	1.21	3.21	2.90	2.84
VF-2	4.7	12	0.068	3.40	0.15	3.86	4.73	4.98	4.88
YR-1	20.8	31	0.011	7.09	0.20	2.92	2.94	4.78	4.35
Master Comp.	Calc. Head	32.2	0.071	8.05	0.35	2.08	3.52	4.15	3.88
Master Comp.	Assay Head	31.6	0.079	7.53	0.26	1.97	3.59	4.29	3.97

Table 13-19: Head Assays for Feasibility Study Master Composite and Variability Composites

Source: FLSmidth, 2017

13.3.2 Mineralogical Analyses

A representative sub-sample of the Master composite that had been ground to the target grind of P_{80} 130 µm was examined by XRD and AMA for mineralogy, locking/liberation analyses and trace mineral detection. The results of this work are presented in FLSmidth's report, "Mineralogical Characterization of Master Composite from Ouray Revenue Mine and Flotation Concentrates", April 18, 2017. The minerals detected and their concentrations in each size fraction are shown in Table 13-20. Lead was found to occur as galena, zinc was found to occur as sphalerite and copper was found to occur primarily as chalcopyrite and tetrahedrite. Tetrahedrite and polybasite were identified as the primary silver-bearing minerals in the Master composite with tetrahedrite accounting for about 75% of the silver and polybasite accounting for about 25% of the silver.

The liberation of galena, chalcopyrite, sphalerite and tetrahedrite for the Master Composite are presented in Table 13-21. Galena and sphalerite are approximately 90% liberated. Chalcopyrite and

tetrahedrite show higher amounts of middlings (20% to 30%). Chalcopyrite middlings are associated with tetrahedrite, sphalerite, pyrite, arsenopyrite and gangue. Sphalerite middlings are associated with galena, pyrite, and gangue.

	Combined		Size Fract	tion (µm)	
Mineral	Combined Wt %	+106	-106/+53	-53/+20	-20
	VVL 70	33.7	28.43	16.03	21.84
Chalcopyrite	0.56	0.39	0.47	0.71	0.84
Tetrahedrite	0.67	0.51	0.67	0.99	0.67
Other (Cu)	0.03	0.04	0.03	0.02	0.02
Galena	9.32	2.96	12.1	15.0	11.4
Sphalerite	3.11	2.46	3.66	3.89	2.84
Pyrite	2.93	2.31	3.41	3.63	2.74
Arsenopyrite	0.46	0.26	0.58	0.47	0.60
Polybasite	0.04	0.02	0.03	0.07	0.07
Quartz	46.3	54.6	48.6	42.1	33.4
K_Feldspar	9.20	11.08	8.29	8.43	8.04
Plagioclase	4.60	3.87	3.08	3.41	8.58
Muscovite	7.90	8.00	6.95	7.57	9.22
Chlorite	3.72	3.71	2.82	3.44	5.10
Smectite/Kaolinite	0.71	0.62	0.50	0.55	1.27
Amphibole/Pyroxene	0.02	0.03	0.01	0.01	0.01
Calcite/Carbonates	4.03	3.85	3.45	3.93	5.13
Rhodochrosite	2.69	2.60	2.25	2.55	3.52
Siderite	0.57	0.27	0.26	0.33	1.62
Iron Oxide	0.94	0.99	0.85	0.80	1.07
Rutile/Ilmenite	0.18	0.16	0.14	0.19	0.24
Apatite	0.14	0.11	0.07	0.09	0.32
Epidote	0.03	0.03	0.03	0.03	0.02
Rhodonite	0.18	0.25	0.17	0.14	0.10
Barite	1.29	0.62	1.25	1.34	2.35
Other	0.44	0.32	0.34	0.36	0.81

 Table 13-20: Mineral Occurrence in the Master Composite

Source: FLSmidth, 2017

Table 13-21: Sulfide Mineral Liberation in the Master Composite

Mineral		Distrib	oution (%)	
winerai	Galena	Chalcopyrite	Tetrahedrite	Sphalerite
Liberated Galena	91.6	0.08	0.63	0.01
Liberated Chalcopyrite	0.01	64.2	0.11	0.02
Liberated Tetrahedrite	0.00	0.25	61.8	0.01
Liberated Sphalerite	0.06	0.36	0.57	89.4
Liberated Pyrite	0.17	0.13	0.04	0.04
Middling Galena	5.55	2.14	2.61	0.87
Middling Chalcopyrite	0.05	22.7	2.27	0.72
Middling Tetrahedrite	0.06	1.14	29.3	0.45
Middling Sphalerite	0.18	0.46	1.00	6.42
Locked Galena	2.08	0.48	0.07	0.13
Locked Chalcopyrite	0.07	7.50	0.08	0.02
Locked Tetrahedrite	0.00	0.09	0.98	0.00
Locked Sphalerite	0.14	0.24	0.31	1.82
Complex	0.03	0.21	0.19	0.05
Barren	0.00	0.00	0.00	0.00
Other	0.00	0.00	0.00	0.00

Source: FLSmidth 2017

13.3.3 Comminution

RWi and BWi determinations were made on each of the variability composites and the master composites. The RWi determinations were conducted with a closing screen of 1,180 µm and resulted in RWi determinations that ranged from 11.7 to 14.0 kWh/st for the variability composites and 12.9 kWh/st for the master composite. The BWi determinations were conducted with a 180 µm closing screen and ranged from 13.7 to 16.2 kWh/st for the variability composites and 15.6 kWh/st for the master composite. The results of these tests are summarized in Table 13-22. It is noted that these determinations are slightly lower than what was reported for the test composites used in the PFS.

Composito	В	Wi	RWi				
Composite	KWh/st	KWh/mt	KWh/st	KWh/mt			
VM-1	13.7	15.1	11.7	12.9			
VM-2	15.7	17.3	14.0	15.4			
VF-1	16.0	17.6	14.0	15.5			
VF-2	16.2	17.9	13.2	14.5			
YR-1	14.7	16.2	13.2	14.5			
Master	15.6	17.2	12.9	14.2			

Table 13-22: Bond Ball Mill and Rod Mill Work Indices on Variability	and Master Composites

Source: FLSmidth, 2017

13.3.4 Confirmatory Flotation Studies

Confirmatory tests were performed on the variability composites to demonstrate the optimized flotation procedure developed during the earlier PFS. The procedure consisted of grinding the ore with zinc sulfate and sodium metabisulfite (zinc mineral depressants) to a grind size of P_{80} 130 µm. The ground slurry was then conditioned with the collectors Aerophine 3418 and Aerofloat 242 and then floated to produce a lead-silver-copper rougher floatation concentrate, which was then upgraded with two stages of cleaner flotation without regrinding. The lead rougher flotation tailing was then adjusted to pH 11.9 (with lime) and conditioned with copper sulfate (zinc mineral activator) and xanthate collector and then subjected to flotation to produce a separate zinc rougher concentrate, which was upgraded with two stages of cleaner flotation without regrinding.

The results of the confirmatory flotation tests are summarized in Table 13-23 and demonstrated flotation performance similar to what had been achieved during the earlier prefeasibility studies. As an example, the confirmatory test on the master composite recovered 92.7% of the lead, 94% of the silver and 72% of the gold into a lead cleaner flotation concentrate containing 74% lead, 292 oz/st silver and 0.47 oz/st gold. Zinc flotation recovered 75.5% of the zinc, 1.5% of the silver and 4.7% of the gold in a zinc cleaner flotation concentrate containing 54% Zn, 16 oz/st Ag and 0.10 oz/st Au.

Test						Zn #2 Cl Con														
Test	Sample	Wt	Ag	Au	Pb	Cu		% Distribution				Wt	Ag	Au	Pb	Zn		% Dist	ributic	on
#		%	(oz/st)	(oz/st)	(%)	(%)	Ag	Au	Pb	Cu	Zn	%	(oz/st)	(oz/st)	(%)	(%)	Ag	Au	Pb	Zn
1	VM –	9.0	300	0.07	69	3.2	98	23	94.5	82	17	3.4	9	0.04	0.5	63	1.1	5.0	0.2	75.6
7	VM –	14.0	268	0.78	72	3.5	96	74	94.0	90	29	1.2	25	0.40	6.1	33	0.8	3.6	0.7	58.5
8	FW –	11.3	298	0.03	75	3.9	93	24	92.7	90	29	1.1	35	0.08	2.9	52	1.1	7.6	0.4	52.4
4	FW –	5.6	182	0.44	60	2.1	83	35	94.6	68	8	5.6	11	0.18	0.5	62	4.9	14.3	0.8	85.8
5	Yellow	8.5	321	0.12	78	2.4	87	66	89.8	86	14	4.0	30	0.03	2.8	60	3.8	3.6	1.5	78.2
6	Maser	10.3	292	0.47	74	3.0	94	72	92.7	85	18	3.0	16	0.10	2.1	54	1.5	4.7	0.8	75.5

Table 13-23: Summary of Confirmatory Lead and Zinc Flotation Test Results

13.3.5 Large Batch Flotation Studies

Large scale flotation tests (16 kg ore charge) were performed on the Master composite and each variability composite in order to obtain a sufficient amount of rougher tailings material for subsequent tailings thickening and filtration and also to generate a sufficient amount of lead and zinc rougher flotation concentrates for meaningful cleaner flotation tests. Test procedures were similar to those established during the confirmatory testwork. Lead rougher flotation time was maintained at 12 minutes for most of the samples. Lead cleaner-1 flotation was 6 minutes and lead cleaner-2 flotation was 8 minutes. The standard zinc rougher float retention time was 6 minutes, and zinc cleaner-1 and cleaner-2 flotation time was maintained at 3 minutes. The results of the large batch flotation tests are summarized in Table 13-24, and were generally similar to the confirmatory test results. The large batch test on the master composite recovered 91.0% of the lead, 95% of the silver and 72% of the gold into a lead cleaner flotation concentrate containing 71% lead, 296 oz/st silver and 0.46 oz/st gold. Zinc flotation recovered 74.3% of the zinc, 1.4% of the silver and 3.0% of the gold into a zinc cleaner flotation concentrate containing 55% Zn, 16 oz/st Ag and 0.07 oz/st Au.

Table 13-24: Summa	y of Large Batch Lead and Zinc Flotation Test Resu	ults
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Taat			Pb #2 Cl Conc.									Zn #2 CI Conc.								
Test	Number Sample		% oz/st oz/st			%		% D	istribu	tion		%	oz/st	oz/st	%	%	(% Distr	ibutic	n
Number		Wt	Ag	Au	Pb	Cu	Ag	Au	Pb	Cu	Zn	Wt	Ag	Au	Pb	Zn	Ag	Au	Pb	ZN
9	VM-Mong	9.4	291	0.10	65	2.9	97	37	94.6	76	21	3.7	9	0.10	1.8	54	1.2	14.7	1.0	73.8
10	VM-Decline	13.8	275	0.70	70	3.4	94	78	94.0	80	22	1.5	29	0.48	9.8	34	1.1	5.5	1.4	67.7
11	FW-Stope	11.0	312	0.05	71	3.7	91	48	90.8	86	18	1.4	39	0.04	3.4	62	1.4	5.1	0.6	70.7
12	FW-Decline	5.3	184	0.46	58	2.0	78	39	93.6	72	6	5.1	11	0.06	0.5	65	4.6	5.2	0.8	87.0
13	Yellow Rose	11.1	289	0.11	62	1.9	90	72	91.8	91	22	3.4	17	0.02	1.0	64	1.6	3.4	0.4	67.1
14	Master Comp	10.2	296	0.46	71	3.3	95	72	91.0	90	18	2.8	16	0.07	3.4	55	1.4	3.0	1.2	74.3
0	: 141 00.47																			

Figure 13-11 presents the lead cleaner-2 flotation metal recoveries versus retention time for the master composite and each of the variability composites. Generally, a laboratory-scale cleaner-2 flotation retention time of 4 minutes was found to be sufficient. Figure 13-12 presents the zinc cleaner-2 flotation metal recoveries versus retention time. Generally, a laboratory-scale cleaner-2 flotation time of 2 to 3 minutes was sufficient. It should be noted that laboratory-scale flotation retention times are scaled up by a factor of 2.5 to 3.0 for plant design.





Figure 13-11: Lead Cleaner-2 Flotation vs. Retention Time





13.3.6 Locked-Cycle Test on Master Composite

One six-stage locked-cycle test was performed on the master composite in order to assess the impact of recirculating intermediate flow streams (lead and zinc cleaner flotation tailings) on overall mental recoveries and concentrate grades. The locked-cycle test was conducted using optimized test conditions and the same flowsheet that was used for the PFS metallurgical program. The test flowsheet included lead rougher flotation followed by zinc rougher flotation. The lead rougher flotation concentrate was upgraded with two stages of cleaner flotation and the cleaner flotation tailings were recycled back to the conditioner ahead of lead rougher flotation. The zinc rougher flotation concentrate was also upgraded with two stages of cleaner flotation, with the zinc cleaner flotation tailings recycled to the conditioner ahead of zinc rougher flotation. Optimized Locked-cycle test conditions included:

- Primary grinding to P₈₀ 130 µm;
- Addition of 0.5 lb/st zinc sulfate and 0.5 lb/st MBS during grinding as zinc mineral depressants;
- Conditioning with 0.01 lb/st Cytec 3418A and 0.01 lb/st Cytec 242;
- Lead rougher/scavenger flotation for 8 minutes;
- Conditioning for zinc flotation with lime to pH 11.9 and 0.25 lb/st copper sulfate;
- Conditioning with 0.03 lb/st sodium isopropyl xanthate;
- Zinc rougher flotation for 3 minutes;
- Stage addition of F-549 frother as needed;
- No concentrate regrind;
- Rougher concentrate conditioning with zinc sulfate, sodium metabisulfite and 3418A prior to cleaner flotation;
- Lead cleaner-1 flotation for 5 minutes with cleaner-1 tailing recycled to lead rougher flotation;
- Lead cleaner-2 flotation for 3 minutes with cleaner-2 tailing recycled to lead rougher flotation;
- Zinc cleaner-1 flotation for 3 minutes with cleaner-1 tailing recycled to zinc rougher flotation; and
- Zinc cleaner-2 flotation for 2 minutes with cleaner-2 tailing recycled to zinc rougher flotation.

The average results of the last three cycles of the locked-cycle test are summarized in Table 13-25 and shows that 94.7% of the lead, 94.8% of the silver, 91.4% of the copper and 74.2% of the gold were recovered into a lead cleaner concentrate that contained 70.3% Pb, 286 oz/st Ag, 3.07% Cu and 0.41 oz/st Au. Zinc flotation resulted in the recovery of 72.9% of the zinc, 1.3% of the silver and 2.0% of the gold into a zinc cleaner concentrate that contained 57.5% Zn, 16 oz/st Ag and 0.048 oz/st Au.

			Locked	Cycl e	Fest on I	Master C	omposit	е			
Balance	Weight	Weight	Assay	y - oz/st		Δ	ssay - %	6		Assa	y - ppm
for - Cycle 4, 5, 6	(g)	(%)	Ag	Au	Pb	Cu	Zn	Fe	S=	As	Sb
Pb #2 Cl Con	641.7	10.70	286	0.41	70.3	3.07	4.18	2.52	na	1,968	15,215
Zn #2 Cl Con	154.0	2.57	16	0.048	2.30	0.18	57.5	3.86	na	5,197	627
Rougher Tails	5,200.5	86.73	1.5	0.016	0.42	0.030	0.12	4.10	1.49	na	na
Total - Cycle 4, 5, 6	5,996.2	100.00	32.3	0.060	7.95	0.36	2.02	3.92	na	na	na
				Dis	stributio	n - %					
Pb #2 Cl Con	-	10.70	94.8	74.2	94.7	91.4	22.1	6.9	-	-	-
Zn #2 Cl Con	-	2.57	1.3	2.0	0.7	1.3	72.9	2.5	-	-	-
Rougher Tails	-	86.73	3.9	23.8	4.6	7.3	5.0	90.6	-	-	-
Total - Cycle 5, 6, 7	-	100.00	100.0	100.0	100.0	100.0	100.0	100.0	-	-	-

Table 13-25: Summary of Locked-Cycle Test Results on the Master Composite (Average of Last 3 Cycles)

13.3.7 Thickening and Filtration Studies

Thickening Studies

The large-scale flotation tests (using 16 kg ore) were performed on the master composite in order to obtain a sufficient amount of flotation rougher tailings for thickening and filtration testwork. Results of this work are fully documented in FLSmidth's report, "Ouray Silver Mine – Revenue Mine Project – Thickening and Filtration Testing" April 19, 2017. The results of the thickening tests on the zinc scavenger tailings and the lead cleaner concentrate are summarized in Table 13-26 and compared to the thickening test results that were obtained during the earlier PFS metallurgical program. Also shown are the thickener test results for the lead cleaner concentrate produced from the PFS master composite.

Page 118

	Metric	Zinc Scaver	Zinc Scavenger Tailings						
Parameter	Units	Feasibility Master Comp.	Prefeasibility Master Comp.	Prefeasibility Master Comp.					
Thickener Type		high rate	high rate	Conventional					
Recommended Feed Solids Conc.	wt%	10 to 12	10	30					
Design Underflow Slurry density	wt%	60	65	80					
Minimum Solids Residence Time	hours	0.5							
Recommended Yield Stress	Pa	<30	<50	<25					
Overflow clarity	ppm	<200	<100	<200					
Recommended Flocculant		anionic – high mol. wt.	anionic – high mol. wt.	anionic – high mol. wt.					
Recommended Flocculant Dosage	g/mt	20 to 25	20 to 25	10					
Minimum Recommended Unit Area	m²/mt/d	0.04	0.045	0.1					
Maximum Recommended Rise Rate	m/h	16	10	1 to 1.25					

Table 13-26: Summary of Thickening Test Results on Feasibility and Prefeasibility Master
Composite Flotation Tailing and Lead Concentrate

Source: FLSmidth, 2016 and 2017

An anionic polyacrylamide flocculant with a high molecular weight and medium charge density produced the best overall clarity and settling velocities and flocculant dosages for the zinc scavenger tailing ranged from about 20 to 25 g/mt for both master composites. The specific unit settling area was similar for the flotation tailings produced from both master composites, ranging from 0.04 to $0.05 \text{ m}^2/\text{mt/d}$. The recommended flocculant dosage for the lead cleaner concentrate is about 10 g/mt of concentrate and the specific settling area for the lead cleaner concentrate was reported at $0.1 \text{ m}^2/\text{mt/d}$.

These specific settling areas indicate that both the zinc scavenger tailings and lead cleaner concentrate can be expected to settle very well, but it should be recognized for thickener sizing purposes that specification of settling areas less than 0.125 m²/mt/d is impractical due to rise rate limitations. As such, actual thickener specifications and scale-up factors should be provided by selected thickener vendors prior to finalizing equipment selection.

The recommended underflow slurry density from the concentrate thickener is approximately 80% solids, which results in a yield stress of about 25-Pa. with a retention time of less than one hour. The recommended slurry density for the tailings thickener underflow is approximately 60% to 65% solids.

Filtration Studies

Bench-scale pressure filtration tests were conducted on the rougher flotation tailing produced from the master composite. A feed solids content of 60% solids was used based on preliminary rheology testing. Filter chambers of 50 mm (2.0 inch) and 32 mm (1¼ inch) were used. Results are summarized in Table 13-27 and indicate that a tailing moisture content of 13-21% would be obtained depending on the feed rate. A feed pressure of 9.7 bar (140 Pound-force per square inch (psi)) and a drying pressure of 6.9 bar (100 psi) are recommended. Filter press full-scale filtration rates will vary depending on the mechanical and pumping time, the filter's size and model, configuration of the filter press as well as the desired cake moisture. In general, the 50 mm cake condition resulted in higher filtration rates at comparable cake moisture contents to the 32 mm cake, but the 32 mm cake resulted in the lowest ultimate cake moisture.

Table 13-27: Summary of Pressure Filtration Tests on Master Composite Flotation Tailings

Filter Press Results and Recommended Sizing								
Chamber Type	Recessed							
Chamber Thickness, mm	50	32						
Feed Solids Concentration, wt%	60	60						
Filter Media	18-oz. Felt	18-oz. Felt						
Feed Pressure, bar	9.7	9.7						
Cake Consolidation Time, min	1.5	0.8						
Drying Pressure, bar	6.9	6.9						
Cake Moisture, wt%	15-20	13-21						
Filtration Rate, kg/m ² /h	160 to 427	105 to 303						
Dry Cake Density, kg/ft ³	1,710	1,683						

Source: FLSmidth, 2017

13.3.8 Concentrate and Tailing Characterization

Multi-Element Analyses

Multi-element analyses were conducted on the final lead concentrate, zinc concentrate and flotation tailings produced from Locked-cycle tests on the master composite and the results are presented in Table 13-28. Significant quantities of arsenic and antimony were found in the lead concentrate. The zinc concentrate contained significant levels of arsenic and cadmium.

Literient Order of the second constraints Part Count Part Count Part Count Rot rains (FA) Ag oz/st 286 16 1.5 AI wt% 0.10 0.08 4.13 Ba wt% <0.02 <0.02 0.597 Bi wt% 0.08 0.07 2.03 Cu wt% 0.08 0.07 2.03 Cu wt% 0.07 0.16 1.89 Mg wt% 0.03 0.02 0.62 Mn wt% 0.03 0.02 0.002 Ma wt% 0.07 0.08 0.48 Ni wt% 0.025 0.024 0.075 Pb wt% 0.025 0.024 0.075 Pb wt% 0.025 0.024 0.075 Pb wt% 0.005 0.005 0.005 Si wt% 5.49 5.76 19.9 Sn wt%	Element	Unit	Pb Cl Conc.	Zn Cl Conc.	Ro Tails
Al wt% 0.10 0.08 4.13 Ba wt% < 0.02 < 0.02 0.597 Bi wt% <0.001 <0.001 <0.001 Ca wt% 0.08 0.07 2.03 Cu wt% 0.08 0.07 2.03 Cu wt% 0.07 0.016 1.89 Mg wt% 0.03 0.02 0.62 Mn wt% 0.03 0.02 <0.02 Mo wt% 0.07 0.08 0.48 Ni wt% 0.07 0.08 0.48 Ni wt% 0.025 0.024 0.075 Pb wt% 70.3 2.28 0.42 S wt% 16.0 34.3 1.81 S= wt% 0.024 0.354 0.007 Si wt% 0.024 0.354 0.007 Si wt% 0.024 0.354 0.007					
Ba wt% < 0.02 < 0.02 0.597 Bi wt% <0.001	· · ·				
Bi wt% <0.001 <0.001 <0.001 Ca wt% 0.08 0.07 2.03 Cu wt% 3.11 0.26 0.037 Fe wt% 2.52 3.52 4.19 K wt% 0.07 0.16 1.89 Mg wt% 0.03 0.02 0.62 Mn wt% 0.39 0.15 1.22 Mo wt% 0.07 0.08 0.48 Ni wt% 0.07 0.08 0.48 Ni wt% 0.025 0.024 0.075 Pb wt% 70.3 2.28 0.42 S wt% 16.0 34.3 1.81 S= wt% 16.0 34.3 1.81 S= wt% 0.005 <0.005					
Ca wt% 0.08 0.07 2.03 Cu wt% 3.11 0.26 0.037 Fe wt% 2.52 3.52 4.19 K wt% 0.07 0.16 1.89 Mg wt% 0.03 0.02 0.62 Mn wt% 0.39 0.15 1.22 Mo wt% 0.002 < 0.002					
Cu wt% 3.11 0.26 0.037 Fe wt% 2.52 3.52 4.19 K wt% 0.07 0.16 1.89 Mg wt% 0.03 0.02 0.62 Mn wt% 0.39 0.15 1.22 Mo wt% 0.002 < 0.002					
Fe wt% 2.52 3.52 4.19 K wt% 0.07 0.16 1.89 Mg wt% 0.03 0.02 0.62 Mn wt% 0.39 0.15 1.22 Mo wt% 0.002 < 0.002					
K wt% 0.07 0.16 1.89 Mg wt% 0.03 0.02 0.62 Mn wt% 0.39 0.15 1.22 Mo wt% 0.002 < 0.002					
Mg wt% 0.03 0.02 0.62 Mn wt% 0.39 0.15 1.22 Mo wt% 0.002 < 0.002 < 0.002 Na wt% 0.07 0.08 0.48 Ni wt% Pb wt% 0.025 0.024 0.075 Pb wt% 0.025 0.024 0.075 Pb wt% 16.0 34.3 1.81 S= wt% 5.49 5.76 19.9 Sn wt% <0.005					
Mn wt% 0.39 0.15 1.22 Mo wt% < 0.002					
Mo wt% < 0.002 < 0.002 < 0.002 Na wt% 0.07 0.08 0.48 Ni wt% <0.025					
Na wt% 0.07 0.08 0.48 Ni wt% <0.003					
Ni wt% <0.003 <0.003 0.004 P wt% 0.025 0.024 0.075 Pb wt% 70.3 2.28 0.42 S wt% 16.0 34.3 1.81 S= wt% 5.49 5.76 19.9 Sn wt% <0.005					
P wt% 0.025 0.024 0.075 Pb wt% 70.3 2.28 0.42 S wt% 16.0 34.3 1.81 S= wt% 5.49 5.76 19.9 Sn wt% < 0.005 < 0.005 < 0.005 Ti wt% < 0.024 0.354 0.007 Zn wt% < 0.03 < 0.003 < 0.003 Zr wt% < 0.024 0.354 0.007 Zn wt% < 0.003 < 0.003 < 0.003 Zr wt% < 0.003 < 0.003 < 0.003 Zr ppm 2055 <th< td=""><td></td><td></td><td></td><td></td><td></td></th<>					
Pb wt% 70.3 2.28 0.42 S wt% 16.0 34.3 1.81 S= wt% 149 1.49 Si wt% 5.49 5.76 19.9 Sn wt% <0.005					
S wt% 16.0 34.3 1.81 S= wt% 5.49 5.76 19.9 Sn wt% <0.005					
S= wt% 5.49 5.76 19.9 Sn wt% <0.005					
Si wt% 5.49 5.76 19.9 Sn wt% < 0.005		wt%	16.0	34.3	1.81
Sn wt% < 0.005 < 0.005 < 0.005 Ti wt% <0.0065		wt%			1.49
Tiwt%<0.0065<0.00650.25Wwt%0.0240.3540.007Znwt%4.1857.50.116Zrwt%<0.003		wt%		5.76	19.9
W wt% 0.024 0.354 0.007 Zn wt% 4.18 57.5 0.116 Zr wt% <0.003	Sn	wt%		< 0.005	< 0.005
Zn wt% 4.18 57.5 0.116 Zr wt% <0.003	Ti	wt%	<0.0065	< 0.0065	0.25
Zrwt%<0.003<0.003<0.003Asppm205551501610Cdppm2992870<3.0	W	wt%			
As ppm 2055 5150 1610 Cd ppm 299 2870 <3.0	Zn	wt%			0.116
Cd ppm 299 2870 <3.0 Co ppm 28 46 27 Cr ppm <3.0	Zr	wt%	< 0.003	< 0.003	<0.003
Co ppm 28 46 27 Cr ppm <3.0	As	ppm		5150	
Cr ppm <3.0 <3.0 97 Li ppm 237 337 307 Re ppm 56 93 70.5 Sb ppm 15550 369 72 Sr ppm 15 <10.0	Cd	ppm	299	2870	<3.0
Lippm237337307Reppm569370.5Sbppm155036972Srppm15<10.0	Co	ppm	28	46	27
Re ppm 56 93 70.5 Sb ppm 15550 369 72 Sr ppm 15 <10.0 318 Te ppm <10 <10 <10 TI ppm <10 <10 <10 V ppm <25.0 <25.0 87 CI ppm <20 <20 <20 Hg ppm 4 31	Cr	ppm	<3.0	<3.0	97
Sb ppm 15550 369 72 Sr ppm 15 <10.0		ppm	237		
Sr ppm 15 <10.0 318 Te ppm <10	Re	ppm	56	93	70.5
Te ppm <10 <10 <10 TI ppm <10	Sb	ppm	15550	369	72
TI ppm <10 <10 <10 V ppm <25.0	Sr	ppm	15	<10.0	318
V ppm <25.0 <25.0 87 CI ppm <50 <50 F ppm <20 <20 Hg ppm 4 31	Те		<10	<10	<10
V ppm <25.0 <25.0 87 CI ppm <50 <50 F ppm <20 <20 Hg ppm 4 31	TI		<10	<10	<10
Cl ppm <50 <50 F ppm <20	V		<25.0	<25.0	87
F ppm <20 <20 Hg ppm 4 31	CI		<50		
Hg ppm 4 31	F		<20	<20	
	Hg				
			5		

Table 13-28: Multi-Element Analyses on Lead and Zinc Concentrates and Final Flotation Tailing

Source: FLSmidth, 2017

Optical Mineralogy on Lead and Zinc Concentrates

The lead and zinc concentrates produced from the locked-cycle test on the master composite were examined by optical mineralogy and the following main observations were made:

- Galena, sphalerite, tetrahedrite and chalcopyrite are the main minerals in the lead cleaner concentrate. Pyrite and gangue minerals were observed in minor and trace concentrations;
- Sphalerite is the main mineral detected in the zinc cleaner concentrate and pyrite was observed to be the main diluent followed by galena and lower amounts of gangue and copperbearing sulfide minerals;
- Galena is predominantly liberated in the lead concentrate. Sphalerite, while present as middlings with chalcopyrite and galena, is also well liberated. Chalcopyrite has many middlings

with sphalerite, gangue and tetrahedrite. Most of the gangue minerals observed contained some locked chalcopyrite or galena; and

• Sphalerite is mostly liberated in the zinc concentrate. Pyrite is approximately 50% liberated with the other 50% contained in binary or ternary particles with galena and sphalerite. The low amounts of chalcopyrite are usually locked with larger sphalerite grains.

Acid-Base Accounting on the Flotation Tailings

A weighted tailings composite sample from the last 3 cycles was submitted for acid-base accounting (ABA) determination by McClelland Labs in Reno, Nevada and the results are summarized in Table 13-29. It was found that the flotation tailings had an acid generating potential (AGP) of 38.1 and an acid neutralizing potential (ANP) of 89.4, resulting in a net neutralizing potential (NNP) of 51.3 and an ANP/ANP ratio of 2.35. These results indicate that the flotation tailings should not be acid generating.

Table 13-29: Acid-Base Accounting Results on Master Composite Flotation Tailings

Modified Acid/Base Accounting (Mod ABA) Static ARD Potential Test Results, Ouray Mining - Master Composite Locked Cycle Float T#15: Rougher Tailings													
Paste			S	ulfur, wt.% (as	s S)	(1)			Ratio	Sulfur, wt.% (as S) - HCI Wash			
рН	Total	SO4	Pyritic S ⁼	Non-Ext S	Non Sulfate S	AGP	ANP	NNP		SO4	Pyritic S ⁼	Non Sulfate S	
8.2	1.74	0.52	1.22	<0.01	1.22	38.1	89.4	51.3	2.35	0.65	1.09	1.09	

Source: FLSmidth, 2017

(1) AGP based on Pyritic S⁼ content (%S⁼ x 31.25). AGP, ANP and NNP in units of tons CaCO₃ equivalents per 1,000 st of solids.

13.4 Recoverability and Relevant Test Results

Metal recoveries into the lead and zinc flotation concentrates from relevant large-batch and lockedcycle tests conducted under optimized test conditions during the PFS and FS metallurgical programs are shown in Table 13-30 and corresponding concentrate grades are shown in Table 13-31. It is SRK's opinion that lead flotation concentrates containing about 65% Pb and zinc flotation concentrates containing about 54% Zn are achievable in actual plant practice. As such, the recoveries shown correspond to a target lead flotation concentrate grades of about 65% Pb and a target zinc concentrate grade of about 54% Zn, and represent the recovery into the selected flotation test concentrate product (cleaner-2 concentrate, cleaner-1 concentrate or rougher concentrate) that most closely corresponds to the target lead or zinc flotation concentrate grade.

A linear regression of metal recovery versus ore grade was performed for lead, silver, gold, copper and zinc recoveries into the lead flotation concentrate and zinc recoveries into the zinc flotation concentrate. The results of these linear regressions are shown in Figure 13-13 through Figure 13-18. Metal recoveries were estimated for the grade ranges shown in Table 13-32 by calculating the average metal recovery in each grade range using the regression equations determined for each metal. The following general observations can be made:

- Silver recovery is similar to the PFS with recoveries into the lead concentrate ranging from 93% to 95% depending on feed grade;
- Gold recovery into the lead concentrate ranges from 58% to 68% with an additional 4-6% recovery into the zinc concentrate depending upon feed grade;
- Lead recovery into the lead concentrate is very consistent at 94% to 95% and relatively independent of feed grade;
- Copper recovery into the lead concentrate ranges from 84% to 91% depending upon feed grade; and
- Zinc recovery into the zinc concentrate is estimated at 60% to 86% depending upon feed grade.

			Calculated Head Grade					Pb Conc. Distribution (%)					Zn Conc. Distribution (%)					
Composite	Study	Test Type	Ag (oz/st)	Au (oz/st)	Pb (%)	Cu (%)	Zn (%)	Ag	Au	Pb	Cu	Zn	Ag	Au	Pb	Cu	Zn	
VM-Mong	Feasibility	Large Batch	28	0.025	6.43	0.36	2.75	96.6	36.5	94.6	75.8	20.8	1.2	14.7	1.0	1.3	73.8	
VM-Decline	Feasibility	Large Batch	40	0.125	10.3	0.59	0.73	95.1	80.0	94.9	89.8	24.6	1.1	5.5	1.4	1.3	67.7	
FW-Stope	Feasibility	Large Batch	38	0.011	8.57	0.47	1.19	93.6	52.8	91.9	88.9	22.4	1.8	6.5	0.9	2.4	71.5	
FW-Decline	Feasibility	Large Batch	12	0.063	3.31	0.15	3.79	78.0	39.1	93.6	71.5	5.8	6.1	10.3	1.4	8.0	90.7	
Yellow Rose	Feasibility	Large Batch	36	0.017	7.58	0.23	3.26	89.9	72.4	91.8	91.2	22.5	2.6	5.1	1.0	1.5	69.8	
Master Comp	Feasibility	Large Batch	32	0.065	7.97	0.37	2.08	96.4	73.0	94.2	91.0	21.1	1.4	3.0	1.2	1.8	74.3	
Master Comp	Feasibility	Locked Cycle	32	0.060	7.95	0.36	2.02	94.8	74.2	94.7	91.4	22.1	1.3	2.0	0.7	1.3	74.2	
Master Comp	Prefeasibility	Locked Cycle	32	0.005	5.90	0.33	0.56	96.6	47.5	96.2	90.6	31.8	1.3	4.5	0.5	1.1	56.2	
VHD	Prefeasibility	Locked Cycle	21	0.005	4.03	0.25	0.40	97.1	49.7	97.2	95.2	38.3	0.6	4.7	0.5	0.6	52.7	
VHW	Prefeasibility	Locked Cycle	11	0.017	1.55	0.14	1.09	87.8	70.3	91.7	83.0	32.0	1.4	2.8	0.6	1.7	57.5	
VMYR	Prefeasibility	Locked Cycle	28	0.012	5.07	0.31	0.97	96.7	61.8	95.9	93.5	40.0	1.3	5.9	1.1	1.7	52.5	

Table 13-30: Summary of Relevant Test Results From Feasibility and Prefeasibility Metallurgical Programs

Source: FLSmidth, 2016 and 2017

Table 13-31: Summary of Concentrate Grades from Relevant Test Results from Feasibility and Prefeasibility Metallurgical Programs

			C	alculated		Pb Cor	Zn Conc. Grade										
Composite	Study	Test Type	Ag (oz/st)	Au (oz/st)	Pb (%)	Cu (%)	Zn (%)	Ag (oz/st)	Au (oz/st)	Pb (%)	Cu (%)	Zn (%)	Ag (oz/st)	Au (oz/st)	Pb (%)	Cu (%)	Zn (%)
VM-Mong	Feasibility	Large Batch	28	0.025	6.43	0.36	2.75	291	0.098	65.1	2.88	6.10	9	0.099	1.75	0.12	54.2
VM-Decline	Feasibility	Large Batch	40	0.125	10.3	0.59	0.73	261	0.683	66.8	3.26	1.22	29	0.476	9.48	0.52	33.8
FW-Stope	Feasibility	Large Batch	38	0.011	8.57	0.47	1.19	289	0.046	64.8	3.43	2.20	47	0.047	5.27	0.77	57.5
FW-Decline	Feasibility	Large Batch	12	0.063	3.31	0.15	3.79	184	0.464	58.5	2.02	4.14	13	0.107	0.76	0.20	56.5
Yellow Rose	Feasibility	Large Batch	36	0.017	7.58	0.23	3.26	289	0.112	62.5	1.92	6.58	21	0.021	1.71	0.08	53.3
Master Comp	Feasibility	Large Batch	32	0.065	7.97	0.37	2.08	271	0.426	67.0	3.03	3.92	16	0.071	3.37	0.24	55.0
Master Comp	Feasibility	Locked Cycle	32	0.060	7.95	0.36	2.02	286	0.410	70.3	3.07	4.18	16	0.048	2.30	0.18	57.5
Master Comp	Prefeasibility	Locked Cycle	32	0.005	5.90	0.33	0.56	378	0.030	69.1	3.63	2.19	61	0.034	4.40	0.55	46.5
VHD	Prefeasibility	Locked Cycle	21	0.005	4.03	0.25	0.40	364	0.047	73.5	4.52	2.81	22	0.048	3.83	0.32	41.7
VHW	Prefeasibility	Locked Cycle	11	0.017	1.55	0.14	1.09	267	0.340	40.3	3.24	9.84	12	0.037	0.73	0.19	45.0
VMYR	Prefeasibility	Locked Cycle	28	0.012	5.07	0.31	0.97	353	0.099	64.6	3.85	3.85	22	0.046	3.74	0.34	31.7

Source: FLSmidth, 2016 and 2017





Figure 13-13: Silver Recovery into the Pb Concentrate vs. Feed Grade





Figure 13-14: Gold Recovery into the Pb Concentrate vs. Feed Grade




Figure 13-15: Lead Recovery into the Pb Concentrate vs. Feed Grade



Figure 13-16: Copper Recovery into the Pb Concentrate vs. Feed Grade





Figure 13-17: Zinc Recovery into the Pb Concentrate vs. Feed Grade



Figure 13-18: Zinc Recovery into the Zn Concentrate vs. Feed Grade

Table 13-32: Estimated Metal Recoveries for the Virginius-Revenue Mine

Silver Recovery Estimate

Ore Grade Range (oz/st Ag)								
Low	10.0	20.0	30.0					
High	20.0	30.0	47.0					
Estimated Silver Recovery (%)								
Pb Conc.	93	94	95					
Zn Conc.	1	1	1					

Gold Recovery Estimate

Ore Grade Range (oz/st Au)								
Low 0.005 0.040 0.079								
High	0.040	0.079	0.100					
Estimate	Estimated Gold Recovery (%)							
Pb Conc.	58	63	68					
Zn Conc.	6	5	4					

Lead Recovery Estimate

Ore Grade Range (Pb %)								
Low 1.0 2.1 5.0								
High	2.1	5.0	8.5					
Estimate	Estimated Lead Recovery (%)							
Pb Conc.	94	94	95					
1.0.00110.	01	•••	00					

Copper Recovery Estimate

Ore Grade Range (Cu %)							
Low 0.06 0.20 0.30							
High	0.20	0.30	0.50				
Estimated Copper Recovery (%)							
Pb Conc.	84	87	91				

Zinc Recovery Estimate

Ore Grade Range (Zn %)								
Low	0.5	1.2	3.0					
High	1.2	3.0	5.0					
Estimated Zinc Recovery (%)								
Pb Conc.	31	23	10					
Zn Conc.	60	71	86					

Source: SRK, 2017

13.5 Process Design Parameters

Flotation reagent requirements and dosages and the basic process design parameters developed during the metallurgical program are presented in Table 13-33 and Table 13-34, respectively.

Paagant		Reagent Dosages (Ib/st ore)						
Reagent	Pb Rougher	Zn Rougher	Pb Cl-1	Pb Cl-2	Zn CI-1	Zn Cl-2	Total	Comment
Zinc Sulfate	0.50		0.03				0.53	Added to grinding
Sodium Metabisulfite	0.50		0.03				0.53	Added to grinding
Cytec 3418A	0.015		0.005				0.02	Stage added
Cytec 242	0.01						0.01	Stage added
Cytec 549 (Glycol Frother)	0.15	0.03	0.04	0.01	0.01		0.23	Stage added
Lime (Ca(OH)2)		5.0			0.35	0.014	5.36	First Conditioner (pH 11.9)
Copper Sulfate		0.25					0.25	Second Conditioner
Sodium Isopropyl Xanthate		0.03			0.01		0.04	Second Conditioner
Hychem 309 (Flocculant)		0.06		0.002		0.001	0.063	

Table 13-33: Reagent Usage and Dosage Requirements for Processing Virginius Main Ore

Source: FLSmidth, 2016 and 2017

Table 13-34: Key Process Design Parameters

Process Area	Units	Parameter
Crushing		
Ore		
Specific Gravity		2.91
Bond Low Impact Crushing Index (CWi)	kWh/st	6.1
Abrasion Index (Ai)		0.267
Dilution Waste		
Specific Gravity		2.73
Bond Low Impact Crushing Index (CWi)	kWh/st	14.4
Abrasion Index (Ai)		0.057
Grinding		
RWi ⁽¹⁾	kWh/st	14.0
BWi ⁽²⁾	kWh/st	15.7
Primary Grind Size	P80 µm	130
Flotation		
Lead Rougher/Scavenger		
Slurry Density	%	30
Condition	minutes	2
Laboratory Flotation Retention Time	minutes	8
Plant Flotation Retention Time (x 2.5 factor)	minutes	20
Zinc Rougher/Scavenger		
pH Condition	minutes	5
CuSO4 Condition	minutes	5
Laboratory Flotation Retention Time	minutes	5
Plant Flotation Retention Time (x 2.5 factor)	minutes	12.5
Lead Cleaner-1		
Laboratory Retention Time	minutes	5
Plant Retention Time (x 2.5 factor)	minutes	12.5
Lead Cleaner-2		
Laboratory Retention Time	minutes	3
Plant Retention Time (x 2.5 factor)	minutes	7.5
Zinc Cleaner-1		
Laboratory Retention Time	minutes	3
Plant Retention Time (x 2.5 factor)	minutes	7.5

		•
Process Area	Units	Parameter
Zinc Cleaner-2		
Laboratory Retention Time	minutes	3
Plant Retention Time (x 2.5 factor)	minutes	7.5
Thickening		
Flotation Tailings		
Unit Area ⁽³⁾	m²/st/d	0.045
Flocculant dosage	g/st	20 - 25
Underflow density	%	60 - 65
Rise rate	m/h	16
Lead Conc.		
Unit Area ⁽³⁾	m²/st/d	0.1
Flocculant dosage	g/st	10
Underflow density	%	80
Rise rate	m/h	1-1.5
Filtration		
Flotation Tailings		
Filter Type		Pressure
Pressure	bar	9.7
Filtration rate	kg/m²/h	150 - 250
Cycle time	minutes	12.2 - 20
Cake Moisture	%	14.2 - 15.5
Lead Conc. ⁽⁴⁾		
Filter Type		Pressure
Pressure	bar	10
Filtration rate	kg/m²/h	790 - 1270
Cycle time	minutes	4.8 - 7.6
Cake Moisture	%	2.7 - 11

 Table 13-34: Key Process Design Parameters (continued)

Source: FLSmidth and SRK

(1) Hardest reported during feasibility program.

(2) Feasibility master composite.

(3) Does not include any scale-up factors.

(4) FLSmidth estimate from PneumaPress Test Results.

13.6 Significant Factors

A representative sub-sample of the Master composite that had been ground to the target grind of P_{80} 130 µm was examined by XRD and AMA for mineralogy, locking/liberation analyses and trace mineral detection. Lead was found to occur as galena, zinc was found to occur as sphalerite and copper was found to occur primarily as chalcopyrite and tetrahedrite. Tetrahedrite and polybasite were identified as the primary silver-bearing minerals in the Master composite with tetrahedrite accounting for about 75% the silver and polybasite accounting for about 25% of the silver.

RWi and BWi determinations were made on each of the variability composites and the master composites. The RWi determinations were conducted with a closing screen of 1,180 µm and resulted in RWi determinations that ranged from 11.7 to 14.0 kWh/st for the variability composites and 12.9 kWh/st for the master composite. The BWi determinations were conducted with a 180 µm closing screen and ranged from 13.7 to 16.2 kWh/st for the variability composites and 15.6 kWh/st for the master composite. It is noted that these determinations are slightly lower than what was reported for the test composites used in the PFS.

A primary grind size of P_{80} 130 μm was established as the target grind size.

Regrind testwork demonstrated that regrinding of the lead rougher concentrate prior to cleaner flotation was not required.

Locked-cycle testwork on the master composite demonstrated that that 94.7% of the lead, 94.8% of the silver, 91.4% of the copper and 74.2% of the gold were recovered into a lead cleaner concentrate that contained 70.3% Pb, 286 oz/st Ag, 3.07% Cu and 0.41 oz/st Au. Zinc flotation resulted in the recovery of 72.9% of the zinc, 1.3% of the silver and 2.0% of the gold into a zinc cleaner concentrate that contained 57.5% Zn, 16 oz/st Ag and 0.048 oz/st Au.

A linear regression of metal recovery versus ore grade was performed for relevant locked-cycle and large-batch tests conducted during both the FS and PFS metallurgical programs and resulted in the following observations regarding metal recovery:

- Silver recoveries achieved during the FS metallurgical program were similar to the PFS with recoveries into the lead concentrate ranging from 93% to 95% depending on feed grade;
- Gold recovery into the lead concentrate ranges from 57% to 68% with an additional 4% to 6% recovery into the zinc concentrate depending upon feed grade;
- Lead recovery into the lead concentrate is very consistent at 94% to 95% and relatively independent of feed grade;
- Copper recovery into the lead concentrate ranges from 85% to 91% depending upon feed grade; and
- Zinc recovery into the zinc concentrate is estimated at 60% to 86% depending upon feed grade.

Multi-element analyses were conducted on the final lead and zinc concentrates produced from Lockedcycle tests on the master composite. Significant quantities of arsenic and antimony were found in the lead concentrate. The zinc concentrate contained significant levels of arsenic and cadmium. Prior to 2012, Mineral Resource and Reserve estimates at the Project were conducted using polygonal methods. Computer-based methods completed by Sunshine, made use of the Techbase software package. In 2012 and 2013, SRK conducted an initial geological model and mineral resource estimate using Vulcan software. The geological model at the time was based on an assumed minimum mining width for a shrinkage stope methodology (based on Star Mines' request at the time) and therefore is not applicable for all mining methods being considered in the current study.

Between 2015 to 2017, SRK has worked with OSMI to add sufficient levels of geological knowledge to start developing a geological based model, which has sufficient dilution information in the hangingwall and footwall to enable a detailed mine planning study to be completed.

14.1 Database

14.1.1 Coordinate Systems

The Project is in a local coordinate grid system in feet. All claims are located in both the local coordinate grid system and Colorado State Plane South, NAD 27 foot (State Plane).

14.1.2 Topography

During 2013, Star Mines acquired a topographic survey with 2.5 ft contours from satellite data. This survey covers the entire Project area and extending into Yankee Boy and Imogene Basins. The topography files had to be clipped for estimation purposes to the area over each deposit. Star Mines contracted PhotoSat to acquire Pleiades Satellite 50 centimeters (cm) (20 inches) high resolution imagery covering almost 40 square miles including and surrounding the Project area. Based on this imagery, PhotoSat produced topographic data with elevation contours down to 2.5 ft and delivered the imagery and contours in the Project's local coordinate system to facilitate integration with the existing digital data and ease of use by OSMI.

In 2013 SRK completed a review of the drillhole collars to the new topography and noted,

"Drillhole collars from Star Mines' 2012 and 2013 drilling programs were within ± 2 to 5 ft of the topography surface. However, some historic drillholes were up to ± 30 ft from the topographic surface. All surface drillholes were registered to the topography for modeling and estimation purposes. Once the historic drillholes were registered to the topography, the intercepts reconciled with nearby drilling and could be correlated within the vein. These drillholes were used in resource estimation."

SRK recommends that OSMI continue to review the collar information upon completion of any new surface topography as a validation exercise.

14.1.3 Drilling and Sampling Database

The bulk of drilling and channel sampling was completed prior to 1996 on the Virginius Vein. At Yellow Rose Vein, approximately 50% of the drilling is from 2012 and a total of 201 channel samples were collected by Star Mines. Core recoveries observed in the Star Mines drilling programs are +90%. Between 2014 and 2015 under the ownership of FRSM, a total of 608 channel samples were taken as part of the routine mine production. In 2016, OSMI completed 42 holes for over 7,700 ft of drilling from underground in the northern Virginius Vein area of the mine. Drilling was completed from four cross cuts, with the Virginius Main Vein intersected in all the holes.

Whilst drilling has been completed to target a number of the known structures at OSMI, the main focus for the geological modelling and Mineral Resource is considered to be focused in three main areas:

- Virginius Vein Including Main Virginius Vein and dike, footwall structures and hangingwall mineralization;
- Yellow Rose Multiple structures but only one main mineralized vein; and
- Terrible North Drilled from surface and at the proposed intersection of the Virginius and Terrible structures.

The following sections provide a brief summary of the available information extracted from the database split by the Yellow Rose and the Virginius areas.

Yellow Rose

The drillhole database for the Yellow Rose contains both historic and modern data. There are 68 drillholes and 10 channel samples in the resource database collected prior to 1996. Of the historic drillholes, 46 were drilled from surface and 22 were drilled from underground. The 1996 data includes 10 channel samples - four collected at surface and six from underground. The core size during this period was NX with a diameter of 2.98 inches, and AQ and AW both with diameters of 1.89 inches.

In 2012, Star Mines conducted an exploration drilling program adding 56 drillholes to the database. Six of these were drilled from underground into the Wheel of Fortune area, four were drilled into the Silver Queen target area (two from underground and two from surface), and the remaining 46 drillholes were drilled into the Yellow Rose. Of these 46 drillholes, 20 were drilled from surface and 26 were drilled from underground (Table 14-1).

During 2013, Star Mines added nine surface drillholes and 151 channel samples to the Yellow Rose area. The surface drillholes were drilled as infill in widely spaced drilling. Of the 151 channel samples collected during 2013, 114 were collected from the main Yellow Rose Vein structure. These were collected from existing drifts and a stope development area. The other 37 samples were collected from adjacent structures and splays off the main Yellow Rose Vein (Table 14-2).

Because of proximity to the Yellow Rose Vein, drillholes targeting the Silver Queen and Wheel of Fortune drillholes have been included in the block model for the Yellow Rose. All 2012 and 2013 drilling was completed using NQ tools.

Location	Year	No. of Drillholes	No. of Samples	Average Length (ft)	Minimum Length (ft)	Maximum Length (ft)	Total Feet Sampled	Total Feet Drilled
Yellow	Pre- 1996	68	272	2.1	0.1	9.8	570.4	20,206
Rose	2012	46	319	2.3	0.6	8.7	996.5	18,591
	2013	9	53	2.3	0.4	6.0	122.0	3,771
Wheel of								
Fortune	2012	6	55	2.9	1.0	6.0	163.4	2,426
Silver Queen	2012	4	34	3.2	1.0	8.7	107.3	815
Total		133	733	2.56	0.1	9.8	1,959.6	45,809

Table 14-1: Drilling Statistics for the Yellow Rose

Location	Year	No. of Samples	Average Length (ft)	Minimum Length (ft)	Maximum Length (ft)	Total Feet Sampled
	Pre-1996	10	2.45	1.0	5.0	24.5
Yellow	2013	151	1.17	0.1	7.0	175.9
Rose	2013 to 2015	272	1.99	0.1	6.2	479.8
Total		433	1.71	0.1	7.0	200.4

Virginius Vein

The Virginius database is a combination of historic and modern data as well as channel and drillhole data. The core size prior to 1996 was AQ. Star Mines drilling beginning in 2012 was drilled with NQ tools. No drilling was completed between 2012 and 2015, with the focus on production sampling during this period. The 2016 drilling was completed by OSMI using NQ core diameter from underground drilling platforms. Drilling was completed from four exploration cross-cuts using fan drilling patterns. A summary of the drilling and sampling statistics is shown in Table 14-3 and Table 14-4.

Table 14-3: Drilling Statistics for the Virginius

Location	Year	No. of Drillholes	No. of Samples	Average Length (ft)	Minimum Length (ft)	Maximum Length (ft)	Total Feet Sampled	Total Feet Drilled
	Pre- 1996	232	627	1.25	0.1	6.2	786.3	60,830
Virginius	2012	14	164	2.26	0.7	7.1	370.1	9,118
	2013	20	194	1.90	0.8	5.0	368.5	11,554
	2016	42	650	0.94	0.1	2.0	611.9	7,730
Total		308	1635	1.30	0.1	7.1	2,136.8	89,232

Source: SRK, 2016

Table 14-4: Channel Sampling Statistics for Virginius

Location	Year No. of Samples		Average Length (ft)	Minimum Length (ft)	Maximum Length (ft)	Total Feet Sampled	
	Pre-1996	1,478	1.36	0.09	15.1	2,007.8	
Virginius	2013	14	1.47	0.2	4.0	20.6	
virginius	2014 to 2015	370	0.89	0.1	5.0	330.7	
	2016	59	0.76	0.2	1.7	44.6	
Total		1,921.00	1.25	0.09	15.1	2,403.7	

Source: SRK, 2016

14.2 Geologic Model

All veins were modeled using Aranz' Leapfrog Geo™.

There is evidence that dikes and/or faults disrupt and offset the Virginius and the Yellow Rose Vein structures. For example, the Wheel of Fortune Vein is reported to offset the Yellow Rose Vein, and near the intersection between the Virginius and the Terrible Vein a possible offset is assumed causing difficulty in interpretation. SRK did not model faulting or dikes and SRK recommends that mapped faults and dikes be added to the geological model in these areas.

Page 135

In 2015, SRK was commissioned by OSMI to review all the available historical data with key findings presented to OSMI in September 2015, which noted the following geological topics:

- Wireframes used to date had been based on grades and not the key geological features noted by historical miners;
- A need for further drilling to increase the amount of Mineral Resource available for mine production; and
- Geotechnical work to advance the knowledge base on site.

At the request of OSMI, SRK began work on capturing the historical level maps and cross sections into digital format and has geo-referenced over 16 level maps covering the revenue tunnel, 2210, 2350, 2550, 2700 levels and the Terrible drift (Figure 14-1). An additional 32 cross sections have been geo-referenced and checked for positioning against the existing underground development. Some local variation exists between the cross sections and the development, but SRK does not consider these differences to be material.



Source: SRK, 2016

Figure 14-1: Example of Geo-Referenced Historical Maps for the Virginius Vein

Yellow Rose was modeled as five individual veins, with a halo of lower grade mineralization around the main vein. These included the Yellow Rose Main Vein, splays off the main vein, structures parallel to the main vein and those north and east of the intersection (Figure 14-2).



Source: SRK, 2017



The Virginius was modeled as four individual veins, with the dike unit acting as a guide to the main strike. The geological model has been created based on the geological logging codes from historical drilling logs with the latest logging modified to be consistent with this same format. The initial focus of the geological model has been to define the dike unit, which is the widest and most consistent unit across the deposit. The dike forms the guideline to define both hangingwall and footwall structures. The Virginius Main Vein is typically hosted within the dike. Historically the Virginius Main Vein has been logged using three different lithological codes "V1VN", "V2VN" and "V3VN", to describe if the vein is hosted completely within the dike or sits on the footwall or hangingwall of the dike respectively. During the initial geological review in September 2015, SRK attempted to model these as three individual zones but, due to inconsistent sampling and less continuity in the V2VN and V3VN structures, it proved difficult to correlate between veins. During discussions with OSMI geological staff the decision has been taken to model the main structure using a combination of logging codes and grade. The resultant wireframes therefore move between all three sub-domains, but it is likely that the main mineralization grades may behave in a similar manner. Note that only a single structure has therefore been modelled and there remains opportunity for additional mineralization to exist to a limited extent where parallel structures are mineralized. It is SRK's opinion, this tonnage would have limited lateral and vertical extent, but good geological mapping and grade control sampling will improve the knowledge of continuity in these structures and define the minor splays of the Main Vein.

The Terrible Vein was modelled as an individual vein and split from the Virginius block model given its different strike orientation. The Terrible and Virginius are interpreted to intersect at the northern end of the Virginius modeled vein structures. The veins modeled for the Virginius and Terrible are listed in Table 14-5 and shown in Figure 14-3.

Table 14-5: Virginius Veins and Modelling Codes

Vein	KZONE
Virginius Main Vein	1
Dike	2
Footwall Vein	3
Hangingwall Vein	4
Terrible Vein	5
Source: SRK, 2017	



Source: SRK, 2017

Figure 14-3: Oblique View Showing Geological Domains (Veins) for the Virginius Vein

14.3 Assay Capping and Compositing

14.3.1 Outliers

The raw assay data for all metals was assessed by sample type for the presence of high-grade outlier values that could adversely impact grade estimation.

In previous estimates, zero or -999 was used for absent samples or samples below the detection limit. This was because there were multiple lower detection limits for analytical results throughout the history of the Project. For the current estimate, SRK applied a default value to absent, or grades below detection limit, set at ½ the lowest detection limit identified in the database. The following is a list of the values used for samples below the detection limit for both the Yellow Rose and the Virginius.

- Ag = 0.001 oz/st;
- Au = 0.001 oz/st;
- Cu = 0.001%;
- Pb = 0.001%; and
- Zn = 0.001%.

To complete the capping analysis, the SRK reviewed the sample distribution for each vein on a caseby-case basis. The raw gold, silver, lead, copper and zinc assay data for each of the veins were plotted on cumulative distribution graphs to understand the basic statistical distributions and to access appropriate capping levels.

To check the validity of the selected cap for each of the metals in each of the veins, the cumulative distribution curves illustrate a continuous population set with a slight break in slope and distribution at the upper levels. Above this level, the data distribution is more erratic and less continuous.

To complete the review of the capped samples SRK has imported the coded raw samples into Snowden Supervisor Software (Supervisor) for analysis. SRK has reviewed histograms, log histograms, log probability plots and charts reviewing mean grade versus capping value to identify any key breaks in the trend.

After review of log probability plots for all domains, SRK decided to cap the metals in both veins based on the values shown in Table 14-6.

Area	Domain	Au (oz/st)	Ag (oz/st)	Pb (%)	Cu (%)	Zn (%)
	Kzone1	0.85	300	35	2.0	11.5
	Kzone2	0.20	10	5	3.0	8.0
Virginius ⁽¹⁾	Kzone3	0.60	325	35	0.5	8.0
	Kzone4	0.60	200	35	3.0	8.0
	Kzone5	0.60	300	35	3.0	8.0
	Kzone1	0.35	115	19.5	1.0	10.0
	Kzone2	0.30	20	2.5	0.5	2.5
Yellow Rose	Kzone3	0.30	20	2.5	0.5	2.5
reliuw Ruse	Kzone4	0.30	20	2.5	0.5	2.5
	Kzone5	0.30	20	2.5	0.5	2.5
	Kzone6	0.30	20	2.5	0.5	2.5

Table 14-6: Assay Capping by Deposit

Source: SRK, 2016

(1) Virginius analysis is inclusive of the Terrible vein (kzone5).

A comparison between the raw and capped sampling is in Table 14-7, for the Terrible, Yellow Rose and Virginius veins.

Table 14-7: Summary of Raw vs. Capped Values for Estimated Veins (absent values reset	to detection)
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				RAW DAT	A						CAPPED	VALUES	6			
Statistic	Assay	Samples	Minimum	Maximum	Mean	Std Dev	с٧	0.99	Samples	Minimum	Maximum	Mean	Std Dev	с٧	0.99	% Difference Mean
all	Au	5,620	0.001	24.52	0.00	0.07	22.55	0.05	5620	0.001	0.85	0.03	0.07	2.60	0.32	866.67%
Main Vein	Au	1,623	0.001	9.42	0.08	0.31	4.12	0.70	1623	0.001	0.85	0.06	0.11	1.84	0.85	-18.42%
FW Vein	Au	485	0.001	1.33	0.04	0.11	2.62	0.58	485	0.001	0.60	0.05	0.09	1.72	0.52	16.28%
Terrible	Au	138	0.001	0.76	0.06	0.09	1.58	0.54	138	0.001	0.60	0.06	0.09	1.39	0.52	3.33%
Yellow Rose	Au	595	0.001	4.50	0.06	0.27	4.51	0.40	595	0.001	0.35	0.04	0.07	1.54	0.35	-26.67%
Statistic	Assay	Samples	Minimum	Maximum	Mean	Std Dev	с٧	0.99	Samples	Minimum	Maximum	Mean	Std Dev	с٧	0.99	% Difference Mean
all	Ag	5,620	0.001	1085.00	0.75	10.49	13.98	15.59	5620	0.001	325.00	0.68	8.56	12.67	14.70	-9.99%
Main Vein	Ag	1,623	0.001	535.00	24.89	46.32	1.86	229.52	1623	0.001	300.00	24.36	42.22	1.73	229.52	-2.11%
FW Vein	Ag	485	0.001	1085.00	45.20	94.78	2.10	489.84	485	0.001	325.00	40.74	68.67	1.69	325.00	-9.87%
Terrible	Ag	138	0.001	109.50	3.17	9.89	3.12	46.33	138	0.001	109.50	3.17	9.89	3.12	46.33	0.00%
Yellow Rose	Ag	595	0.001	291.76	14.46	27.78	1.92	134.01	595	0.001	115.00	13.61	22.28	1.64	115.00	-5.85%
Statistic	Assay	Samples	Minimum	Maximum	Mean	Std Dev	с٧	0.99	Samples	Minimum	Maximum	Mean	Std Dev	с٧	0.99	% Difference Mean
all	Pb	5,620	0	67.40	0.14	1.49	10.44	4.01	5620	0	40.00	0.14	1.40	10.18	4.05	-3.52%
Main Vein	Pb	1,623	0.001	67.40	5.16	7.08	1.37	34.21	1623	0.001	40.00	5.12	6.81	1.33	34.21	-0.80%
FW Vein	Pb	485	0.001	60.65	6.10	9.57	1.57	45.74	485	0.001	40.00	5.96	8.98	1.51	40.00	-2.28%
Terrible	Pb	138	0	20.00	1.06	3.15	2.97	18.71	138	0	20.00	1.06	3.15	2.97	18.71	0.00%
Yellow Rose	Pb	595	0.001	38.00	3.12	5.53	1.78	27.85	595	0.001	19.50	2.91	4.63	1.59	19.50	-6.51%
Statistic	Assay	Samples	Minimum	Maximum	Mean	Std Dev	cv	0.99	Samples	Minimum	Maximum	Mean	Std Dev	cv	0.99	% Difference Mean
all	Cu	5,620	0.001	101.00	0.01	0.33	27.19	0.17	5620	0.001	3.50	0.01	0.10	11.03	0.17	-25.00%
Main Vein	Cu	1,623	0.001	6.98	0.30	0.65	2.17	2.81	1623	0.001	2.75	0.28	0.46	1.69	2.75	-8.64%
FW Vein	Cu	485	0.001	101.00	1.01	4.57	4.52	20.00	485	0.001	3.50	0.57	0.90	1.58	3.50	-43.81%
Terrible	Cu	138	0.001	1.27	0.02	0.08	5.37	0.18	138	0.001	1.27	0.02	0.08	5.37	0.18	0.00%
Yellow Rose	Cu	595	0.001	12.31	0.13	0.35	2.74	1.27	595	0.001	1.00	0.11	0.19	1.68	1.00	-11.81%
Statistic	Assay	Samples	Minimum	Maximum	Mean	Std Dev	с٧	0.99	Samples	Minimum	Maximum	Mean	Std Dev	с٧	0.99	% Difference Mean
all	Zn	5,620	0.001	720.00	0.07	2.81	42.59	1.70	5620	0.001	720.00	0.06	2.81	43.95	1.70	-3.03%
Main Vein	Zn	1,623	0.001	720.00	2.65	20.45	7.73	13.49	1623	0.001	720.00	2.65	20.45	7.73	13.49	0.00%
FW Vein	Zn	485	0.001	29.00	1.93	2.52	1.30	10.74	485	0.001	11.50	1.92	2.42	1.26	10.80	-0.83%
Terrible	Zn	138	0.001	3.41	0.23	0.57	2.51	2.89	138	0.001	3.41	0.23	0.57	2.51	2.89	0.00%
Yellow Rose	Zn	595	0.001	26.00	1.84	2.25	1.22	10.00	595	0.001	10.00	1.80	2.07	1.15	10.00	-1.80%

14.3.2 Compositing

SRK analyzed the mean length of the underground channel and drillhole samples (Figure 14-4) in order to determine appropriate composite lengths. Approximately 80% of the samples on the Yellow Rose are 3 ft or less with 60% exactly 2 ft. SRK composited the samples at 3 ft lengths to standardize the length for resource estimation for Yellow Rose. The composites were broken against the vein solids generated by SRK.

On the Virginius, approximately 85% of the samples are 2 ft or less and 60% are approximately 1 ft. On the Virginius, SRK composited the samples at 2 ft lengths and the composites were broken against the vein solids. Table 14-8 present the statistics for final capped composites for the Yellow Rose and the Virginius, respectively.



Figure 14-4: Log Probability of Sample Lengths in Veins for the Virginius Vein (kzone1) and Yellow Rose Vein

Statistic	Assay	Samples	Minimum	Maximum	Mean	Std	CV	99 th	% Difference
	-	-	(oz/st)	(oz/st)	(oz/st)	Dev	-	Percentile	Mean
All	Au	52,954	0.001	0.85	0.00	0.02	6.91	0.05	0.00%
Main Vein	Au	1,786	0.001	0.85	0.06	0.10	1.66	0.63	-17.11%
FW Vein	Au	554	0.001	0.60	0.04	0.09	2.17	0.58	-6.98%
Terrible	Au	187	0.001	0.60	0.06	0.08	1.43	0.52	-3.33%
Yellow Rose	Au	637	0.001	0.35	0.04	0.07	1.50	0.35	-26.67%
Statistic	Assay	Samples	Minimum (oz/st)	Maximum (oz/st)	Mean (oz/st)	Std Dev	CV	99 th Percentile	% Difference Mean
All	Ag	52,954	0.001	325.00	0.68	8.51	12.60	14.29	-9.99%
Main Vein	Ag	1,786	0.001	300.00	24.37	41.89	1.72	214.77	-2.09%
FW Vein	Ag	554	0.001	325.00	40.75	68.37	1.68	325.00	-9.84%
Terrible	Ag	187	0.096	109.50	3.17	9.86	3.11	55.14	0.00%
Yellow Rose	Ag	637	0.001	115.00	13.61	21.13	1.55	115.00	-5.85%
Statistic	Assay	Samples	Minimum	Maximum	Mean	Std	с٧	99 th	% Difference
Statistic	-	-	(oz/st)	(oz/st)	(oz/st)	Dev		Percentile	Mean
All	Pb	52,954	0	40.00	0.14	1.38	10.08	3.80	-3.52%
Main Vein	Pb	1,786	0.001	40.00	5.12	6.75	1.32	33.65	-0.81%
FW Vein	Pb	554	0.001	40.00	5.96	8.89	1.49	40.00	-2.30%
Terrible	Pb	187	0	20.00	1.06	3.06	2.88	18.71	0.00%
Yellow Rose	Pb	637	0.001	19.50	2.91	4.50	1.55	19.50	-6.54%
Statistic	Assay	Samples	Minimum (oz/st)	Maximum (oz/st)	Mean (oz/st)	Std Dev	cv	99 th Percentile	% Difference Mean
All	Cu	52,954	0.001	3.50	0.01	0.10	10.97	0.17	-25.00%
Main Vein	Cu	1,786	0.001	2.75	0.28	0.46	1.69	2.74	-8.64%
FW Vein	Cu	554	0.001	3.50	0.57	0.89	1.57	3.50	-43.81%
Terrible	Cu	187	0.001	1.27	0.02	0.08	5.36	0.18	0.00%
Yellow Rose	Cu	637	0.001	1.00	0.11	0.18	1.59	0.97	-7.94%
Statistic	Assay	Samples	Minimum (oz/st)	Maximum (oz/st)	Mean (oz/st)	Std Dev	с٧	99 th Percentile	% Difference Mean
All	Zn	52,954	0.001	720.00	0.06	2.81	43.96	1.61	-3.03%
Main Vein	Zn	1,786	0.001	720.00	2.65	20.46	7.73	13.50	0.00%
FW Vein	Zn	554	0.001	11.50	1.92	2.41	1.26	10.80	-0.83%
Terrible	Zn	187	0.001	3.41	0.23	0.56	2.47	2.89	0.00%
Yellow Rose	Zn	637	0.001	10.00	1.80	1.97	1.09	9.35	-1.85%

Table 14-8: Summary Statistics of Composited Values in Main Veins

14.3.3 Declustering Channel Sampling

During the initial review by SRK in September 2015 and preliminary models, SRK noted the influence on the mean grades and potential block estimates by clustering of the channel sampling.

While the most common method of grade estimation, ordinary kriging (OK), inherently declusters the input data through the point-to-point covariance matrix, other estimation methods, such as inverse distance modelling, do not decluster the data for the purposes of estimation, and this can sometimes lead to biased results.

The drillhole sampling spacing typically ranges between 75 and 125 ft. In comparison, the channel sampling spacing ranges between 5 and 10 ft. Standard grade estimates form a striped effect out to the range of influence and do not represent the desired level of smoothing. Therefore, SRK concluded that for the purposes of grade estimation using inverse distance, there is a need to apply a data selection algorithm for estimation to ensure the channel sampling data does not overwhelm the drill sampling during the grade estimate and thus induce a bias.

SRK tested declustering using a number of methods, and selected an option within Datamine Mining Software, which uses a moving window and averages all the samples within a defined grid spacing to create the declustered mean for a given area. SRK has tested 25 ft x 25 ft grid, 50 ft x 50 ft grids, and 75 ft x 75 ft grids. SRK has run initial block estimates using all three scenarios and compared the results via visual comparisons on long sections of the composites (including declustered samples) and the resultant block estimates (Figure 14-5). Based on this process SRK has selected to use the 50 x 50 ft declustered channel sampling combined with the drillhole intersections during the final estimation runs, based on visual comparisons.



Source: SRK, 2017

Figure 14-5: Example of Declustering Investigation in KZONE 1, Showing Raw Samples as Crosses and Declustered Mean for Same Area as Points

14.4 Density

Prior to 2013, a tonnage factor of 12 ft³/st had been used based on documentation by Mayor (1971) for the Idarado Mine.

In 2013 determinations by measuring sample mass in air and water. A total of 27 measurements were made on Yellow Rose core samples; 17 in waste and 10 in mineralization (Table 14-9). The average for all samples is 10.91 ft³/st. Mineralization averaged 10.70 ft³/st and waste averaged 11.04 ft³/st. In 2014, a measurement program reportedly gave results of 9.6 ft³/st for vein material and 11.7 ft³/st for volcanic rock.

SRK has not reviewed this information in terms of the sampling protocols and QA/QC on these measurements, and therefore elected to use a rounded 11.0 ft³/st for Yellow Rose mineralization, which is further supported by the density of a sample taken for metallurgical testwork.

During the 2016 drill program, testing a northern portion of the Virginius vein, OSMI personnel took density reading from within the mineralized vein and the volcanic rock bounding the veins. The determinations resulted from measuring sample mass in air and in water. A summary of the density measurements and the associated tonnage factors is shown in Table 14-10. Data from 38 vein samples with averaged 11.0 ft³/st and 71 samples of volcanic material averaged 11.7 ft³/st. A factor of 11.0 ft/st has been used for all veins.

Hole ID	From	То	Density (g/cm^3)	Tonnage Factor (ft ³ /st)	Visual % Sulfides	Au (oz/st)	Ag (oz/st)	Pb %	Cu %	Zn %	Average Tonnage Factor (ft ³ /st)	Material
YR-63	250	250.5	4.13	7.76	<3	0.004	0.04	0.037	0.002	0.08		WR/Waste
YR-63	255	255.5	2.54	12.60	<2	0.029	1.04	0.049	0.026	0.107		WR/Waste
YR-63	259	259.5	2.57	12.46	4	0.013	32.23	6.1	0.301	2.41		Vein
YR-63	263	263.5	2.59	12.35	<1	0.026	37.99	0.586	0.333	1.195	12.0	Vein
YR-63	269	269.5	2.89	11.07	4	0.021	14.83	0.838	0.095	2.45		Vein
YR-63	274	274.5	3.01	10.65	0	0.005	0.05	0.098	0.002	0.121		WR/Waste
YR-52	239	239.5	3.29	9.74	11	0.015	0.23	0.007	0.002	0.033		WR/Waste
YR-52	249	249.5	2.31	13.85	3	0.007	0.29	0.03	0.006	0.07		WR/Waste
YR-52	255	255.5	2.89	11.09	2	0.009	18.49	0.906	0.175	1.295	9.6	Vein
YR-52	258	258.5	3.97	8.07	85	0.015	4.51	12.1	0.076	12.25	9.0	Vein
YR-52	265	265.5	2.89	11.08	1	0.002	0.05	0.089	0.003	0.191		WR/Waste
YR-52	269	269.5	2.56	12.50	0	NA	NA	NA	NA	NA		WR/Waste
YR-75	280	280.5	2.75	11.65	<1	NA	NA	NA	NA	NA		WR/Waste
YR-75	288	288.5	3.14	10.19	0	0.127	4.20	0.072	0.100	0.112		Vein
YR-75	296	296.5	2.83	11.30	<2	0.031	0.44	0.341	0.006	0.488	10.7	WR/Waste
YR-75	298	298.5	2.98	10.73	5	0.004	45.50	1.630	0.697	3.580		Vein
YR-75	300	300.5	3.40	9.44	8	0.004	0.20	0.065	0.004	0.090		WR/Waste
YR-69	280	280.5	2.89	11.08	0	NA	NA	NA	NA	NA		WR/Waste
YR-69	284	284.5	3.15	10.16	2	0.004	0.00	0.004	0.002	0.016		WR/Waste
YR-69	287	287.5	2.58	12.43	2	0	14.90	0.655	0.149	2.55	12.4	Vein
YR-69	293	293.5	2.60	12.31	2	0.013	0.20	0.123	0.003	0.315		WR/Waste
YR-69	296	296.5	2.92	10.97	2	NA	NA	NA	NA	NA		WR/Waste
YR-71	389	389.5	2.99	10.71	4	0.017	0.41	1.04	0.006	1.535		WR/Waste
YR-71	391.5	392	4.17	7.68	82	0.008	2.74	16.6	0.013	3.59		Vein
YR-71	393	393.5	3.13	10.23	7	0.005	0	0.452	0.005	1.02	9.6	WR/Waste
YR-71	395	395.5	2.93	10.95	3	0.136	0.79	0.033	0.016	0.048		Vein
YR-71	404	404.5	2.77	11.56	0	NA	NA	NA	NA	NA		WR/Waste

Table 14-9: Summary of Density Sampling in Yellow Rose Drilling

Rock Type	Count	Min	Max	Avg	Factor
Rhyodacite	26	2.56	2.78	2.71	11.83
Altered Andesite	23	2.50	2.92	2.75	11.68
Andesite	9	2.73	2.77	2.75	11.65
Altered Rhyodacite	13	2.49	2.77	2.68	11.95
Quartz Vein	38	2.53	3.74	2.91	11.00
Subtotal	109	2.49	3.74	2.79	11.49

 Table 14-10: Summary of 2016 Density Measurements by Rock Type

14.5 Variogram Analysis and Modeling

SRK completed variography on both the Virginius and Yellow Rose datasets but was unable to produce meaningful and interpretable directional variograms. SRK comments that the deposit has short scale variability which could be a function of a highly variable (nuggetty) style deposit. SRK has therefore selected an Inverse Distance methodology as the preferred estimation method. The semi-variograms generated in 2013 on the Yellow Rose deposit have been used to help guide search ranges on the vein.

14.6 Block Model

Datamine Studio RM Version 1.2.47.0 (Datamine) has been used for all block modelling and grade estimation. A sub-celled block model was constructed in Datamine for both the Virginius, Footwall Vein, Terrible and Yellow Rose Veins. Rotated blocks have been used to represent the predominant strike of each of the main vein structures with the rotations matched to OSMI local mine grid for ease of integration and mine planning purposes. The alignment of the block edges with the orientation of the mineralization and sub-celling provides better representation of the horizontal thickness of the veins. Given the close relationships between the Virginius Vein and the Footwall Vein a single model combining both of these has been used.

The model limits and extents for the three models (four veins in total) are provided in Table 14-11.

Vein	Dimension Axis	Origin Coordinate	Block Size (ft)	Rotation (Z-Axis)	Number Blocks	Sub-Block (ft)
	Х	103140	Full Width		1	Full Width
Yellow Rose	Υ	95630	25	-50	175	1.0
	Z	10432	25		50	1.0
	Х	95962	Full Width		1	Full Width
Virginius	Υ	92500	50	-40	125	2.0
	Z	9681	50		70	2.0
	Х	95500	Full Width		1	Full Width
Terrible	Y	95250	50	-60	90	2.0
	Z	9681	50		70	2.0

Table 14-11: Summary of Block Model Origin

14.7 Estimation Methodology

14.7.1 Virginius Vein

SRK has conducted a number of different estimation scenarios for the Virginius Vein during 2017 with the aim of testing the sensitivity to changes in estimation parameters and to produce a more robust estimate of the mean grades within different regions of the vein. A large block size of 50 ft x 50 ft was selected for use as the parent cell for estimation to produce a more smoothed estimate, compared to more discrete small block estimates, which may be overly influenced by local channel sampling variations using an ID2 algorithm. The search parameters have been rotated to fit the general dip and interpreted plunge of the mineralization. The average dip has been selected as 50°, but is known to vary between 45° and 80° within various portions of the vein. To account for local variations SRK has used a large search range across the width of the veins to ensure all possible composites have been selected within the plane of the vein. The plunge of 15° has been based on a review of the long section and general trend noted within the historical long sections and sampling information available in Figure 14-6.

During the parameter sensitivity study, SRK tested the following scenarios:

25 ft x 25 ft x 25 ft Declustered Sampling

- ID2, Search Range 75 ft x 75 ft x 150 ft
- ID2, Search Range 75 ft x 75 ft x 100 ft
- ID2, Search Range 100 ft x 100 ft x 150 ft Rotated to 15 degree plunge
- ID3, Search Range 125 ft x 125 ft x 150 ft Rotated to 15 degree plunge

50 ft x 50 ft x 50 ft Declustered Sampling

- ID2, Search Range 75 ft x75 ft x 150 ft
- ID2, Search Range 75 ft x 75 ft x 100 ft
- ID2, Search Range 100 ft x 100 ft x 150 ft Rotated to 15 degree plunge
- ID3, Search Range 125 ft x 125 ft x 150 ft Rotated to 15 degree plunge

75 ft x 75 ft x 75 ft Declustered Sampling

- ID2, Search Range 75 ft x75 ft x 150 ft
- ID2, Search Range 75 ft x 75 ft x 100 ft
- ID2, Search Range 100 ft x 100 ft x 150 ft Rotated to 15 degree plunge
- ID3, Search Range 125 ft x 125 ft x 150 ft Rotated to 15 degree plunge



Figure 14-6: Long Section, Showing Estimation Parameter Ellipse and Stope Outlines Looking Southwest

To evaluate the differences between the different estimates SRK completed both visual assessment and a quantitative assessment. The visual inspection indicated the best correlations occurred within the 75 ft x 75 ft x 150 ft and 100 ft x100 ft x 150 ft scenarios. The quantitative assessment has been completed using defined polygons of potential mining areas supplied by OSMI. A common volume of 310,322 tons has been estimated in each scenario. The results indicate little variation between the various scenarios with the Ag (oz/st) grade ranging from 30.2 oz/st to 31.5 oz/st (Table 14-12), which is with a range of \pm 5%, suggesting limited impact to change in parameters. SRK elected to use the 75 ft x 75 ft x150 ft range search parameters in the final estimation process and are shown in Table 14-13.

In the footwall SRK does not consider the plunging features as well established and therefore has elected to use a tighter range (namely in the dip component 100 ft versus 150 ft). The final search also uses a minimum of 1 composite and maximum of four samples, with the vertical extent of the grade estimates limited manually to the revenue level.

In each case, the zoned sub-block centroids have been used to define the level of discretization with the results average back to a parent cell of 50 ft x 50 ft across the width of the vein. A nearest neighbor estimation was completed for comparison to the estimated grades for all key elements. A maximum of two samples per hole has been used in all estimates completed by SRK.

Volume (ft)	Min/Max Composites	Tons (st)	Au (oz/st)	Ag (oz/st)	Pb (%)	Zn (%)	Cu (%)	HTHK (ft)
75 x 75 x 150	3/10 all passes	310,322	0.08	31.5	6.1	2.9	0.31	1.67
100 x 100 x 150	3/10 all passes	310,322	0.08	30.9	6.0	2.9	0.31	1.67
125 x 125 x 150	3/10 all passes	310,322	0.07	30.2	5.9	2.9	0.30	1.67
75 x 75 x 100	3/10 (1/4 final pass)	310,322	0.08	30.5	6.0	2.9	0.30	1.67
75 x 75 x 100	3/10 (2/7 final pass)	310,322	0.07	30.6	6.0	2.9	0.30	1.67

Table 14-12: Summary of Sensitivity Analysis on Parameters for Estimation on Virginius Vein

	Pass	Search Distance (ft)			Minimum	Maximum	Maximum	Sample
Vein	Number	Down dip	Strike	Width	Composite	Composites	per DDH	Type(s) Used
	1	75	75	150	3	10	2	Channel
Virginius	2	150	150	300	3	10	2	(50 ft decluster)
	3	225	225	450	3	10	2	& DDH
	1	50	50	100	3	10	2	Channel
FW	2	150	150	200	3	10	2	(50 ft decluster)
	3	200	300	400	1	4	2	& DDH

Source: SRK, 2017

14.7.2 Terrible Vein

In the Terrible Vein the majority of the sampling is based on the drilling database with limited channel sampling to date. The resource was estimated in three passes using ID2. Each vein was estimated separately using the search distances, minimum and maximum composites and samples (composites) per drillhole listed in Table 14-14. SRK has used an isotropic search set to 125 ft to incorporate sampling from more than a single hole. A search range multiplier of 2 x range and 4 x range has been used to extend the estimates to a maximum distance of 500 ft from the current drilling and channel sampling, but the majority of the channel sampling is below the economic threshold on the Terrible Vein, at present.

Table 14-14: Summary of Final Estimation Parameters for Terrible Vein

Pass	Search	Distance	e (ft)	Minimum	Maximum	Maximum	Sample Type(s)
Number	Down dip	Strike	Width	Composites	Composites	per DDH	Used
1	125	125	125	3	10	2	Channel & DDH
2	250	250	250	3	10	2	Channel & DDH
3	500	500	500	1	4	2	Channel & DDH

Source: SRK, 2017

14.7.3 Yellow Rose

At Yellow Rose, the resource was estimated in three passes using ID2. Each vein was estimated separately using the search distances, minimum and maximum composites and samples (composites) per drillhole listed in Table 14-15. SRK has used an isotropic search for Yellow Rose and with the minor axis effectively controlled by the width of the vein. The search distance for the major and semi-major distance was based on a 2013 defined omni-directional variogram and drillhole spacing. The second pass is 150 ft x 150 ft, with a final pass of 375 ft x 375 ft used, and a reduction in the minimum and maximum number of composites used to 1 and 4 composites respectively. The short first range is to focus estimation around the underground channel sampling.

A nearest neighbor estimation was completed for comparison to the estimated grades for all key elements.

Pass	Search	Distance	e (ft)	Minimum	Maximum	Maximum	Sample Type(s)
Number	Down dip	Strike	Width	Composite	Composite	per DDH	Used
1	75	75	75	3	10	10	Channel & DDH
2	150	150	150	3	10	10	Channel & DDH
3	375	375	375	1	4	10	Channel & DDH

Table 14-15: Summary of Final Estimation Parameters for Yellow Rose Vein

Source: SRK, 2017

14.8 Model Validation

SRK has validated the block model using the following techniques:

- Visual inspection of block grades in comparison with drill hole data;
- Sectional validation of the mean samples grades in comparison to the mean model grades; and
- Comparison of ID2 block model statistics with nearest neighbor (NN) block estimates and composite sample grades.

14.8.1 Visual Comparison

Visual comparisons between the block grades and the underlying composite grades in plan and section show close agreement and indicates that the estimation was good. Long sections showing the comparison of the four veins estimated are shown in Figure 14-7.

Virginius Main Vein



Footwall Vein



Terrible Vein



Yellow Rose Vein

	· · · · · ·				1							
Legend		4			ψ				4	1		
OSM AG (oz/t)		8			8				8	3		
IABSENTI		946			926				220	2		
[ABSENT] [FLOOR,1]		Ŧ			÷.				-			
[1.10]												



Source: SRK, 2017

Figure 14-7: Long Sections Showing Ag (oz/st) Estimates Versus Composite Grades

14.8.2 Comparative Statistics

SRK conducted statistical comparisons between the ID2, NN block estimates contained within the vein solids for all veins with the underlying composite grades used for each block model (Table 14-16). The differences between the block estimates and the raw statistics are typically high which SRK attributes to the clustering of the data from the channel sampling. SRK has therefore defined declustered means for each of the veins and elements. The block model average grades reported both higher and lower than composite grades, with the majority of the instances being lower. SRK has reviewed where differences occur and typically where higher differences are noted it is due to the current sampling spatial distribution, with lower grades at the edge of the vein being included in the block averages.

To provide an alternative comparison SRK has relied upon the correlation between the ID2 and NN as an assessment of the global mean of the deposit. A comparison between the two different estimates shows a reasonably strong correlation. The difference between ID2 and NN for Ag (oz/st) range from 0% to 10.2% in absolute difference terms which is within acceptable levels. The largest differences are noted within the Terrible and Yellow Rose Veins where the ID2 reports 10.2% lower than the NN at Terrible, and 9.6% higher at Yellow Rose.

The variability between the ID2 and NN estimates within the Au (oz/st) estimates is less than noted in Ag (oz/st). The range in terms of absolute percentage across the four veins is 7.8%, with the best correlation noted within the Virginius Vein, and the poorest performance in the Terrible Vein. The Pb and Zn estimates also perform well across all veins with the exception of Pb (%) in the Terrible Vein which reported a mean grade of 3.08% versus 2.74%, in the NN and ID2, respectively.

The worst performing estimates in terms of percentage difference are the Cu (%) estimates with the difference in the two estimates ranging between 6.7% and 19.4% between the four veins. Typically, the ID2 estimates is lower than the NN estimate in most cases, but the higher differences are also a function of the relatively low grades, at which minor changes have larger influence. A review of the mean grades shows the means vary from 0.30% to 0.34% in the Virginius and Footwall Veins, compared to 0.04% to 0.07% in the Terrible and Yellow Rose.

Overall SRK is comfortable that the correlation between the NN and ID2 are of sufficient levels of error, for the current level of study. Infill drilling and sampling will be recommended to improve the correlations further, to provide higher levels of confidence (Measured), should additional development enable future sampling.

Daga	152
Page	153

Table 14-16: Summary of Comparison between Composite (declustered) vs. ID2 and NN Block Estimates per Vein

Vein	Unit	Statistic	Composite	Declustered Composite	ID2	NN	ID2 vs Declustered %Diff	NN vs Declustered %Diff	ID2 vs NN %Diff
		Mean	26.4	24.9	22.3	22.1	-10.5	-11.3	0.9
	Ag (oz/st)	Std Dev CV	44.9 1.7	42.8 1.7	25.2 1.1	33.5 1.5			
		Maximum	300	300	192	209.2			
		Mean	0.061	0.064	0.059	0.058	-8.229	-8.785	0.61
	Au (oz/st)	Std Dev	0.109	0.114	0.057	0.083			
	/ (02/01)	CV	1.772	1.78	0.961	1.417			
		Maximum	0.85	0.85	0.535	0.663	40.05	40.70	0.05
		Mean Std Dev	5.29 7.03	4.92 6.72	4.24 4.27	4.1 5.04	-13.95	-16.73	3.35
V1	Pb (%)	CV	1.33	1.37	1.01	1.23			
		Maximum	40	40	31.46	34.4			
		Mean	2.42	2.11	2.09	1.98	-0.85	-5.85	5.3
	Zn (%)	Std Dev	17.22	8.15	2.52	3.06			
	(/	CV	7.12	3.87	1.2	1.54			
		Maximum Mean	720 0.28	720	19.64	22.62 0.3	12.57	4.5	7.72
		Std Dev	0.28	0.29 0.49	0.33 0.51	0.3	12.57	4.5	1.12
	Cu (%)	CV	1.65	1.68	1.56	2			
		Maximum	2.75	2.75	2.75	2.75			
		Mean	47.27	24.547	21.076	21.115	-14.143	-13.984	-0.18
		Std Dev	72.751	48.104	32.444	37.693			
	Ag (oz/st)	CV	1.539	1.96	1.539	1.785			
		Maximum	325	325	275.099	325			
		Mean	0.046	0.042	0.032	0.03	-23.954	-28.344	6.13
	Au (oz/st)	Std Dev	0.086	0.076	0.032	0.037			
	· · · ·	CV	1.88	1.829	1.011	1.225			
		Maximum	0.6	0.6	0.348	0.557	-36.75	20.19	3.99
		Mean Std Dev	7.45 9.52	6.06 8.15	3.83 4.75	3.69 5.17	-30.75	-39.18	3.99
FW	Pb (%)	CV	1.28	1.34	1.24	1.4			
		Maximum	40	40	32.76	32.76			
		Mean	2.24	1.84	1.35	1.34	-26.74	-27.38	0.87
	$\mathbf{Z}_{\mathbf{n}}\left(0\right)$	Std Dev	2.53	2.19	1.17	1.48			
	Zn (%)	CV	1.13	1.19	0.87	1.1			
		Maximum	11.5	11.5	7.18	11.5			
		Mean	0.67	0.51	0.32	0.34	-37.34	-32.87	-6.67
	Cu (%)	Std Dev	0.94	0.8	0.44	0.57			
	()	CV	1.4	1.58	1.37	1.67			
		Maximum	3.5	3.5	3.44	3.5	-9.68	0.62	10.24
		Mean Std Dev	3.53 11.17	10.09 19.83	9.11 13.52	10.15 19.94	-9.00	0.62	-10.24
	Ag (oz/st)	CV	3.16	1.97	1.48	1.96			
		Maximum	109.5	109.5	82.56	109.5			
		Mean	0.07	0.06	0.07	0.08	13.28	22.9	-7.83
	Au (oz/st)	Std Dev	0.09	0.07	0.04	0.06			
	Au (02/51)	CV	1.39	1.18	0.58	0.77			
		Maximum	0.6	0.6	0.22	0.22			
		Mean	1.08	4.8	2.74	3.08	-43.04	-35.96	-11.04
\/ T		Std Dev	3.25	6.41	4.09	5.31			
VT	Pb (%)	Variance CV	10.55	41.15	16.69	28.23			
		Maximum	3.02 20	1.34 20	1.49 17.81	1.73 20			
	<u> </u>	Mean	0.19	0.77	0.57	0.57	-25.84	-25.35	-0.65
		Std Dev	0.19	0.95	0.69	0.75	20.04	20.00	0.00
	Zn (%)	CV	2.93	1.24	1.21	1.31			
		Maximum	3.41	3.41	3.01	3.41			
		Mean	0.02	0.07	0.04	0.06	-34.94	-19.26	-19.42
	Cu (%)	Std Dev	0.1	0.21	0.1	0.19			
	00 (70)	CV	6	2.97	2.25	3.38			
		Maximum	1.27	1.27	0.95	1.27	4.75	10.00	
		Mean	13.3	8.94	8.78	8.01	-1.75	-10.33	9.56
	Ag (oz/st)	Std Dev CV	22.41 1.68	16.35 1.83	10.42 1.19	11.5 1.43			
		Maximum	115	115	79.99	114.25			
		Mean	0.04	0.03	0.03	0.03	-17.66	-19.15	1.84
	A. 1 . 1 . 0	Std Dev	0.07	0.05	0.02	0.03			
	Au (oz/st)	CV	1.51	1.47	0.86	1.26			
		Maximum	0.35	0.35	0.21	0.27			
		Mean	2.79	1.84	1.43	1.49	-22.32	-18.6	-4.57
YR	Pb (%)	Std Dev	4.61	3.46	1.99	2.46			
		CV	1.65	1.89	1.39	1.65			
		Maximum	19.5	19.5	16.3	18.23		 	
		Mean Std Dov	1.75	1.37	1.22	1.28	-11.17	-6.5	-4.99
	Zn (%)	Std Dev CV	2.03 1.16	1.68 1.22	0.99	1.44			
		CV Maximum	1.16 10	1.22 10	0.81 7.15	1.13 10			
		Mean	0.11	0.11	0.07	0.06	-34.29	-41.74	12.79
		Std Dev	0.19	0.19	0.07	0.00	07.20	71.77	12.13
	Cu (%)	CV	1.73	1.75	1.15	1.48			
	1	Maximum	1	1	0.69	0.99			

14.8.3 Swath Plots

As part of the validation process, the input composite samples are compared to the block model grades within a series of coordinates (based on the principle directions). The results of which are then displayed on charts to check for visual discrepancies between grades.

Figure 14-8 show the results for the grades for all the key elements for the Yellow Rose and Virginius main domains of interest (kzone=1) based on section lines cut along strike.

The resultant plots show a reasonable correlation between the block model grades and the composite grades, with the block model showing a typically smoothed profile of the composite grades as expected. The composite grades appear to be more variable (saw-tooth) than the estimated blocks, which is as expected for a highly variable (nuggetty) style deposit. It is SRK's view that a more smoothed grade profile will be realistic of the typical mineralization. More detailed sampling would be required to provide more accurate local estimates.

Minor grade discrepancies exist on a local scale in less densely sampled areas. The biggest differences in Yellow Rose occur within denser areas of channel sampling, with the channel sampling typically reporting high. SRK plots show the swath plots for ID2 and NN search ranges. The ID2 and NN estimates show a strong correlation, while the composite grade mean is sensitive to changes in the declustering patterns used at Yellow Rose.

Overall, SRK is confident that the interpolated grades reflect the available input sample data and the estimate shows no sign of material bias, with the composite data typically showing more variability with higher skewed values.





14.9 Resource Classification

Block model quantities and grade estimates for the Project were classified in accordance with the 2014 CIM Definition Standards.

Mineral Resource classification is typically a subjective concept. Industry best practices suggest that resource classification should consider both the confidence in the geological continuity of the mineralized structures, the quality and quantity of exploration data supporting the estimates and the geostatistical confidence in the tonnage and grade estimates.

Appropriate classification criteria should aim at integrating both concepts to delineate regular areas at similar resource classification.

Data quality, drillhole spacing and the interpreted continuity of grades controlled by the mineralization domains have allowed SRK to classify portions of the deposits in the Indicated and Inferred Mineral Resource categories.

The Resources at the Project are classified as Measured, Indicated and Inferred for the Virginius, Footwall, Terrible and Yellow Rose vein systems. The classification is based on standards as defined by the *CIM Definition Standards - For Mineral Resources and Mineral Reserves, prepared by the CIM Standing Committee on Reserve Definitions and adopted by CIM Council on May 10, 2014.*

Classification of the resources reflects the relative confidence of the grade estimates. The classification parameters are defined by the search radius, number of composites and number of drillholes in the estimation. The classification criteria are intended to encompass zones of reasonably continuous mineralization.

Mineral Resource estimates do not account for mineability, selectivity, mining loss and dilution. These Mineral Resource estimates include Inferred mineral resources that are normally considered too speculative geologically to have economic considerations applied to them that would enable them to be categorized as Mineral Reserves.

14.9.1 Virginius/Footwall and Terrible Classification

Measured Mineral Resources at Virginius are those blocks having a minimum of three samples and three drillholes or channels, which are the majority of the estimates are within the first search passes (75 ft x 75 ft x 150 ft), along the Virginius Main Vein. This classification also takes into consideration that there has been underground development to expose the vein at depth and sampling of these workings over time. No Measured Mineral Resources have been defined for the Terrible Vein to date.

Indicated Mineral Resources at Virginius are those blocks having a minimum of three samples and three drillholes or channels, which are within an anisotropic search of approximately 150 ft x 150 ft x 300 ft ranges. SRK has run an initial pass for review (Figure 14-9) to establish these areas and then compared this to the potential mining areas, and given the mining method, produced broad stope shaped outlines where the majority of the polygon is supported with higher levels of confidence. This is to avoid isolated areas of Inferred which would prove problematic for mine planning purposes. When defining the edges of these limits some consideration of the NSR CoG have been considered.

Inferred Mineral Resources at Virginius are those blocks which are a maximum block-composite separation distance within an anisotropic search to the edge of the mineralization wireframe, which has been limited in Leapfrog to approximately 350 - 450 ft radius around the sampling on veins within the Virginius Vein.

A long section showing the classification for the Virginius Main Vein is shown in Figure 14-10, the Footwall Vein in Figure 14-11 and the Terrible Vein in Figure 14-12.



Figure 14-9: Search Pass Estimated for Blocks of Virginius Vein (Long Section) Looking Southwest



Source: SRK, 2017

Figure 14-10: Long Section (Looking Southwest) of Virginius Vein Showing Final Classification



Figure 14-11: Long Section (Looking Southwest) of Footwall Vein Showing Final Classification



Source: SRK, 2017

Figure 14-12: Long Section (Looking Southwest) of Terrible Vein showing Final Classification

14.9.2 Yellow Rose Classification

Measured Mineral Resources at Yellow Rose are those blocks having a minimum of three samples and three drillholes or channels, which are within an anisotropic search of 75 ft x 75 ft x 50 ft within the Yellow Rose Main vein, and have potential for economic extraction. This classification takes into consideration that there has been sampling in workings within the Yellow Rose Main Vein in addition to drilling.

Indicated Mineral Resources at Yellow Rose are those blocks having a minimum of three samples and three drillholes or channels, which are within an anisotropic search of approximately 125 ft x 125 ft x 50 ft within the Yellow Rose Main vein and have potential for economic extraction.

Inferred Mineral Resources at Yellow Rose are those blocks having a minimum of three samples and three drillholes, which are a maximum block-composite separation distance within an anisotropic search to the edge of the mineralization wireframe, which has been limited in Leapfrog to approximately a 250 ft radius around the sampling on the Yellow Rose Main Vein and in all other veins.



A long section showing the classification for the Yellow Rose Main Vein is shown in Figure 14-13.

Source: SRK, 2017

Figure 14-13: Long Section (Looking Northeast) of Yellow Rose Vein Classification

14.10 Mineral Resource Statement

The following section defines the updated Mineral Resource Statement for the Project. This statement includes the estimated Mineral Resources for the deposit with an effective date of March 1, 2017, which is the date the final validated database was received. This represents the latest Mineral Resource estimate for the Project.

As shown in Section 28, CIM Definition Standards for Mineral Resources and Mineral Reserves (May 2014) defines a Mineral Resource as:

"A Mineral Resource is a concentration or occurrence of solid material of economic interest in or on the Earth's crust in such form, grade or quality and quantity that there are reasonable prospects for eventual economic extraction. The location, quantity, grade or quality, continuity and other geological characteristics of a Mineral Resource are known, estimated or interpreted from specific geological evidence and knowledge, including sampling."

Portions of a deposit that do not have reasonable prospects for eventual economic extraction must not be included in a Mineral Resource.

The "reasonable prospects for economic extraction" requirement generally implies that the quantity and grade estimates meet certain economic thresholds with a reasonable prospect for mining. To achieve this SRK has reported the Mineral Resources are reported at an appropriate CoG taking into account extraction scenarios and processing recoveries. Based on this requirement, SRK considers that major portions of the Project are amenable for underground extraction with a processing method to recover Ag, Au, Pb and Zn products, with possible Cu.

All results from channel samples and drilling at the Project that are within the wireframes were used in the Mineral Resource estimate. SRK has chosen to report the Mineral Resource for OSMI based on a NSR basis. NSR is a commonly accepted method of evaluating polymetallic mineralized material. NSR is defined as the proceeds from the sale of mineral products after deducting off-site processing and distribution costs. NSR is typically expressed on a dollar per ton basis.

For this Project, the NSR calculation takes into account revenue for four elements (Zn, Pb, Ag and Au) and production of two concentrates (lead concentrate and zinc concentrate). The NSR calculation for the resource and reserve is the same and is discussed in more detail in Section 15.2.3 of this report.

For the purpose of the NSR calculation, it was assumed that the Pb concentrate is 62.5% Pb and the Zn concentrate is 55% Zn. Copper is also present in the concentrates, however is not payable at this time.

Plant recoveries for each concentrate are shown in Table 14-17 and price assumptions in Table 14-18.

Table 14-17: Process Plant Recoveries by Concentrate Used in NSR Calculations for Geology

Conc.		R	ecoveries	S	
Conc.	Ag (%)	Au (%)	Cu (%)	Pb (%)	Zn (%)
Pb	95.0	60.0	93.0	95.0	35.0
Zn	1.0	5.0	1.0	1.0	54.0

Source: SRK, 2016

Note that assumptions used for concentrate grade and plant process recoveries for CoG calculations may vary somewhat from final assumptions in the economic model, as typically CoG assumptions were made prior to the completion of the FS metallurgical program. These changes in the economic model assumptions are not considered material to the mine design process.

CoG price assumptions are listed in Table 14-18.

Table 14-18: NSR Calculation Commodity Price Assumptions

Commodity	Price	Units
Ag	\$18.55	US\$/oz
Au	\$1,270.00	US\$/oz
Cu ⁽¹⁾	\$2.55	US\$/lb
Pb	\$0.95	US\$/lb
Zn	\$1.15	US\$/lb

Source: SRK / OSMI

(1) Price is listed; however, at this time Cu is not payable in the concentrate.

SRK has accounted for the CoG during the classification of Measured and Indicated material, by working with OSMI staff on potential mining areas. Each area has then been evaluated to ensure that the defined areas remain above the NSR CoG, which is based on the NSR value. The Mineral Reserve NSR cut-off has been determined by SRK mining engineers and coded into the Mineral Resource

model. The details of the NSR calculation is discussed in more detail in Section 15.2.3, with a minor adjustment (16%) to reduce the cut-off for potential upside and using a cut-off of US\$200/st.

Once an area has been identified SRK analyzed the blocks based on the confidence criteria laid out in Section 14.9, and coding the model with the NSR value. The average thickness of the panel is considered in terms of limiting any potential mining areas.

In comparison for the Inferred Resources SRK does not consider there to be sufficient confidence in the estimates to define the edges of any potential stope areas. For the purpose of defining the potential for economic extractions, SRK assumed a NSR cut-off of US\$200/st, which is based on the proposed mining, process and G&A costs detailed in Table 15-5, and the prices and recoveries detailed in Table 14-17 and Table 14-18.

Table 14-19 shows the combined Mineral Resource for Yellow Rose and Virginius (Revenue) vein systems (inclusive of the Terrible Vein), with an effective date of March 1, 2017.

		Tons	Tonnago		G	rade				Con	tained M	etal	
Classification	Vein	(kst)	Tonnage Factor	Ag	Au	Pb	Cu	Zn	Ag	Au	Pb	Cu	Zn
		(KSI)	1 actor	(oz/st)	(oz/st)	(%)	(%)	(%)	(koz)	(koz)	(klb)	(klb)	(klb)
	Virginius Main	218.0	11.0	22.6	0.07	5.15	0.24	1.89	4,918	15	22,433	1,058	8,262
	Virginius FW	58.0	11.0	25.8	0.03	4.05	0.36	1.61	1,495	2	4,695	416	1,865
Measured	Terrible	-	-	-	-	-	-	-	-	-	-	-	-
	Yellow Rose	38.9	11.0	22.1	0.05	4.51	0.17	2.53	860	2	3,506	135	1,966
	Total Measured	314.9	11.0	23.1	0.06	4.86	0.26	1.92	7,273	19	30,634	1,609	12,093
	Virginius Main	311.0	11.0	24.2	0.06	4.38	0.26	2.56	7,516	19	27,262	1,587	15,921
	Virginius FW	103.0	11.0	12.6	0.03	2.67	0.21	1.20	1,298	3	5,501	431	2,472
Indicated	Terrible	49.0	11.0	17.6	0.06	7.44	0.14	1.46	861	3	7,287	137	1,435
	Yellow Rose	209.0	11.0	11.8	0.03	2.44	0.10	1.69	2,460	7	10,180	401	7,051
	Total Indicated	672.0	11.0	18.1	0.05	3.74	0.19	2.00	12,135	32	50,230	2,556	26,879
	Virginius Main	529.0	11.0	23.50	0.06	4.70	0.25	2.29	12,434	34	49,695	2,645	24,183
	Virginius FW	161.0	11.0	17.35	0.03	3.17	0.26	1.35	2,793	5	10,196	847	4,337
M + I	Terrible	49.0	11.0	17.57	0.06	7.44	0.14	1.46	861	3	7,287	137	1,435
	Yellow Rose	247.9	11.0	11.77	0.03	2.44	0.10	1.69	3,320	9	13,686	536	9,017
	Total M + I	986.9	11.0	19.7	0.05	4.10	0.21	1.97	19,408	51	80,864	4,165	38,972
	Virginius Main	170.0	11.0	30.7	0.07	5.96	0.42	3.07	5,220	12	20,268	1,444	10,440
	Virginius FW	1.0	11.0	19.0	0.00	2.20	0.20	0.95	19	0	44	4	19
Inferred	Terrible	52.0	11.0	28.8	0.12	7.04	0.11	1.31	1,499	6	7,323	115	1,359
	Yellow Rose	108.0	11.0	20.9	0.04	1.34	0.15	1.72	2,258	4	2,894	325	3,724
	Total Inferred	331.0	11.0	27.2	0.07	4.61	0.29	2.35	8,996	22,000	30,529	1,888	15,542

Table 14-19: OSMI Mineral Resource Estimate as of March 1, 2017 – SRK Consulting (U.S.), Inc.

• Mineral Resources are reported inclusive of the Mineral Reserves.

• Mineral Resources are not Mineral Reserves and do not have demonstrated economic viability. There is no certainty that all or any part of the Mineral Resources estimated will be converted into Mineral Reserves.

• Mineral Resource tonnage and contained metal have been rounded to reflect the accuracy of the estimate, and numbers may not add due to rounding.

• All Measured and Indicated estimates with the defined wireframes are considered to have potential for economic extraction as the entire level will be mined

• Inferred Mineral Resources are limited using a NSR cut-off US\$200/st.

• Metal price assumptions considered for the calculation of NSR are: Gold (US\$1,270/oz), Silver (US\$18.55/oz), Lead (US\$0.95/lb), Copper (US\$2.55/lb) and Zinc (US\$1.15/lb).

• Cut-off calculations assume average metallurgical recoveries equal to: Gold (65%), Silver (96%), Lead (96%), Copper (94%) and Zinc (89%).

• The resources were estimated by Benjamin Parsons, BSc, MSc Geology, MAusIMM (CP) #222568 of SRK, a Qualified Person
14.11 Mineral Resource Sensitivity

SRK highlights that most of the sensitivity during mining is likely related to internal variations in grades at a stope level. The current model which has been defined assumes that all material within an Indicated or Measured block represents an in situ Mineral Resource. Only changes in the boundaries due to changes in economics can be defined as true sensitivity.

To provide some indication of the potential variation within the Measured and Indicated defined areas for the main veins, SRK has produced a grade tonnage sensitivity tables which gives indicative estimates of the proportions of high and low grade mineralization within the category.

The results are shown in Table 14-20 through Table 14-23.

Cut-off

25

50

75

100 125

150 175

200

215

225 250

275

300

350

400 Inferred

> 25 50

75 100

125

150

175

200

215 225

250

275 300

350

95,300

0.09

46.02

(NSR)

M&I

	Tons	Au	Ag	Pb	Zn	Cu	NSR	Au	Ag	Pb	Zn	Cu
	(st)	(oz/st)	(oz/st)	(%)	(%)	(%)	(US\$/st)	(oz)	(oz)	(lb)	(lb)	(lb)
	E44 700	0.07	04.00	4.05	0.00	0.00	500.0	04.000	40,400,000	10 017 000	04407.000	0.040.000
	511,700	0.07	24.29	4.85	2.36	0.26	502.2	34,300	12,428,000	49,617,000	24,167,000	2,642,000
	501,900	0.07	24.73	4.93	2.40	0.26	511.2	34,100	12,414,000	49,504,000	24,117,000	2,634,000
	462,500	0.07	26.68	5.30	2.53	0.28	549.9	33,300	12,339,000	48,996,000	23,407,000	2,606,000
	449,400	0.07	27.37	5.41	2.59	0.29	563.3	32,900	12,299,000	48,650,000	23,282,000	2,588,000
	433,900	0.07	28.21	5.55	2.65	0.29	579.4	32,300	12,238,000	48,192,000	23,032,000	2,547,000
	416,000	0.08	29.19	5.72	2.72	0.30	598.4	31,700	12,142,000	47,550,000	22,589,000	2,514,000
	393,600	0.08	30.49	5.93	2.78	0.31	623.3	30,700	12,002,000	46,646,000	21,915,000	2,462,000
	370,700	0.08	31.93	6.15	2.88	0.32	650.2	29,500	11,837,000	45,619,000	21,342,000	2,395,000
	354,700	0.08	33.06	6.32	2.93	0.33	670.3	28,100	11,725,000	44,844,000	20,816,000	2,348,000
	345,700	0.08	33.69	6.41	2.97	0.34	681.9	27,600	11,649,000	44,313,000	20,526,000	2,325,000
	330,100	0.08	34.84	6.56	3.02	0.34	703.0	26,800	11,501,000	43,306,000	19,954,000	2,273,000
	310,100	0.08	36.37	6.74	3.06	0.36	731.4	25,900	11,278,000	41,824,000	19,003,000	2,205,000
	299,600	0.08	37.21	6.85	3.10	0.36	746.9	25,300	11,150,000	41,046,000	18,548,000	2,167,000
	263,200	0.09	40.48	7.27	3.08	0.39	805.5	23,100	10,655,000	38,267,000	16,190,000	2,036,000
	232,900	0.09	43.58	7.65	3.01	0.41	861.7	21,400	10,150,000	35,614,000	14,013,000	1,920,000
	357,200	0.05	16.97	3.34	2.17	0.56	355.5	17,400	6,061,000	23,871,000	15,537,000	3,997,000
	342,800	0.05	17.63	3.46	2.24	0.58	368.8	17,200	6,045,000	23,709,000	15,384,000	3,965,000
	301,000	0.05	19.76	3.83	2.41	0.64	411.2	16,500	5,948,000	23,046,000	14,515,000	3,853,000
	262,200	0.06	22.15	4.25	2.62	0.66	459.2	15,900	5,810,000	22,298,000	13,764,000	3,451,000
	241,700	0.06	23.65	4.52	2.72	0.66	488.7	15,400	5,716,000	21,859,000	13,140,000	3,198,000
	226,100	0.07	24.89	4.75	2.79	0.67	512.9	14,900	5,629,000	21,483,000	12,602,000	3,025,000
	203,800	0.07	26.91	5.13	2.91	0.63	551.3	13,800	5,486,000	20,903,000	11,865,000	2,573,000
	169,800	0.07	30.74	5.97	3.07	0.43	623.4	11,800	5,220,000	20,268,000	10,440,000	1,444,000
	150,700	0.07	33.64	6.45	3.25	0.34	676.3	10,600	5,070,000	19,442,000	9,794,000	1,023,000
	146,700	0.07	34.34	6.54	3.31	0.34	688.6	10,200	5,039,000	19,202,000	9,714,000	1,010,000
	133,300	0.07	36.84	6.87	3.33	0.37	734.2	9,700	4,910,000	18,304,000	8,887,000	980,000
	123,700	0.08	38.81	7.10	3.39	0.38	770.7	9,400	4,801,000	17,556,000	8,375,000	947,000
	116,300	0.08	40.36	7.41	3.52	0.40	801.4	9,100	4,693,000	17,237,000	8,187,000	924,000
	104,900	0.08	43.16	7.84	3.55	0.42	853.3	8,600	4,528,000	16,440,000	7,451,000	886,000
-												

Table 14-20: Grade Tonnage Sensitivity Virginius Vein, Split by M&I and Inferred

8.05

3.06

0.45

400 Source: SRK, 2017 900.9

8,200

4,385,000

15,333,000

5,841,000

859,000

Cut-off	Tons	Au	Ag	Pb	Zn	Cu	NSR	Au	Ag	Pb	Zn	Cu
(NSR)	(st)	(oz/st)	(oz/st)	(%)	(%)	(%)	(US\$/st)	(oz)	(oz)	(lb)	(lb)	(lb)
M&I	n	1				1	1	1	r	-	n	
25	150,200	0.03	18.57	3.37	1.43	0.28	361.7	4,400	2,790,000	10,138,000	4,311,000	842,000
50	137,300	0.03	20.19	3.63	1.53	0.30	392.0	4,200	2,771,000	9,961,000	4,192,000	825,000
75	120,900	0.03	22.59	4.01	1.63	0.33	436.7	4,000	2,732,000	9,700,000	3,935,000	804,000
100	99,300	0.04	26.88	4.63	1.63	0.39	512.9	3,500	2,669,000	9,204,000	3,247,000	766,000
125	87,400	0.04	29.92	5.02	1.77	0.42	567.6	3,200	2,614,000	8,765,000	3,088,000	733,000
150	81,200	0.04	31.76	5.25	1.85	0.44	600.7	3,100	2,577,000	8,517,000	3,002,000	715,000
175	68,800	0.04	36.17	5.79	2.03	0.49	679.0	2,700	2,489,000	7,965,000	2,799,000	673,000
200	65,600	0.04	37.54	5.95	2.09	0.51	703.0	2,600	2,463,000	7,810,000	2,746,000	664,000
215	63,500	0.04	38.50	6.06	2.14	0.52	719.8	2,500	2,443,000	7,686,000	2,713,000	657,000
225	62,100	0.04	39.13	6.13	2.16	0.52	730.8	2,500	2,429,000	7,612,000	2,684,000	648,000
250	59,500	0.04	40.32	6.28	2.21	0.53	752.2	2,400	2,400,000	7,477,000	2,629,000	633,000
275	55,700	0.04	42.22	6.51	2.28	0.56	785.9	2,300	2,351,000	7,246,000	2,544,000	619,000
300	52,700	0.04	43.83	6.64	2.35	0.57	813.9	2,200	2,312,000	6,999,000	2,475,000	605,000
350	48,100	0.04	46.58	6.87	2.36	0.60	860.7	2,000	2,240,000	6,610,000	2,268,000	582,000
400	43,500	0.04	49.52	7.18	2.37	0.64	911.4	1,900	2,157,000	6,257,000	2,063,000	555,000
Inferred												
25	16,000	0.03	4.69	1.40	0.52	0.10	114.5	480	75,000	447,000	166,000	32,000
50	13,500	0.03	5.35	1.54	0.57	0.11	128.5	440	72,000	416,000	155,000	29,000
75	8,900	0.04	6.81	1.89	0.72	0.13	161.6	350	61,000	336,000	127,000	22,000
100	7,800	0.04	7.36	2.01	0.77	0.13	172.5	310	57,000	313,000	120,000	21,000
125	5,300	0.05	8.65	2.15	0.84	0.09	201.3	260	46,000	226,000	89,000	10,000
150	4,800	0.04	9.28	2.33	0.91	0.10	207.5	190	45,000	224,000	87,000	9,000
175	1,300	0.05	15.97	1.92	0.80	0.19	320.2	70	21,000	50,000	21,000	5,000
200	1,000	0.05	17.83	2.10	0.92	0.21	352.1	60	19,000	44,000	19,000	4,000
215	1,000	0.05	17.93	2.11	0.93	0.21	353.5	60	19,000	44,000	19,000	4,000
225	1,000	0.05	17.93	2.11	0.93	0.21	353.5	60	19,000	44,000	19,000	4,000
250	900	0.06	18.71	2.24	1.00	0.22	369.7	50	17,000	40,000	18,000	4,000
275	700	0.06	20.73	2.48	1.17	0.25	405.2	40	14,000	34,000	16,000	3,000
300	700	0.06	20.82	2.50	1.19	0.25	407.4	40	14,000	33,000	16,000	3,000
350	500	0.07	22.46	2.52	1.05	0.27	440.0	30	11,000	24,000	10,000	3,000
400	300	0.08	23.97	2.82	1.20	0.29	475.2	20	7,000	18,000	7,000	2,000

Table 14-21: Grade Tonnage Sensitivity Footwall Vein, Split by M&I and Inferred

Cut-off	Tons	Au	Ag	Pb	Zn	Cu	NSR	Au	Ag	Pb	Zn	Cu
(NSR)	(st)	(oz/st)	(oz/st)	(%)	(%)	(%)	(US\$/st)	(oz)	(oz)	(lb)	(lb)	(lb)
M&I		-										
25	49,200	0.05	17.49	7.41	1.46	0.14	402.6	2,700	861,000	7,287,000	1,435,000	137,000
50	48,600	0.05	17.69	7.48	1.47	0.14	406.9	2,600	860,000	7,278,000	1,425,000	137,000
75	43,400	0.06	19.59	8.29	1.57	0.16	448.4	2,500	850,000	7,190,000	1,359,000	135,000
100	41,000	0.06	20.59	8.71	1.62	0.16	469.9	2,400	843,000	7,133,000	1,326,000	135,000
125	39,400	0.06	21.27	8.96	1.65	0.17	484.4	2,400	837,000	7,054,000	1,296,000	134,000
150	38,900	0.06	21.48	9.03	1.65	0.17	488.9	2,400	835,000	7,020,000	1,285,000	134,000
175	37,900	0.06	21.85	9.16	1.66	0.17	496.7	2,300	829,000	6,954,000	1,259,000	133,000
200	37,600	0.06	22.00	9.20	1.66	0.18	499.8	2,300	826,000	6,913,000	1,248,000	132,000
215	36,600	0.06	22.39	9.32	1.68	0.18	507.7	2,300	819,000	6,817,000	1,230,000	132,000
225	36,600	0.06	22.39	9.32	1.68	0.18	507.8	2,300	819,000	6,814,000	1,229,000	132,000
250	35,800	0.06	22.70	9.38	1.68	0.18	513.8	2,300	812,000	6,707,000	1,201,000	131,000
275	34,100	0.06	23.32	9.53	1.68	0.19	526.4	2,200	795,000	6,498,000	1,143,000	129,000
300	33,300	0.07	23.59	9.61	1.67	0.19	532.1	2,200	785,000	6,397,000	1,109,000	127,000
350	31,300	0.07	24.27	9.72	1.68	0.20	545.2	2,100	760,000	6,085,000	1,051,000	124,000
400	27,200	0.07	25.55	9.94	1.66	0.21	570.5	1,900	695,000	5,410,000	903,000	115,000
Inferred												
25	244,600	0.07	7.22	1.79	0.39	0.03	188.3	17,700	1,765,000	8,772,000	1,885,000	127,000
50	219,300	0.08	7.99	1.99	0.43	0.03	205.9	16,700	1,753,000	8,719,000	1,885,000	127,000
75	116,200	0.09	14.09	3.27	0.63	0.05	329.4	10,700	1,638,000	7,597,000	1,459,000	119,000
100	54,700	0.11	27.66	6.85	1.28	0.11	603.0	6,300	1,514,000	7,500,000	1,400,000	116,000
125	54,700	0.11	27.66	6.85	1.28	0.11	603.0	6,300	1,514,000	7,500,000	1,400,000	116,000
150	54,100	0.12	27.94	6.90	1.29	0.11	608.5	6,200	1,511,000	7,465,000	1,391,000	116,000
175	53,300	0.12	28.25	6.95	1.29	0.11	614.9	6,200	1,506,000	7,411,000	1,377,000	115,000
200	52,200	0.12	28.69	7.01	1.30	0.11	623.7	6,200	1,499,000	7,323,000	1,359,000	115,000
215	52,100	0.12	28.76	7.02	1.30	0.11	624.9	6,100	1,498,000	7,311,000	1,357,000	115,000
225	51,800	0.12	28.86	7.03	1.30	0.11	627.0	6,100	1,496,000	7,286,000	1,352,000	114,000
250	50,700	0.12	29.28	7.06	1.31	0.11	635.5	6,100	1,485,000	7,162,000	1,327,000	113,000
275	49,800	0.12	29.65	7.08	1.31	0.11	642.4	6,000	1,476,000	7,045,000	1,304,000	112,000
300	49,300	0.12	29.83	7.08	1.31	0.11	645.8	6,000	1,472,000	6,989,000	1,291,000	112,000
350	46,600	0.13	30.81	7.07	1.30	0.12	664.0	5,900	1,437,000	6,597,000	1,213,000	109,000
400	43,300	0.13	32.06	6.99	1.27	0.12	686.5	5,600	1,387,000	6,050,000	1,102,000	103,000

Table 14-22: Grade Tonnage Sensitivity Terrible Vein Split by M&I, and Inferred

Cut-off	Tons	Au	Ag	Pb	Zn	Cu	NSR	Au	Ag	Pb	Zn	Cu
(NSR)	(st)	(oz/st)	(oz/st)	(%)	(%)	(%)	(US\$/st)	(oz)	(oz)	(lb)	(lb)	(lb)
M&I												
25	244,000	0.04	13.60	2.80	1.85	0.11	285.4	9,100	3,318,000	13,681,000	9,008,000	536,000
50	241,500	0.04	13.72	2.83	1.86	0.11	288.0	9,100	3,314,000	13,668,000	8,991,000	535,000
75	223,400	0.04	14.67	3.03	1.98	0.12	306.1	8,400	3,278,000	13,547,000	8,836,000	528,000
100	207,300	0.04	15.56	3.19	2.05	0.13	323.1	8,000	3,225,000	13,246,000	8,505,000	519,000
125	184,100	0.04	16.94	3.43	2.13	0.14	349.8	7,500	3,118,000	12,642,000	7,850,000	499,000
150	168,600	0.04	17.96	3.60	2.21	0.14	369.3	7,100	3,029,000	12,134,000	7,451,000	483,000
175	154,000	0.04	18.99	3.75	2.28	0.15	388.8	6,800	2,924,000	11,537,000	7,008,000	465,000
200	136,700	0.05	20.31	3.95	2.37	0.16	414.4	6,300	2,775,000	10,790,000	6,465,000	442,000
215	124,100	0.05	21.44	4.04	2.41	0.17	435.4	6,000	2,661,000	10,038,000	5,977,000	422,000
225	121,000	0.05	21.74	4.08	2.42	0.17	440.9	5,900	2,630,000	9,878,000	5,859,000	416,000
250	106,600	0.05	23.22	4.23	2.49	0.18	468.4	5,500	2,474,000	9,011,000	5,313,000	388,000
275	96,100	0.05	24.44	4.39	2.53	0.19	490.8	5,100	2,348,000	8,433,000	4,864,000	367,000
300	87,000	0.05	25.58	4.53	2.58	0.20	512.1	4,700	2,225,000	7,881,000	4,495,000	347,000
350	71,100	0.06	27.81	4.81	2.71	0.21	553.5	4,100	1,976,000	6,839,000	3,848,000	304,000
400	47,500	0.06	32.45	5.85	3.15	0.23	643.6	2,900	1,541,000	5,559,000	2,995,000	214,000
Inferred												
25	459,700	0.02	6.92	0.81	0.97	0.05	143.2	11,100	3,183,000	7,423,000	8,929,000	499,000
50	306,500	0.03	9.78	1.01	1.16	0.07	196.1	9,100	2,997,000	6,195,000	7,094,000	449,000
75	216,700	0.04	12.87	1.20	1.38	0.10	253.0	7,600	2,788,000	5,216,000	5,978,000	416,000
100	179,700	0.04	14.79	1.30	1.49	0.11	287.1	6,700	2,657,000	4,677,000	5,353,000	395,000
125	151,500	0.04	16.71	1.35	1.58	0.12	319.8	5,800	2,531,000	4,099,000	4,778,000	376,000
150	129,800	0.04	18.59	1.37	1.64	0.14	350.5	5,000	2,412,000	3,554,000	4,269,000	354,000
175	116,800	0.04	19.90	1.36	1.70	0.14	371.4	4,400	2,325,000	3,188,000	3,977,000	337,000
200	108,300	0.04	20.84	1.34	1.72	0.15	385.8	4,000	2,258,000	2,894,000	3,724,000	325,000
215	101,900	0.04	21.56	1.35	1.76	0.15	397.1	3,700	2,198,000	2,759,000	3,580,000	315,000
225	98,900	0.04	21.91	1.37	1.78	0.16	402.5	3,500	2,167,000	2,711,000	3,528,000	311,000
250	88,200	0.03	23.20	1.43	1.88	0.17	422.6	2,900	2,045,000	2,525,000	3,321,000	293,000
275	78,200	0.03	24.58	1.48	1.97	0.17	442.9	2,300	1,923,000	2,309,000	3,088,000	272,000
300	72,300	0.03	25.35	1.53	2.02	0.18	455.7	2,000	1,833,000	2,207,000	2,921,000	260,000
350	64,600	0.03	26.27	1.58	2.08	0.19	471.4	1,800	1,696,000	2,036,000	2,679,000	240,000
400	55,700	0.03	27.20	1.63	2.14	0.19	486.8	1,500	1,515,000	1,821,000	2,379,000	206,000

Table 14-23: Grade Tonnage Sensitivity Yellow Rose Vein Split by M&I, and Inferred

14.12 Relevant Factors

SRK is not aware of any current environmental, permitting, legal, title, taxation marketing or other factors that could affect the Mineral Resource estimates.

SRK considers there to be potential to increase the current Mineral Resource via systematic exploration of known veins not currently estimated, which lie within the OSMI licenses. The following veins are controlled by OSMI, but have not been systematically explored at this time. These veins include but are not limited to the Wheel of Fortune Vein, the Atlas-Cumberland system, and extension of the Terrible Vein.

SRK cautions the reader that all these targets are potential upside and that the potential quantity and grade is conceptual in nature, and there has been insufficient exploration to define a mineral resource and that it is uncertain if further exploration will result in the target being delineated as a mineral resource.

Terrible Vein System

The Terrible Vein system is a major vein system, which is in close proximity to the Virginius Vein in the north portion of the current mine, upon which an initial Mineral Resource has been defined. The geological interpretation from underground and surface traces indicates these veins likely cross (or merge) to the north of the current mining development, but due to the close proximity may represent the best short-term additional exploration target. The reinterpretation work completed by OMSI of the intersections near surface, align with the orientation of historical mining areas, and the Terrible drift (situated off the revenue tunnel level). The current known strike length of the Terrible Vein is estimated at over 3,500 ft.

Drilling from the footwall of the current Virginius Vein North of the Revenue Tunnel area may provide the best short-term drilling locations, but given the dip and strike of the projected vein, the intersection angles will need to be reviewed.

Channel sampling has been completed on the Terrible Vein, both from the Terrible drift or from a test raise located along the drift. One interpretation is that the main mineralization is above the current mining level. Review of historical reports indicates that a test raise was established with limited sampling taking place on 3rd level, which at the time were stopped due to water issues, not due to low grades. There remains potential open ground between the historical workings at surface some 850 ft above the top of the raise and last sampling. A historical report dating back to 1928, suggests the known depth from surface is in the order of 2,150 ft.

Additional drilling will be required to prove up the potential of the Terrible Vein, and there is no guarantee that additional drilling will results in Mineral Resources or Mineral Reserves.

Cumberland Vein System

The Cumberland-Atlas Vein system is a major vein system that is sub-parallel to the Virginius and located about midway between the Virginius and the Revenue Portal, west of Yellow Rose Vein. The old Atlas crosscut tunnel, with a portal elevation of 11,225 ft, was the daylight point for production by old-timers on the Atlas claim. The Atlas tunnel provided production access prior to 1893. Mined material was transported downhill to the north by means of an aerial tram and treated at the Atlas mill. After 1893, when the Atlas Vein was exposed along the Revenue Tunnel, smaller scale exploration and mining were conducted on the northern extension of the Atlas Vein, along the Cumberland Vein.

Historical reports indicate that the original working on the Cumberland Vein were done between 1911 and 1919. Further workings occurred during the 1940's when sampling was completed on the 200 Level (above the Revenue Level). During the 1960's reports indicate that the exploration drift was extended out the 200lvl (above the Revenue Level), as well as a shaft to 200' ft, followed by minor drifting on 2 levels below the revenue level. No detailed survey and capture of this data is included in the current database, and further work to validate the location of these workings will be required.

Available historical sample maps and reports mention documented efforts to explore and work the vein system but a systematic report of the history of the Revenue Tunnel mining has not been found. The Cumberland Vein strikes N48-55°W, similar to the Virginius but in contrast with the Virginius Vein, dips steeply to the NE. A historical report dating back to 1928, suggests the known strike length is 4,200 ft, with a depth extension in the order of 1,400 ft.

Wheel of Fortune Vein System

The Wheel of Fortune Mine was located in 1877 and has been a very rich producer. Historic records for the Pueblo Smelter in 1882 show an average Wheel of Fortune ore grade at 7.96 oz/st Au, and 176.46 oz/st for Ag for an unspecified tonnage. The vein occupies a strong persistent fissure that follows an andesitic dike that strikes northeast and dips some 65 to 75° northwest. The vein is located in Silver Basin and runs almost parallel to the Revenue Tunnel. The vein then crosses Sneffels Creek and continues up the flank of Potosi Peak and joins the Bimetallist Vein.

The Wheel of Fortune Vein has a strike direction approximately perpendicular to the general northwesttrending veins of the Sneffels District. It is reported that the potential strike length is over 7,400 ft. Despite its long extent there has been little production from the vein.

In the Wheel of Fortune, most of the work was done in the 1880's, and the main ore shoot was comparatively shallow and followed down the contour of the mountain and on its rake would extend below Sneffels Creek. During the early days of the Wheel of Fortune mine, the high-grade ore was mined below the 11,000 level and was irregular.

Though the structure is strong and persistent, at the Revenue Tunnel Level it appears that this may be too deep to host economic material of significant width. The Wheel of Fortune structure may contain mineralized shoots at higher elevations along its strike length, and it represents an important target. A surface mapping and sampling program, following the surface trace of the vein, is warranted, to explore for anomalous segments, which could be subsequently drilled. The Wheel of Fortune Vein intersects Yellow Rose drift so exploration development access is relatively easy.

Historical reports by OMSI indicate the extents of drifting from the Yellow Rose Vein intersection with the Wheel of Fortune Vein both directions suffered poor ground conditions and cave ins not too far in, so remain under explored. OMSI have located reports of sampling from both underground at the Anglo Saxon cross cut and surface at random points along vein strike, but this is not stored in the current database and will require further validation.

Torpedo Vein System

The Torpedo Mine is located north of and just across the valley from the Revenue portal. The mine explores a consistent northwest trending quartz fluorite vein that dips at 60° to 80° to the SW. From the mine portal to the first major two-compartment raise is a distance of approximately 680 ft, which includes the initial 80 ft of crosscut to reach the vein near the portal. Except for a few points along the 600 ft of exposed vein, there has been no significant stoping of the vein. The drift is timbered at several

places for support. Locally, there is abundant clay in the wall rock and sticky clay seams are common within and marginal to the vein. Beyond the caved raise at 680 ft, the main drift continues for another 450 ft to a second caved raise where waist-deep water backed up. No stopes exist along the 450 ft of exposed vein between the two caved raises.

The Torpedo Vein consists dominantly of banded epithermal quartz but is unusual for its abundant green to white fluorite and low sulfide content. Base metal sulfides were not observed in the vein and pyrite makes up a small percentage (1% to 3%) of the vein material. The vein ranges from 1 to +10 ft wide, averaging approximately 3 to 4 ft in width, and contains about 10% to 20% late-phase fluorite. Vein walls are moderately clay altered pyrite-bearing San Juan Formation but locally the walls consist of aphanitic mafic dike material that is also pyritic and clay altered. These vein-parallel dikes are not obvious on the surface but are persistent underground.

A limited number of samples collected across the Torpedo Vein during an assessment of the underground workings, one returned a result of 0.455 oz/st Au over a width of 4.4 ft. SRK has not reviewed or confirmed these results. This was the back-most sample taken in the main drift, across a short crosscut exposing the main vein. For the length of the vein exposed in the accessible underground workings, the vein is dominantly quartz and fluorite with some carbonate. Sulfide minerals are virtually absent. The Torpedo Vein is currently an exploration target for the Company.

15 Mineral Reserve Estimate

15.1 Introduction

The Mineral Reserves are reported from three of the many known veins within the Project - the Virginius, Terrible and Yellow Rose Veins. All are quartz veins containing silver, gold, copper, lead and zinc minerals hosted primarily in the San Juan volcanic rocks. Veins range from several inches up to several feet, and have been mined and drilled over a vertical extent of over 3,000 ft. The veins typically have dips around 70° but vary locally from approximately 50° to 85°.

The property has been historically mined since the late 1800's. A new 300 st/d underground mill was constructed around 2013 and commissioned in 2014, though commercial production has not yet occurred. Figure 15-1 shows the general site layout and location of the Mineral Reserve areas (Virginius, Yellow Rose, and Terrible areas).



Source: SRK

Figure 15-1: OSMI Site Layout and Vein Location

15.2 Conversion Assumptions, Parameters and Methods

Measured and Indicated Mineral Resources were converted to Proven and Probable Mineral Reserves by applying the appropriate modifying factors, as described herein, to potential mining block shapes created during the mine design process.

Based on the orientation and width of the mineralization, review of historic mining and available geotechnical information, a resue mining method is appropriate where waste rock serves as backfill as the stope is advanced in an overhand manner. This method is highly selective and allows for mining narrow widths. A minimum mining width of 6 inches is used. The design assumes mining of large

panels where raises/infrastructure is used for the entire panel length. There may be places along the panel which fall below CoG, however these must be mined due to the mining method and infrastructure. These lower grade areas are included in the reserve.

All mineral reserve tonnages are expressed as "dry" short tons (i.e., no moisture) and are based on the density values stored in the block model. Inferred material is not included in the mine plan. Mining dilution has been applied using the methodology described in Section 15.2.2 with a grade of zero.

A 3D mine design has been created representing the reserve areas. Dilution is included in the reserve and a 100% mining recovery of the planned mining areas is assumed as discussed in the following sections.

15.2.1 Mining Recovery

Sill pillars have been included in the mine design and are assumed to be left in-situ. 100% extraction of the planned mining panels is assumed. To achieve this, OSMI has committed - due to the high-grade nature of the ore - to use muck sheets, a material placed on top of the waste rock to segregate the ore from waste such as used conveyor belt, and a very selective mining method to maximize the recovery of the narrow vein ore. The miners will use handheld hoes and shovels to maximize recovery.

15.2.2 Dilution

Stope dilution estimates are based on the results of mining during a test stope executed by OSMI in April 2016, as explained in the following section. From the results of the April 2016 test stope, a best fit line was created to express the stope dilution based on vein width. The equation is as follows:

Dilution = -0.127 * In(vein width) + 0.1997

This formula results in a dilution range of 5.9% to 26.8% for the mining resue stope panels. Dilution is applied at a zero grade for all metals.

Resue Test Stope – April 2016

OSMI developed a resue test stope in the Virginius North area above the 2000 level in April 2016. The stope was named the 561 stope. The test stope was intended to prove out assumptions on resue mining and provide support for productivity assumptions, dilution, and general ability to minimize the dilution and maintain the narrow mining width.

Figure 15-2 shows the April 2016 test stope design as planned by OSMI. Figure 15-3 shows the actual location of the test stope above the 2000 level near ventilation raise to surface.



Source: OSMI 2016

Figure 15-2: Resue Mining Test Stope Layout



Source: SRK, 2017

Figure 15-3: Stope Location

The 561 Test Stope began April 13, 2016, and was conducted using a single crew of two miners. An access raise and manway was excavated as well as an ore pass with a manually operated chute. Utilities and a slusher, a mechanical bucket pulled with an electrical or air powered winch, were installed. The development of the stope took approximately six days with one crew working on day shift only. The scram, a narrow access drift along the bottom of the vein, was started on April 19, 2016 and driven a total of 86 ft. The scram was planned to be 4 ft wide and final survey indicated the average width was 3.5 ft.

After the scram was completed, several resue rounds in mineralized material were taken starting at the back end of the stope moving back toward the manway. The vein material ranged in width from approximately 12 to 18 inches. The resue ore shots maintained an average planned width in the top 2 to 2.5 ft of the 4.5 ft holes with an over-break in the bottom 2 ft of the hole of approximately 2 ft. Figure 15-4 shows a photograph of typical resue slot.



Source: OSMI 2016

Figure 15-4: Resue Test Stope Photo

Table 15-1 summarizes the stations, vein widths and actual dilution for the April 2016 Test Stope.

Station	Vein Width (ft)	Ore Cut (ft ³)	Waste Cut (ft ³)	Dilution (%)
95	1.25	7.04	1.6	18.5%
100	1.08	6.11	0.42	6.4%
105	1.3	7.31	1.78	19.6%
110	1	5.66	1.86	24.7%
115	1	5.66	1.76	23.7%
120	1.5	11.58	1.97	14.5%

Source: OSMI 2016

A best fit line was created from this data and the equation specified at the beginning of Section 15.2.2 was used to estimate dilution for future stopes.

An additional test stope was executed in May 2017 as described in Section 16.3.3, and indicating this dilution equation reasonably represents the stope dilution.

15.2.3 Net Smelter Return

NSR is a commonly accepted method of evaluating polymetallic mineralized material. NSR is defined as the proceeds from the sale of mineral products after deducting off-site processing and distribution costs. NSR is typically expressed on a dollar per ton basis. For this Project, the NSR calculation takes into account revenue for four elements (Zn, Pb, Ag and Au) and production of two concentrates (lead concentrate and zinc concentrate). For the purpose of NSR calculation, it was assumed that the Pb concentrate is 62.5% Pb and the Zn concentrate is 55% Zn. Copper is also present in the concentrates, however is not payable at this time.

Plant recoveries for each concentrate are shown in Table 15-2.

Conc.		R	ecoverie	s -	
Conc.	Ag (%)	Au (%)	Cu (%)	Pb (%)	Zn (%)
Pb	95.0	60.0	93.0	95.0	35.0
Zn	1.0	5.0	1.0	1.0	54.0

Table 15-2: Process Plant Recoveries by Concentrate

Source: SRK, 2016

Mineral payability, treatment/refining charges and freight were provided by OSMI and are summarized as follows:

Pb Concentrate

- Pb is 95% payable, subject to a three-unit minimum deduction;
- Ag is 96% payable, subject to a minimum deduction of 1.46 oz/st (50 g/mt) and a US\$1 refining charge per payable ounce;
- Au is 95% payable, subject to a minimum deduction of 0.03 oz/st (1 g/mt) and a US\$8 refining charge per payable ounce;
- Treatment charges of US\$181.44/st (US\$200/mt);
- Freight charge of US\$181.44/wet short ton (wst) (US\$200/wmt) assuming shipping product at a 10% moisture content;
- Weighing, Sampling, Moisture Determination Agent (W/S/A)/Insurance/Agent of US\$27.22/st (US\$30/mt);
- Antimony (Sb) penalty of US\$2.27/st (US\$2.50/mt) per each 0.10% increment over 0.3%. Sb content is not modeled, assume a constant 1.56%; and
- Copper and zinc are not payable in the Pb concentrate.

Zn Concentrate

- Zn is 85% payable, with a minimum eight unit deduction;
- Treatment charges of US\$158.76/st (US\$175/mt);
- Freight charge of US\$158.76/wst (US\$175/wmt) assuming shipping product at a 10% moisture content;
- W/S/A/Insurance/Agent of US\$27.22/st (US\$30/mt); and

• Ag, Au, Cu, and Pb are not payable in the Zn concentrate.

Note that concentrate grade, recovery and market terms (e.g. payability) assumption used for CoG calculations may vary somewhat from final assumptions in the economic model, as these CoG assumptions were made prior to the results of the metallurgical and concentrate marketing studies. These changes in the economic model assumptions are not considered material to the mine design process.

Price assumptions used for the NSR calculation are shown in Table 15-3.

Commodity	Price	Units	
Ag	\$18.55	US\$/oz	
Au	\$1,270.00	US\$/oz	
Pb	\$0.95	US\$/lb	
Zn	\$1.15	US\$/lb	
		000/10	

Source: SRK / OSMI, 2017

The basis for the mine design work is the resource block model for both the Virginius and Yellow Rose areas as described in Section 14.

Table 15-4 shows an example NSR calculation for a single block.

Input Block (from block model) (st) (oz/st) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%) (%)	(oz/st) (%) (%) 0.06 0.20 5.00 2.00 (oz) (st) (st) (st) 0 0 0 0 0 JS\$/oz) (US\$/lb) (US\$/lb) (US\$/lb) \$1,270 \$2.55 \$0.95 \$1.15
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Gold	
Subject to Minimum Deduction:	0.07
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Moisture Content Total Tons of Conc. to Ship 10% (wst) 10% (wst) 4 4 4 6 0.1 200 Freight (\$200/wmt) apply to wet tons (US\$) \$(201.60) \$(30.64) 6 0.1 30 W/S/A/Insurance/Agent - \$30/mt (US\$) \$(27.22) \$(4.14) 6 6 6 Total Revenue Pb concentrate (US\$) \$8,043.22 \$1,222.57 6 6 6 Zn Conc. Contained Metal in Zn Conc. (oz/st for Ag & Au) 10% 5.0% 1.0% 1.0% 1.0% 1.0% 1.0% 55.0% Zn Conc. Generated (oz/st for Ag & Au) 1 0 0 0	0.00 0.07 Yes 0.07 90.08 (\$1) (\$1) (\$1) 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.00 0.00 0.00 0.02 0.00 0.00 0.00 0.00 0.00 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02
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Moisture Content Total Tons of Conc. to Ship10% (wst)10% (wst)Image: Content Total Tons of Conc. to Ship10% (wst)10% (wst)Image: Content Total Tons of Conc. to Ship0.1200Freight (\$200/wmt) apply to wet tons W/S/A/Insurance/Agent - \$30/mt(US\$)\$(201.60)\$(30.64)Image: Content Total Total Revenue Pb concentrate0.1201Total Revenue Pb concentrate(US\$)\$(201.60)\$(30.64)Image: Content Total Revenue Pb concentrate1mage: Content Total Revenue Pb concentr	0.00 0.07 Yes
Moisture Content Total Tons of Conc. to Ship10% (wst)Image: content of the second seco	0.00 0.07 Yes 0.07 90.08 (\$1) (\$1) (\$1) 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.02 0.02 0.04 0.02 0.04 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02
Moisture Content Total Tons of Conc. to Ship 10% (wst) 4 4 6 6 200 Freight (\$200/wmt) apply to wet tons 30 (US\$) \$(201.60) \$(30.64) 0.1 30 W/S/A/Insurance/Agent - \$30/mt (US\$) \$(27.22) \$(4.14) - - Total Revenue Pb concentrate (US\$) \$8,043.22 \$1,222.57 - - Zn Conc. - - - - - - - Contained Metal in Zn Conc. Grade of Zn Conc. (oz/st for Ag & Au) - 1 0 0 - 55.0% Zn Conc. Generated Payability Zinc (oz/st for Ag & Au) st - 1 0 0 - 85% Payable Metal Based on Payability Subject to Minimum Deduction: st - - - - - - - - - - - - - - - - - - - - - - - - - -	0.00 0.07 Yes 0.07 90.08 (\$1) (\$1) 0.17 (\$1) 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.02 0.02 0.04 0.02 0.04 0.02 0.02 0.04 0.02 0.02 0.04 0.02 0.02 0.04 0.02 0.02 0.04 0.02 0.02 0.04 0.02 0.02 0.02 0.02 0.04 0.02 0.02 0.02 0.04 0.02 0.02 0.02 0.02 0.02 0.04 0.02 0.02 0.04 0.02 0.02 0.02 0.02 0.04 0.02 0.02 0.04 0.02 0.02 0.04 0.02 0.04 0.02 0.02 0.02 0.04 0.02 0.02 0.02 0.04 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.04 0.02 0.02 0.02 0.04 0.02 0.02 0.02 0.04 0.02 0.02 0.02 0.04 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02
Moisture Content Total Tons of Conc. to Ship10% (wst)00200Freight (\$200/wmt) apply to wet tons W/S/A/Insurance/Agent - \$30/mt(US\$)\$(201.60)\$(30.64)0.130W/S/A/Insurance/Agent - \$30/mt(US\$)\$(27.22)\$(4.14)Total Revenue Pb concentrate(US\$)\$8,043.22\$1,222.57Zn Conc.Encore:1.0%5.0%1.0%1.0%1.0%Contained Metal in Zn Conc. Grade of Zn Conc. Generated(oz/st for Ag & Au)160.20.1%2.555.0%Zn Conc. Generatedst-100-StincZincst0.0%0.1%85%Payable Metal Based on Payability Subject to Minimum Deduction:st0.1%8.00Minimum Deduction Units Payable Conc. Grade After Deduction Payable Metal based on Minimum Deductionst8.00Minimum Deductionst9ayable Metal based on Minimum Deductionst9ayable	0.00 0.07
Moisture Content Total Tons of Conc. to Ship10% ((wst)10% ((wst)10% ((wst))10% ((uS\$)10% ((US\$)10% ((US\$)10% ((US\$)10% (US\$)10% (US\$)0.1200Freight (\$200/wmt) apply to wet tons (W/S/A/Insurance/Agent - \$30/mt(US\$)\$(201.60)\$(30.64)0.130W/S/A/Insurance/Agent - \$30/mt(US\$)\$(27.22)\$(4.14)00Total Revenue Pb concentrateConcentrateConconcentrate(US\$)\$8,043.22\$1,222.570Zn Conc.Contained Metal in Zn Conc. Grade of Zn Conc.1.0%5.0%1.0%1.0Contained Metal in Zn Conc. Grade of Zn Conc.(oz/st for Ag & Au) stUS\$/St Conc.Total(oz)(oz)(st)(st)55.0%Zn Conc. Generated Payable Metal Based on Payability Subject to Minimum Deduction: Bayable Conc. Grade After Deduction Payable Conc. Grade After Deduction Payable Conc.stIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII </td <td>0.00 0.07 Yes 0.07 90.08 (\$1) (\$1) 0.17 5.0% 1.0% 1.0% 0.17 5.0% 1.0% 1.0% 54.0% Not Payable (st) 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	0.00 0.07 Yes 0.07 90.08 (\$1) (\$1) 0.17 5.0% 1.0% 1.0% 0.17 5.0% 1.0% 1.0% 54.0% Not Payable (st) 0 0 0 0 0 0 0 0 0 0 0 0 0
Moisture Content Total Tons of Conc. to Ship 10% (wst) Image: Content (wst)	0.00 0.07 Yes
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Moisture Content Total Tons of Conc. to Ship (wst) (US\$)10% (Wst) (US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US\$)(US	0.00 0.07 Yes 0.07 90.08 (\$1) (\$1) 0.17 5.0% 1.0% 1.0% 0.17 5.0% 1.0% 1.0% 54.0% Not Payable (st) 0 0 0 0 0 0 0 0 0 0 0 0 0
Moisture Content Total Tons of Conc. to Ship10% (wst)10% (wst)10% (S(201.60)10% (S(30.64)0.130W/S/A/Insurance/Agent - \$30/mt(US\$)\$(201.60)\$(30.64)	0.00 0.07 Yes 0.07 90.08 (\$1) (\$1) 0.17 5.0% 1.0% 1.0% 1.0% 5.0% 1.0% 1.0% 54.0% Not Payable (st) (st) (st) (st) (st) 0.17 5.0% 0.17 (st) 0.17 (st) 0.17 0.17 0.17 0.17 0.17 0.17 0.02 0.02 0.04 0.02 0.04 0.02 0.02 0.04 0.02 0.02 0.04 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02
Moisture Content Total Tons of Conc. to Ship (WS) Moisture Content Total Tons of Conc. to Ship (WS) Moisture Content (WS) Moisture Content (USS) S(201.60) (S(27.22) S(4.14) Moisture Content (WS) Moisture Contenton (WS) Moisture Content (WS)	0.00 0.07 Yes 0.07 90.08 (\$1) (\$1) 0.17 5.0% 1.0% 1.0% 0.17 5.0% 1.0% 1.0% 54.0% Not Payable (st) 0 0 0 0 0 0 0 0 0 0 0 0 0
Moisture Content Total Tons of Conc. to Ship 10% (wst) 10% (wst) 10% (wst) 10% (wst) 10% (wst) 10% (store) 10% (wst) 10% (store) 1	0.00 0.07 Yes
Moisture Content Total Tons of Conc. to Ship OW/S/A/Insurance/Agent - \$30/mt 10% (WSS) \$(201.60) \$(30.64) 0.1 200 Freight (\$200/wmt) apply to wet tons (USS) (USS) \$(201.60) \$(30.64) - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - <td< td=""><td>0.00 0.07 </td></td<>	0.00 0.07
Moisture Content Total Tons of Conc. to Ship 10% (wst) 0 0.1 200 Freight (\$200/wnt) apply to wet tons (US\$) (US\$) \$(201.60) \$(27.22) \$(30.64) \$(4.14) 0.1 Total Revenue Pb concentrate (US\$) \$(27.22) \$(4.14)	0.00 0.07
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15.2.4 Cut-off Evaluation

NSR was calculated for each block in the resource model. Average grade of the mine design panels are above the cut-off of US\$240.51 as shown in Table 15-5. Note that the operating cost does not include pre-production development to the stope, however does include all development once in production including development within a stope (finger raises, manways, etc.)

Table 15-5: Estimated Total Operating Cost

Operating Cost Category	US\$/st Processed
Mine Operating Costs	95.22
Plant Operating Costs	40.69
G&A	94.28
Surface Operating Costs	10.31
Total Operating Costs	\$240.51

Source: SRK / OSMI

15.3 Reserve Estimate

Mineral reserves were classified using the 2014 CIM Definition Standards. The mineral reserve statement for OSMI is presented in Table 15-6. The mineral reserve estimate is effective as of June 15, 2018, which is the date when final quotes were received and economic model was compiled.

Area	Description	Tons (kst)	Ag (oz/st)	Au (oz/st)	Pb (%)	Zn (%)	Contained Ag (koz)	Contained Au (koz)	Contained Pb (klb)	Contained Zn (klb)	NSR (US\$/st)
	Proven	203.5	24.47	0.06	5.09	1.75	4,980	12.6	20,720	7,124	500
Virginius	Probable	206.6	30.35	0.06	5.11	2.80	6,270	13.1	21,133	11,571	602
	P+P	410.1	27.43	0.06	5.10	2.28	11,251	25.7	41,853	18,694	551
	Proven	0	0	0	0	0	-	-	-	-	0
Terrible	Probable	44.9	17.95	0.05	7.40	1.37	806	2.2	6,642	1,229	406
	P+P	44.9	17.95	0.05	7.40	1.37	806	2.2	6,642	1,229	406
	Proven	40.9	20.19	0.05	4.20	2.31	825	2.1	3,433	1,887	419
Yellow Rose	Probable	79.2	16.68	0.04	3.29	1.83	1,321	2.8	5,209	2,896	338
	P+P	120.0	17.87	0.04	3.60	1.99	2,145	4.9	8,642	4,784	366
	Proven	244.4	23.75	0.06	4.94	1.84	5,805	14.7	24,153	9,011	486
All Areas Total	Probable	330.7	25.39	0.05	4.99	2.37	8,397	18.1	32,985	15,696	512
	P+P	575.1	24.70	0.06	4.97	2.15	14,202	32.8	57,138	24,707	501

Table 15-6: OSMI Mineral Reserves Estimate as of June 15, 2018 – SRK Consulting (U.S.), Inc.

• All figures are rounded to reflect the relative accuracy of the estimates. Totals may not sum due to rounding. NSR listed here may be somewhat different than values calculated in the final economic model due to updated information at time of economic modeling.

Mineral reserves are reported using an NSR CoG based on metal price assumptions*, metallurgical recovery assumptions**, mining costs, processing costs, general and administrative (G&A) costs, and treatment and refining charges. Mining costs, processing costs, and G&A costs total US\$240.51/st.
 * Metal price assumptions considered for the calculation of NSR are: Gold (US\$1,270/oz), Silver (US\$18.55/oz), Lead (US\$0.95/lb), Copper (US\$2.55/lb) and Zinc (US\$1.15/lb).

**Metallurgical recoveries for payable items in the Pb concentrate are: Gold (60%), Silver (95%), and Lead (95%). Metallurgical recoveries for payable items in the Zn concentrate are: Zinc (54%).

• Mineral reserves have been stated on the basis of a mine design, mine plan, and cash-flow model. Full mining recovery of designed areas is assumed. Mining dilution is applied at zero grade and ranges from 5.9%-26.8%. A minimum mining width of 6 inches is used.

• The Mineral reserves were estimated by OSMI. Joanna Poeck, (BS Mining, MMSA, SME-RM) a Qualified Person, reviewed and audited the reserve estimates.

15.3.1 Relevant Factors

SRK knows of no existing environmental, permitting, legal, socio-economic, marketing, political, or other factors that might materially affect the mineral reserve estimate.

16 Mining Methods

16.1 Mining Methods

16.1.1 Mineralized Areas

The resource models were constructed in such as way so as to model just the high grade vein structures without including mineralized material outside of the structures. In the Revenue area, the main vein and footwall veins have been modeled. The Terrible and Yellow Rose areas each have a single modeled vein. In the mining areas, the veins typically have dips around 70° but vary locally from approximately 50° to 85°.

The Virginius area has been mined historically as shown in Figure 16-1. The 2000 level is accessed from the portal. Lower levels were historically accessed by a shaft/winze located at the 0 north/south point as indicated on Figure 16-1. Previous operators partially constructed two declines in 2014 to 2015 (Virginius South decline and Terrible decline) in an attempt to reach the 2210 level from the 2000 level; however, neither was completed. The main areas targeted for potential underground mining based on current drilling and geology are shown on Figure 16-1. In the mining areas, the Virginius Vein widths typically range from 0.5 to 2.5 ft.



Source: SRK, 2017

Figure 16-1: Long Section of the Virginius Area (Looking Southwest) with Historically Mined Areas, Showing Current Northing and Level Nomenclature

The Terrible area is located to the north of the Virginius area and has a bearing approximately 20° more westward than the Virginius area. Current identified mineralization is above the 2000 level. In the mining areas the Terrible Vein widths typically range from 0.5 to 1.5 ft.

The Yellow Rose area has been somewhat developed historically from the Revenue Virginius Tunnel. Though this vein had been mined historically with significant production at the Yellow Rose Mine, over 10,000 ft away along strike from current workings, records indicate that no significant production had occurred from the Revenue tunnel. The level nomenclature used in the Yellow Rose area is similar to that used for Revenue. The 0 north/south point is located where the Yellow Rose vein meets the main

development coming from the portal. All identified mineralized areas are above the 2000 level. In the mining areas, the Yellow Rose Vein widths typically range from 1.0 to 5.0 ft.

16.1.2 Resue Mining

Based on the orientation and width of the mineralization, review of historic mining, and available geotechnical information, a resue mining method is appropriate where waste rock serves as backfill as the stope is advanced in an overhand manner. This method is highly selective and allows for mining narrow widths down to 0.5 ft. There is a significant amount of high grade Ag ore carried in narrow vein structures.

More specifically, the resue mining method is explained as follows:

A stope block is identified having minimum approximate dimensions of approximately 500 to 1,000 ft along strike and up to 300 ft in height. Stope block widths vary according to the mineralization. Typically, an off-ore access drift is developed on the footwall along the length of the stope. Two-compartment raises known as cribbed manways, are developed on each end of the stope from the level below providing access to any level of the stope. In the center of the stope a three compartment service raise with a manway, ore pass, and equipment slide is constructed as the primary access. Each raise will have utilities run up into the stope so that miners can pull water or air from either side of the stope or from the middle service raise.

The bottom portion of the stope, approximately 25 ft in height, is left in a pillar (sill pillar), which is partially recoverable from the stope below. A 3.5 ft wide scram drift is developed along the length of the stope above the pillar. Finger raises with ore chutes at the access level connect the scram drift to the development access below and are used to remove ore material from the stopes. Once the scram and finger raises are established, upholes are drilled into the vein, both in ore and waste. Ore material is blasted first and then removed using slushers operating on a conveyor belt muck sheet to the finger raise for transportation to the process facility. Prior to blasting the waste material, cribbed timbers are placed to raise the ore passes (similarly to the manway and service raises) to the next level. Waste material is then blasted and left in the stope as fill material for accessing the next level of the stope. Where necessary, additional waste can be drilled and blasted to ensure fill volume in the stope is appropriate as mining progresses.

Figure 16-2 and Figure 16-3 show generalized cross sections and long sections explaining the mining method.





Figure 16-2: Resue Mining Method Details - Long Section



Source: SRK

Figure 16-3: Resue Mining Method Details - Long Section on Left, Cross Section on Right

The resue mining method can be applied in areas where the veins are narrow and sufficient waste material is mined to serve as backfill for miners to advance the stope vertically. In areas where the ore width is excessive (>~5ft), the resue method becomes inappropriate without an alternate means of backfill. Where necessary waste rock will be shot out from the ribs to generate enough material to fill the stope. The resue method was historically used at the mine from 1885 through 1912 when the mine was profitable under the ownership of A.E. Reynolds. The use of this method successfully produced enough ore to feed the 400 t/d stamp mill located near the Revenue Tunnel portal. The mill burned down in 1912 which effectively ended the last serious effort to mine the Virginius Vein using the resue method. Later operators in the 1960's and 1980's tried using shrink stoping methods which, due to the need to mine at a wider width, diluted the ore to uneconomic levels.

Shrinkage stoping can be utilized at the mine in stopes where the average vein width exceeds 2.5 to 3 ft of width, but is not currently planned for use for any new stope areas.

16.2 Geotechnical Parameters

The average mineralized zone width for resue stopes is approximately 1.5 ft with a minimum mining width of approximately 6 inches. Some stopes in the Yellow Rose specifically are generally wider while the Footwall and Terrible stopes are generally narrower than these averages. The total stope widths will vary based on optimum equipment/operations design subject to maintaining ground stability. Each

stope has one raise that includes a manway, ore pass, and equipment chute typically in the middle of the stope, an appropriate number of ore pass raises on approximate 75 to 80 ft centers, and a carried manway on each end of the stope.

Table 16-1 is a summary of the planned drift dimensions and their purpose for which ground support requirements were estimated.

Area Type		Width 1 (ft)	Width 2 (ft)	Height (ft)
Lateral Develo	opment			
7x9 Tra	ack Drift	7		9
9x9 Tra	ack Drift	9		9
Level S	Siding	12		9
Drift Re	ehabilitation	2		9
Resue	Stope Scram	3		8
Alimak	Raise 9x9 Station Scram	9		9
Alimak	Raise 10x14 Station Scram	10		14
Vertical Devel	opment			
Alimak	Muck Raise	6	6	
Alimak	Standard Raise	8	8	
Alimak	Finger Raise	6	6	
Alimak	Chute Raise	8	8	
Carried	l Manway Raise	6	8	
Resue	Chute Raise	4	4	
Service	e Manway Raise	6	12	
Timbering and	d Hoists			
Timber	ing Standard Raise	8	8	
Timber	ing Hoist Raise	10	14	
Timber	ing Alimak Finger Raise	6	6	
Timber	ing Carried Manway Raise	6	8	
Timber	ing Service Manway Raise	6	12	
Resue	Chute Package	4	4	
Alimak	Chute Package	8	8	

Table 16-1: Summary of Planned Opening Dimensions

Source: SRK

A typical spacing of 300 ft between levels has been used in all mining areas (Virginius Main, Footwall, Yellow Rose and Terrible) mining areas. The resue mining method is a modified cut and fill method designed to fit the mineralization and minimize dilution. The areas are overhand mined from bottom to top with the use of sill pillars where necessary. Waste rock from the resue method is used to fill the cut and work from for the next resue cut. This method helps to provide local stope stability as well as mine-wide stability.

Underground mining areas will be accessed via the Revenue tunnel and generally footwall accesses except where there is pre-existing development such as the 2350 level south which was driven in the 1980's. The footwall access and any other infrastructure will be in footwall areas away from mining-induced stress areas. Mined material below the 2000 main level other levels will be hoisted to the Revenue Tunnel and rail-hauled to the underground mill near the surface. Ventilation raises / shafts will be constructed / rehabbed to connect the main ventilation system.

16.2.1 Geomechanical Characterization

SRK has conducted a geotechnical evaluation of the Project (SRK, 2016). Geotechnical core logging, structural mapping of drifts, and laboratory strength testing of drill core samples were used to characterize the mineralized rock and surrounding host rock. The characterization programs consisted of the following components:

- Geotechnical logging of 1,274 ft of core from 14 diamond drillholes. Drillhole stations were located on one level (2,000 ft level) and drilled perpendicular to the strike of the deposit, therefore intersecting the hangingwall, footwall, and target veins;
- Drift face mapping from 30 stations in existing access drifts;
- Historic laboratory strength testing of 38 core samples. Tests included uniaxial compressive strength (UCS), triaxial compressive strength (TCS), Brazilian tensile strength (BTS) and natural-joint direct shear strength (DSS) tests;
- New laboratory strength testing of 20 core samples. Tests included uniaxial compressive strength (UCS), and Brazilian tensile strength (BTS); and
- Rock mass classification of core logging data according to the Barton (1974) Q and Bieniawski (1989) RMR systems.

The new laboratory testing was conducted to confirm rock strengths from historic tests. Samples of the immediate hangingwall and footwall material as well as the mineralized ore vein were sampled from 10 exploration drill cores. Twenty samples were tested by Agapito Associates in Grand Junction, Colorado. The test standards included the following:

- Uniaxial (unconfined) compressive strength (UCS) test: D7012-132; and
- Splitting tensile strength test (Brazilian): D3967-083

The laboratory test results (Agapito, 2017) confirm rock strength values used for the FS design. Table 16-2 is a summary of the average and standard deviation values from the testing. Because only a limited number of tests have been conducted, SRK recommends that 33-percentile values be used for design purposes.

	Der	nsity	U	CS	Young's (Sec	Modulus ant)		n's Ratio cant)	E	BTS
Location	Average	Standard Deviation	Average	Standard Deviation	Average	Standard Deviation	Average	Standard Deviation	Averag	Standard Deviation
	(lbs/ft ³)	(lbs/ft ³)	(psi)	(psi)	(10^6 psi)	(10^6 psi)		Deviation	(psi)	(psi)
FW	168.9	2.4	15,342	5,289					1,407	397
HW	167.4	2.1	16,431	4,120	3.22	0.54	0.04	0.02	1,532	603
Dike/Ore	169.5	3.1	33,385	13,411	9.92	0.11	0.16	0.01	2,641	560

16.2.2 Geomechanical Domains and Rock Mass Properties

The Virginius Vein was divided into four structural-geotechnical domains, the hangingwall (HW), dike (Dk), which includes mineralized vein, footwall (FW), and the country rock of the San Juan Formation (SJ). These domains were based primarily on the visible geologic structure near the vein, historic ground conditions, and the characterization data. The domains were used as the basis for developing the geotechnical design parameters. Individual rock types (i.e., San Juan Formation versus andesite dikes, with or without vein material) do not appear to be the dominant factor controlling rock quality domains when compared to geologic structures. The data used to estimate these domains is representative of the stopes mined in the first years of the mine plan. Little geotechnical data has been gathered at distances farther than approximately 280 ft above or 200 ft below the Revenue level due to current limited access.

A summary of rock mass quality is shown in Table 16-3 for the characterized mine area.

vrea Zone Lithology		Q'			Quality	
Zone	Littiology	Average	Min	Max	Quality	
SJ-FW	Rhyodacite	21.8	16.7	39	Good	
SJ-FW	Rhyodacite	32.7	27	45	Good	
Dk-HW	Andesite	28	-	-	Good	
Mineral	Quartz Carbonate	1.6	-	-	Poor	
SJ	Rhyodacite	32	28	41	Good	
SJ	Rhyodacite	17.7	11.2	28	Good	
SJ	Rhyodacite	19.6	5.3	37.5	Good	
	SJ-FW Dk-HW Mineral SJ SJ	SJ-FWRhyodaciteSJ-FWRhyodaciteDk-HWAndesiteMineralQuartz CarbonateSJRhyodaciteSJRhyodacite	SJ-FWRhyodacite21.8SJ-FWRhyodacite32.7Dk-HWAndesite28MineralQuartz Carbonate1.6SJRhyodacite32SJRhyodacite17.7	ZoneLithologyAverageMinSJ-FWRhyodacite21.816.7SJ-FWRhyodacite32.727Dk-HWAndesite28-MineralQuartz Carbonate1.6-SJRhyodacite3228SJRhyodacite17.711.2	ZoneLithologyAverageMinMaxSJ-FWRhyodacite21.816.739SJ-FWRhyodacite32.72745Dk-HWAndesite28MineralQuartz Carbonate1.6SJRhyodacite322841SJRhyodacite17.711.228	

 Table 16-3: Summary of Rock Mass Quality, Virginius North Area

Source: SRK, 2016

16.2.3 Mine Design Parameters

The stable open stope dimensions were estimated using the Potvin (2001) method. The size of the open stope area in this study are 12 ft high (assumed 6 ft drift plus 6 ft resue slot), up to 6 ft wide vein; and 500 ft long oriented along vein strike. The stability charts demonstrate that the selected resue stope sizes are sufficient to maintain stability during mining. Increasing the stope length has limited influence on stope stability and stopes 1,000 ft long should also be stable. Additionally, modifying the stope height to 15 ft (9 ft drift, 6 ft resue slot) also has minimal influence on stope stability because the hydraulic radius is small compared to stability limits.

Where necessary, remnant dip pillars between stopes will be left in-situ allowing stopes to remain unfilled (i.e., shrinkage stopes are not backfilled). The size of dip pillars should be 1.5 times the width of mined vein, if the strike length is limited to approximately 170 ft.

Ground support requirements were estimated using empirical support charts developed by Barton (1974), and are summarized in Table 16-4.

Q	Rock Classes	Support Categories	Support Recommendation	Excavation Type
>10	Good	SC-1	Spot Bolting with spacing 7.5 to 8.2 ft	Footwall Accesses Stope Accesses
4 to 10	Fair	SC-1	Spot Bolting with spacing 6.9 to 7.5 ft	Footwall Accesses Stope Accesses Scram Drift
1 to 4	Poor	SC-1	Spot Bolting with spacing 5.6 to 6.9 ft	Footwall Accesses Stope Accesses Scram Drift

Table 16-4: Ground Support Requirements (Barton Method)

Source: SRK, 2016

Resue stopes will be backfilled as part of the mining process. This will limit the amount of sloughing and disturbance to the hangingwall on the active cut level and will help maintain overall mine stability.

Ore passes and ventilation raises will be located outside areas of high mining-induced shear stress areas such as abutments at the ends of the stopes/mining. Long-term ore passes will be in stress shadow areas (i.e., lower σ_1 stress) away from active stoping areas and should be kept full of rock to reduce damage to side walls from tumbling rocks.

16.2.4 Stoping Sequence and Sill Pillars

To reduce the potential for elevated mining-induced stress concentrations, stopes should be sequenced from the middle portion of the mining area outward, pushing stresses away from mining areas toward outer abutments.

The current underground mine plan will result in sill pillars that are to be mined later in the mine sequence. Sill pillars will have stress concentrations, which could possibly yield the rock mass in some areas prior to recovering the entire sill pillar. As such, achievable sill pillar recovery may be less than 100%. With the current knowledge of ground conditions, 80% recovery should be achievable by slowing the extraction sequence. The design has assumed that these sill pillars will be approximately 25 ft high and the width of the mineable vein wide. SRK assumes that 20 ft of the ore in the sill can be safely recovered from the level below, however in the LoM plan presented herein, no stope pillar recovery is currently included.

16.3 Mine Design

16.3.1 Historically Mined Areas

The area has been historically mined by various owners/parties. Historic long section maps, such as the one shown in Figure 16-4 are available and have been used to block out general areas, which are believed to be mined. Level section maps were also located, and drift work shown on the maps was digitized into the computer. This digitized information is believed to reasonably represent the historic workings; however, elevations and exact locations may be inaccurate. Where possible and available survey information has been reconciled with the historical data. This effort is an ongoing process being conducted by OSMI.



Source: SRK/OSMI; picture of historic map, 2017

Figure 16-4: Longitudinal Section through the Virginius Vein, showing the Stratigraphy and Historic Mining

Additionally, there is 3D survey information available for areas of the mine that have been accessible in recent years and where current development is being completed (referred to as the Ranchers survey). This information was provided by OSMI in the form of a dwg file. To obtain this data, OSMI hired the previous Ranchers Exploration Mine Manager, Bob Larson, who retained the original survey, assay and geology data in digital and paper format. Bob Larson is a Colorado Registered Land Surveyor, and operates Monadnock Mineral Services, Monadnock was able to recreate the data in the mine's existing coordinate system for all of the workings below the 2000 level which were surveyed by Ranchers Exploration.

There is potential error in the exact location of mined out areas along with encountering unexpected mined out areas, which may be filled with water. Monadnock Mineral Services has been contracted to recreate in the mine grid coordinate system the historic mined out workings and levels from paper copies which predate the Ranchers Exploration work and are in his possession. This information will assist OSMI in identifying areas where precautions should be taken, such as probe drilling ahead of mining, to ensure safe working conditions.

OSMI has stated that it has in its possession all claim deeds and patent surveys. OSMI has also contracted with Monadnock earlier this year to obtain all patent survey notes in order to resurvey where needed claim corners that might be missing in the field. This type of work around the surface facilities has been completed and will continue in and around certain claims in Governor Basin where surface disturbance or avalanche may have removed claim corners. Additionally, Wolcott, a professional land services company based in Grand Junction, Colorado, was contracted in 2016 to review all ownership records and recreate all claim maps in proposed mining areas for this LoM plan. This work was completed for claims where mining will proceed during the LoM plan in 2017 and work will continue through 2018 on other claims outside claims where apex law controls minable reserves. SRK has not verified this work.

16.3.2 Stope Design

The resource block models provided for all areas consist of a single block across the width of the vein. It is assumed that if a vein is included in the mine plan, the full width of the vein is mined.

Figure 16-5 through Figure 16-8 show long section views of the resource model for various veins with blocks colored by in situ NSR.



Source: SRK

Figure 16-5: Virginius Main Vein Resource Blocks – Colored by NSR



Source: SRK

Figure 16-6: Virginius Footwall Vein Resource Blocks – Colored by NSR



Source: SRK

Figure 16-7: Terrible Vein Resource Blocks – Colored by NSR



Source: SRK

Figure 16-8: Yellow Rose Main Vein Resource Blocks – Colored by NSR

Based on the NSR of the blocks, large mining panels/stopes are manually identified in long section. There may be places inside the panel which fall below CoG, these areas fall into two categories: incremental ore which though below cut-off still has an economic benefit due to being located in an already developed stope and low grade mineralization that may be bypassed in the ore cycle and taken during the resue waste shot. These lower grade areas are included in the reserve and in the LoM plan described herein. The decision on whether to take low grade material will be the responsibility of the OSMI geologic staff in their daily mapping and sampling along with proper communication with mine operations staff. Note that the overall NSR within each stope shape, including the low grade, is above CoG.

The geologic vein shape is cut to the mining panels/stopes and tonnages/grades are reported for each stope. Dilution is calculated in the block model for each block, based on the specific block width, and is also reported to give an average dilution for the entire stope. Tonnages/grades are then diluted, based on the average dilution, in a spreadsheet. The average diluted grade of the entire panel is then compared to the CoG to ensure economic viability.

The minimum mining width stated by OSMI is 0.5 ft. There are very few areas that fall below the 0.5 ft, and as such, during the stope design process no additional minimum mining width dilution was included. Note that if extremely narrow areas are encountered they may be mined with a waste shot so as not to dilute the grade to the mill. Proper mine planning and geologic mapping will allow these areas to be quickly bypassed without loss of significant production tonnage.

Included in the mine plan is a single shrinkage stope (named F9) which is fully developed and ready to muck. The stope is believed to be mined at 3.5 ft wide, as per OSMI's discussion with the mine manager at the time that the stope was developed. Tonnage and grade of the vein for this stope were calculated from the resource model and diluted to 3.5 ft wide. Records indicate only 800 t of the stope was shipped to processes and the remaining is stockpiled in various muck passes from the 2210 to the 2550 level. The quantity of the material which will be recovered from this stope and the various muck passes cannot be confirmed at this time; however, the entire stope tonnage has been included in the mine plan. Recovering only a portion of this tonnage is not seen as a material change to the reserves, nor to the cash flow as it is currently shown as being milled at the end of the LoM.

16.3.3 May 2017 Resue Test Stope Discussion

The stope dilution applied to the mine plan is described in Section 15.2.2. Subsequent to the mine planning work, additional test stope mining was performed to further confirm the understanding of implementation of the mining method, productivities, and dilution quantifications/discussion. A discussion of the May 2017 test stope activities and results is included in this section. This information supports the FS assumptions, however this information was not directly used in material quantity/grade estimates for the FS.

Drill Pattern

During the April 2016 test stope (described in Section 15.2.2), a number of drill patterns were tested to determine the best pattern to minimize dilution, reduce the probability of booting a round, and break the ore into size fractions that are easily slushed to the resue ore passes.

The 2-1-2 drill pattern was found to be the most effective pattern to pull the mineralization zone (vein) in a resue stope. The 2-1-2 pattern allows for the miner to drill faster throughout the mineralization zone, although the miner must be correct on his angle relative to that of the hanging wall for particular holes. This pattern also allows for some flexibility in the requirement to be parallel to the hanging wall so that when setting up, the miner only needs to make sure the single hole nearest the hanging wall is parallel. The other two holes (hole nearest the footwall contact and single hole by itself) can be sub-parallel without endangering the entire round or increasing dilution significantly.

It was determined that the 2-1-2 pattern, shown in Figure 16-9, was superior over other potential patterns, such as a 1-1 staggered pattern, simply because if one hole fails in the staggered pattern the miner will lose the rest of the shot. So, although 2-1-2 pattern takes longer to drill and uses more powder it was found to ensure that the mineralization zone pulls significantly better and cleaner even if one hole fails.



Source: OSMI 2017

Figure 16-9: Resue Drill Hole Pattern Used the 561 Test Stope

Resue Test Stope – May 2017 Summary

OSMI further developed and advanced the 561 test stope from March to May in 2017 with the intent of further confirming the dilution estimate, to evaluate swell factor for the waste remaining in the stope, and to compare productivity estimates in the mine plan to real data. The test was based on mining a 45 ft section of the stope with an experienced miner and a 25 ft section of stope with a junior miner. A full cycle including drilling and blasting the ore, placement of muck sheet (conveyor belt), slushing ore to ore pass, raising the timbered ore passes and manways, and drilling and blasting the waste to complete the cycle. The three-man crew made up of an experienced Miner I, a less experienced Miner II and their shifter who basically functioned as a miner's helper (nipper).

The stope was surveyed on 5 ft centers prior to activities commencing. The test mining activities were timed and stope dimensions were surveyed as each portion of the mining cycle progressed. Figure 16-10 shows the test stope area and sequence of mining. The carried manway was driven first and timbered after which the lead miner drove scram while the shifter and Miner II drove the service raise and timbered both it and the raises from the previous test stope constructed in 2016.

The two new raises (service and carried) were driven and timbered as per feasibility design. Following timbering and installation of utilities in each raise (water, air and ventilation), a 3.0' wide scram drift was mined first, noted as 1st in Figure 16-10. The #11 section of resue ore and waste was mined second (2nd). The final section of resue, #9 section, was mined last (3rd). After activities commenced, each 5 ft section of drift was surveyed after the ore shot, after the ore was mucked out, and finally after the waste shot was taken. These surveys were used to compare against the pre-mining survey.

2nd #11-71' Resue Ore and Waste	a 3rd #9-53' of V	Vaste to be Shot #10-41' Breast Down
1st #3-71' Resue Stope Scram	201	l6 Test Stope
MM	#5-Drive Srvc MW #5-Timber Srvc MW	r Chute Manway
#2-Drive 32' MW #4-Timber MW	s Sroc	#7-Timber Ch

Source: OSMI 2017 modified by SRK

Figure 16-10: Test Stope Area and Sequence

Resue Test Stope – May 2017 Dilution

The vein averaged approximately 13.3 inches in width and was drilled in a 2/1/2 pattern on one-foot centers in the ore as described above. A single hole was placed in the waste on approximately two-foot centers on the footwall side of the scram drift. The vertical resue cut was 6 ft high and followed the vein dip. The vein width in the test stope ranged from 6 inches to 2 ft.

The overbreak, which represents the dilution, was measured every 5 ft down the stope. The typical ore shot breakage can be seen in Figure 16-11. The upper portion of the ore shot is clean and typically broke to the waste. The bottom 1.6 ft of the hole on average consistently over-breaks and creates the dilution portion of the shot. For the test stope, this overbreak ranged 6 to 1.5 inches to 3 ft. The width of the overbreak averaged 1.8 ft. The minimum width of the overbreak was 8 inches and the maximum was 1.9 ft.


Source: OSMI, 2017

Figure 16-11: 561 2017 Test Stope Measured Overbreak Results

Table 16-5 summarizes the stations, vein widths, and actual dilution for the May 2017 test stope.

Section	Average Vein Width	Ore Cut (ft ²)	Waste Cut (ft ²)	Dilution (%)
200	1.36	6.66	0.1	1.48%
205	1.2	5.67	0.96	14.48%
210	1.03	3.64	1.82	33.33%
215	1.1	5.41	3.31	37.96%
220	0.97	3.83	0.66	14.70%
225	1.09	4.7	1.18	20.07%
230	1.2	6.32	0.74	10.48%
235	1.14	6.48	1.37	17.45%
240	1.26	6.32	1.06	14.36%
245	1.28	6.11	1.6	20.75%
250	1.32	6.52	1.59	19.61%
255	1.24	4.88	0.19	3.75%
300	0.83	5.41	6.21	53.44%
305	1.08	5.46	4.21	43.54%
310	1.34	5.54	1.9	25.54%
315	0.93	4.43	5.32	54.56%
320	1.01	6.02	6.78	52.97%
325	0.64	2.68	4.08	60.36%

 Table 16-5: May 2017 Test Stope Measurements and Dilution Calculation

Source: OSMI, 2017

A best fit line was created from both this data and the 2016 data and a new best fit equation developed. Overall the results of the equation differences were minimal and therefor adding confidence to the 2016 dilution equation used in this FS.

Impact of Miner Training and Experience

A section of the May 2017 test stope was mined by the Miner II who had no prior training using a stoper drill until this test stope was undertaken. Mine management was interested in the potential outcome of an inexperienced miner completing a small section of the stope and sought to determine what issues were critical in training seasoned miners who had no prior experience in narrow vein mining using a stoper drill. It is very clear that proper training in a real environment as envisioned by the OSMI proposed stoping school will be an important activity to assure dilution is kept to a minimum. OSMI plans to develop training that addresses the types of issues that a miner might experience when executing the resue mining method. This training is described further in the Implementation Section of this report (Section 24.1.11). The May 2017 dilution equation evaluation includes all data from both the experienced Miner I and inexperienced Miner II. The experienced miner effort in the May 2017 test stope date resulted in lower dilution than forecast by the 2016 equation.

As additional data is available the dilution equation should be updated during operational phases of production.

<u>Swell</u>

Utilizing the same survey data, the waste swell factor was calculated as part of the test stope process. The data is somewhat erratic, but an overall swell factor of 30% was estimated. This study, consistent with previous work maintains the 40% swell factor, but OSMI will be able to monitor this factor as the resue method is put into operation to further confirm the swell factor. The swell factor quite simply

indicates the proper amount of material required to balance the waste for access to the next lift and utilizing the 40% swell factor in the study allows a conservative estimate of any excess waste that may occur in the mine plan. These quantities were identified in the mine block model and determined to be manageable within the stope.

Stope Productivity:

The third objective of the May 2017 test stope was to test the ability to drill and cycle a round in simulated mining conditions. The goal was to be able to drill, blast, and muck a 45 ft round in eight hours. OSMI produced a summary of the production during the stope productivity test that is summarized in Table 16-6.

Table 16-6: May 2017 Test Stope Drilling Productivity Results

Test Distance	Goal (hours)	Actual (remove irregular down time) ⁽¹⁾	Percent over/under
45 ft - Station 10 to 45, and 110 to 120	8.00	9.00	13%
20 ft - Station 120 to 140	3.56 ⁽²⁾	4.37	23%
Weighted Average Results	6.63	7.58	14%

Source: OSMI 2017, modified by SRK

(1) Slusher replacement not available.

(2) Goal adjusted to equivalent of 45 ft.

The following observations were made during the process with respect to productivity:

- The two miners and their nipper who were timed in the cycle had not previously worked in a resue environment and as such had no prior experience with the overall cycle;
- The test stope did not represent steady state production scenario;
- Greater that average interruptions by survey, supervision, and inspections disrupted the work flow;
- The test included only a single heading with only two-man crew with nipper versus actual full stope with 5 man crew that would occur during operation;
- Maintenance downtime (slusher issue) was exacerbated by the current non-production state of mine without a spare slusher available to replace the slusher of the appropriate size that malfunctioned;
- Testing with an inexperienced miner that was not proficient slanted the productivity numbers lower and had a significant dilution impact;
- This was the first OSMI experience with placement of conveyor muck sheet and the sheet rolled up slightly during slushing due to the way the conveyor was placed;
- Proficiency with new mining method and positioning of the stoper, use of kicker board; and
- General knowledge of the rock conditions and experience with the narrow vein system could have impacted the overall productivity.

All the items were documented are readily resolvable with proper training. During the ramp up period final methods, sufficient training, spare parts and contingency plans will need to be refined to confirm operating efficiencies will achieve day to day production requirements.

16.3.4 Development Design

The main access to the mine is via the Revenue Tunnel portal (10,600 ft amsl). Approximately 300 ft to the east is the portal entrance to the mill, which is located underground at the same elevation. The

underground mill connects to the Revenue Tunnel underground at a location approximately 300 ft in from the main portal of the Revenue Tunnel. A borehole exists on the north side of the Revenue Vein.

The 8 ft diameter 1,600 ft vertical borehole (referred to as the borehole, ventilation hole or the Hubb-Reed raise) provides secondary egress and ventilation. This borehole, developed in 2013, has loose rock along the walls. A rehabilitation of the borehole is planned during pre-production including permanent ground support, addition of an Alimak style hoist/elevator system (Alimak Hex), ventilation modifications, and the addition of four shaft stations for access to stopes and to allow exploration drilling and mining above the Revenue level. The Alimak system will improve functionality and maintenance on the emergency hoist. The work has been designed by Harrison-Western and bid to multiple companies.

The existing Revenue Tunnel has three different caved sections along its 7,800 ft from portal to shaft. The caved sections are bypassed by the tunnel, however OSMI has a contract bid for cost and intends to rehabilitate these caved sections as part of pre-production. OSMI has performed some rehab work on the drift from the main Revenue tunnel to the vent hole. Additional work in this area is planned during pre-production for access to the main Alimak #1 shaft as well as muck passes and sidings. As part of mine development a new footwall lateral will be driven to the south end of the deposit on the Revenue level to connect with a raise coming from levels below. Rehabilitation of historically mined drifts on lower levels is included in the mine plan. Additional development/rehabilitation may be required depending on exact location of the existing drifts once they are located/surveyed underground. Note that all drifts currently planned for rehabilitation were surveyed in the 1980's by Ranchers Exploration.

Access to lower levels will be via the existing #1 Shaft, which is currently flooded and, although accessible at the 2000 level of the Revenue Tunnel, is inaccessible at depth. The #1 Shaft rehabilitation includes pumping the water, rehab of the main hoist cut-out on the Revenue 2000 level, rehab of the existing hoist structure, rehab of 750 ft of shaft from the 2000 Revenue Tunnel level to bottom of the shaft, installation of a hoist, skips, and man-cage as well as development/rehabilitation of loading pockets and ore passes. The rehabilitation is expected to take seven months to complete and occurs in year 2 of the FS mine plan. A shaft station will be will be available on each planned operational level to move men/materials to the Revenue level. An existing ore pass from the 2210 level to the 2550 level will be rehabilitated and as part of the rehabilitation new ore and waste pockets for loading skips will be developed on each operating level.

The Yellow Rose area currently does not have a usable secondary egress route. The initial Alimak raise developed in the area will be extended to surface and will include a permanent hoist located in one of the compartments. This raise will function as an emergency egress and ventilation raise.

A 3D design of the development was completed and is shown in Figure 16-12 and Figure 16-13.



Source: SRK

Figure 16-12: Revenue and Terrible Area Planned Development (Rotated View- Looking Toward Portal)



Source: SRK

Figure 16-13: Yellow Rose Area Planned Development (Rotated View- Looking Toward Portal)

Typical dimensions for development items are as shown in Table 16-7.

Table 16-7: Development Dimension

ltem	Deve	elopment S	Size
item	Width 1	Width 2	Height
Lateral Development			
7x9 Track Drift	7		9
9x9 Track Drift	9		9
Level Siding	12		9
Drift Rehabilitation	2		9
Resue Stope Scram	3		8
Alimak Raise 9x9 Station Scram	9		9
Alimak Raise 10x14 Station Scram	10		14
Alimak Standard Nest	14		10
Vertical Development			
Alimak Muck Raise	6	6	
Alimak Standard Raise	8	8	
Alimak Finger Raise	6	6	
Alimak Chute Raise	8	8	
Carried Manway Raise	6	8	
Resue Chute Raise	4	4	
Service Manway Raise	6	12	

Source: OSMI/SRK, 2017

Each designed development item was further divided into separate tasks/activities that must occur (i.e., manway, service way, finger raises, etc.) and each line item was tracked in a spreadsheet for incorporation into the production schedule.

Scram development will be 3 ft wide by 8 ft high and is assumed to be mined as waste.

16.3.5 Mine Design

The underground mine design process results in reserves of 575 kst (diluted) with an average grade of 24.70 oz/st Ag, 0.06 oz/st Au, 4.97% Pb, and 2.15% Zn. The overall NSR value for the reserve is US\$501/st. These tonnages and grades include only Proven and Probable material. Figure 16-14, Figure 16-15 and Figure 16-16 show various views of the mine design colored by NSR and width. Note that concentrate grade, recovery and market terms (e.g., payability) assumption used for LoM average NSR calculations may vary somewhat from final assumptions in the economic model, as these assumptions were made prior to the results of the metallurgical and concentrate marketing studies. These changes in the economic model assumptions are not considered material to the mine design process.



Source: SRK





Source: SRK

Figure 16-15: Mine Design Colored by NSR – Rotated View Looking Northeast (Looking Toward the Portal)



Source: SRK

Figure 16-16: Mine Design Colored by Mining Width – Rotated View Looking Southwest (Looking From the Portal)

16.4 Production Schedule

A monthly production schedule was generated using Excel for each development and stope item. This schedule was created by OSMI and SRK converted the line items and dates into an iGantt schedule to verify the scheduling order, required development and production tonnages/grades by period.

The schedule targeted approximately 7,670 st ore/month (92,000 st/y).

16.4.1 Productivity Assumptions

The production schedule is based on the rate assumptions shown in Table 16-8.

	Deve	elopment S	Tonnage	Advance	
Item	Width 1	Width 2	Height	per Shift (t)	per Shift (ft)
Stoping					
Resue Stoping				68	90
Shrink Free pull				250	-
Lateral Development					
7x9 Track Drift	7		9	45	8
9x9 Track Drift	9		9	58	8
Level Siding	12		9	74	8
Drift Rehabilitation	2		9	18	12
Resue Stope Scram	3		8	23	11
Alimak Raise 9x9 Station Scram	9		9	58	8
Alimak Raise 10x14 Station Scram	10		14	67	6
Alimak Standard Nest	14		10	50	4
Vertical Development					
Alimak Muck Raise	6	6		26	8
Alimak Standard Raise	8	8		46	8
Alimak Finger Raise	6	6		26	8
Alimak Chute Raise	8	8		46	8
Carried Manway Raise	6	8		34	8
Resue Chute Raise	4	4		15	11
Service Manway Raise	6	12		34	6

Table 16-8: Productivity Rates

Source: OSMI/SRK, 2017

The rates were developed from first principles with supporting confirmation by test stope work and previous operating experience.

The mining operation schedule is based on 337 days/year, 7 days/week, with two 10 hr shifts each day.

16.4.2 Monthly Production Schedule

A monthly production schedule was generated for the life of the mine based on these productivities. The monthly detail was necessary for the development/ramp up definition and as the mine life was 6 years, the schedule and economc model continued monthly. Later years will require more detailed sequencing as mining progresses. There is a 6 month development period, followed by a 3 month mill ramp up period before full production is achieved. The economic model assumes month 1 is April, 2019.

During the pre-production and early period the following activities will take place:

- Contracted activities:
 - The ventilation raise bore will be rehabilitated and Alimak elevator system installed;
 - The #1 Alimak Raise will be constructed;
 - Caved sections of the Revenue Tunnel will be taken up and run-arounds will be converted into sidings;
 - Alimak Raises #1 and #2 will be constructed; and
 - Access from the top of the Alimak #1 Raise will be developed on the 1200 Level.
- Self-performed activities:
 - o 2000N track extensions, sidings and switch development;

- Driving drift to the south on the 2000 level on the footwall;
- Track level installations including finger raises, chute raises, and chute packages for #2 Alimak Raise, #3 Alimak Raise, and #4 Alimak Raise;
- Driving #2, #3, and #4 Alimaks as muck passes to the 1800 and 1200 levels;
- Stope development work on the 1200 and 1800 levels; and
- 1200 and 1800 level track work and development drifting work to connect with muck passes, Alimak #1 and ventilation borehole (Hubb-Reed Raise).

Yellow Rose area development begins in period 32 and ore material is not scheduled until period 48. Table 16-9 shows the mine production schedule by period.

Time Period	Waste	Ore	Ag	Au	Pb	Zn
(months)	Tons (st)	Tons (st)	(ozst)	(oz/st)	(%)	(%)
1	5,802	-	-	-	-	-
2	3,481	-	-	-	-	-
3	5,200	-	-	-	-	-
4	6,625	-	-	-	-	-
5	9,076	-	-	-	-	-
6	10,143	-	-	-	-	-
7	6,985	822	27.09	0.05	3.57	4.27
8	5,831	3,835	27.09	0.05	3.57	4.27
9	5,165	3,903	27.48	0.05	3.68	4.22
10	3,005	7,670	38.03	0.06	6.69	2.99
11	4,101	7,670	38.03	0.06	6.69	2.99
12	4,893	7,670	38.03	0.06	6.69	2.99
13	3,752	7,670	38.03	0.06	6.69	2.99
14	3,772	7,670	34.38	0.05	5.99	3.46
15	4,065	7,670	23.43	0.05	3.89	4.84
16	2,448	7,670	23.80	0.05	3.93	4.83
17	1,995	7,670	33.91	0.07	5.05	4.37
18	1,735	7,670	33.91	0.07	5.05	4.37
19	2,232	7,670	33.91	0.07	5.05	4.37
20	3,256	7,670	33.91	0.07	5.05	4.37
21	3,983	7,670	40.77	0.08	5.33	3.58
22	3,417	7,670	46.73	0.09	5.58	2.89
23	2,813	7,670	39.89	0.08	5.02	2.44
24	3,423	7,670	30.78	0.07	4.26	1.84
25	2,093	7,670	22.55	0.07	4.39	1.46
26	2,982	7,670	19.70	0.07	4.96	1.40
27	3,604	7,670	23.46	0.07	6.32	1.76
28	3,714	7,670	23.46	0.07	6.32	1.76
29	3,806	7,670	23.46	0.07	6.32	1.76
30	3,560	7,670	23.46	0.07	6.32	1.76
31	916	7,670	25.59	0.07	6.09	1.50
32	3,979	7,670	31.97	0.08	5.40	0.73
33	5,399	7,670	33.47	0.08	5.00	0.77
34	5,150	7,670	34.32	0.09	6.14	0.91
35	3,171	7,670	33.15	0.10	8.29	1.02
36	1,007	7,670	33.15	0.10	8.29	1.02
37	2,754	7,670	33.15	0.10	8.29	1.02

Table 16-9: Monthly Mining Schedule

	-	Table 16-9: Monthly Mining Schedule (continued)								
Time Period (months)	Waste Tons (st)	Ore Tons (st)	Ag (ozst)	Au (oz/st)	Pb (%)	Zn (%)				
38	3,819	7,670	26.91	0.06	5.57	1.68				
39	3,038	7,670	23.95	0.04	4.29	2.00				
40	1,252	7,670	23.95	0.04	4.29	2.00				
41	5,003	7,670	23.95	0.04	4.29	2.00				
42	5,048	7,670	23.95	0.04	4.29	2.00				
43	4,791	7,670	24.81	0.04	5.19	2.17				
44	3,447	7,670	24.87	0.04	5.26	2.19				
45	2,316	7,670	24.87	0.04	5.26	2.19				
46	2,624	7,670	28.77	0.04	5.48	2.03				
47	2,879	7,670	35.27	0.04	5.85	1.77				
48	2,384	7,670	33.56	0.04	5.77	2.22				
49	3,023	7,670	29.98	0.04	5.86	2.21				
50	3,002	7,670	22.49	0.04	6.06	2.16				
51	3,612	7,670	22.49	0.04	6.06	2.16				
52	5,048	7,670	22.49	0.04	6.06	2.16				
53	4,347	7,670	22.49	0.04	6.06	2.16				
54	3,577	7,670	22.49	0.04	6.06	2.16				
55	2,524	7,670	22.49	0.04	6.06	2.16				
56	2,272	7,670	22.49	0.04	6.06	2.16				
57	1,447	7,670	22.49	0.04	6.06	2.16				
58	740	7,670	20.08	0.07	7.46	1.92				
59	1,274	7,670	19.20	0.07	7.97	1.83				
60	893	7,670	16.31	0.07	6.96	1.59				
61	713	7,670	19.04	0.07	4.39	1.93				
62	935	7,670	21.89	0.07	3.28	2.23				
63	1,002	7,670	21.89	0.07	3.28	2.23				
64	1,712	7,670	21.89	0.07	3.28	2.23				
65	412	7,670	21.89	0.07	3.28	2.23				
66	-	7,670	28.12	0.06	5.57	2.34				
67	-	7,670	28.73	0.06	5.79	2.35				
68	-	7,670	17.04	0.07	2.76	1.69				
69	-	7,670	13.52	0.07	2.25	1.57				
70	-	7,670	13.52	0.07	2.25	1.57				
71	-	7,670	13.64	0.05	2.46	1.25				
72	-	7,670	13.76	0.04	2.64	0.98				
73	-	7,670	13.24	0.04	3.13	1.20				
74	-	7,670	12.96	0.04	3.39	1.32				
75	-	7,670	12.96	0.04	3.39	1.32				
76	-	7,670	12.96	0.04	3.39	1.32				
77	-	7,670	11.74	0.04	3.11	1.62				
78	-	7,670	10.44	0.04	2.81	1.94				
79	-	7,670	10.44	0.04	2.81	1.94				
80	-	7,670	10.44	0.04	2.81	1.94				
81	-	7,568	12.87	0.04	2.61	1.65				
82	-	7,585	14.09	0.04	2.50	1.50				
83	-	6,685	17.77	0.02	2.21	0.83				
Total	222,469	574,965	24.70	0.06	4.97	2.15				

Table 16-9: Monthly Mining Schedule (continued)

Source: OSMI/SRK, 2017

Total Ore tons listed here vary somewhat from the reserves stated in Table 15-6 due to rounding.

Figure 16-17 shows the production schedule colored by period.



Source: SRK, 2017

Figure 16-17: Mine Production Schedule, Colored by Time-Period - Rotated View Looking Southwest (Looking from the Portal)

16.5 Mining Operations

All new stopes are mined using the resue mining method. The mining widths are narrow and average approximately 1.5 ft in the Virginius and Terrible areas, and 2.5 ft in the Yellow Rose area. Stope development begins with construction of 2, two-compartment manway raises on each end and a three-compartment service raise in the approximate center. These are carried raises that advance with the stope vertically and completed with air, water and ventilation. These raises are driven to allow men and materials into the stope. Once the manways and service raises are driven, resue raises are developed on approximately 80 ft centers to allow ore from the raise to be slushed to a chute for loading into rail cars. Once all the raises are completed a 3 ft wide x 8 ft high scram is driven at the top of the service raise out each direction on vein to connect with each resue raise as well as the manways on each end. Once the scram is completed each raise in timbered appropriately with chute packages on each resue raise as well as on the ore compartment of the service raise. At haulage level, the chutes allow mineralized material to be loaded into muck cars and trammed by electric or diesel locomotive out of the mine.

Stope mining then commences with 6 ft upholes drilled from the scram. Ore and waste material are blasted separately to minimize dilution. Ore is slushed from the stope whereas waste is left in situ and serves as a working platform for the next vertical cut. In certain areas, additional waste will need to be blasted from the footwall to provide enough material for filling the stope. It is expected that slushing excess waste from narrower areas to wider areas should reduce the amount of additional footwall waste to be blasted.

The mine will use primarily pneumatic equipment and currently has only one 7-ton main haulage diesel locomotive underground and OSMI plans on purchasing a second locomotive for haulage on the main track area from the shaft to the mill or portal. All other locomotives including 8-ton, 4-ton and 2-ton

Mancha motors are electric and will be used for men, materials and off main level haulage. In most areas, OSMI intends to make use of existing mine track and tracked mining equipment such as battery-powered locomotives, muck cars, and Eimco 22B and 12B overshot mucking machines. Production and development will be performed with jackleg drills and stopers, with primarily air slushers in the stopes for transfer of ore to resue ore chutes.

The mine will use standard 24 inch gauge and 4-ton muck cars (5 tons heaped), with seven to eight cars per train. Typical rail haulage cycle time is approximately one hour and mine personnel are able to cycle nine trains per shift. There are suppliers of track mining equipment and the company currently used is Mining Equipment Limited and Melcher Fabrication both located in Durango, Colorado, approximately 79 miles from the mine site.

Approximately two to three working stopes are required to meet the production target of 270 st/d. A single stope provides two working faces for production of ore. Having two stopes fully operational provides four working faces required to meet the production target. Typically, a third stope will be nearly fully developed to provide a fifth face for a contingency if any of the four planned faces have issues. Normally there will be at least two stopes in various stages of development and scheduled into the mining cycle to account for delays and transitions between the main production stopes.

16.5.1 Rehabilitation of Historic Workings

There are substantial existing workings available for use during the mining operations. These include workings above the main track level and below the track level in the Virginius area of the mine. OSMI has currently rehabbed the main Revenue Tunnel level to the borehole area on the north side of the Revenue areas. The Yellow Rose is currently rehabbed to the base of the older raise systems established in the last mining campaign in 2015.

Current rehabilitation plans will include the #1 shaft area, the borehole/emergency escape, the 2000 level wherever existing driftwork can be re-used, and the 2210, 2350, 2550, and 2700 levels. The rehabilitation will include ground support, rail replacement/repair, drift clean-up, replacement or addition of utilities (air, water, pump discharge, communications) as needed.

16.5.2 Resue Mining

Each resue mining team is generally made up of 5 miners (1 miner I, 2 miner II's, and 2 miner III's). Two 5 person teams will each mine one stope on every shift. The crew will perform the selective mining of the ore with stopers, and air slushers used to remove the ore. The team will mine from the one end of the 500 ft or longer stope toward the other allowing each 80 ft section between resue raises (muck passes) to be in a different portion of the mining cycle (drilling, ore blasting, slushing, cribbing and waste blasting). As a section of the stope reaches the waste blasting portion of the cycle each raise (manway, service or resue muck pass) will be cribbed up and covered. After waste is blasted and potentially leveled with a slusher, the raises will be put back into use for the next portion of the mining cycle.

Blasting will primarily use ANFO AP emulsion that will be placed with the primers into the holes. The primer system is non-electric (non-el). Central blasting is being evaluated for stope mining as blasting in the stope will only be allowed at end of shift. Where needed, alternative powder will be used.

Ground support will be installed on an as needed basis including split set bolts, mats, and/or wire mesh. The current rock characteristics and small openings of the mining method indicate that only

spot ground support will be required in stopes. The slushing operation for ore will occur over distances typically not exceeding 80 ft. Once the ore is placed in the ore pass, the muck travels down the ore pass through the finger raise where it rests against the chute door until the muck crew opens the pneumatically operated chute door to load the rail cars. The rail cars transfer ore either to loading pockets on the lower mine levels for hoisting to the 2000 level and final haulage to the mill, directly to the mill on the 2000 level, or in stopes above the 2000 level to a transfer ore pass down to the 2000 level. Approximately two stopes will typically be in operation, with one to two others in various stages of development. Ventilation, water supply, compressed air supply, electrical supply, and communications are provided at each manway and service raise in each stope to allow miners to pull their utilities from the shortest location.

Alimak raises will be located at strategic locations in the mine to allow for movement of men and materials in areas 300 ft or more above the level below it.

16.5.3 Waste Rock

Waste rock is only created during rehabilitation or development in the current LoM plan. The waste rock is drilled and blasted in a conventional manner and then mucked with a rail type overshot mucker feeding a rail-mounted car. The cars are individually loaded and then placed into groups of seven cars and hauled to the surface or backfilled into shrinkage stopes or old workings where available. Typically, the waste rock is moved to the surface where it is crushed and used for road base or combined, per permit, with the tailings. The current mine plan has a total of 222 kst of waste over the LoM. The waste rock averages about 2,750 st/m over the LoM. Waste rock is typically 36% of the total material moved per day.

16.6 Mine Equipment, Key Materials and Projects

16.6.1 Mine Equipment and Key Materials

The underground existing equipment and equipment to be added during the LoM is summarized in Table 16-10 to Table 16-12. The majority of the equipment is air powered and not affected by altitude. Where applicable, diesel equipment is derated due to altitude.

Area	Unit Cost (US\$000's)	Quoted (yes/no	Number Existing	Additional Number Required	Source / Supplier
Koehler Mine lights (Cost for 2 x 40 lights plus chargers)	\$35.00	yes	20	2	United central
Stopers	\$4.60	yes	3	20	BTE
Jacklegs + legs	\$4.55	yes	16	10	BTE
10 hp Air Joy Slushers	\$33.00	yes	2	9	Nelmaco
Slusher Buckets	\$3.00	yse	2	9	Nelmaco
Arkbro dbl drv raise climber (complete w/ rail)	\$568.67	yes		1	Arkbro
Arkbro sngl drv raise climber (complete with rail)	\$458.45	yes		1	Arkbro
Rail Package for OSMI raise climber	\$157.83	yes		1	Arkbro
22-B Mucking Machine Eimco Repair	\$25.00	yes	1	1	ME
21-B Mucking Machine Eimco Repair	\$39.00	yes	2	2	ME
12-B Mucking Machine	\$29.20	yes	4	4	ME
Shotcrete delivery car	\$55.88	no		1	ME

Table 16-10: Mining Equipment List – Existing and Additional

Source: OSMI/SRK, 2018

Table 16-11: Fixed Equipment – Existing and Additional

Area	Unit Cost (US\$000's)	Quoted (yes/no	Number Existing	Additional Number Required	Source / Supplier
Replacement Air Compressor (250 hp) RS1 851 IR	\$85.00	yes		1	Ingersoll Rand
Upgrade Underground Phone System	\$5.00	yes		1	United central
Air Doors	\$29.40	yes		3	American Mine Door
Fan Raise Bore 60 hp	\$15.00	yes		1	Spendrup
Fan Upper levels fans - 10 hp	\$40.50	yes	3	2	Spendrup
Fan #1 Shaft - 100 hp	\$22.50	yes		1	Spendrup
Fan 2350 Level - 80 hp	\$24.00	yes		1	Spendrup
Fan Lower Levels - 40 hp	\$16.00	yes		2	Spendrup
Central Water system at Terrible Decline	\$30.00	yes		1	Munroe
Powered Portable Turnout	\$16.70	yes	1	2	ME
Portal Heat Exchanger - Design	\$5.00	yes		1	Ingersoll Rand
Dump Wall Refurbishment	\$30.00	yes		1	Eng Estimate

Source: OSMI/SRK, 2018

Area	Unit Cost (US\$000's)	Quoted (yes/no)	Number Existing	Additional Number Required	Source / Supplier
Rail 4 Ton Locomotive rebuild and charger	\$30.00	yes	3	2	Philips
Rail 9 Ton Locomotive Diesel	\$105.00	yes	1	1	ME
Rail 4 Ton Granby Muck Cars Repairs	\$2.40	yes	32	16	ME
Rail 4 Ton Granby Muck Cars New	\$9.25	yes		15	ME
Rocker Dump muck car @ 26 cu ft 2 Ton.	\$5.69	yes	4	30	ME
Long Deck flat car Boggied	\$12.50	yes		1	ME
Small standard flat car	\$7.00	yes		4	ME
4 Ton Mancha trammer /w Battery and Charger	\$37.50	yes		4	ME
2 1/2 ton mancha battery-	\$10.00	no	1	6	Philips
4 ton battery motor rebuild	\$30.00	yes	1	1	Philips
2 1/2 ton mancha rebuild- 2 @ \$30,000 each	\$30.00	yes	1	1	Philips
Jim Crow rail bender	\$3.50	yes	1	3	Sunbelt.
Rail hole Punch	\$3.50	yes		1	Melcher
Maran Car	\$35.00	yes		1	ME

Source: OSMI/SRK, 2018

The key materials that are on site and to be added during the LoM are included and summarized in Table 16-13.

Area	Unit Cost (US\$000's	Quoted (yes/no)	Number Existing	Additional Number Required	Source / Supplier
8 in air line for mine - 4800 ft	\$115.00	yes	2,000	1	Munro
Track Jack 10 total @ \$1,100 each	\$1.10	yes	6	10	Melcher
Shotcrete rail set up and Shotcrete	\$15.00	no		1	In house
24" Vent Hard Line - 3000 feet plus fittings	\$50.10	yes	300	1	FnH
Rail Switches 40lb - 18 total (rail yard and intersection)	\$5.35	yes		18	Harmer Steel

Source: OSMI/SRK, 2018

16.6.2 Projects

The key underground projects, to be completed during the pre-production period are included in Table 16-14.

Table 16-14: Key Mine Projects

Area	Unit Cost (US\$000's)	Source
Raise Bore and Alimak Hek (inc materials supplied by OSM)	\$3,473.09	HWC -Bid
Rebuild # 1 Shaft and Hoist Installation (TBD on timing)	\$6,612.00	HWC -Bid
#1 and #1.2 Alimak with lateral development with hoist and materials	\$4,566.38	HWC -Bid
RaR #1 and #2 and Shaft Cave Rehab (total 275')	\$861.22	HWC -Bid
Source: OSMI 2017		

Source: OSMI 2017

The raise Bore Rehab and Elevator installation is discussed in detail in Section 18.2.5. The #1 shaft rehab is described in Section 16.8.1.

16.7 Ventilation

16.7.1 Initial Proposed Mine Layout

The LoM designs for the Revenue-Virginius Mine used for the ventilation work are shown in Figure 16-18. The mine is developed from the existing Revenue Tunnel in an area containing historical workings. There will be one set of working areas located near the existing portal called the Yellow Rose that will initially be developed with auxiliary ventilation until its own exhaust raise extends to surface. Additional workings will be developed at the end of the Revenue Tunnel to the north and south of the tunnel. The primary exhaust for these workings will be through an existing/rehabilitated raise bore that extends from the Revenue Tunnel Level (2000 Level) to surface. Because of the topography at the surface and lack of convenient access, the main exhaust fan will be located at the base of the exhaust raise bore underground. This necessitates the use of exhaust fans on the levels above the Revenue Tunnel Level (1800, 1200, 900, 600 levels) that break into the Exhaust Raisebore.



Source: SRK, 2017



16.7.2 Airflow Requirements

Ventilation work is based on the production schedule as discussed in Section 16.4. Currently the only diesel equipment that will be in use underground will be the main locomotive which travels the Revenue and Yellow Rose Tunnels. It was estimated that the locomotive engine would be at least 95 hp, similar to a Duetz F6L912W. This engine has an airflow requirement of 4.5 thousands of cubic feet per minute

(kcfm) for the dilution of diesel exhaust, however, it has a requirement of 25 kcfm for the dilution of diesel particulate matter (5 times the particulate index of 5 kcfm). Because this is the only diesel operating in the mine, as long as the airflow in the Revenue Tunnel is greater than 25 kcfm, there should be enough airflow for the locomotive. Additional airflow will be required to ventilate the stopes, ensure against recirculation, and to allow the simultaneous production in both the Revenue-Virginias mining area and in the Yellow Rose. The airflow through the stopes is based on maintaining a minimum air velocity of 100 ft/min across the stope. The value of 100 ft/min represents a velocity slightly above perceptible air movement and will aid in the flushing of blasting fumes and other contaminants. Table 16-15 shows the minimum airflow requirements.

Item	Qty	Power (hp)	Area (ft ²)	Factor	Airflow (kcfm)
Loaders					
Locomotive – In Revenue	1	95	N/A	DPM	25.0
Locomotive – In Yellow Rose	1	95	N/A	DPM	25.0
Working Area					
Stope	2	N/A	24	Velocity	7.2
Development (Track)	2	N/A	60	Velocity	12.0
Total					69.2

Table 16-15: Minimum Total Mine Airflow Requirements (Excluding Leakage)

Source: SRK, 2017

The value of approximately 70 kcfm represents a general or minimum airflow requirement. The actual airflow required for the mine is calculated through the process of developing a network model. With the network model the application of the airflow for each area can be identified. This network includes parallel airways (Yellow Rose and Revenue-Virginius), active stopes ventilated along with leakage through inactive stopes, and development headings.

The upper airflow limit for the main ventilation system will be the air velocity through the Revenue Tunnel. An air velocity limit of between 800 ft/min and 1,000 ft/min should be placed on the Revenue Tunnel. This relates to an airflow range of 72 kcfm to 90 kcfm as a maximum airflow for the mine. The tunnel section between the Yellow Rose and the Portal will experience the highest air velocity.

The Raisebore in the Revenue area will be used as an escapeway and will incorporate an Alimak type system for egress. The velocity of the airflow through this area should be limited to allow for safe egress. It is preferable to have the main exhaust fan equipped with a variable frequency drive (VFD) to decrease the airflow through the raise when personnel are present. A value of approximately 1,000 ft/min was used for this raise allowing for a maximum airflow of 50.3 kcfm for the Virginius and Terrible Veins.

16.7.3 Ventilation Model Development

The VnetPC Pro+ ventilation simulation software was used to generate the network models of the Revenue-Virginius Mine. The VnetPC Pro+ program is a software package designed to assist mine engineers in the planning of mine ventilation systems.

Page 217

Three network models were developed to represent the ventilation system for different time phases. Each model was used to determine the maximum or worst-case sizing for fans, airways, and configurations. The three scenarios modeled are:

- Month 23 mining in Virginius North with two stopes, and development in Virginius South;
- Month 35 Alimak development in Yellow Rose, mining in Virginius North, and mining in Virginius South; and
- Month 65 worst case LoM with mining and development in Yellow Rose, mining in Virginius North, and development in Virginius South.

The resistance values for the branches in each ventilation model were calculated using friction factors drawn from data gathered under similar conditions for the entries and based on the drift dimensions and airway type. Shock losses at bends, inlets, and exhausts were accounted for by adding appropriate shock loss factors to the airway resistances where necessary. A list of the various friction factors used in the creation of the models in this study is provided in Table 16-16. These friction factors are provided using the mine density (approximately 0.052 lb/ft³).

Airway Type	Friction Factor (lbf min ² /ft ⁴ x10 ⁻¹⁰)	Approximate Dimensions (ft)
Revenue Tunnel ⁽¹⁾	45	89.7 ft ² (existing)
Scram	75	3 x 8
Level Development	65	7 x 9
Bored Raise ⁽¹⁾	55	8 (existing)
Access Raise	125	6 x 6 and 8 x 8
General Stope Raise	125	6 x 8
Hoist Raise	80	10 x 14

Table 16-16: Airway Friction Factors

Source: SRK, 2017

(1) Friction factors measured during the 2015 site visit

Month 23 Ventilation Layout and Modeling

The Month 23 time frame supports two actives stopes (900 Level and 600 Level) and two active development headings (2350 Level Rail and Scram). This represents the first occurrence where there is a major airflow requirement in Virginius South in addition to the continued mining in Virginius North. Figure 16-9 shows the layout in Month 23.



Source: SRK, 2017

Figure 16-19: General Layout for Month 23 Time Frame

To provide airflow to the 2350 Level to support the development activities a system of auxiliary ducts can be used to draw airflow from either the shaft or an abandoned ore pass. These systems are described in Figure 16-20 and Figure 16-21.

The shorter auxiliary ventilation ducts shown in Figure 16-21 will provide both easier to maintain and have a greater likelihood of successfully supplying the face with fresh air. However, due to the unknown condition of the abandoned ore pass the auxiliary ventilation systems fed from the shaft are used for this study. This system is detailed out in Section 16.7.5.



Source: SRK, 2017

Figure 16-20: Month 23 South Side Auxiliary Ventilation Systems, Option 1



Source: SRK, 2017



Month 35 Ventilation Modeling

The development of the initial Yellow Rose Alimak and loading station will require the locomotive to enter the Yellow Rose access drift. Because the ventilation system will need to fully support the

locomotive, a more significant auxiliary ventilation system will be required until the Alimak can be extended to surface. This system is detailed out in Section 16.7.5.

Active development in the Virginius Vein (2350 Level) will require ventilation using a similar scheme to what is shown in Figure 16-20 or Figure 16-21. A booster fan located at the Alimak raise at the end of Virginius South will be used for ventilation after connection of Alimak between levels. Figure 16-22 shows the layout in Month 35.



Source: SRK, 2017

Figure 16-22: General Layout for Month 35 Time Frame

Month 65 Ventilation Modeling

The Month 65 ventilation model represents a steady production case with active mining in both the Virginius Vein (one stope) and in the Yellow Rose Vein (one stope), along with development activities in both the Revenue and Yellow Rose. During this time the air velocity between the portal and mill spur will be at its greatest, approximately 1,133 ft/min. The 225 ft section of airway between the mill spur and Yellow Rose access will have an airflow of approximately 100 kcfm resulting in a velocity of 1,275 ft/min. The model was developed with the Revenue Tunnel portal doors open which minimizes the differential pressure experienced across the mill access doors (The portal doors were modeled open for all time phases). The overall layout of the mine during this time frame is shown in Figure 16-23 and the overall airflow distribution is shown in Figure 16-24.

The exhaust from the lower areas could be enhanced through the addition of an exhaust booster fan at the top of Alimak 2400N. This would pull the exhaust airflow from the 2700 Level development and Shaft 1 bottom through the abandoned stope area to the exhaust side of Alimak 3 on the Revenue Tunnel Level. However, for this study the booster fan was not installed. There will be a small amount of airflow from the 2700 Level development that upcasts Shaft 1 to the Revenue Tunnel Level. Because of the placement of the Shaft 1 fan it will not get re-entrained or recirculated, but it will join the airflow on the Revenue Tunnel Level flowing toward the Alimak 1 intake to the upper workings.





Figure 16-23: General Layout for Month 65





Figure 16-24: Revenue Area Airflow Distribution

There will be several ventilation challenges with respect to the production and development activities during this stage. The development of the 2700 track and scram drifts will require significant duct installation. This design is detailed in Section 16.7.5. The ventilation of this area was analyzed separately and consists mostly of auxiliary systems. This auxiliary ventilation system will be required until the Alimak at the end of the level is developed. This system will be similar to the systems used for the 2350 South (Month 23), and 2400 North (Month 29). To supply fresh air to the development face, a fan will need to draw fresh air from the 2350 Level through Shaft 1 to the face with the exhaust

air being drawn up Shaft 1 to the 2400 Level then back up to the Revenue Tunnel Level to the Raisebore.

The production area on the 1200 Level (2750n), shown in Figure 16-24: Revenue Area Airflow Distribution, has only one access which will not allow for a flow through ventilation system to be developed. The ventilation of this area would use a duct which draws air out of Alimak 4 and passes it to the scram extension. This will minimize the length of duct to be used for this stope and will minimize the duct in the track drift. This will require approximately 225 ft of duct (30 inch diameter duct was assumed) with an auxiliary fan mounted on the fresh air side of the exhaust raise. The fan will draw the fresh air into the stope and the air will be exhausted back to the raise by the level booster fan. The fan forcing airflow through the duct would be similar to the level booster fan.

The ventilation of the Yellow Rose stope 1, shown in Figure 16-25, will be very straight forward in that there is a fresh air raise at one end of the level and an exhaust at the other end. Air will naturally flow up the raise, and across the stope. For the airflow to be diverted into the stope, a curtain will need to be installed on the exhaust side of the carried stope access raise. The development of the level/scram will require a duct installation.



Source: SRK, 2017

Figure 16-25: Yellow Rose Stope and Development Ventilation Layout

The fans listed in Table 16-17 will be required for this scenario. The costing values were provided by Spendrup Fan Company and include starters, silencers, inlet cones, and discharge cones.

				Fan Requireme							
System	Delivered Airflow (kcfm)	Duct	Airflow (kcfm)	Pressure (inches water guage)	Power - 50% Efficiency (hp)	Cost (US\$)	Vender				
Revenue Working Area											
Shaft 1	20			See S	Section 16.7.5	5					
2700 Level(S)	6			See S	Section 16.7.5	5					
600 Level	5	n/a	5.0	1.6	3	14,795	Spendrup 063-040-1800 10 hp				
900 Level	5	n/a	5.0	1.6	3	14,795	Spendrup 063-040-1800 10 hp				
1200 Level	10	n/a	10.0	1.7	6	14,795	Spendrup 063-040-1800 10 hp				
1200 Level (Bypass Duct)		30 in 225 ft	8.0	1.2	3	14,795	Spendrup 063-040-1800 10 hp				
1800 Level	Off/Sealed	n/a	n/a	n/a	n/a	n/a	n/a				
Main Exhaust Fan - Revenue	35.0	n/a	35.0 50.0	2.9 3.1 (1.0 for losses)	32 50	28,617	Spendrup 112-060-1800 60 hp				
Yellow Rose Working	g Area										
Level Development Fan		24 in 830 ft	7.5	6.1	15	19,807	Spendrup 063-040-3600-A-1- D 40 hp				
Main Surface Fan			50.0	1.4 (collar) Add 1.0 for Inst.	40	28,617	Spendrup 112-060-1800 60 hp				

Source: SRK, 2017

16.7.4 Staged Modeling Main Fan Results

The main fan located at the bottom of the exhaust raise bore will see operating points ranging from 50 kcfm at 2.6 inches water guage (w.g.) to 35 kcfm at 1.9 inches w.g. as shown in Table 16-18, depending on the stage of mine development. Main fan pressure and quantity is lower after the Yellow Rose Alimak and Fan are operational in year 4.

Table 16-1	8: Main	Fan O	perating	Points
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Year	Pressure (in. w.g.)	Quantity (kcfm)
Year 2	2.5	50
Year 3	2.6	50
Year 5	1.9	35

Source: SRK, 2017

16.7.5 Specific Area Ventilation Requirements

Because of the long development drives required for the track development, several areas will require special design and infrastructure requirements when planning their construction.

<u>Shaft 1</u>

Shaft 1 will need a dedicated ventilation system both during the rehabilitation and during normal operations. A 30-inch diameter rigid duct (steel or fiberglass) is suggested to draw air from the

Revenue Tunnel Level down to the base of Shaft 1. The air will then exhaust back up Shaft 1 and depending upon the time frame will either exhaust on the Revenue Tunnel Level, 2350 Level, or 2400 Level. Only one level will be developed and ventilated at a time. The rigid duct will be required so that the level ventilation system will not collapse the Shaft 1 duct, and to increase the wear resistance of the duct installed in an operating shaft. Once development is complete the duct will be recovered from the track development. The airflow requirement for the Shaft 1 duct will be established by perceptible movement of air at the shaft base (60 ft/min) added to the airflow requirement for one track development heading. The costing values shown in Table 16-19 were provided by Spendrup Fan Company and include starters, silencers, inlet cones, and discharge cones. Shaft 1 duct configuration is shown in Figure 16-26.

			F	an Requirer	nent		
System	Delivered Airflow (kcfm)	Duct	Airflow (kcfm)	Pressure (in. w.g.)	Power – 70% Efficiency (hp)	Cost (US\$)	Vender
Shaft 1	20	30 inch Rigid 970 ft	24	12.6	70	37,080	Spendrup 100-060-C-2-D 100hp
2350 Level (S)	6	30 inch Bag 3500 ft	14.5	16.0	50	32,897	Spendrup 063-040-3600-A-3-D 2 Stage 80 hp Total
2400 Level (N)	6	30 inch Bag 2250 ft	10	7.0	16	19,807	Spendrup 063-040-3600-A-1-D 40 hp
2700 Level	6	30 inch Bag 2250 ft	10	7.0	16	19,807	Spendrup 063-040-3600-A-1-D 40 hp

Source: SRK, 2017



Source: SRK, 2017

Figure 16-26: Shaft 1 Duct Configuration

Early Development 1200 Level and 1800 Level

The 1800 Level and the 1200 Level will be developed simultaneously from an Alimak. It was assumed that Alimak 2 could be used for access and ventilation, and Alimak 3 could be used for development muck handling (and exhaust between 1800 Level and 1200 Level, the base is assumed to be filled with muck). Alimak 1 would also be used for exhaust as it connects to the levels. For the development of the two levels a fresh air fan was assumed to be installed on the Revenue Tunnel Level, 50 ft from the Alimak, forcing airflow through a duct up to the two levels. The single fan location was selected so that additional power would not need to be installed through the Alimak during construction/development. The general level ducts are shown in Figure 16-27. The costing values shown in Table 16-20 were provided by Spendrup Fan Company and include starters, silencers, inlet cones, and discharge cones.



Source: SRK, 2017

Figure 16-27: 1200 and 1800 Level Ducts

			Fan Requirement				
System	Delivered Airflow (kcfm)	Duct		Pressure (in. w.g.)	Power - 70% Eff. (hp)	Cost (US\$)	Vender
Upper Areas 1800L	3.8 65 ft/min	30 inch Bag 1,100 ft Regulated	n/a	n/a	n/a		
Upper Areas 1200L	3.8 65 ft/min	30 inch Bag 1,000 ft 36 inch Bag 100 ft	n/a	n/a	n/a		
Alimak 2	10 on 1800L 9 on 1200L	36 inch Bag 790 ft	n/a	n/a	n/a		
Revenue Tunnel Level Aux Fan	n/a	n/a	35	7.3	60	37,080	Spendrup 100-060-C-2-D 100hp

Source: SRK, 2017

The delivered airflow to the 1800 Level and the 1200 Level is below the required 6 m³/s, however, a reasonable velocity can still be achieved, and this will be the greatest length of development encountered. This represents the system just before the breakthrough into the exhaust. Once one level is broken into the exhaust raise and the level fan is installed the auxiliary ventilation system can be configured to support the remaining level still under development.

Yellow Rose Auxiliary Ventilation

The Yellow Rose development area will require an auxiliary ventilation system to be installed to support the diesel locomotive. The system installed during the 2015 site visit was not adequate and will need to be upgraded. The costing values shown in Table 16-21 were provided by Spendrup Fan Company and include starters, silencers, inlet cones, and discharge cones.

Table 16-21: Yellow Rose Main Duct

	Delivered			Fan Requir	ement		
System	Airflow (kcfm)	Duct	Airflow (kcfm)	Pressure (in. w.g.)	Power - 70% Eff. (hp)	Cost (US\$)	Vender
Yellow Rose Haulage	25	42 inch Bag 2345ft	32	18.2	n/a	65,160	Schauenburg 100-060-1800-C-2-D 200hp Total (x2)

Source: SRK/Spendrup, 2017

Coarse Ore Bin and Crusher Gallery Connection to Revenue Tunnel

During pre-production development of the mine and prior to the ventilation raise rehabilitation and subsequent installation of the fan at the base of the raise, the crusher gallery and coarse ore bin will allow leakage of forced ventilation from the fan at the portal to short circuit through the mill. An air door will be required at the Revenue tunnel junction with the track into the coarse ore bin. Once fans are set at the base of the ventilation raise this air door should still remain in place in case of fire in the mill so that it may be sealed off from the mine workings.

16.8 Mine Services

16.8.1 Hoisting

The existing #1 shaft will be refurbished and a production hoist for men, materials, and production will be installed. OSMI retained Harrison Western Construction Corporation (HWC) to provide engineering on the hoist system. HWC completed the engineering in 2016 and multiple bids were received for the rehabilation work. The hoist is designed to have a capacity of move 30 to 35 st/h when hoisting from the 2700 level. This is lowest level currently in the mine plan. The contract rate is estimated at eight productive hours per 10 hour shift.

SRK assumes conservative average of five productive skipping hours per shift, which allows for ten skipping hours per day and equates to 300 to 350 st/d. This is 20% to 30% over the current plant planned production of 270 st/d. Additionally, the system will have a greater capacity at levels above the 2700.

The hoisting system will include the 500 hp 96 inch diameter hoist, underground headframe and sheave, skip dumping pocket at the 2000 level, shaft guides, 7/8 inch diameter wire rope, 1.5 st skips and man-cage. Loading pockets will be established or rehabbed on all production levels 2210, 2350, and 2700 levels.

The hoist will be staffed by a hoistman and a skip tender that will assist on the level that is being loaded.

16.8.2 Compressed Air

The mine production equipment is primarily air powered. The current air equipment includes slushers, jack leg and stoper drills, overshot muckers, air tuggers, air slushers, air operated chutes, air operated pumps, and miscellaneous air operated tools. The existing compressed air system and modifications is discussed in detail in Section 18.2.7 and as upgraded will be sufficient for the needs of the mine.

16.8.3 Dewatering

Mine dewatering is only required below the shaft collar. The Revenue Tunnel is driven at a gentle uphill grade to the shaft and each direction (north and south) on vein allowing gravity drainage. All levels above the tunnel level will self-drain through raises to the tunnel level. For level accessed via shaft below tunnel level will be dewatered via electric pumps located in the shaft sump. The shaft pumps will pump into the partially completed Terrible decline where a central water system will be constructed that will feed water to various locations around the mine for use by mining crews. Automated valves will control water from the central system when coffer dams for mine stoping use reach low levels. Excess water from the Terrible sump will overflow back into the main Revenue Tunnel and out to the portal where it is treated in the bio-reactive passive treatment system as described in the Section 18.2.6.

16.8.4 Electrical

The underground electrical supply initiates in the Project substation transformer and is provided by a power line (4,160 V) suspended from the back in the main haulage to the mine workings in the Yellow Rose and Virginius areas. Further discussion is located in Section 18.2.8.

16.8.5 Health and Safety

The mine has an emergency escape plan (SMO escape plan 3-11-14) which has been accepted by MSHA. There is a refuge station and first-aid/lunch room in both the Yellow Rose and Virginius sections of the mine. A stench warning system is installed on the compressed air line entering the mine as well as the air intake for the mine ventilation. Underground communications consist of mine telephones at key locations; future plans are for the mine supervisors to also have hand-held radios.

In the Virginius section of the mine, an 8 ft diameter raise ventilation borehole (Hubb-Reed raise) has been installed from the Virginius haulage level to surface as will be rehabilitated with an Alimak Hex as described in detail earlier in this report. The 1,465 ft long raise borehole acts as an exhaust vent and has a working man-lift conveyance for emergency egress. In the Yellow Rose, a secondary escape-way will be developed to the surface.

A tag in/tag out board is used at both portals. All underground personnel are issued with portable selfrescuer units. A total of 12 Ventis MX4 portable gas detectors are at the mine and made available for use in underground and confined space entry. The mine's current policy is that at least one person in each working area of the underground mine will carry a MX4 detector. The alarms have been set on these detectors to go off at 35 ppm CO, 19.5% oxygen, 3 ppm NO₂, and 10% LEL. The safety department also has two Ibrid MX6 gas detectors – one set up for Oxygen, CO, H₂S, and LEL and the other set up for oxygen, CO, SO₂, H₂S, and LEL. The latter is equipped with a pump. All pumps are on a regular calibration schedule.

OSMI currently has one qualified Mine Rescue Team and has an agreement in place with the San Juan Mine Rescue in order to meet MSHA small mine criteria.

16.8.6 Mining Labor

The mining labor will consist of a supervisory team including a Mine Manager, Mine Superintendent, and Shifters. The mine team will be supported by a Mine Engineer, Geologist, Jr. Geologist, Sample Geologist, Surveyor and Surveyor Assistant. The labor force will consist of three levels of miners, trammers, tramming assistances (swampers), hoistmen, skip tenders, and a bullgang (general maintenance underground miners). Maintenance duties will be provided by mechanics and electricians that provide overall maintenance support to the mine, processing plant, and surface facilities associated with the Project. The management team will be on straight day shift with the shifters and mining labor on a rotating 10 hour shift two shifts per day. Table 16-22 shows the mining and technical team supporting mining. The mine will have approximately 19 personnel rotating on shift with the support of the bull gang personnel who work a straight night shift schedule. The total mining staff is 90 people.

Page	228
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Position	# of Staff	
Technical		
Mine Engineer	1	
Geologist	1	
Jr. Geologist	1	
Sample Geo	1	
Surveyor	1	
Surveyor Assistant	1	
Mining		
Mine Manager	1	
Mine Superintendent	1	
Shifter	4	
Miner I	16	
Miner II	20	
Miner III	20	
Trammer	4	
Swamper	4	
Hoistman	4	
Skip Tender	4	
Bull Gang	6	

Table 16-22: Mining Personnel Position and Number

Source: OSMI 2017

16.8.7 Grade Control

As part of the routine mining sequence OSMI will be required to complete a grade control program to monitor the mining production. The aim of the grade control program is to deliver the most economic tons to the mill via accurate definition of "ore" and waste. The basis of a successful program in an underground environment will be via detailed geological mapping and quality sampling ahead of the mining. For underground operations sampling methods include chip, channel and panel samples, grab/muck pile samples, and drill-based samples.

Grade control will be conducted on a daily basis with the geology team by the junior geologist and sample geologist, taking lead responsibility to delineate the vein, obtain samples for testing, and to update and correlate the database with production data to improve prediction of production grades.

The current proposed mining methods will result in scram developments that are approximately 300 vertical ft apart along the vein structure. This will enable channel sampling to be completed at regular intervals. The current sample spacing within the mine is in the order of 6 to 10 ft, which SRK considers to be reasonable spacing for this style of deposit. Samples should be taken across the full width of the vein with sufficient volume taken to ensure accurate assay. The aim of the sampling interval. The channel samples should be logged geologically marking the width of the vein and any hanging wall or footwall mineralization. SRK envision that the samples should be processed at an onsite facility to enable quick turnaround.

Understanding variations led by clear and accurate mapping will be important, as veins can show features relating to erratic grade distribution (nugget effect), and variable geometry. These features include variations in dip, strike and width, late-stage faulting/shearing effects and vein continuity and type. SRK assumes the mine geologist will perform daily mapping of each back, as well as define the ore/waste contact for the mining teams. The daily mapping should be incorporated into a digital format to further improve the geological model and enable the development of short term estimation.

The geological team will provide calls of resue ore/waste shots pre-shot, post ore-shot inspection and muck sampling and reconciliation between stope muck, mill feed head grades and processing mass balance. Photos and digitized measurements will be used whenever available.

Once the 3 ft wide by 8 ft high scram drift has been established the mining sequence will involve drilling and blasting initially of the defined vein material, followed by the waste in a separate blast. As the mine face develops it is estimated that the stope working environment will have closer to 1.5 ft by 6 ft wide, which will make sampling difficult, resulting in grab sampling as the most likely form of sampling to test stope grades. Grab sampling can result in selection bias if not conducted following a routine defined protocol.

SRK recommends that OSMI create a series of protocols to cover all grade control tasks from mapping to sampling and integration with the database. On-going quality assurance/quality control monitoring and review will allow protocols and staff to be updated as required.

17 Recovery Methods

The existing lead and zinc recovery concentrator processing plant has been designed into four specific processing areas. The first processing area consists of several stages of crushing and comminution for particle size reduction resulting in mineral liberation required for the next stages of upgrading for select targeted metals. The next two areas are identified as multiple stages of selective flotation processes to recover and increase concentrate grades for lead and zinc metal from the process slurry. The final stage of this process is the concentrate dewatering and filtration area and product storage prior to shipping. The waste material from the process with be filtered, transported, and stored in a dry stack tailings facility.

17.1 Operation Results

The existing processing facility was designed by CH2MHill and operated from 2013 to 2015. The existing process experienced a number of issues and requires reconfiguration and upgrades in order to produce the desired products at the rates and mill feed head grades envisioned in this report. The primary issues experienced from the original design included:

- Ore variability;
- Blasting method required excess processing of waste material; and
- Physical characteristics (stickiness) of the ore which led to plugging issues in the various material handling systems.

Lycopodium Minerals Canada, Ltd. (Lycopodium) and SRK were hired to study process upgrades in 2016. Lycopodium produced a separate report, which was then incorporated into a PFS report authored by SRK (SRK, 2016; Lycopodium, 2016). Both reports were completed in mid-2016. These PFS reports describe the basic process upgrades envisioned, the testwork that was used as a basis of design, and the capital and operating cost associated with the process upgrades.

In early 2017, Barr was hired to further the process design originated by Lycopodium and to complete design of the process and capital improvements in the processing area to a level sufficient for OSMI to solicit bids for construction.

Barr reviewed the Lycopodium report and other referenced reports. OSMI also provided further direction to Barr regarding their desired processing methods, equipment, and products. Barr then completed a mineral process model using simulation software. The process design completed by Barr is described in the balance of this section. Capital costs for the processing plant upgrades in Section 21.1 are based upon contractor bids received in May 2017 for the engineering design completed by Barr. Operating costs for the upgraded processing plant in Section 21.2 are based upon the process described in this section, vendor information for consumables, and first principles.

The main differences between the 2016 Lycopodium report (Lycopodium, 2016) and the completed process model developed by Barr include:

- 12 inch grizzly added ahead of the RoM ore dump pocket;
- Screw conveyor feed to the ball mill was added;
- Lead/copper flotation concentrate separation circuit was eliminated;
- Increased flotation capacity and retention time to improve recovery and concentrate grades;
- On-line stream analyzing was eliminated;

- Process flow sheets adjustments based on new laboratory testing by FLSmidth (FLSmidth, 2017, FLSmidth2, 2017);
- Improvements to the primary and secondary grinding circuits for material transfer and storage;
- Improvements to the storage capacity of final concentrate prior to material filtering; and
- Bridge crane added in the crushing and rod mill area to improve maintenance and operation needs.

17.2 Processing Methods

The process plant consists of the following principal process areas (each described in more detail in the subsequent sub-sections). While the detailed design of the process upgrade completed by Barr in 2017 was for an instantaneous feed to the rod mill of 13.0 mt/h (14.4 st/h), values in this report have been adjusted for an annualized design throughput of 91,390 st/y.

- ROM Storage and Crushing (section 17.2.2);
- Primary Rod Milling (section 17.2.3);
- Secondary Ball Milling (section 17.2.4);
- Bulk Lead Rougher Flotation (section 17.2.5);
- Zinc Rougher Flotation (section 17.2.6);
- Lead Cleaner Flotation (section 17.2.7);
- Zinc Cleaner Flotation (section 17.2.8);
- Lead Concentration Thickening and Filtration (section 17.2.9);
- Zinc Concentration Thickening and Filtration (section 17.2.10);
- Tailings Thickening and Filtration (section 17.2.11);
- Reagent Mixing, Storage and Distribution (section 17.2.12);
- Raw Water Storage and Distribution (section 17.2.13);
- Process Water Storage and Distribution (section 17.2.14); and
- HP and LP Air Services (section 17.2.15) .

The primary products from the process plant include:

- A lead concentrate, in which will also be recovered up to 95% of the silver and 68% of the gold and 91% of the copper;
- A zinc concentrate with minor amounts of silver and gold; and
- A dewatered and filtered tailings for disposal.

A simplified flowsheet with the principal process areas is shown in Figure 17-1.

SRK Consulting (U.S.), Inc. NI 43-101 Technical Report, Feasibility Study, Revenue – Virginius Mine



Source: SRK, 2017



17.3 Process Design and Flowsheet

The following process design assumptions are taken from the Lycopodium report (Lycopodium, 2016), and updated where Barr's process design impacted the descriptions:

- The feed rate and ore grades were provided by OSMI;
- Key ore characteristics provided in the design criteria have been determined by testwork, or where absent, taken from similar ore types and previous experience. The design criteria were built upon the design basis previously completed by Lycopodium and updated where needed based on additional information;
- The crushing circuit will consist of a Metso C80 primary jaw crusher feeding a scalping screen in front of a secondary McLanahan 1248 jaw crusher producing a rod mill feed with F80 = 0.9 inch;
- The grinding circuit consists of a rod mill in an open circuit feeding a closed ball mill circuit producing a P80 of 130 µm. There is a surge tank between the rod and ball mill circuits to buffer out the availability difference between crushers/rod mill and the downstream ball mill circuit and flotation. The ball mill is in a closed circuit with a Derrick Flo-line screen;
- The primary Pb flotation circuit consists of a pre-conditioning tank prior to the Pb roughers and two stages of rougher scavenger flotation. This is followed by three stages of Pb cleaners including a final column flotation cell. The lead concentrates from the final stage of flotation are sent to a thickener for dewatering prior to filtration;
- The primary Zn flotation circuit consists of two pre-conditioning tanks prior to the first stage of rougher flotation. The rougher circuit consists of three stages of flotation including two stages of rougher scavengers. The rougher circuit is followed by three stages of Zn cleaners including a final column flotation cell. The Zn concentrate from the final stage of flotation is sent to a thickener for dewatering prior to filtration;
- Both concentrates are dewatered in their own dedicated thickener; the recovered water is sent to the filtrate tank. The concentrate thickener underflow is sent to a filter feed tank and dewatered in a vertical plate filter press to produce filter cake. All concentrates are bagged using a screw conveyor and bagging system; and
- The final tailings from the zinc flotation circuit are sent to a thickener for dewatering. The thickener underflow is sent to a filter feed tank and dewatered in a vertical plate filter press to produce dewatered tailings to be dry stacked.

The key process design criteria listed in Table 17-1 form the basis of the detailed process design criteria and mechanical equipment list (SRK, 2016).

Criteria	Units	Primary	Source
Mill Days per Year	days	365	OSMI
Mill Utilization	%	98	OSMI
Mill operating days per year	days	358	OSMI
Mill planned downtime	days	12	OSMI
Mill planned operating time	days/yr	346	OSMI
Planned availability	%	97	OSMI
Unplanned downtime:	%	2	OSMI
Unplanned down days:	days	8	OSMI
Total operating days per year	days	337.4	OSMI
Total operating time per year	%	92	OSMI
Plant Capacity per operating day ⁽¹⁾	st/d	270	OSMI
Annual Throughput ⁽¹⁾	st/y	91,390	OSMI
Copper Head Grade	% Cu	0.15 to 0.47	OSMI
Lead Head Grade	% Pb	3.1 to 7.2	OSMI
Zinc Head Grade	% Zn	1.2 to 2.7	OSMI
Lead Recovery	%	94.7	Testwork
Zinc Recovery	%	73.2	Testwork
Crushing / Rod Mill Availability	%	80	OSMI
Process Plant Availability	%	92	OSMI
Crushing Work Index	kWh/st	14.4	Testwork
RWi	kWh/st	15.1	Testwork
BWi	kW/h/st	16.2	Testwork
Abrasion Index	g/rev	0.2669	Testwork
Drop Weight Axb		37.5	Calculated
SG		2.70	OSMI
Grind Size (P80)	μm	130	Testwork
Lead Conc. Grade ⁽²⁾	% Pb	65	SRK –Sec13.4
Zinc Conc. Grade ⁽²⁾	% Zn	54	SRK Sec13.4
Lead Metal Production	st/y	6,850	Calculated
Zinc Metal Production	st/y	1,367	Calculated

Table 17-1: Key Process Design Criteria Parameters

(1) Plant capacity per operating day and annual throughput match the mine plan. Instantaneous processing rates for the processing plant equipment exceed the mine plan capacity. The crusher and rod mill are sized for 14.4 st/h, and the remainder of the process is sized for 12.5 st/h.

(2) Process testing (FLSmidth 2017) indicates that the concentrate grades listed are achievable, but the engineering design work completed by Barr and used for equipment design considered both normal and maximum flows (+27%)

17.3.1 Run-of-Mine Storage and Crushing

RoM ore will be delivered to the ore dump pocket by rail haulage from the underground mine and dumped onto a grizzly with 8 inch openings. A small rail mounted trackhoe with a hydraulic pick will be used to break oversize rock which remains on the grizzly. RoM ore will be drawn from the dump pocket, at a controlled rate, by a variable speed apron feeder and discharge onto the RoM ore conveyor. A static magnet, located at the head of the conveyor, will remove all tramp metal from the jaw crusher feed. The existing single-toggle primary jaw crusher will operate in open circuit. Dust control (suppression) will be provided local to the crusher.

The primary crusher product will discharge onto the secondary crusher feed conveyor, which will convey the ore onto a scalping screen prior to feeding into the open circuit secondary jaw crusher. The secondary jaw crusher product will discharge onto the rod mill feed conveyor, which will be equipped with a weightometer for mass flow rate measurement and control. The weightometer will indicate the instantaneous and totalized rod mill feed rate. Dust control (suppression) will be provided locally to the secondary crusher.

A local spillage pump will return all crushing area spillage to the rod mill discharge storage tank.
17.3.2 Primary Rod Milling

The primary grinding circuit will consist of a rod mill operating in open circuit. The secondary jaw crusher product will constitute the rod mill feed. The rod mill feed rate will be controlled via the variable-speed RoM ore apron feeder.

Process water will be added to the rod mill feed chute in order to achieve the required slurry density. Slurry will discharge from the rod mill through the rod mill trommel screen and flow to the rod mill discharge pump box. The slurry will be diluted further with process water prior to being pumped to the rod mill discharge storage tank, which provides an approximate four- hour operating buffer between the rod and ball mill grinding circuits. Grinding rods will be located on the rod charger prior to mill charging.

A dedicated rod charger will be provided to assist with the required rod charging activities. The charging of the rod mill will require a mill grindout and shutdown prior to the rod charge. Once the rod mill is shutdown the mill can be manually charged with new grinding rods. Broken rod chips or spent rods will discharged from the rod mill from the trommel screen.

A dedicated sump pump will return all primary milling area spillage to the rod mill discharge pump box.

17.3.3 Secondary Ball Milling

The secondary grinding circuit will consist of a ball mill operating in closed circuit with a Derrick screen. Slurry from the rod mill discharge storage tank will be transferred at a controlled mass flow rate to the Derrick screen feed pump box.

Process water will be added to the ball mill feed chute in order to achieve the required slurry density. The depressants, sodium metabisulfite and zinc sulfate, will be added to the ball mill feed chute also. Slurry will discharge from the ball mill through the ball mill discharge trommel screen and flow to the Derrick screen feed pump box. The slurry will be further diluted with process water prior to being pumped to the Derrick screen feed distributor by the Derrick screen feed pumps, which will be installed in a duty/standby arrangement.

The Derrick screen will separate the slurry by size into fine and coarse fractions. The coarse screen oversize stream will be recycled back to the ball mill for additional grinding. The fine screen undersize product, with a nominal pulp density of approximately 30% solids by weight, will report to the Pb Rougher conditioning tank.

The existing overhead crane will be used to transport new grinding media to the wet screen floor above the ball mill. The grinding media will be manually charged into the ball mill through a dedicated ball charge chute. A dedicated sump pump will return all secondary milling area spillage to the Derrick screen feed pump box.

17.3.4 Bulk Lead Rougher Flotation

The bulk lead rougher flotation circuit will consist of a new 106 ft³ (3 m³) agitated rougher conditioner tank followed by a new, single 177 ft³ (5 m³) tank type flotation cell and six existing 60 ft³ (1.7 m³) trough-type flotation cells in series.

Derrick screen undersize will flow via gravity into the rougher conditioner tank. Reagents such as collector and depressants will be added to the rougher conditioner tank along with process water for

dilution to the required slurry density. Frother will be added to the feed box of the rougher flotation cells.

Low-pressure or self-aspirated air will be supplied to each flotation cell. The air flow to each cell will be controlled by vendor-supplied instrumentation or manually adjusted by the operator. Similarly, cell levels will be controlled by vendor-supplied instrumentation. Launder and sump water sprays will be provided to assist in discharge of concentrate from launders and froth breakdown.

Rougher concentrate will report to the rougher concentrate sump and pumps, which will deliver slurry to the lead cleaner circuit. Rougher tailings will be pumped to the zinc rougher circuit conditioner tank number 1.

Spillage from the lead rougher circuit will be directed to rougher sump and pumped to the lead rougher conditioning tank or to the zinc rougher conditioning tank.

17.3.5 Zinc Rougher Flotation

The zinc rougher flotation circuit will consist of two, new, 124 ft³ (3.5 m³), agitated-rougher conditioner tanks followed by a new, single, 177 ft³ (5 m³), tank-type flotation cell and six, existing, 60 ft³ (1.7 m³), trough-type flotation cells in series.

Tailings from the bulk lead rougher flotation circuit will be pumped to the first zinc rougher conditioner tank. Within the first conditioning tank, hydrated lime will be added to adjust the operating pH. Copper sulfate activator and zinc collector will be added in the second conditioning tank. Frother will be added to the feed box of the rougher flotation cells.

Low-pressure air or self-aspirated air will be supplied to each flotation cell. The air flow to each cell will be controlled by vendor-supplied instrumentation or manually controlled by the operator. Similarly, cell levels will be controlled by vendor-supplied instrumentation. Launder and hopper water sprays will be provided to assist in discharge of concentrate from launders and froth breakdown.

Rougher concentrate will report to the rougher concentrate sump and pumps, which will deliver slurry to the zinc cleaner circuit. Zinc rougher tailings will be pumped to the final tails thickener.

17.3.6 Lead Cleaner Flotation

Upgrading of the bulk lead rougher concentrate will be achieved utilizing three stages of cleaning. The first-stage lead cleaner flotation circuit will consist of one, new, 177 ft³ (5 m³), tank-type flotation cell and two, existing, 16 ft³ (0.4 m³), trough-type flotation cells in series. Similarly, the second-stage lead cleaner flotation circuit will consist of one, new, 177 ft³ (5 m³), tank-type flotation cell and two, existing, 16 ft³ (0.4 m³), trough-type flotation cells in series. The third-stage cleaner circuit will consist of one column flotation cell.

Concentrate from the bulk lead rougher flotation circuit will be pumped to the lead cleaner tank cell. Reagents, including collector and frother, will be added to the feed box of the cleaner tank cell, as required.

Low-pressure air or self-aspirated air will be supplied to each flotation cell. The air flow to each cell will be controlled by vendor-supplied instrumentation or manually controlled by the operator. Similarly, cell levels will be controlled by vendor-supplied instrumentation. Launder and hopper water sprays will be provided to assist in discharge of concentrate from launders and froth breakdown.

Cleaner 1 concentrate will report to the cleaner 1 concentrate sump and pumps, which will deliver slurry to the column cleaner circuit feed distribution box. Cleaner 1 tails will gravitate to cleaner 2. Cleaner 2 concentrate will report to the cleaner 1 concentrate sump. Cleaner 2 tails will gravitate to the cleaner tails sump, from which it will be pumped to the lead rougher conditioner tank.

Concentrate from the cleaner 1 and cleaner 2 circuits report to the column cleaner circuit, via the column cleaner feed distribution box. Column cleaner concentrate is pumped to the lead concentrate thickener. The column cleaner tails are pumped to the lead cleaner flotation tank cell #1.

17.3.7 Zinc Cleaner Flotation

Upgrading of the zinc rougher concentrate will be achieved by utilizing three stages of cleaning. The first-stage zinc cleaner flotation circuit will consist of two, existing, 16 ft³ (0.4 m³), trough-type flotation cells in series. Similarly, the second-stage zinc cleaner flotation circuit will consist of two, existing, 16 ft³ (0.4 m³), trough-type flotation cells in series. The third-stage cleaner circuit will be comprised of one column flotation cell.

Concentrate from the zinc rougher flotation circuit will be pumped to the first zinc cleaner. Reagents, including collector and frother, will be added to the feed box of the flotation cell, as required.

Low-pressure air or aspirated air will be supplied to each flotation cell. The air flow to each cell will be controlled by vendor-supplied instrumentation or manual control from the operator. Similarly, cell levels will be controlled by vendor-supplied instrumentation. Launder and sump water sprays will be provided to assist in discharge of concentrate from launders and froth breakdown.

Cleaner 1 concentrate will report to the cleaner 1 concentrate sump and pumps, which will deliver slurry to the column cleaner circuit. Cleaner 1 tails will gravitate to cleaner 2. Cleaner 2 concentrate will report to the cleaner 1 concentrate sump. Cleaner 2 tails will gravitate to the cleaner tails hopper from which it will be pumped to the zinc rougher conditioning tank.

Concentrate from the cleaner 1 and cleaner 2 circuits report to the column cleaner circuit. Column cleaner concentrate is pumped to the zinc concentrate thickener. Column cleaner tails are pumped to the zinc rougher circuit conditioning tank.

17.3.8 Lead Concentrate Thickening and Filtration

Lead concentrate from the lead flotation circuit will be pumped to the lead concentrate thickener. Liquid flocculant solution will be added to the concentrate thickener.

Thickener overflow will gravitate to the common concentrate thickener overflow tank from which it will be pumped to the filtrate water tank by a concentrate thickener overflow pump. Thickener underflow will be pumped to the agitated lead concentrate filter feed tank by the copper concentrate thickener underflow pumps, which will be installed in a duty/standby arrangement. This tank will provide surge capacity between the thickener and filter.

Lead concentrate will be pumped in discrete batches to the lead concentrate filter using the filter feed pumps. The filter will remove water from the concentrate to meet the target moisture of 10% water by weight using a series of pressing and air blowing steps. After the desired filtration time, the filter press will open and discharge lead concentrate to the lead concentrate bagging system via the concentrate discharge screw conveyor. The cloths will be manually washed on an as needed basis. Filtrate from the lead concentrate filter will gravitate to the filtrate water tank.

Lead concentrate discharging to the concentrate bagging system will be manually sampled for metal accounting purposes. Concentrate mass will be determined by the bagging system weigh scale.

A common sump pump in the concentrate thickening and filtration area will be provided to return spillage to the respective concentrate thickener.

17.3.9 Zinc Concentration Thickening and Filtration

Zinc concentrate from the zinc cleaner column will be pumped to the zinc concentrate thickener. Liquid flocculant solution will be added to the concentrate thickener.

Thickener overflow will gravitate to the common concentrate thickener overflow tank from which it will be pumped to the filtrate water tank by a concentrate thickener overflow pump. Thickener underflow will be pumped to the agitated zinc concentrate filter feed tank by the zinc concentrate thickener underflow pumps which will be installed in a duty/standby arrangement. This tank will provide surge capacity between the thickener and filter.

Zinc concentrate will be pumped in discrete batches to the zinc concentrate filter using the zinc filter feed pumps. The filter will remove water from the concentrate to meet the target moisture of 10% water by weight using a series of pressing and air blowing steps. After the desired filtration time, the filter press will open and discharge zinc concentrate to the zinc concentrate bagging system via the zinc concentrate discharge screw conveyor. Following discharge of concentrate, the filter cloth will be manually washed on an as needed basis.

Zinc concentrate discharging to the zinc concentrate bagging system will be manually sampled for metal accounting purposes. Concentrate mass will be determined by the bagging system weigh scale.

17.3.10 Tailings Thickening and Filtration

Tailings from the zinc rougher scavenger will be pumped to the tailings thickener. Liquid flocculant solution will be added to the tails thickener.

Thickener overflow will gravitate to the tails thickener overflow tank from which it will be pumped to the process water tank by the duty/standby tails thickener overflow pumps. Thickener underflow will be pumped to the agitated tails filter feed tank by the tails thickener underflow pumps which will be installed in a duty/standby arrangement. This tank will provide surge capacity between the thickener and filter.

Tailings will be pumped in discrete batches to the tails filter using the tails filter feed pumps. The filter will remove water from the tailings to meet the target moisture of 20% water by weight using a series of pressing and air blowing steps. After the desired filtration time, the filter press will open and discharge filtered tails to the floor of the filtered tails storage bunker. Following discharge of the filtered tails, the filter cloth will be washed automatically by the filter cloth wash system prior to the next cycle using raw water from the cloth wash tank. Filtrate from the tails filter will be pumped to the tailings filtrate water tank and then be either pumped to the tails thickener or alternatively to the process water tank.

A front end loader will be utilized to remove filtered tails from beneath the filter presses and loaded on 25 ton articulated trucks. The trucks dump onto the dry stack tailings impoundment and in the process compact the tailings.

Filtered tails will be manually sampled for metal accounting purposes. A count of the number of filter cycles completed will provide an estimated tails mass for metal accounting.

A sump pump will be provided to return spillage to the tails thickener or tails filter feed tank.

17.3.11 Reagent Mixing, Storage and Distribution

Xanthate (SIPX), copper sulfate, zinc sulfate, and depressant (SMBS) will be delivered in solid form in either drums or bulk bags and stored in the new reagents building. Process water will be added to the agitated mixing tank. Bags will be lifted manually into the bag breaker, located on top of the tank. The solid reagent will discharge into the tank and dissolve in water to achieve the required dosing concentration. The mixed solution will then be transferred to the storage tank using the transfer pump. Both the mixing and storage tanks will be covered and ventilated. From the solution storage tank, reagent solution will be pumped to a day-tank in the plant. Peristaltic pumps will be used to distribute reagent solution from the day-tank to the flotation circuit at a controlled rate. SMBS flow rate will be measured by a rotameter.

Frother (MIBC) and promoter (Aero 242) will be delivered in liquid form in drums or totes. A pump will transfer liquid reagents from the drums or totes to the respective transfer tanks and then farther transferred via a transfer pump to the respective reagent header tanks. The Aero 242 solution will require additional dilution with water to meet the flow requirement for distribution within the plant. Peristaltic pumps will distribute the MIBC solution and the Aero 242 solution from the day-tank to the flotation circuit at a controlled rate. Flow rate will be determined at the pump control box or through the control system.

Collector (Aero 3418A) will be delivered in liquid form in totes (bulk box). A drum pump will transfer the liquid reagents from the tote to a reagent header tank. The Aero 3418 will also require additional dilution prior to the header tank. Peristaltic pumps will distribute the reagent solution from the header tanks to the flotation circuit at a controlled rate. Flow rate will be determined at the pump control box or through the control system.

Flocculant will be delivered as a 2% liquid in totes (bulk box). A drum pump will transfer the liquid flocculant from the tote to the flocculant mixing tank. Process water will be added to the agitated mixing tank to achieve the required flocculant dosing concentration (0.2%). From the mixing tank, dedicated variable-speed metering pumps will distribute flocculant to the respective concentrate and tailings thickeners. Flow rate will be determined at the pump control box or through the control system.

Hydrated lime will be delivered in solid form in bulk bags and stored in the reagent shed. Process water will be added to the agitated mixing tank. Lime bags will be lifted into the bag breaker via a dedicated lime hoist and the lime transferred by screw conveyor to the mixing tank. The solid lime will discharge into the tank and dissolve in water to achieve the required dosing concentration. The mixed solution will then be transferred to the storage tank using the transfer pump. Milk of lime solution will be delivered to the flotation circuit using the circulating pumps in a pressurized-ring piping system. Actuated valves at the process lime dosing points will be utilized to adjust lime addition to the circuit, as required. The milk of lime addition to the flotation circuit will be adjusted based on a targeted pH level determined by the process operation team.

17.3.12 Raw Water Storage and Distribution

Raw water will be supplied from a local raw water source and stored in the plant raw water tank. The raw water will be used for the following duties:

- Gland water, using the gland water pumps;
- General distribution in the crushing area via the raw water pump; and
- Process water make-up via the raw water pump.

17.3.13 Process Water Storage and Distribution

Process water will be stored in the process water tank. Process water is provided by tailings thickener overflow, tailings filter filtrate, as well as makeup water from the raw water storage and distribution system. Process water is used in most areas of the plant to control slurry density, and to enhance the gravity flow at mill discharges and flotation froth troughs. A pressurized process water loop provides water to the various locations through a piping network and manual/automatic control or on/off valves.

The process water will be used for process stream dilution, hopper-level control and froth breakdown, froth washing, reagent mixing, and general plant wash down and housekeeping requirements.

The lead concentrate thickener overflow and zinc concentrate thickener overflow will be pumped to the filtrate water tank and comingled with the tails filtrate water. A filtered water plant will be designed post-startup from actual plant data that will eventually allow this water to be discharged into the bio reactive water treatment system. Though not required during startup or for continuous operations, the water treatment plant is expected to be operational within 6-8 months from plant startup.

17.3.14 HP and LP Air Services

The existing air compressors will be utilized to supply high pressure to the mining operation only.

Plant and instrument air will be delivered by new duty/standby air compressors. A portion of the high pressure air supply will be dried to suit instrumentation air requirements. Plant and instrument air will be distributed around the plant.

The existing, dedicated, low-pressure air blowers will supply air to the flotation circuit. A new air blower will be provided to supply the additional air required by the expanded flotation circuit (Pb rougher, Zn rougher, and Pb cleaner and Pb separation circuit), if required.

17.4 Plant Design and Equipment Characteristics

Between January and May, 2017, Barr completed final process design, and developed detailed mechanical, structural, and electrical documents (drawings and specifications), issued for construction. The technical documents were developed using production rates from the final process design and input from OSMI regarding preferred equipment vendors. Some components were already purchased by OSMI and were incorporated into the design, including:

- The secondary crusher;
- The rod mill and associated equipment; and
- The wet screens for closed circuit around the ball mill.

Detailed drawings, equipment list, technical specifications, and the related documents required for the process plant upgrade to be installed have all been delivered to OSMI.

17.5 Consumable Requirements

The main consumables for the Project include electricity, process reagents, process water, and other process consumables (crusher liners, mill liners, grinding media and filter cloth media).

17.5.1 Electrical Power

The electricity for the process plant will be supplied from the existing grid system with access to an emergency generator when needed. The projected electricity consumption of the process plant is stated in Table 17-2.

The average operation load is computed by multiplying the installed non-redundant load by a demand factor. Typically, the demand factor is determined from operating records, but no such records could be obtained for this report. The PFS study demand factor of 0.8 (Lycopodium, 2016) was therefore assumed and applied to all loads in the processing plant. An added demand factor was applied in the processing areas 200 to 800 in Table 17-2 to reflect that the maximum load column is for the plant operating to produce 91,000 mt/y (100,310 st/y), but the values in this report are based upon 91,390 st/y. The revised factor is therefore 0.8 * 91,390/100,310 = 0.73.

The electrical power consumption is based on the average operation load multiplied by the annual operating hours assumed for each portion of the plant. The assumptions for operating hours listed in the Lycopodium report were used and are as follows:

- Crushing and milling 7,008 hours per year or 80% utilization;
- Flotation 8,059 hours per year or 92% utilization;
- Filtration and bagging 7,446 hours per year or 85% utilization; and
- Other loads 8,059 hours per year or 92% utilization.

The connected power for the processing plant at the OSMI is 5.2 MW while the average continuous power draw is 2.1 MW.

Area	Installed Load (kW)	Maximum Load (kW)	Demand Factor	Annual Average Operation Load (KW)
200 Area Transformer	600	440	0.73	321
300 Area Transformer	1,313	990	0.73	721
500 Area Transformer	406	250	0.73	182
800 Area Transformer	408	204	0.73	149
Total	2,727	1,884		1,373

Table 17-2: Summary of the Power Consumption Rates per Processing Plant Area (Based on 91,390 st/y)

Source: Barr, 2018

17.5.2 Reagents

Reagent types and dosage were determined through laboratory testing which was provided to Barr for use in process modeling and flowsheet/mass balance (FLSmidth, 2016; FLSmidth, 2017a; FLSmidth, 2017b). The reagents for the processing plant include:

- Hydrated Lime- Milk of lime will be added to the zinc flotation circuit for adjustment to the operating pH of the flotation slurry. Adjusting pH to 9-11 will enhance the rejection of iron sulfide minerals;
- Xanthate (SIPX) Sodium isopropyl xanthate is used in the zinc flotation process stage to promote the recovery of zinc sulfides into the zinc concentrates;
- Aero 242 promoter is a collector/promoter for the primary flotation and selection of zinc minerals, the collector is highly selective against iron minerals in the ore. This collector will be used in the zinc flotation rougher circuit;
- Aero 3418A is a collector/promoter for the primary flotation and selection of lead minerals, the collector is highly selective against iron minerals in the ore. This collector will be used in the lead flotation rougher circuit;
- MIBC methyl isobutyl carbinol will be used as the frother for both the lead and zinc flotation circuits;
- A cationic flocculant is used in the Pb thickener, the Zn thickener, and the tails thickener. The same flocculant is used in each system;
- Sodium metabisulfite will be utilized as a depressant for iron sulfide minerals in the zinc flotation circuit and will be will be added to the ball mill for slurry conditioning;
- Copper sulfate will be added to the zinc flotation circuit as an activator for the zinc and will be added in the second conditioning tank; and
- Zinc sulfate –Zinc sulfate is utilized as a depressant that reduces the activation of selected surfaces of dissolved metal ions making them non-floatable. The zinc sulfate will be added to ball mill for conditioning prior to the floation circuit.

Anticipated reagent usage is shown in Table 17-3.

Consumables	Consumption (per st of rod mill feed)	Annual Consumption	Source
Hydrated Lime	4.30 lb	392,977 lb	Testing
Xanthate (SIPX)	0.04 lb	3,656 lb	Testing
Aero 242	0.01 lb	914 lb	Testing
Aero 3418A	0.02 lb	1,828 lb	Testing
MIBC – Frother	0.11 lb	10,053 lb	Testing
Flocculant – Pb Thickener	1.07 g	216 lb	Barr
Flocculant – Zn Thickener	0.42 g	85 lb	Barr
Flocculant – Tails Thickener	21.7 g	4,372 lb	Barr
Sodium Metabisulfite	0.525lb	47,980 lb	Testing
Copper Sulfate	0.26 lb	23,761 lb	Testing
Zn Sulfate	0.525 lb	47,980 lb	Testing

 Table 17-3: Reagent Usage (based on 91,390 st/y)

Source: Barr, 2017

17.5.3 Process Consumables (Major Sources)

Certain materials are consumed in the process. These are primarily wear parts, grinding consumables, and filter cloths, as listed below and shown in Table 17-4:

- Jaw crusher liners;
- Rod mill liners and grinding rods;
- Ball mill liners and grinding media; and
- Filter cloth for filtering concentrates.

Table 17-4: Process Consumables Usage (91,390 st/y)

Consumables	Consumption (per st of rod mill feed)	Annual Consumption	Source
#1 Jaw Crusher Fixed Liner		3.5 sets/yr	Lycopodium
#1 Jaw Crusher Moving Liner		2 sets/yr	Lycopodium
#2 Jaw Crusher Fixed Liner		3.5 sets/yr	Lycopodium
#2 Jaw Crusher Moving Liner		2 sets/yr	Lycopodium
Rod Mill Liners		0.7 sets/yr	OSMI
Rod Mill Grinding Media	0.9 lb	90,810 lb	Barr/OSMI
Ball Mill Liners		0.5 sets/yr	OSMI
Ball Mill Grinding Media (forged)	0.8 lb	80,700 lb	Barr/OSMI
Filter Cloth Conc. (3 Units)		12 sets/yr	Lycopodium
Filter Cloth Tailings (2 Units)		8 sets/yr	Lycopodium

Source: Barr, 2017

18 Project Infrastructure

18.1 Off-site Infrastructure and Product Logistics

The mine has operated in the past and has existing off-site infrastructure including a 15,000 ft² warehouse with office space for administration located in the town of Ouray. Additional administrative offices in the same warehouse building will be added to further support operations. A laboratory will be added to the offsite infrastructure co-located with the existing Ouray warehouse. Laboratory operations are expected to be contracted an independent third party. The maintenance and upkeep of the off-site infrastructure is included in the Project budget. The existing fueling system at the warehouse will be upgraded during the restart construction project.

The Project is located in southwestern Colorado near the town of Ouray, in Ouray County. Ouray is approximately 335 highway miles or approximately 5.5 hours by road southwest of Denver via Interstate 70 and US Highways 50 and 550. Ouray (population 1,100) is an established community with a history of mining and combined with the additional communities of the Town of Ridgway and City of Montrose have all necessary housing and infrastructure to support the operation. Other proximate communities that could support the Project include Delta (population 9.000) located 59 miles north of Ouray and Grand Junction (population 60,000) located 97 miles north of Ouray. Industry to support the mining Project is available in all the larger communities including mining related supplies in Grand Junction and Durango, CO.

The nearest airport with scheduled service is the Montrose Regional Airport, located approximately 40 miles north of Ouray. A larger airport is available in Grand Junction.

There are experienced mining personnel in the region capable of providing staffing for the Project. The region of Colorado where the Project located is a desirable location for personnel to live.

18.1.1 Mine Access Road

Access to the mine site is via U.S. highway 550 south from Ouray approximately one-quarter mile and thence an existing improved all-weather gravel road designated Ouray County Road 361 for 5 miles. Ouray County Road 361 becomes Ouray County Road 26 for the last 1.3 miles. The mine under contract with Ouray County and the USFS maintains the road to the site year-round. The County also assists with maintenance including dust suppression, signage and policing due to the significant tourist traffic accessing the high mountain roads of Yankee Boy and Imogene Basins. Figure 18-1 shows a photograph of winter access to the site.



Source: OSMI, 2017

Figure 18-1: Photograph of Winter Access Road

During winter months both the USFS and County allow the mine to lock the road at Senator Creek approximately halfway to Ouray. This restricted access is required due to the need to both maintain the road properly but also to allow avalanche mitigation following heavy snowfalls.

Figure 18-2 shows the Alpine Safety Operating Plan – Regional Slide Paths.



Source: OSMI, 2017

Figure 18-2: Alpine Safety Operating Plan – Regional Slide Paths

As noted above, the road is heavily traveled during the summer tourist season and is steep and narrow in many places requiring the use of 4WD vehicles for a good portion of the year. Vehicle heights are limited by overhung rock formations and must be verified prior to shipping to the site.

Figure 18-3 shows a photograph of the access road and the height limit for the road in the rock overhang.



Source: OSMI, 2017

Figure 18-3: Photograph of the Access Road and the Height Limit for the Road in the Rock Overhang

18.1.2 Off-site Warehouse and Offices

The Project includes an existing administrative and warehouse building, laydown yard, and parking located on the north end of Ouray on U.S. Highway 550. The facility is approximately 15,000 ft² with a reception area, six offices, and heated warehouse area with three two loading docks with adjustable hydraulic ramps for loading/unloading semi-trailers. The warehouse and yard allow for storage of product concentrate, materials, equipment, and supplies. Warehoused items are moved to the mine as needed by mine personnel. The warehouse site currently contains a 500-gallon tank for diesel and a 500-gallon tank for gasoline. Plans are to upgrade these fueling systems to a new 1,000-gallon diesel

and 1,000-gallon gasoline storage tank. The new system will be automated with access codes assigned to employees and vehicles. The system will generate reports on usage per vehicle and person. The system is purchased as a skid with spill containment and environmental signage already installed.

Figure 18-4 is a photograph of the facility from the north looking south and Figure 18-5 shows a plan view of the facility.



Source: SRK (Google Earth), 2016

Figure 18-4: Ouray Administrative/Warehouse Building and Yard (Street View)



Source: SRK (Google Earth), 2016 Figure 18-5: Ouray Administrative/Warehouse Building and Yard

18.1.3 Product Logistics

Once in full production, OSMI will be producing up to 30 super sacks (4,000 lb each) of various concentrates (current plan for lead and zinc, future potential for a copper concentrate) per day. OSMI will transport the super sacks from the mine to the Ouray warehouse. The concentrate will be aggregated in the warehouse and then shipped by a contracted carrier to the buyer. OSMI will transport the sacks by truck with four sacks per truckload, 7 loads on average per day. A forklift is available at the warehouse and on the Project site to load the sacks. An over-the-road contractor will transport the product to the designated buyer. There are multiple options for OSMI concentrate to be purchased. Option one would be delivery point in Canada which is approximately 1,183 miles from the Project site. The cost for shipping lead concentrate is quoted at US\$200/wmt and US\$175/wmt for zinc concentrate. Lead concentrate shipment price is estimated higher than zinc for conservatism to allow for longer shipment routes to optimize concentrate terms given lead concentrate is the largest economic driver.

18.2 On-site Infrastructure

18.2.1 Introduction

The majority of the Project site surface and underground infrastructure currently exists and adequately supports current development operations. Specific upgrades to Project facilities are planned during restart to support expanded operations these include:

- Increasing backup generator size to 3.0 MW to allow full operations to continue in the event that line power is interrupted during the winter and adding a facility to house the generator;
- Improving and upgrading the current electrical system;
- Expanding the existing administrative building and changehouse;
- Adding a covered railyard and warehouse facility at the mine portal;
- Updating the surface crusher/screen system;
- Replacing the emergency hoist in the ventilation borehole (Hubb-Reed raise) with an Alimakstyle elevator system and adding a ground and water control;
- Rehabilitation of the #1 Shaft and hoist (in year 2 of operation);
- Rehabilitation of the run-arounds in the main haulage drift to allow sidings and create direct line transport of muck to the mill or waste dump wall;
- Construction of a genset and transformer building;
- Adding water treatment systems for a mill bleed stream;
- Updating the compressed air system for both mine and mill with additional capacity and replacing supply lines;
- Adding miscellaneous facilities to support warehousing, utilities and maintenance;
- Updating the laboratory and relocating to an offsite location adjacent to the warehouse in Ouray. Laboratory work will be contracted to an independent third party;
- Adding an access road, bridge, and surface water control system to the future winter tailings storage; and
- Updating the IT and communications systems for the mine site and warehouse.

The existing surface facilities, as shown in Figure 18-6, include a tailings storage area, tailings thickener, administrative building and changehouse, milling facilities both underground and on the surface. Other facilities not shown include, rail system and car unloader, emergency generator, diesel

storage tank, warehouse and shops. The site has several laydown and storage areas. The process facility is located underground adjacent to the mine portal.



Source: OSMI, 2016

Figure 18-6: Existing Surface Infrastructure

The underground infrastructure includes a portal, 7,800 ft of main tunnel back to the #1 shaft, track haulage system, mine power system tied to the backup generator, mine ventilation system, ventilation borehole (Hubb Reed raise) and existing emergency which as described will be replaced with an Alimak Hex elevator, compressed air system, mine drainage ditches and pumps, and underground powder and primer magazines, communications systems (both surface and underground), and water supply pumps and sump. Communications with the warehouse in Ouray currently is via both CenturyLink data line for voice and internet as well as two-way radio. As part of current improvements, a satellite uplink will be installed to further enhance communications.

The Project restart construction plan will include a number of improvements and additions to the infrastructure. Figure 18-7 shows the location of the projected additions to the Project. These additions and improvements include:

- A new reagent building adjacent to the mill building;
- A cover for the thickener;
- Expansion of the administrative/dry building;
- New switchyard building; and
- Development of a winter tailings storage area (also referred to as Atlas or Western storage area).



Winter tailings storage is the Revenue or eastern storage pile and Atlas Summer tailings storage is the western storage pile. Source: OSMI, 2017

Figure 18-7: Planned Surface Infrastructure

18.2.2 Access

The mine access at the site is by improved gravel road and enters the property over a gated single lane 24-ton bridge that crosses Sneffels Creek from Ouray County Road 26 on to the east side of the Project property. The gravel road provides access to all the facilities on site.

18.2.3 Plant

The plant facilities and proposed modifications are discussed in detail in Section 17. The process facility is located underground adjacent to the mine portal.

18.2.4 Solid Waste Handling

Waste Rock

Mine waste rock is stored temporarily in the yard in front of the dump wall where an existing crushing and screening operation is in place to create road base that is used on site and on the County road accessing the mine. The remainder of the waste rock is mixed, per permit, with tailings and stored in the TSF. The waste crusher facility is designed to crush up to 75 t/h. Some of the equipment to build this facility is coming from the deconstruction of the existing underground crusher plant. The waste crusher setup will include a primary jaw crusher that is capable of crushing down to 1.5 inch minus, a single deck vibrating screen, and a 3 foot short head cone crusher capable of crushing down to ½ inch minus.

The Project received a State permit approval in April, 2017 to sell a waste rock – tailings blend as road base. It is expected that as much as 30% of the tailings and all the waste rock will be sold to the various municipalities, contractors and government agencies. In the past all waste rock produced by the mine site has been used by Ouray County to improve County Road 361.

<u>Tailings</u>

Tailings are discussed in detail in Section 18. When the Atlas tailing expansion occurs, OSMI will add a road and bridge to allow access to the permitted winter tailings facility. The road and bridge will be located on the northwest portion of the facility adjacent to the existing TSF. Additionally, a separate storm water control system will be installed to manage runoff at the impoundment.

Sanitary Septic System

The site has two approved installed septic systems that handles the site sewage. The underground sanitary waste will be handled by adding automatic decomposing toilets.

Other Waste

Nonhazardous waste such as steel is generally recycled. A local company provides recycling dumpsters and removes the scrap steel. In the past OSMI has received payment for this, but it depends on the scrap steel market. Other nonhazardous waste such as wood and paper will be burned in a permitted burn area located on site upon receipt of a Colorado Department of Public Health and Environment (CDPHE) permit. OSMI will use local approved landfills for all other materials as necessary.

The site generates very little hazardous waste. Items such as waste oil and ballast from fluorescent lights and any reclaimed reagents make up the most of Project hazardous waste. These items are placed in environmental safe containers and disposed of by various companies such as Waste Management and Clean Harbors.

18.2.5 Emergency Hoist

The underground mine has an existing 8 ft diameter borehole used for ventilation and emergency egress. An emergency hoist system with a diesel generator driven hoist, headframe, man-cage, and

storage sea container is located on the surface in Governor Basin. The raise location on surface is approximately 0.7 miles line of site from the mine, but road access is approximately 3 miles over an unimproved mountain dirt road. The system will be modified and replaced during the development period with an Alimak style elevator system (Alimak Hek) that can be accessed and maintained from either the underground workings or the surface. The system will be a significant upgrade and will eliminate access issues to maintain the emergency escape hoist. Figure 18-8 shows a photo of an Alimak Hek type elevator.



Source: OSMI, 2017

Figure 18-8: Photo of an Alimak Hek Style Elevator

An additional backup generator will be installed underground to run both the #1 Shaft and ventilation raise in case the main power line from surface to underground is damaged. The surface access to the existing hoist can be challenging during severe weather events and the new system will upgrade the effectiveness of the existing system as well as provide access to development and exploration on levels above the existing 2000 level. Figure 18-9 includes photographs of the existing emergency hoist system that will be replaced.



Source: SRK, 2016 Figure 18-9: Emergency Hoist and Headframe Photos

18.2.6 Water Systems

Service Water

Service water for the mine, mill, and surface operations is supplied by groundwater infiltrating into the mine workings. The infiltrated groundwater is primarily fed by snowfall at high elevations that drains through the mine and out the mine portal. A large settling basin will be constructed using the Terrible decline and at this location, a centralized water pumping plant will be constructed to supply water needs for the mine. The centralized pumping system will deliver water to all smaller retaining areas via 4- or 6 inch HDPE pipe. The smaller sumps will be located near current production areas and will activate the pumping plant via automatic level controls. The mine water use is expected to average < 100 gpm during production.

Fresh water is required for makeup to the process water, seal water for pumps, and for reagent preparation and is delivered to the mill facilities by gravity flow from the main tunnel and into the bulkhead tank located at the head of the rail car tipping tunnel. Fresh water is piped by gravity from this tank to the fresh water pumps located in the crushing area. The mill makeup water is supplied from the mine sump through existing 4 inch lines from the mine sump. The mill requires up to 40 gpm of makeup water. Dust suppression on the surface requires less than 10 gpm average during the summer.

The groundwater is available for use at a rate between 300 gpm and 1,000 gpm depending on the time of year. Typical historical average annual availability is approximately 350 gpm. The water quantities increase during the periods where snow is melting and is lowest in the middle of the winter when ground water freezes at the surface in this mountainous area.

Sneffels Creek flows through the mine property and OSMI has water rights to allow water use if required. This is a backup to the current groundwater supply.

Mine Water

Groundwater encountered during mining operations is pumped using air and electric pumps to the Revenue drift level and into the service water sump. Water not needed for mine or mill operation is delivered into a discharge ditch that runs along the main haulage drift and exits the underground at the portal where the water is routed through a ditch to the surface water control facilities and the operating passive water treatment system for groundwater infiltration.

Ground water enters the existing #1 shaft at various locations along its excavation. Water levels in the shaft have remained static over the last 20 years at approximately 280 ft below the collar of the shaft due to the influence of the Campbird 14 level tunnel approximately 5,000 ft away and 900 ft below the collar elevation. OSMI has designed a pumping and discharge system that will move the water up the shaft and into the revenue tunnel ditch using multiple phase vertical turbine pumps capable of handling up to 1,000 gpm. During the Ranchers era once dewatering was complete, an average of less than 200 gpm was pumped continuously from the shaft.

Potable Water

Potable water is supplied to surface structures by capturing ground water located in two locations underground, the Portal Spring and Anglo Saxon crosscut. Water is collected at coffers located in each location and piped out, via the Revenue Tunnel to storage cisterns located on the surface. Upon demand from each system, water is mechanically pumped to one of two identical treatment plants where filtration, chemical disinfection and storage occurs. Both water treatment facilities are permitted with CDPHE, but the final permit is pending until the employee threshold is reached. All potable water is monitored under the recommended schedule to include TCR as well as NO3/NO2 sampling. Monthly laboratory testing of the systems water ensures safe distribution to employees onsite.

Water Treatment

A passive water treatment system incorporating a sedimentation pond, bio-reactive artificial wetland, and leach field discharge is constructed on site adjacent to the existing mine water holding pond. Figure 18-10 shows a cross-section schematic of the passive water treatment system.



Figure 18-10: Passive Water Treatment System Cross-Section (Schematic)

A mill bleed water treatment plant has been designed as part of final engineering and during restart will be installed to treat the mill water prior to passing through the final passive water treatment facility. The plant will operate at 40 to 60 gpm. The system will reduce suspended solids, turbidity, and microorganism content. The mill bleed water filtration system has been estimated at a cost of approximately US\$150,000 and is included in capital budget.

18.2.7 Compressed Air Systems

There will be two compressed air systems on site. The current system consists of three electric screw compressors (total 800 hp) with a total capacity of 3,974 cfm, a receiving tank, and a header that in the past supplied compressed air for the underground mine and mill. Figure 18-11 shows a summary of the existing compressors that provide air to the system. The existing system is located in the compressor building near the mine portal.

Manufacturer	Power (hp)	Capacity (cfm)	Model	Туре
Ingersol Rand	250	1,249	SSR-EPE-250-2S	Rotary Screw
Ingersol Rand	250	1,249	SSR-EPE-250-2S	Rotary Screw
Ingersol Rand	300	1,476	SSR-EOE-300-2S	Oiless Rotary Screw
Total	800	3,974		

Figure 18-11: Existing Compressors

Source: OSMI, 2016

The mine compressed air system operates slushers, air chutes, EIMCO-style overshot muckers, CAVO type overshot muckers, jackleg drills, air pumps, and miscellaneous small tools.

The mine compressor system will supply the mine with approximately 125 psig compressed air through new 7,800 ft, of 10 and 8 inch HDPE main air line that will be located in the main revenue drift from the surface compressor to the working areas. This line will replace the existing air lines that are at the end of their life and will improve the overall quality, quantity and pressure of air available for mine operations. The main air line will provide air to feeder lines that will be 6 inch HDPE lines that will distribute air to upper and lower levels of the mine through raises. The 6 inch lines will feed 4 inch air supply lines that will further distribute air to the development and stope production faces.

18.2.8 Power Supply System

Power is supplied to the site through an existing three phase 12.47 kilovolt (kV) overhead powerline owned and operated by San Miguel Power Association. The line has a capacity of 3 MW. The site will increase the existing 1 MW emergency backup generation capacity to 3 MW by replacing the existing generator with a larger generator. The rate for overhead powerline electricity to the mine site charged by San Miguel Power Association is US\$0.070926/kilowatt hour (kWh), with an additional demand charge of US\$17/kw.

Installed Load and Maximum Demand

Table 18-12 summarizes the total, maximum demand and average site power requirements including underground, process plant and ancillary infrastructure.

Description (kW)	(kW)	(kW)
Project Total 4,623	3,110	2,819

Table 18-12: Site Connected Power Requirements

Source: OSMI 2017

Plant/Project total installed load includes standby equipment and existing loads, which will remain in service and does not include any future loads.

Total maximum demand load is based on the available mechanical equipment list, single line diagrams, and information provided by OSMI site personnel.

The plant maximum demand load assumes a load factor of 66% for the majority of the loads, and takes into account standby loads to account for an 80% demand factor and an 82% altitude de-rating factor for upsized equipment.

Plant annual average operating load assumes a utilization factor of 0.92 for the majority of the plant process equipment.

Equipment startup is staggered and sequenced to allow for inrush requirements on the power system.

The following assumptions were considered:

- New main 3 Mega Volt Amp (MVA) transformer will be installed at restart;
- In the existing motor control center (MCC) any loads that will be replaced with a different size are considered as disconnected and have been included in the calculation as a new load;
- Available spare starters and feeders will be used for new and modified loads where their sizes match;
- Where the existing load information is not available, an approximate assumption has been made; and
- There is enough space in the milling area electrical building to add a new 480 V MCC.

Electrical Distribution

The plant incoming line, 12.47 kV, is stepped down to 4.16 kV through three existing 15 kV sectionalizing cabinets connecting to the new 5 MVA transformer. The 5 MVA transformer and 4,160 V switch gear feed all existing, modified and new loads.

Existing switchgear and MCCs are located inside the existing electrical buildings.

The underground power will be distributed at 4160 kV and will then be stepped down to 200 V or 480 V as needed at the stopes and for power to the underground equipment including fans, pumps, locomotive battery charger, slushers, hoists, and miscellaneous lighting.

Transformers and Compounds

The plant main existing transformers, 12.47 / 4.16 kV (main incoming) and 0.48 / 4.16 kV (diesel generator) are de-rated for the site altitude and both are grounded by neutral grounding resistors.

4.16 kV / 480 V distribution transformers are solidly grounded and installed at different locations on the site.

4.16 kV Switch Gear

The existing main 4.16 kV switchgear provides feeder to MV fused switchgear and distribution transformers.

Existing MV fused switchgear provides power to the crusher area and mill area transformers.

480V Switch Gear

The existing 480 V switchgear provides feeders to mill area MCCs. There is a 600 A breaker available in this switchgear that will be used to feed the new 480 V MCC, which is required for new and modified mill area loads.

Low Voltage Variable Frequency Drives

Low voltage (LV) VFD units with line reactors will be utilized for new loads where required. They will be floor or wall mounted (dependent upon size) along the internal wall of the electrical rooms.

480 V Motor Control Centre (MCC)

Existing 480V MCCs will be re-arranged according to new design and process needs. Existing loads, with no change, will stay connected to existing MCCs. Existing loads that are not in service anymore will be disconnected and their feeders become available as spare. In detail design stage, available spare feeders in existing MCCs will be used for new or modified loads where the size of the load and respective spare feeder match.

Any new or modified loads in mill area that cannot use available spares on existing MCCs will be connected to one new 480 V MCC, which will be installed in the existing electrical building and fed from the existing LV switchgear. Starters and incoming circuit breakers in this MCC will be of withdraw-able design complete with protection. All motor starters will be equipped with intelligent protection relays with Ethernet / Internet Protocol (IP) communication. This LV MCC will supply power to the low voltage motors, low voltage variable speed drives and low voltage distribution boards.

The existing MCCs in crushing area and filter building will be modified to add new sections to feed new and modified loads in those areas.

A new MCC and transformer will be installed to provide power to the new air compressors and additional loads in the new reagent area.

Grounding System and Lightning Protection

The following method of system grounding is and will be implemented at various voltage levels:

- 4.16 kV: Low resistance grounding; and
- 480 V: Solidly grounded.

Existing grounding and lightning protection will be extended to provide required protection and coverage for all exposed points of the new equipment and structures. Extended lightning protection system will have its own independent grounding electrodes and will be interconnected with the power grounding system.

Emergency Power

Emergency power is provided on the site by means of existing 1 MW diesel generator. This new generator will be installed just to the west of the mill building locating it in proximity of the main transformer.

This generator will be replaced with a new 3.0 MW generator that will be installed and connected to the system via the existing 3 MVA step up transformer. The backup generator will be diesel and fuel will be supplied from an existing 10,000 gallon tank on site. All process and mine loads will be on emergency power. Emergency power is generated at 4,160 voltage alternating current (VAC) and is connected to the main 4.16 kV switchgear. Transfer from normal power to emergency power is automatic with the loss of normal power at the 4.16 kV switch gear.

18.2.9 Propane Supply

Propane is supplied to the site by JC Propane and used for site heating, primarily the portal and to keep the track and drift from icing up, during the winter months. There are six propane tanks located on site. The propane tanks are protected by small buildings. The tanks are located at the portal for intake air heating, at the filter building for heating and at the administrative building for heating. The tanks are each 1,000 gallons in capacity and filled by truck on an as needed basis during the winter months.

18.2.10 Fuel and Lubricant Storage

The site has a diesel and lubricant storage facility that includes 10,000 gallons of diesel storage at the mine site and 500 gallons each of diesel and gasoline storage at the warehouse. The diesel storage tank on site is a double-walled tank, located in a controlled area with all applicable environmental controls in place as required per permit. The tanks are filled by a local contracted vendor on an as needed basis. The system is in place and meets the Project requirements.

18.2.11 Surface Crusher Plant

The surface crusher and screening plant will be modified during the preproduction period. The modifications include demobilization of the existing plant and reconstructing the plant with at the current crushing facility. The new plant will be capable of producing up to 75 st/h and consist of a single jaw crusher, vibrating screen, and a three-foot short head cone crusher. The plant will be constructed utilizing some of the equipment from the underground crushing facility that is being removed as part of the redesign.

18.2.12 Mine Administration and Dry Building

The Project has an existing two-story mine administrative and dry building that has six offices, showers and change facilities. The mine site infrastructure was built in 2013 and has permanent facilities in place. On-site facilities include a changehouse (dry) with showers and bathrooms for women and men and locker space for 66 employees before expansion. The facility contains nine offices of which three of which can accommodate up to two to four people each. In addition, change facilities, office space and a conference room exist in the mill building which ample capacity for all mill and construction employees. The existing two-story structure is 2,350 ft² on the main floor. The main floor houses the dry facilities and the upper floor contains the management, technical and safety offices. The current square footage of the administration building on site is insufficient to facilitate the number of miners and technical staff that will be required for updated mining operation.

A remodeling of the administration building will take place during pre-production. The building will be extended 30 ft to the southwest adding an additional 1,410 ft² of usable space on each floor. The dry currently has locker facilities for 66 personnel. The expansion will increase this number to approximately 100. Figure 18-13 shows the remodel.

18.2.13 Railyard Building

A new rail switchyard building will be constructed over the mine portal entrance. This building is intended to protect the switchyard and waste dump area from the winter snow and summer rains. It will also provide a maintenance area and open bulk material storage prior to shipment underground (Figure 18-14).

18.2.14 Mill Reagent and Compressor Storage Building

A new building to store mill reagents and house mill compressors will also be constructed during restart. The general arrangement for this facility is shown in Figure 18-15.



Source: OSMI/Barr, 2017

Figure 18-13: Upper Level Plan View of New Changehouse Area



Source: OSMI/Barr, 2017

Figure 18-14: Ground Level Plan View of New Switchyard Building



Source: OSMI/Barr, 2017

Figure 18-15: General Arrangement of Compressor/Reagent Building

18.2.15 Other Surface Facilities

During the pre-production period the Project will supplement existing facilities with a number of additional minor facilities including installation of generator and transformer building, cricket (shed) over the mill filter building, installing site maintenance and equipment barns, adding shipping containers for additional warehouse space, and filter building repairs and upgrades. These facilities were designed by Barr and are described as follows:

- Where the existing process plant portal meets the existing filter building, OSMI has had some
 issues with large quantities of snow getting trapped between the mountain and the filter
 building. They have seen some water infiltration at the portal / filter building interface. Barr
 designed a new canopy structure between the filter building and the face of the mountain to
 shed snow to the east and west and avoid trapping it behind the filter building;
- OSMI is purchasing a new diesel generator and storing it just to the east of the existing filter building in a new enclosed structure. This is an independent structure, but is directly adjacent to the existing filter building, and shares a wall with the filter building. Barr designed a steel structure with siding and 12 ft high concrete walls to house this generator and associated diesel day tank;
- Just west of the generator enclosure are three existing outdoor transformers and one existing outdoor switchgear unit. This canopy is a steel structure with a roof. OSMI wanted a canopy structure designed over these transformers to prevent them from getting snowed-in. A new 12 ft high wall is provided on the south / mountain side of this canopy to try to prevent snow infiltration, but no other walls were provided for this structure;
- Compressor enclosure OSMI is purchasing two new compressors. This structure is an addition to the east side of the existing filter building to house these two compressors. This is a steel structure with a 12 ft high concrete wall on the south side to help protect against snow;
- Reagent enclosure This is an addition to the east side of the compressor enclosure. The
 purpose of this enclosure is to store and mix chemicals used in the mine processing and to
 pump them to where they are processed. This is a steel structure with 12 ft high concrete walls
 along the east and south sides to help prevent snow and water infiltration. A higher concrete
 firewall is provided on the common wall between the reagent and compressor enclosures. This
 wall provides a fire barrier between the hazardous chemical classification of the reagent
 enclosure and the non-hazardous classifications of the compressor and filter buildings;
- Switchyard / battery building This building will be located several hundred feet west of the filter building area. This building covers both the portal and rail tracks to enter the mine as well as the west entrance to the portal machine shop. There is a group of scabbed together historic and more recent structures which currently cover most of this area. These structures will be demolished with this new slightly larger structure put in its' place. There is only one set of tracks entering the mine, so the multiple operating trains often get in each other's way. Additional staging tracks with switches will be provided inside this building. Additionally, a battery area is added under this enclosure with a crane to charge, load, and unload locomotive batteries. This structure will maintain a dirt floor with tracks designed by OSMI;
- Dry room expansion OSMI expects to hire additional staff at re-start-up and would like additional dry room space for this staff increase. The existing dry room is a metal building system designed by others, so this new expansion is a similar structure add-on built to the west. Barr designed the foundation for this addition, and provided specifications for the

building purchase. The addition will be purchased by the contractor. The contractor will also be responsible for plumbing and electrical design; and

• Each feature was developed to a level needed for contractor bidding and construction. Capital costs in Section 21 of this report are from the actual contractor bids to complete the construction work.

18.2.16 Explosives Storage

The site receives explosives deliveries by truck and the explosives are stored in one powder and one primer magazines located underground in the Yellow Rose Drift. A second powder magazine will be constructed during pre-production in one of the drill station crosscuts along the Virginius North drift.

18.2.17 Laboratory

A laboratory facility will be installed at the warehouse site in Ouray. Contract laboratory services will be provided by an independent third party to provide assay and chemical analyses to support the mill and mine operations. Capital and operating costs supplied in the proposal are used in this report. The total estimate for laboratory initial capital cost is US\$393,000 as shown in Table 18-1.

Table 18-1: Laboratory Initial Cost Estimate	;
----------------------------------------------	---

Lab Proposal	Initial Cost (US\$)
Capital Equipment ⁽¹⁾	\$177,500
Facility upgrade	\$150,000
Project management fee for upgrade	\$35,500
Mobilization	\$30,000
Total Initial Cost	\$393,000

Source: OSMI, 2018

(1) Total capital equipment is \$355,000. Initial 50% is paid up front, remaining is paid over 5 years with a 5% interest rate.

18.2.18 Weigh-Scale

Concentrate loadout scales are currently installed at the Project and will continue to be used.

18.2.19 Security/ Gatehouse

The site has installed security cameras in various locations and a gated entryway directly linked to motion control image capturing software. Operations are 24 hours per day and the cameras will be setup to be also continuously monitored from the mill control room.

18.2.20 Communications

The site and warehouse have telephone and internet service through a local internet/phone provider as noted above. Additionally, there is a two-way surface radio and pager system that can communicate both underground and on surface with both the site and warehouse.

The Project capital costs includes the installation of a satellite communication system and complete upgrade of onsite communications. The new system will be have duplicated servers both at the warehouse and site to which are linked through the satellite feed. Network and Voice over Internet Protocol (VoIP) communication will be routed either through the CenturyLink, Inc. (CenturyLink) fiber optic line or through satellite in the event of an interruption of service.

18.3 Tailings Management Area

The Project has an existing permitted TSF. A Tailings and Waste Management Plan of operations has been submitted for the TSF permit. This work was conducted by Greg Lewicki and Associates (Lewicki, 2015) and includes descriptions of the planned filtered tailings as received from the mill, compaction tests results and field compaction requirements, cold weather management plan, and ultimate planned pile configurations. Geotechnical laboratory testing was conducted by CTL Thompson (Thompson, 2015) and their report included slope stability estimates.

SRK has reviewed the Lewicki and CTL Thompson documents. This work has been conducted according to industry standards and provide a reasonable starting point for assessing the tailings storage needs for this design. SRK has relied on these documents to update the design for the current FS production requirements.

SRK has conducted laboratory testing on filtered tailings. Compaction and direct shear test were conducted by IGES in Salt Lake City (IGES, 2017). These tests were conducted according to the following standards:

- Modified Proctor Compaction tests: ASTM D1557 A; and
- Direct Shear Test for Soils Under Drained Conditions: ASTM D3080.

The results of the tailings testing are summarized on Table 18-2. Sample #3, highlighted in blue, was used for input strengths for the slope stability analysis of the dry stack pile.

Test	Fri (deg)	Cohesion (psf)	Water Content (%)	Dry Density (lbs/ft ³)
Sample #1	28	390	13	120
Sample #2	38	66	16	118
Sample #3	35	223	14	118
Sample #4	35.8	335	17	113

Table 18-2: Summary of Filtered Tailings Laboratory Direct Shear Test Results

Source: SRK

SRK designed an expanded TSF within the same permitted footprint to meet the required volumetrics and design to hold the tailings generated in the FS LoM plan, and provided a geotechnical stability analysis confirming the design. According to the production schedule, the TSF dry stack pile will provide storage for 574,965 st of filtered tailings and 222,469 st of waste rock, for a total of 797,434 st of combined waste and tailings.

The design has assumed the following conditions:

- The in-situ density of waste rock is 170.9 lbs/ft³;
- The in-situ density of mineralized ore from dike is 181.9 lbs/ft3;
- The bulking ratio for compacted waste rock is 1.55;
- Both waste rock and filtered tailings will be compacted in place to at least 90% of modified Proctor density by controlling moisture content and compactive effort;
- The compacted density of filtered tailings is 118.0 lbs/ft³ compacted at 13% moisture content (90% modified Proctor density);
- The in-situ moisture content of filtered tailings will be an average of 15% during operations (after compaction);
- The boundaries of the TSF dry stack pile are as shown in red on Figure 18-16;

- The critical cross sections for stability are in the north-northeast direction as shown on Figure 18-16; and
- Tailings can be placed on the Revenue pile (eastern pile) during the summer months from May through November. The tailings need to be placed on the Atlas pile (western pile) during the winter months from December through April due to avalanche precautions.



Source: SRK

Figure 18-16: Plan View of TSF Dry Stack Pile with Limits of Pile Shown in Red

Given these assumptions, SRK has estimated that the storage volume required is the following:

- Winter storage required on Atlas: 5.893 Mft³;
- Summer storage required on Revenue pile: 9.129 Mft³; and
- Total storage capacity required: 15.022 Mft³.

The required storage capacity curve is shown on Figure 18-17.



Source: SRK, 2017

Figure 18-17: Required Tailings Storage Capacity Curve

A permit revision in the future will be required to modify the permitted 8.9 Mft³ storage capacity after about 5 years of continuous production because more than 8.9 Mft³ of tailings will be produced. Since the revision is in the same footprint as the current TSF it does not impact the current permit boundary or disturbed area and therefore will be a Technical Revision which does not require public notice. SRK currently sees no reason such Technical Revision would not be granted. Figure 18-18 shows the piles for this period. Note that the avalanche berm is still functional and the Revenue pile height is not yet sufficient to deflect any potential avalanches. The final comingled waste piles are shown on Figure 18-19. The total storage capacity of each pile is as follows:

- Winter storage available on Atlas: 4.049 Mft³;
- Summer storage available on Revenue pile: 11.159 Mft³; and
- Total storage capacity available: 15.208 Mft³.

The total capacity available is greater than the quantity required by about 0.186 Mft³. As the Revenue pile raises above the south slope of the avalanche run, some of the tailings produced during the winter can be stored on the Revenue pile.

SRK has conducted a stability analysis using SLIDE program (Rocscience, 2016) for the Spenser solution method with includes a balance of forces and moments. The assumed input parameters are from Table 18-3, Sample #3 (blue highlighted). A summary of the predicted FOS under both wet and dry conditions are provided in Table 18-2. The output FOS Atlas north-northeast cross Section A is shown of Figure 18-20. The water table is shown on this figure. All cases analyzed have a FOS greater than the minimum 1.3 criteria.



Source: SRK

Figure 18-18: Perspective View of the TSF Piles Looking Towards Southwest After 5 Years of Production



Source: SRK

Figure 18-19: Perspective View of the TSF Piles Looking Towards Southwest After Life-of-Mine

Section	FOS, Dry Conditions	FOS, Wet Conditions
Section A – Atlas N-NE	2.86	2.17
Section B – Atlas W-NW	2.83	2.4
Section C – Revenue N-NE	2.55	2.08

Table 18-3: Summary of FOS Stability Analysis

Source: SRK


Figure 18-16 shows location of A-A" cross section Source: $\ensuremath{\mathsf{SRK}}$

Figure 18-20: Example Slope Stability Output for Atlas North-Northeast Cross Section A

In summary, SRK has designed the filtered tailings piles within the existing permit boundaries to a height that can store the required storage capacity. The tailings have been tested for shear strengths and those values have been used in stability analyses to demonstrate that the FOS is greater than the minimum 1.3 criteria. The availability of the two separate piles provides the operational flexibility to store tailings as conditions demand.

19 Market Studies and Contracts

The Project will target sales of silver, gold, zinc and lead. These metals will be sold in concentrate form with a lead concentrate hosting the saleable lead, silver and gold and a zinc concentrate hosting the salable zinc.

19.1.1 Feasibility Study Metal Price Assumptions

The primary commodities produced by the Project, silver, gold, zinc and lead, are sold into large and liquid markets with transparent pricing (e.g., London Metal Exchange for base metals and COMEX for gold and silver). Therefore, for the purpose of this study, it is assumed that the pricing mechanism for each commodity will be based on either spot market prices at the time or contract prices that are reflective of spot prices, at the time the contracts are entered into.

For the purposes of selecting the most appropriate pricing to use in this analysis, OSMI provided forecasts from a panel of experts polled by S&P Global Market Intelligence (as of June 5, 2018). These forecasts are for metal prices in 2020. Further, SRK has an internal subscription to a similar group that provides commodity price forecasts based on expert opinion (the Energy and Metals Consensus Forecast, published by Consensus Economics Inc.) Utilizing the Consensus Economics data, SRK provides internal guidance for reasonable long-term pricing to use for reserve estimation purposes (note that this information is only provided for context for SRK's QPs and its use is not mandated by SRK).

Table 19-1presents a comparison of the S&P data provided by OSMI and SRK's internal guidance (dated May 21, 2018), as well as current (June 20, 2018) spot prices for each commodity. As can be seen, the SRK guidance is generally lower than the S&P forecasts, except for silver where it is higher. SRK's approach to selecting prices for the purposes of this feasibility study was to split the difference between the two sets of forecasts (rounded to a reasonable number of significant figures) and utilize that price on a flat forward basis. The notable exception to this is for silver, where SRK chose to go with the lower of the two forecasts (in this case the S&P forecast), again on a flat forward basis. The reason for this is that the spot silver price is materially lower than both forecast prices and given silver is the dominant source of project revenue, SRK felt it prudent to utilize the more conservative of the two forecasts. The prices utilized for this feasibility study are also presented in Table 19-1. For context, the differential between the metal price utilized in the feasibility study and the spot price is also presented in the table. In SRK's opinion, these prices are reasonable in the context of the forecast data and spot pricing.

Metal	2018 FS Price	S&P 2020 Forecast Price	SRK Internal Long Term Price	06/20/2018 Spot Price	FS to Spot Differential
Silver	18.50/oz	18.49/oz	19.25/oz	16.30/oz	+12%
Gold	1,300/oz	1,337/oz	1270/oz	1267/oz	+3%
Zinc	1.20/lb	1.32/lb	1.02/lb	1.38/lb	-15%
Lead	1.00/lb	1.07/lb	0.88/lb	1.08/lb	-8%

Table 19-1: S&P Capital IQ Metal Price Forecast and Selected Metal Pric	es (US\$)
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Source: SRK 2018

19.1.2 Concentrate Market Study

The Project will sell the metals it produces in concentrate form and revenue will be based on terms provided by traders or smelters to which the concentrate is sold. As the terms of purchase from both

smelters and traders can be variable with most data not made public, a study was commissioned by OSMI to evaluate likely purchase terms that may be received by the Project. The study was completed by Bluequest Resources AG (Bluequest).

Bluequest is a specialist advisor on commercial and logistical matters for base metals and concentrates. Based on the analysis performed by Bluequest, the lead and zinc concentrates will both be readily salable in the open market to both traders and smelters. The lead concentrate is expected to incur penalties for both arsenic and antimony levels, but given the high content of silver will nonetheless be an attractive concentrate. The zinc concentrate is not anticipated to have any elements above penalty level and is also expected to be desirable. Concentrate specifications are provided in Table 19-2 and expected concentrate sales terms are provided in Table 19-3 and Table 19-4. Notably, although Bluequest suggests that precious metals in the zinc concentrate will likely be payable, for the purposes of economic modelling SRK has conservatively assumed that OSMI will not receive any value for the contained precious metals in the zinc concentrate.

Element	Units	Pb Conc. 400 mt/m	Zn Conc. 100 mt/m
FA Ag	ppm	11,000 to 13,000	500 to 600
AI	%	0.10	0.08
Ва	%	< 0.02	< 0.02
Bi	%	<0.001	<0.001
Ca	%	0.08	0.07
Cu	%	3.11	0.26
Fe	%	2.52	3.52
К	%	0.07	0.16
Mg	%	0.03	0.02
Mn	%	0.39	0.15
Мо	%	< 0.002	< 0.002
Na	%	0.07	0.08
Ni	%	< 0.003	< 0.003
Р	%	0.025	0.024
Pb	%	70.3	2.29
S	%	16.0	34.3
Si	%	5.49	5.76
Sn	%	< 0.005	< 0.005
Ti	%	<0.0065	<0.0065
W	%	0.024	0.354
Zn	%	4.18	58.5
Zr	%	< 0.003	< 0.003
As	ppm	2055	5150
Cd	ppm	299	2870
Со	ppm	28	46
Cr	ppm	<3.0	<3.0
Li	ppm	237	337
Re	ppm	56	93
Sb	ppm	15550	369
Те	ppm	<10	<10
TI	ppm	<10	<10
V	ppm	<25.0	<25.0

Table 19-2: Expected Concentrate Specifications

Source: Bluequest 2017

Table 19-3: Forecast Le	ad Concentrate Sales Terms
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Metallic Payables for Each Dry Metric Tonne					
Metal	Payables Subject to a Minimum Deduction				
Gold	95% 1 g/mt				
Silver	95-97%	50 g/mt			
Lead	95%	3 units			
Zinc	Not payable				
TC, RC, Key Penalties, C	Costs for Freight, WSM	D and Assaying			
Conc. TC	US\$75-200 per mt; US\$150 would be a conservative long term market for this				
	material.				
Gold RC	US\$8-10/oz				
Silver RC	US\$0.70-1.40/oz				
Price Participation/Scale	None				
As Penalty	Penalty US\$0 to US\$1.5 per each 0.1% of As above 0.3% per mt				
Sb Penalty	US\$0 to US\$1.5 per each 0.1% of Sb above 0.3% per mt				
Freight	US\$150 to US\$200 per wmt				
WSMD + Assaying	US\$5 to US\$30 per mt				

Source: Bluequest 2017

Table 19-4: Forecast Zinc Concentrate Sales Terms

Each Dry Metric Tonne				
Payables Subject to a Minimum Deduction				
75% after a deduction of 1.5 g				
75% after a deduction of 93.3105 g				
Not payable				
85%	8 units			
s, Costs for Freight, WSMD and A	ssaying			
US\$100-200 per mt; US\$175 would be a conservative long term market for this material.				
not applicable	not applicable			
not applicable				
None				
US\$1.50 for each 0.1% of As abo	US\$1.50 for each 0.1% of As above 0.3% per mt			
US\$1.50 for each 0.1% of Sb above 0.3% per mt				
US\$150-200 per wmt				
US\$5-30 per mt				
	Payables 75% after a deduction of 1.5 g 75% after a deduction of 93.3105 g Not payable 85% s. Costs for Freight, WSMD and A US\$100-200 per mt; US\$175 wo material. not applicable not applicable None US\$1.50 for each 0.1% of As about US\$150-200 per wmt			

Source: Bluequest 2017

19.2 Contracts and Status

OSMI is not a party to any third-party contracts regarding concentrate sales, hedging or any other form that would impact pricing or its ability to sell its concentrates production. The terms for sale of concentrates used herein are based on a third party commercial report that analyzed the market for the concentrates expected to be produced by OSMI.

There are multiple options for OSMI concentrate to be purchased either in Canada or in Mexico.

20 Environmental Studies, Permitting and Social or Community Impact

DRMS administers the existing mining permit (No. M2012-032) for the OSMI's property. As an existing permitted mine, much of the environmental, permitting, and social components of this Project are detailed in the permit applications and updates. This section of the FS provides a summary of significant environmental aspects and ancillary operating permits for the Project.

20.1 Required Permits and Status

Mining and mined land reclamation in the state of Colorado are declared necessary, proper, and compatible activities under the Colorado Mined Land Reclamation Act, Title 34 Article 32 of the Colorado Revised Statutes (CRS). The reclamation approvals and permitting for mine related activities falls under the jurisdiction of the Mined Land Reclamation Board (the Board) and DRMS. The legislation associated with hard rock mining and reclamation are described and consolidated in the Mineral Rules and Regulations of the Colorado Mined Land Reclamation Board for Hard Rock, Metal, and Designated Mining Operations.

The Project operates in accordance with the DRMS 112(d) Permit Number M2012-032. Table 20-1 presents the list of existing permits associated with the mine. In addition to the DRMS permit requirements, the Water Quality Control Division of the Colorado Division of Public Health and Environment (CDPHE) regulates surface water quality under the authority of the Water Quality Control Act (Title 25 Article 8 CRS). The Air Quality Control Division of the CDPHE regulates air quality under the Colorado Air Pollution Prevention and Control Act (Title 25 Article 7 CRS).

Agency	Permit	Original Permit Date	Purpose	Key Modifications	Modification Date	Expiration Date	Annual Fee	Reporting Requirements	Monitoring Requirements	Status	Comr
			112d Mining Permit, regulates mining, reclamation, and groundwater	Amendment 1	8/20/2015	temporary cessation on 6 months without production	\$86	Annual	Quarterly	operational	Modif Gove 04, TI
	M2012 022	2012-032 2/5/2012		TR-08	7/5/2016		N/A	N/A	N/A	complete	Allow follow water
DRMS	M2012-032			TR-09			N/A	N/A	N/A	complete	updat and w of add based
				TR-10	in preparation		N/A	N/A	N/A	pending	impro
	P2015-003	3/31/2015	Governor Basin Exploration NOI	N/A	N/A		\$86	Annual	N/A	operational	NOI re
	CO000003	8/1/2013	Point Source Discharge to Sneffles Creek, Surface Water	Modification 3	11/23/2015	8/31/2018	\$3,280	Monthly, Quarterly (WET test)	Bimonthly, Quarterly	under CDPHE review	Modifi winter treatm
	COR040289	9/19/2012	Storm water	Permit # changed from COR040273 to COR040289		administratively continued	\$375	Quarterly, Annual (Feb15)	Quarterly	operational	Storm occur
CDPHE	CO0246283	Pending	Potable water	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Subm water reach non-c
	APEN		Air Quality	N/A	N/A	N/A	N/A	N/A	N/A	permitting	Not re levels
ACOE	SPK-2012-00953	4/22/2014	Nationwide 44 for Revenue Pond	N/A	N/A	N/A	N/A	N/A	N/A	operational	NWP Pond
DOJ ATF	5-CO-031-33-6L- 00778	9/29/2014	Explosives	N/A	N/A						
Ouray County	CR 361 & 26A Maintenance Agreement	10/10/2018	Road Use	N/A	N/A	12/31/2022					Allows
Ouray County	Waste rock for road gravel	10/7/2014	Provides for use of waste rock on County Roads	N/A	N/A	N/A		Annual SPLP	Annual SPLP		Annua

Source: OSMI, 2018

mments

dified to update facilities and allow for ore processing for vernor Basin (abandoned). Includes TR-01, TR-02, TR-03, TR-TR-05, and TR-06

ows for infiltration of mine water discharge to groundwater owing passive treatment, thus limiting discharge to surface ter.

dated groundwater standards, allowed sale of mixed tailings d waste rock as road base, relocation of buildings, construction additional sheds, attempt to permit mill discharge rejected sed on lack of treatment system detailed engineering

proved passive treatment system

I remaining open for future drilling as needed.

dified to adjust effluent limits for hardness based on additional ter sampling. Permit renewal underway with improved passive atment system.

rm water discharge monitoring required, but no discharge has curred.

omitted under previous operator (Fortune), additional source ter sampling required once employee threshold (25 individuals) ched over six months. Currently operating as a non-transient, n-community water source and testing as required under rent regulations.

required due to current fugitive emissions below threshold

/P 44, replaced lost Revenue Pond WOUS with Mine Water

ows OSMI to use and maintain CR 26 and 361 year round

nual SPLP analysis required

20.1.1 DRMS - Technical Revision 8

On July 5, 2016, the DRMS approved Technical Revision 8 (TR-08) to Amendment 1 of DRMS Permit M2012-032. TR-08 effectively eliminates the need for Outfall-001, improves mine discharge water quality, and allows infiltration of mine discharge water to groundwater.

OSMI routes mine water to the Mine Water Pond. The Mine Water Pond replaced Waters of the United States lost due to placement of waste rock and tailings in the former Revenue Pond under the permitted mine plan. The Mine Water Pond acts as a settling pond to reduce suspended solids and fines in mine water. Prior to approval of TR-08, water from the Mine Water Pond was discharged to Sneffels Creek at Outfall-001 under CPDS Permit number CO0000003.

The integrated passive treatment system approved in TR-08 consists of the naturally high-quality groundwater conveyed from the Mine adit to the Mine Water Pond, a bio-reactive bed, and infiltration line under gravity flow (Figure 20-1). Effective September 8, 2016, OSMI transferred flow from Outfall-001A to the bio-reactive treatment system.

The infiltration of Mine discharge after passive treatment eliminates the discharge from Outfall-001 which led to the application for release to CDPHE as described in Section 20.1.3. The passive treatment system will serve the mine in operations and into closure, providing long-term improvements in discharge water quality.

20.1.2 DRMS - Technical Revision 9

OSMI filed Technical Revision 9 (TR-09) with DRMS on February 7, 2017. TR-09 includes:

- Construction of new buildings as proposed during a mine restart;
- The sale and use of tailings blended with waste rock for aggregate use, which would provide for more compactable road base and create space on site; and
- Revised Water Quality Monitoring Requirements.

The original TR-09 application included mill discharge treatment and management. On March 14, 2017, OSMI withdrew this portion of the TR-09 amendment and committed to submit TR-10 once final designs for the mill and treatment systems are available. TR-10 will include updated results for tailings produced by the mill as well as the composition of the process water. DRMS approved TR-09 on March 16, 2017.

20.1.3 CDPHE – Colorado Pollutant Discharge System

The mine currently holds Colorado Discharge Permit System (CPDS) Permit No. CO0000003, which authorizes surface water discharge from the Mine Water Pond to Sneffels Creek (Outfall-001A). The Revenue Tunnel Portal discharges mine water through two 8 inch HDPE pipes to the Mine Water Pond. In accordance with permit conditions, OSMI conducts monthly and quarterly effluent sampling. The current CPDS permit will expire on August 31, 2018. A renewal application was submitted to the Water Quality Control Division (WQCD) on February 20, 2018, 180 days in advance of the expiration date.

On November 23, 2016, OSMI filed a Termination Application with WQCD for Outfall-001A This termination followed OSMI's implementation of DRMS Permit TR-08 which requested the transfer of discharge to a bio-reactive treatment system with groundwater infiltration (effective September 8, 2016) which also eliminated discharge through Outfall-001A. In June 2017, the WQCD denied the

Termination Application, and CDPHE requested OSMI submit a Permit Modification application for Permit No CO0000003 to modify certain aspects of the permit, including construction of an expanded five-stage passive water treatment system and addition of a new Outfall-002A.

A permit modification was submitted to WQCD on October 25, 2018. The WQCD issued a draft permit for public notice on June 14, 2018. Public comments are due July 16, 2018. In addition, OSMI entered into discussions with WQCD to establish a compliance order on consent that will allow OSMI to construct the upgraded passive water treatment system over two years along with a defined startup period following construction to allow the system to reach operational performance.

The mine also maintains a CPDS General Permit for storm water discharge (Permit No. COR040289, former Permit No. COR040273). This permit requires a Storm Water Management Plan (SWMP) and routine compliance reporting. On October 6, 2016, WQCD field inspectors notified OSMI of deficiencies related the site SWMP from prior operators. On October 13, 2016, OSMI notified WQCD that the deficiencies were corrected by OSMI on its own prior to the October 6, 2016 notice.

20.2 Environmental Study Results

The EA for the Project was completed and approved in 2012 as part of the M2012-032 permit application. Available information relates to data collected in support of the current permits. DRMS requires prescriptive environmental information during the permitting and amendment process. Relevant exhibits of environmental and social significance in the DRMS 112(d) permit include:

- EXHIBIT E Reclamation Plan;
- EXHIBIT F Reclamation Plan Map;
- EXHIBIT G Water Information;
- EXHIBIT H Wildlife Information;
- EXHIBIT I Soils Information;
- EXHIBIT J Vegetation Information;
- EXHIBIT K Climate Information;
- EXHIBIT L Reclamation Costs; and
- EXHIBIT T Designated Mining Operation Environmental Protection Plan.

There has been no indication of acid rock drainage at the Revenue Tunnel in its 128-year history.

20.2.1 Baseline Water Quality

Baseline water quality data includes samples collected in support of the current 112(d) permit, data collected under existing permits, and supplemental data collection during operations. Table 20-2 presents sampling stations, location, frequency, purpose, and status. Figure 20-1 presents the area-wide and site locations for baseline and compliance sampling for surface water and groundwater.

Map ID	Location	Frequency	Purpose	Current Status	
		Surface	Water		
OF001	Outfall-001A	Bimonthly / Quarterly	Compliance	Active Permit (No discharge)	
SW-1	Atlas Drainage	Quarterly	Baseline / Internal	Inactive	
SW-2	Sneffels Upstream of Revenue and Downstream of Ruby	Monthly / Quarterly	Baseline / Internal	Inactive	
SW-3	Revenue Seep	Monthly / Quarterly	Baseline / Internal	Inactive	
SW-4	Sneffels Downstream of Revenue	Monthly / Quarterly	Baseline / Internal	Active-information only	
SW-8	Sneffels Above Ruby	Monthly / Quarterly	Baseline / Internal	Inactive	
SW-9	Saint Sophias Basin	Singular	Baseline	Inactive	
SW-10	Humbolt Discharge	Singular	Baseline	Inactive	
SW-11	Virginius Central	Singular	Baseline	Inactive	
SW-12	GB Main North Branch	Singular	Baseline	Inactive	
SW-13	GB Conversion Downstream	Singular	Baseline	Inactive	
SW-14	Virginius SE Talus Slope	Singular	Baseline	Inactive	
SW-15	Revenue Upstream Disturbance Boundary	Quarterly	Internal	Active-information only	
SW-16	Confluence of Atlas and Sneffels Creek	Quarterly	Internal	Active information only	
SW-17	Near Outfall-001A	Quarterly	Baseline / Internal	Inactive	
		Ground	lwater		
GW-1A	Near Atlas Pile - Shallow	Quarterly	Compliance	Pending construction of Atlas facilities	
GW-1B	Near Atlas Pile - Deep	Quarterly	Compliance	Pending construction of Atlas facilities	
GW-2A	Upstream Revenue Pile - Shallow	Quarterly	Compliance	Active	
GW-2B	Upstream Revenue Pile - Deep	Quarterly	Compliance	Active	
GW-3A	Downstream Revenue Pile - Shallow	Quarterly	Compliance	Active	
GW-3R	Replacement well for GW- 3A	Quarterly	Compliance	Active (First calendar quarter in 2018)	
GW-3B	Downstream Revenue Pile - Deep	Quarterly	Compliance	Active	
	I	Underg		1	
UG-1	Yellow Rose Vein	Annually	Baseline / Compliance	Active	
UG-2	Revenue Upstream of Yellow Rose	Quarterly	Baseline / Compliance	Inactive	
UG-3	Atlas/Cumberland Composite	Quarterly	Baseline / Compliance	Inactive	
UG-4	Revenue Upstream of Atlas	Annually	Baseline / Compliance	Active	
UG-5	Revenue Discharge Portal	Annually	Baseline / Compliance	Active	
UG-6	Three Level Virginius Portal Discharge	Quarterly	Baseline / Compliance	Inactive	
MWP Inlet	Inlet of the Mine Water Pond	Annually	Baseline / Compliance	Replace UG-5, awaiting termination of OF-001 to allow for the relocation of the instrumentation.	

Source: OSMI 2017





Figure 20-1: Area-Wide Surface Water and Groundwater Sample Locations

Surface Water

OSMI currently monitors surface water quality at three different surface water stations: SW-4, SW-15, and SW-16. In general, water quality (mine discharge, groundwater, and Sneffels Creek) is good with circum-neutral pH and low total dissolved solids (TDS). The State of Colorado lists Sneffels Creek as a 303(d) impaired water based on zinc, cadmium and, potentially, lead loading from the entire watershed.

OSMI monitored mine water discharging into Sneffels Creek at Outfall-001 on a biweekly basis prior to September 2016 for dissolved metals, temperature, and pH. Quarterly monitoring parameters include total metals. Outfall-001A met most permit effluent limits under CPDS permit number CO0000003, with the exception of regular exceedances for lead, zinc, and cadmium, and occasionally copper. These exceedances triggered Notices of Violation from CDPHE, and spurred the permitting of a new water management system including passive treatment and groundwater infiltration as discussed in Section 20.1.1.

In addition to standard chemical testing (prior to September 8, 2016), the discharge from Outfall-001A was subject to whole effluent toxicity (WET) testing on a quarterly basis. Under CO0000003, the growth/reproduction and survivability of *Ceriodaphnia dubia* and *Pimephales promelas* have compliance points of no observed effects concentrations (NOEC) and no greater than 25% reduction in growth or reproduction of test organisms (IC₂₅) at 80% effluent, for both criteria. In general, *Ceriodaphnia dubia* failed NOEC and IC₂₅ approximately half of the time.

Because two sequential quarters of WET tests failed, OSMI entered a Toxicity Reduction Evaluation (TRE) program in the spring of 2015. The TRE found that a micro-filtration technique (Purifics) increased TDS and reduced toxicity, but that several metals remained above permit effluent limits. The fact that an increase in TDS was associated with increased survivability and growth/reproduction suggested that common ions may play a role in *C. Dubia* reproduction. Both WET tests in 2016 passed for all WET test measures. Given the challenging effluent criteria and the environmental management objectives, the Mine successfully demonstrated a pilot test for passive treatment in the underground at the Yellow Rose cofferdam and received approval to implement a full-scale passive treatment system. This allowed OSMI to cease WET compliance testing and to terminate CO0000003 following receipt of CDPHE approval.

Finally, OSMI conducted one-time sampling events at six different high elevation locations in Governor Basin, which contains claims owned by OSMI, but are outside the permitted disturbance boundary, and are impacted by historical, pre-law mining operations. Several of these one-time samples exhibit lower pH and elevated metals related to local geology and/or exposed pre-law operations which are on land owned by a number of entities including the USFS and OSMI.

Groundwater

Mine personnel monitor groundwater quality at six wells (GW-1A, GW-1B, GW-2A, GW-2B, GW-3A, and GW-3B) on the mine site (Figure 20-1). Wells GW-1A (shallow) and GW-1B (deep) are located at the western edge of the permit boundary to monitor the planned Atlas TSF. Sampling will start once the construction of the tailings area commences. Wells GW-2A (shallow) and GW-2B (deep), adjacent to the Mine Water Pond, and GW-3A (shallow) and GW-3B (deep), adjacent to Sediment Pond #2, all monitor the Revenue Pond TSF. Groundwater is of high quality, meeting permit groundwater quality standards with the exception of occasional elevated concentrations of cadmium, iron, lead, silver, and

zinc in GW-3A. The elevated concentrations observed in GW-3A are not seen in GW-3B and are believed to be related to a construction event or damage to the well casing. With the approval of DRMS, OSMI drilled GW-3R as a replacement for GW-3A.

20.2.2 Results of Geochemical Studies of Waste Rock and Tailings

Waste Rock

Waste rock at the mine is generally inert with high quality leachate, as is evidenced by the lack of acidic mine drainage over the mine's 140-year history. Prior to 1999, SVL Analytical in Kellogg, Idaho analyzed waste rock samples from the Revenue Mine. Four samples were taken: one from the north end of the waste rock pile, one from the south end and two other samples from the low-grade stockpile that existed at that time. The pH of the waste rock samples was 8.33 and 8.22, respectively and zinc levels were low. The leachate analysis indicated the waste rock is inert.

In June 2014, OSMI collected a waste rock sample just upgradient of the permitted (TR08) infiltration area (Figure 20-1) and subjected the sample to a synthetic precipitation leachate procedure (SPLP) at ACZ in Steamboat Springs, Colorado. Table 20-3 presents the results. SPLP leachate was circumneutral with non-detect cadmium (<0.001 mg/L), low lead concentrations (0.0018 mg/L), and low zinc concentrations (0.01 mg/L). Finally, OSMI and Ouray County review the annual SPLP testwork for waste rock borrow in order to re-confirm the inert nature of the material.

Analyte	Units	Old Waste Rock	New Waste Rock
Aluminum	mg/L	0.13	0.26
Antimony	mg/L	0.0114	0.0033
Arsenic	mg/L	0.0024	0.0012
Barium	mg/L	0.0074	0.1822
Beryllium	mg/L		
Bicarbonate as CaCO3	mg/L	35	24
Boron	mg/L		
Bromide	mg/L	0.185	1.97
Cadmium	mg/L		
Calcium	mg/L	12.6	14.2
Carbon, total organic (TOC)	mg/L		
Carbonate as CaCO3	mg/L	11	15
Chloride	mg/L		
Chromium	mg/L		
Cobalt	mg/L		
Conductivity @25C	umhos/cm	116	133
Copper	mg/L	0.0065	0.0016
Fluoride	mg/L	0.69	0.17
Hardness as CaCO3	mg/L	33	38
Hydroxide as CaCO3	mg/L		
Iron	mg/L		
Lead	mg/L	0.0018	0.0004
Lithium	mg/L	0.0010	0.0001
Magnesium	mg/L	0.4	0.5
Manganese	mg/L	0.0112	0.008
Mercury	mg/L	0.0112	0.000
Molybdenum	mg/L	0.059	0.0033
Nickel	mg/L	0.000	0.0000
Nitrate	mg/L	0.08	0.17
Nitrate/Nitrite as N	mg/L	0.08	0.17
Nitrite as N	mg/L	0.00	0.17
Nitrogen, ammonia	mg/L		
pH	units	8.7	8.8
pH measured at	C	23.8	23.8
Phosphorus, ortho dissolved	mg/L	23.0	23.0
Phosphorus, Total	mg/L		
Potassium	mg/L	3.7	3.5
Residue, Filterable (TDS) @180C	mg/L	60	70
Residue, Non-Filter (TSS) @180C	mg/L	00	70
		0.0002	0.0005
Selenium Silica	mg/L mg/L	0.0002	0.0005
Silver	mg/L		
Sodium		0.00019 0.9	0.00018 2.5
Strontium	mg/L mg/L	0.052	0.274
Sulfate	mg/L	8.75	11.4
Thallium	mg/L		
Tin	mg/L		
Total Alkalinity	mg/L	46	40
Uranium	mg/L		
Vanadium	mg/L	_	0.0003
Zinc	mg/L	0.01	0.004

Source: OSMI 2017

<u>Tailings</u>

Under the terms of the existing permit that allows placement of tailings in the old Revenue Pond area and Atlas Waste Piles, tailings must be inert and nonhazardous as defined by SPLP results at or below groundwater quality standards. Tailings geochemistry is discussed in detail in Exhibit T of the existing DRMS 112(d) permit (M2012032). Table 20-4 presents the SPLP results for tailings generated during the final commissioning of the existing mill. The results demonstrate compliance with the terms of the existing permit.

Parameter	Units	Standard	Tailings, February 2015
Aluminum (1312)	mg/L	5	0.56
Antimony (1312)	mg/L	Report	0.0083
Arsenic (1312)	mg/L	0.1	0.012
Barium (1312)	mg/L	Report	0.0588
Beryllium (1312)	mg/L	0.1	ND
Bicarbonate as CaCO3	mg/L	Report	28.4
Bismuth (1312)	mg/L	Report	ND
Boron (1312)	mg/L	0.75	0.01
Bromide (1312)	mg/L	Report	ND
Bromide (1312-DI)	mg/L	Report	0.434
Cadmium (1312)	mg/L	0.001	ND
Calcium (1312)	mg/L	Report	14.6
Carbon, total organic (TOC) (1312-DI)	mg/L	Report	ND
Carbonate as CaCO3	mg/L	Report	ND
Chloride (1312-DI)	mg/L	2	ND
Chromium (1312)	mg/L	0.1	ND
Cobalt (1312)	mg/L	Report	0.00013
Copper (1312)	mg/L	0.00865	ND
Fluoride (1312 DI)	mg/L	2	0.24
Hardness as CaCO ₃ (1312)	mg/L	Report	39
Hydroxide as CaCO ₃	mg/L	Report	ND
Iron (1312)	mg/L	1	0.29
Lead (1312)	mg/L	0.0435	0.0199
Lithium (1312)	mg/L	Report	ND
Magnesium (1312)	mg/L	Report	0.7
Manganese (1312)	mg/L	1.62731	0.1082
Mercury (1312)	mg/L	0.01	0.0002
Molybdenum (1312)	mg/L	Report	0.0413
Nickel (1312)	mg/L	0.05024	ND
Nitrate (1312 DI)	mg/L	Report	1.09
Nitrate/Nitrite as N (1312-DI)	mg/L	100	1.09
Nitrite as N (1312-DI)	mg/L	Report	ND
Nitrogen, ammonia (1312-DI)	mg/L	Report	0.8
Phosphorus, ortho dissolved (1312-DI)	mg/L	Report	0.01
Phosphorus, Total (1312-DI)	mg/L	Report	0.04
Potassium (1312)	mg/L	Report	5.9
Residue, Filterable (TDS) @180C (1312)	mg/L	Report	110
Residue, Non-Filter (TSS) @180C (1312)	mg/L	Report	ND
Selenium (1312)	mg/L	0.0046	0.0008
Silica (1312)	mg/L	Report	ND

Table 20-4: Table	ailings SPLF	Presults from	m Mill Comr	nissionina
		results no		maanoning

Note: ND = Not Detected

Source: Lewicki 2015, Appendix 2

20.3 Community Involvement

OSMI promotes engagement with local authorities and communities with respect to re-opening of the mine. OSMI works closely with local government to perform avalanche mitigation and winter maintenance on CR 361, and has facilitated community meetings to advance access for winter recreationalists. In conjunction with the Uncompany Watershed Partnership and the Colorado DRMS, OSMI is working to reclaim numerous areas of historic mining impact, including Governor Basin and the historic Atlas Mill and Tailings.

The mine also provides materials to local government entities and remediation projects. The inert nature of the waste rock makes this material suitable for gravel, road base, and for remediation projects. There is currently an aggregate agreement in place with Ouray County allowing the use of waste rock on as road base, and boulders were recently provided for the Uncompany Watershed Partnership Atlas Tailings Bank Stabilization effort currently underway on Sneffels Creek.

Once in full production the mine is expected to provide approximately 150 direct jobs, making it the largest employer and taxpayer in Ouray County. Additionally, those jobs will be among the highest paying in the county with an average salary of approximately US\$80,000 per year. It is expected that the mine will draw employees from Ouray, Montrose, and San Juan counties given the small population and housing constraints in Ouray County.

20.4 Operating and Post Closure Requirements and Plans

The DRMS 112(d) mining permit (M2012032) includes the updated closure plan and associated costs in the Reclamation Plan, Reclamation Plan Map and Reclamation Costs, Exhibits E, F and L, respectively. There will be minor changes in the Reclamation Plan associated with the proposed operation and current permitting efforts, primarily associated with the removal of the additional proposed buildings.

20.4.1 Post-Closure Water Management

The water draining from the Revenue Tunnel will be managed, as permitted under TR-08 (Section 10.5), by flowing from the portal, through the Mine Water Pond, and into a bioreactive bed in Sediment Pond #2 before infiltrating to groundwater. All other sediment ponds will be removed after successful revegetation of the mine areas that drain to it. The material for pond backfill will come from the general regrading of the site during reclamation. Similarly, the collection ditches will be removed once the revegetation of disturbed mine areas that drain to them is successful.

20.4.2 Tailings Management Area

The two waste piles located at the Revenue Mine will be reclaimed sequentially over the course of the mine life, minimizing the amount of waste pile that is unreclaimed at any time. Each pile will be built using trucks dumping waste that is then pushed into a lift by a dozer. Each lift will be compacted by equipment driving along it. Since the waste piles will be a mix of angular waste rock from excavation and fine mill tailings, the compaction of lifts will minimize settling. Each waste pile is expected to be approximately 20% waste rock and 80% tailings. The flotation process being used at the Revenue Mine will produce inert tailings. Surface water runoff seeping through the piles is discouraged through compaction. The tailings will be placed on the waste piles in 6 inch lifts each year, and then compacted to 94% of maximum dry density. Prior to the end of each summer, 12 inches of topsoil will be placed

along the waste slope for the year, seeded, and mulched. The ore pad will be buried with tailings prior to the final capping of the Revenue Waste Pile.

20.4.3 Shafts

Each shaft will have its concrete foundation on the surface removed, a seal installed, and then be topsoiled and revegetated. After removing the casing 3 ft below ground surface and removing the concrete pad, each shaft will be covered by a steel plate and a 6 inch concrete slab will be poured. The seal will be buried with either available overburden and soil generated from excavation, or regraded into the local topography to provide at least 4 ft of backfill placed. Twelve inches of topsoil (saved from construction) will be placed on top of each shaft's backfilled area. The estimated disturbance areas associated with shaft reclamation is 100 ft x 100 ft per shaft. All of the shafts are accessible in the summer from Forest Service roads and roads on private claims.

20.4.4 Plant Site and Facilities

Reclamation will include the removal of all buildings and other structures. The following structures will be removed at the Revenue Portal area:

- Administration Building;
- Mill Building;
- Thickener and piping; and
- Other new buildings added during the pre-production period.

All of the facilities have a 12 inch concrete foundation, which will remain as part of the post-mine land use.

20.4.5 Portal

There are three portal areas that will be reclaimed at Revenue: the underground storage room, the mill, and the Revenue Tunnel portal itself. The underground storage room and mill portal will be backfilled with 25 ft of waste rock. The face of the backfill slope will be covered with top-soil and seeded along with all other disturbed areas. The Revenue Tunnel portal will not be backfilled due to the mine water discharge that flows year around. Instead, a steel bat gate will be welded into place at the Revenue portal.

20.5 Closure Monitoring

The site will remain accessible for closure monitoring such as visual observation, groundwater sampling, and surface water sampling as deemed necessary by the DRMS board. It is anticipated that quarterly monitoring of reclamation will be required for at least one year after reclamation is complete.

20.6 Reclamation and Closure Cost Estimate

The current reclamation bond required by DRMS is US\$476,269.41. Two additional bonds are also required for current operations with the first for US\$7,826.61 with DRMS for drilling under a Notice of Intent to Explore, The third bond for US\$5,000 is required by Ouray County for winter maintenance activities conducted by OSMI on County Road 361. All bonds are held by a fully-funded certificate of deposit with Alpine Bank and are shown in Table 20-5.

Required	d Bond Amount (US\$)	Obligee	CD Amount (US\$)
	\$476,269.41	Colorado Division of Reclamation Mining and Safety	\$476,269.41
	\$7,826.61	Colorado Division of Reclamation Mining and Safety	\$7,826.61
	\$5,000.00	Ouray County	\$5,000.00
Total	\$489,096.02		\$489,096.02

Table 20-5: Current Reclamation Bonds

Source: OSMI, 2018

21 Capital and Operating Costs

The forecasted capital cost is estimated to be at a $\pm 15\%$ accuracy which is appropriate for a feasibility-level estimate.

21.1 Capital Cost Estimate

The cost estimate is broken down by area including mining, processing plant, surface mobile equipment, infrastructure and Engineering and Contracts. Capital costs were developed by OSMI and Barr (process plant only). SRK reviewed the capital cost buildup and quotations for the mine, surface mobile equipment and infrastructure. Barr maintains responsibility for the process plant. Direct and indirect costs are included for construction items. Indirect costs were included in the quotations and not broken out separately. OSMI indirects are included in their labor and Project budget items. Contingency has been included in the estimate. Freight has been included in the estimate. Capitalized preproduction costs are included for operating and G&A costs that occur in the 2 month ramp up period.

21.1.1 Capital Cost Assumptions and Qualifications

The capital cost basis includes:

- First principle buildups;
- Vendor quotations on materials, supplies, equipment, and installation; and
- Estimates and allowances for items not specifically priced.

Approximately 97% of the initial and sustaining capital estimates for equipment, materials, and construction activities for the Project are supported by quotes.

The capital cost has the following exclusions:

- Taxes and duties have been excluded from this estimate; and
- Escalation has not been included in the estimate.

Capital costs are based on Q2 2018 currency. All costs are expected to be incurred in US\$ so foreign exchange rates are not applicable.

Capital costs were developed with the assumption that OSMI will self-perform construction management and commissioning. An allowance is provided for engineering support during construction to address technical and quality aspects. In addition, operating costs during the construction period, which include owner's costs for managing development activities, are included as pre-production capital.

Contingency

The purpose of contingency is to make specific provisions for uncertain elements of cost within the Project scope. Contingencies do not include allowances for scope changes, escalation or exchange rate fluctuations. It should be noted that contingency is not a function of the specified estimate accuracy and should be measured against the Project total that includes contingency.

An amount of contingency has been provided in the estimate to cover anticipated variances in the actual construction quantities due to unknown conditions, or in some cases for assumptions made

during the detailed design that have not yet been proven out. Contingency is set at 10% for construction related items and 5% for quoted equipment costs.

21.1.2 Capital Cost Summary

A summary of capital costs for the LoM are listed in The construction period is estimated to be six months with a two month ramp-up (the end of the ramp-up phase is defined as when the Project has its first month of positive operating margin). The Project will incur total costs of US\$36.8 million from the start of construction through the end of the 2 month ramp-up phase.

Table 21-1 and broken down by Project area and time they are incurred.

The construction period is estimated to be six months with a two month ramp-up (the end of the rampup phase is defined as when the Project has its first month of positive operating margin). The Project will incur total costs of US\$36.8 million from the start of construction through the end of the 2 month ramp-up phase.

Description	Construction	Ramp Up	Total Initial Capital	Sustaining Capital	Total Capital
Revenue Mine	(\$3,207)	(\$383)	(\$3,590)	(\$301)	(\$3,890)
Revenue Mill	(\$3,899)	(\$124)	(\$4,023)	(\$94)	(\$4,117)
Surface	(\$910)	\$0	(\$910)	(\$222)	(\$1,132)
Site Infrastructure	(\$712)	\$0	(\$712)	(\$179)	(\$891)
Engineering & Construction Contracts	(\$14,522)	(\$1,463)	(\$15,984)	(\$6,837)	(\$22,821)
Subtotal	(\$23,250)	(\$1,970)	(\$25,219)	(\$7,632)	(\$32,852)
Pre-Production Costs ⁽¹⁾	(\$6,982)	\$0	(\$6,982)	\$0	(\$6,982)
Subtotal	(\$30,232)	(\$1,970)	(\$32,202)	(\$7,632)	(\$39,834)
Contingency	(\$1,889)	(\$172)	(\$2,060)	(\$723)	(\$2,784)
Total Capital	(\$32,121)	(\$2,141)	(\$34,262)	(\$8,356)	(\$42,618)
Operating Costs During Ramp Up		(\$2,838)	(\$2,838)		
Net Revenue During Ramp Up		\$306	\$306		
Total Net Capital and Start Up Costs	(\$32,121)	(\$4,673)	(\$36,794)		

Table 21-1: Capital and Startup Cost Summary (in US\$000's)

Source: OSMI, 2018

(1) Pre-Production Costs are detailed in Table 21-2.

The pre-production capital shown in The construction period is estimated to be six months with a two month ramp-up (the end of the ramp-up phase is defined as when the Project has its first month of positive operating margin). The Project will incur total costs of US\$36.8 million from the start of construction through the end of the 2 month ramp-up phase.

Table 21-1 includes capitalized Operating Costs that are categorized in Table 21-2.

Table 21-2: Pre-Production Capitalized Operating Cost (US\$000's)

Area	Cost
Revenue Mining	2,958
Revenue Milling	-
G&A	3,866
Surface Operating Costs	158
Total	\$6,982

Source: OSMI, 2018

21.1.3 Processing Plant Capital Cost Estimate

The cost for the processing plant, as described in the following sections, includes the primary constructed features needed to upgrade the plant based on design completed by Barr. Some of the capital costs being provided by OSMI are for portions of the Project not designed or evaluated by Barr.

Some of the infrastructure features are also incorporated in the capital cost estimate for the processing plant including:

- Canopy modification at portal;
- Enclosure for new diesel generator;
- Canopy over existing transformers;
- Compressor enclosure;
- Switchyard / battery building;
- Dry room expansion;
- Reagent building; and
- The capital costs are based on firm price bids. At the level of design and bid, the capital cost is accurate to within -0% +10%.

The plant capital costs are summarized in Table 21-3.

Mill	Unit Cost	Number Req.	Initial	Sustaining	Total
Mill Construction Equipment		-			
Crushing	855.2	1	855.2	-	855.2
Milling	47.9	1	47.9	-	47.9
Classification	15.5	1	15.5	-	15.5
Lead Flotation	255.5	1	255.5	-	255.5
Zinc Flotation	91.2	1	91.2	-	91.2
Lead Conc. Thickening	72.0	1	72.0	-	72.0
Zinc Conc. Thickening	60.9	1	60.9	-	60.9
Tailings Thickening	0.0	1	0.0	-	0.0
Reagents	37.7	1	37.7	-	37.7
Fresh Water	0.0	1	0.0	-	0.0
Compressed Air	219.9	1	219.9	-	219.9
Mill Pump Package	702.7	1	702.7	-	702.7
Electrical and Instrumentation	947.1	1	947.1	-	947.1
New Rod Mill Liners and Removal of Old	42.0	1	42.0	-	42.0
Operator Sound Booths	1.2	1	2.4	-	2.4
Ball Charge Kibble	1.1	2	1.1	-	1.1
Tails Thickener enclosure	83.5	1	83.5	-	83.5
Complete assay lab	393.0	1	393.0	-	393.0
Grouting in Shop and Mill	140.6	1	140.6	-	140.6
Crusher gallery hole and sump	55.0	1	55.0	-	55.0
Pi Server	94.0	1	94.0	-	94.0
Subtotal Mill Equipment Capital Before Contingency			\$4,117	\$ -	\$4,117
5% Contingency			205.9	-	205.9
Total Mill Equipment Capital			\$4,323	\$ -	\$4,323

Table 21-3: Mill Equipment, Engineering and Construction Cost (US\$000's)

Mill	Unit Cost	Number Req.	Initial	Sustaining	Total
Mill and Buildings					
200 - Crushers, Conveyors & Dry Screen	1,467.7	1	1,467.7	-	1,467.7
300 - Rod Mill, Ball Mill, Wet Screen	1,574.9	1	1,574.9	-	1,574.9
400 - Conc. Thickeners and Filter Press	51.6	1	51.6	-	51.6
500 - Tails Thickening and Tails Press	0.8	1	0.8	-	0.8
700 - Reagents and Reagent Building	1,245.6	1	1,245.6	-	1,245.6
800 - Water & Air Systems	79.2	1	79.2	-	79.2
Commissioning	30.0	1	30.0	-	30.0
Mill Procurement and Construction Management	512.1	1	512.1	-	512.1
Subtotal Mill Engineering and Construction Contracts			\$4,962	\$-	\$4,962
10% Contingency			496.2	-	496.2
Total Mill Engineering and Construction Contracts			\$5,458	\$-	\$5,458
Subtotal Mill Equipment, Engineering and Construction Capital Before Contingency			\$9,079	\$ -	\$9,079
Total Contingency			702.0	-	702.0
Total Mill Equipment, Engineering and Construction Capital			\$9,781	\$ -	\$9,781

Table 21 3: Mill Equipment, Er	ngineering and Construction	Cost (US\$000's) (continued)

Source: OSMI and Barr, 2018

Basis of Estimate

The primary capital costs are obtained from contractors bidding on a completed design package as follows:

- Barr completed detailed engineering design and issued drawings and specifications for those features under their scope in April 2017.
- In June 2018, bids were received and tabulated by OSMI.
- OSMI provided cost data for several other capital costs not in the contractor's scope of supply as shown in the following sections.

The sources of data for the various portions of the estimate are as described in Table 21-4.

Table 21-4: Process Facilities Basis of Costs

Description	Basis
Process Facilities Design	
Equipment Selection – Barr Design	Detailed design (Barr) through issue for construction
Equipment Selection – OSMI Design	by OSMI
General Arrangement Drawings	Detailed design (Barr) through issue for construction
Mechanical and Structural Drawings	Detailed design (Barr) through issue for construction
Electrical Drawings	Detailed design (Barr) through issue for construction
Specifications	Detailed design (Barr) through issue for construction
Electrical Infrastructure Definit	ion
Existing Services	Known– Based on limited site inspection and data provided by OSMI
Design Basis	Preliminary – Based on limited site inspection and data provided by OSMI
Layout	Detailed design (Barr) through issue for construction
Capital Cost Estimating Method	dology
Features of Barr's design	Contractor bids, firm lump sum pricing tabulated on the basis of RFP prepared by OSMI
Equipment or systems procured by OSMI	Cost provided by OSMI
Site Demolition	Cost provided by OSMI
Emergency Generator	Cost provided by OSMI
Water Treatment Plant	Cost provided by OSMI
Mobile equipment	Cost provided by OSMI
Other misc. costs	OSMI or Lycopodium PFS (Lycopodium, 2016)
Owner's Costs	Excluded ⁽¹⁾
Vendor Representatives	Excluded
First fill reagents and consumables	Excluded
Working Capital	Excluded ⁽¹⁾
Spares	Included in procurement costs for equipment per OSMI
Owner's Project Team	Excluded ⁽¹⁾
Project Insurances and Permits	Excluded ⁽¹⁾
Sterilization Drilling	Excluded ⁽²⁾
Plant preproduction expenses (recruiting, relocation, etc.)	Excluded ⁽¹⁾
Training	Excluded ⁽¹⁾
Owners Expenses	Excluded ⁽¹⁾
Duties and Taxes	Excluded
Escalation	Excluded
Source: OSMI and Barr. 2018	•

Source: OSMI and Barr, 2018

(1) Costs included in other areas of capital estimate

(2) Cost not applicable to the Project

21.1.4 Mining Capital Cost Estimate

The mining capital was developed based on a combination of quotations, first principles, and allowances. The mine capital consists of the mine equipment and mine engineering and construction contracts required to upgrade the mine. The upfront capital includes US\$13.6 million in equipment and contracts/engineering including contingency. The four major contractor projects make up US\$19.4 million of the US\$21.1 million total. Table 21-5 shows show the mine equipment and mine engineering and construction contract summary. Additionally, mine development costs are included in the development capital pre-production costs summarized in Table 21-2. The construction period is estimated to be six months with a two month ramp-up (the end of the ramp-up phase is defined as

when the Project has its first month of positive operating margin). The Project will incur total costs of US\$36.8 million from the start of construction through the end of the 2 month ramp-up phase.

Table 21-5: Mine Equipment, Engineering and Construction Capital (costs in US\$000's)

Mine	Unit Cost	Number Req.	Source	Initial	Sustaining	LoM
Toilets for underground total of 2/yr	20.9	4	Minearc	83.6	-	83.6
10 inch air line for the mine – 3,000 ft	187.0	1	Munro	187.0	-	187.0
8 in air line for mine – 4,800 ft	115.0	1	Munro	115.0	-	115.0
Koehler Mine lights (Cost for 2x40 lights plus chargers)	35.0	2	United central	70.0	-	70.0
Replacement Air Compressor (250 hp) RS1 851 IR	85.0	1	Ingersoll Rand	85.0	-	85.0
Upgrade Underground Phone System	5.0	1	United central	5.0	-	5.0
Stopers	4.6	20	BTE	92.0	-	92.0
Jacklegs + legs	4.6	10	BTE	45.5	-	45.5
Air Doors	29.4	3	American Mine Door	88.2	-	88.2
10 hp Air Joy Slushers	33.0	9	Nelmaco	297.0	-	297.0
Slusher Buckets	3.0	9	Nelmaco	27.0	-	27.0
Arkbro dbl drv raise climber (complete w/ rail)	568.7	1	Arkbro	568.7	-	568.7
Arkbro sngl drv raise climber (complete with rail)	458.4	1	Arkbro	458.4	-	458.4
Rail Package for OSMI raise climber	157.8	1	Arkbro	157.8	-	157.8
Rail Mancar for mining crews	17.1	1	ME	0.0	17.1	17.1
Rail 4 Ton Locomotive rebuild and charger	30.0	2	Philips	30.0	30.0	60.0
Rail 9 Ton Locomotive Diesel	105.0	1	ME	0.0	105.0	105.0
Rail 4 Ton Granby Muck Cars Repairs	2.4	16	ME	38.4	-	38.4
Rail 4 Ton Granby Muck Cars New	9.2	15	ME	138.7	-	138.7
Rocker Dump muck car @ 26 cu ft 2 Ton.	5.7	30	ME	170.6	-	170.6
Long Deck flat car Boggied	12.5	1	ME	12.5	-	12.5
Small standard flat car	7.0	4	ME	28.0	-	28.0
4 Ton Mancha trammer /w Battery and Charger	37.5	4	ME	150.0	-	150.0
2 1/2 ton mancha battery-	10.0	6	Philips	20.0	40.0	60.0
4 ton battery motor rebuild	30.0	1	Philips	0.0	30.0	30.0
2 1/2 ton mancha rebuild- 2 @ \$30,000 each	30.0	1	Philips	30.0	-	30.0
Fan Raise Bore 60 hp	15.0	1	Spendrup	15.0	-	15.0
Fan Upper levels fans - 10 hp	40.5	2	Spendrup	81.0	-	81.0
Fan #1 Shaft - 100 hp	22.5	1	Spendrup	0.0	22.5	22.5
Fan 2350 Level - 80 hp	24.0	1	Spendrup	0.0	24.0	24.0
Fan Lower Levels - 40 hp	16.0	2	Spendrup	0.0	32.0	32.0
22-B Mucking Machine Eimco Repair	25.0	1	ME	25.0	-	25.0
21-B Mucking Machine Eimco Repair	39.0	2	ME	78.0	-	78.0

Table 21 5: Mine Equipment, Engineering and Construction Capital (costs in US\$000's) (continued)

Mine	Unit Cost	Number Req.	Source	Initial	Sustaining	LoM
12-B Mucking Machine	29.2	4	ME	116.8	-	116.8
Jim Crow rail bender	3.5	3	Sunbelt.	10.5	-	10.5
Track Jack 10 total @ \$1,100 each	1.1	10	Melcher	11.0	-	11.0
Rail hole Punch	3.5	1	Melcher	3.5	-	3.5
Shotcrete delivery car	55.9	1	ME	55.9	-	55.9
Shotcrete rail set up and Shotcrete	15.0	1	In house	15.0	-	15.0
24" Vent Hard Line 3000 feet plus fittings	50.1	1	FnH	50.1	-	50.1
Rail Switches 40lb- 18 total (rail yard and intersection)	5.4	18	Harmer Steel	96.3	-	96.3
Central Water system at Terrible Decline	30.0	1	Munroe	30.0	-	30.0
Powered Portable Turnout	16.7	2	ME	33.4	-	33.4
Portal Heat Exchanger - Design	5.0	1	Ingersoll Rand	5.0	-	5.0
Dump Wall Refurbishment	30.0	1	Eng Estimate	30.0	-	30.0
Maran Car	35.0	1	ME	35.0	-	35.0
Subtotal Mine Equipment Capital Before Contingency				\$3,590	\$301	\$3,890
5% Contingency				179.5	15.0	194.5
Total Mine Equipment Capital				\$3,769	\$316	\$4,085
Raise Bore and Alimak Hek (inc materials supplied by OSM)	3,473	1	Harrison Western	3,473	-	3,473
Rebuild # 1 Shaft and Hoist Installation (TBD on timing)	6,612	1	Harrison Western	-	6,612	6,612
#1 and #1.2 Alimak with lateral development with hoist and materials	4,566	1	Harrison Western	4,566	-	4,566
RaR #1 and #2 and Shaft Cave Rehab (total 275')	861	1	Harrison Western	861	-	861
Subtotal Mine Engineering and Construction Contracts				\$8,901	\$6,612	\$15,513
10% Contingency				890	661	1,551
Total Mine Engineering and Construction Contracts				\$9,791	\$7,273	\$17,064
Subtotal Mine Equipment, Engineering and Construction Capital Before Contingency				\$12,491	\$6,913	\$19,403
Contingency				1,070	676	1,746
Total Mine Equipment, Engineering and Construction Capital				\$13,560	\$7,589	\$21,149

Source: OSMI, 2018

Page 296

21.1.5 Surface Capital Cost Estimate

The mobile equipment that supports the surface activities for the mine, mill, and tailings facility are included in this summary. Table 21-6 shows the details of the US\$1.2 million of capital for surface equipment.

Surface	Unit Cost	Number Req.	Source	Initial	Sustaining	LoM
Hyster 9K forklift	23.4	2	Illinois Lift	46.8	-	46.8
Cat D-5 Dozer	78.0	1	Sunbelt	78.0	-	78.0
Snow Blower for Loader (year 2)	222.0	1	Kodiak	-	222.0	222.0
CAT IT38	150.0	1	CAT Online	150.0	-	150.0
Bobcat E20 Mini Excavator	27.5	1	Sunbelt	27.5	-	27.5
Skid Steer snow thrower	7.9	1	Sunbelt	7.9	-	7.9
4x4 shuttle buss	35.0	6	Midwest Truck	210.0	-	210.0
Light passenger vehicles	35.0	4	Dave Smith	140.0	-	140.0
Retooling	250.0	1	Estimate	250.0	-	250.0
Subtotal Surface Equipment Capital Before Contingency				\$910.2	\$222.0	\$1,132.2
5% Contingency				45.5	11.1	\$56.6
Total Surface Equipment Capital				\$955.7	\$233.1	\$1,188.8

Table 21-6: Surface Equipment Capital (US\$000's)

Source: OSMI, 2018

21.1.6 Infrastructure Capital Cost Estimate

The infrastructure includes projects to improve and upgrade the electrical system, building upgrades, purchase a water treatment plant, and tailings expansion. Upgrade of the buildings is the largest expense at US\$1.3 million of the US\$3.5 million (Table 21-7).

Table 21-7: Infrastructure Capital (US\$000's)

Infrastructure	Unit Cost	Number	Source	Initial	Sustaining	LoM
Mine site backup generator 300kW + Day Tank	495.0	Req.	Sunbelt	495.0	0.0	495.0
5KV 600 Amp Switches total of 4 switches	22.3	4	Intermountain Electronics	44.5	44.5	89.0
300KVA 4160 480/208 MPC	45.2	2	Intermountain Electronics	45.2	45.2	90.5
500 KVA 4160 480/208 MPC	88.9	1	Atlas Electric	0.0	88.9	88.9
1000' ea 2/0 and 4/0 GGC (1M and 1F End)	36.3	1	Intermountain Electronics	36.3	0.0	36.3
Internet and Mine Site Upgrade	65.0	1	In-house	65.0	0.0	65.0
Gas and Diesel Tanks at Warehouse	26.0	1	Parish Oil	26.0	0.0	26.0
Subtotal Infrastructure Equipment Capital Before Contingency				\$712	\$179	\$891
5% Contingency				35.6	8.9	44.5
Total Infrastructure Equipment Capital				\$748	\$188	\$935
Site Infrastructure Buildings	1,328.6	1	Brahma	1,328.6	-	1,328.6
Water Treatment Plant	225.0	1	NALCO	-	225.0	225.0
Atlas Tailings Expansion	793.2	1	Blackford	793.2	-	793.2
Subtotal Infrastructure Engineering and Construction Contracts				\$2,122	\$225	\$2,347
10% Contingency				212.2	22.5	234.7
Total Infrastructure Engineering and Construction Contracts				\$2,334	\$248	\$2,581
Subtotal Infrastructure Equipment, Engineering and Construction Capital Before Contingency				\$2,834	\$404	\$3,237
Contingency				247.8	31.4	279.2
Total Infrastructure Equipment, Engineering and Construction Capital				\$3,082	\$435	\$3,517

Source: OSMI, 2018

21.2 Operating Cost Estimate

The operating cost estimate is broken down by area including mining, processing, G&A, and surface operating costs. Operating costs were estimated by OSMI and Barr (process plant only). SRK has reviewed the operating cost build up and basis of estimates for mining, G&A and surface operating costs. Barr maintains responsibility for process operating costs. Contingency has not been included in the operating cost estimate. The estimate is based on Q2 2018 pricing. The operating costs are in US\$. No escalation has been included in the operating costs. The overall accuracy of the operating cost assumtions is estimated at $\pm 15\%$.

21.2.1 Operating Costs Assumptions and Qualifications

Foreign Exchange

All costs are estimated and quoted in US\$ so conversion of foreign exchange is not applicable.

Work Schedule

The process facility will operate on a 24 hour per day, 365 day basis with mill and mine operating costs based on an equivalent 337 day production period to account for delays and maintenance downtime. The mine will operate using two 10 hour shifts.

Wages and Salaries

Wages and salaries are built up with base salary or hourly rates multiplied by burden and, where appropriate, bonus. The base salary rates are based on OSMI established labor rates combined with a regional survey conducted by Management Resource Consulting (MRC). The base salary rate is multiplied by a burden of 26%, developed based on current OSMI labor rates (Table 21-8). Bonuses of 50% of base rates are included for 16 Miner I and 20 Miner II level miners.

Table 21-8: Burden Cost Buildup

Item	Value
Total Annual Salary	\$2,482,798
Employer Social Security	\$153,933
Employer Medicare	\$36,001
Federal Unemployment Insurance	\$336
State Unemployment Insurance	\$1,982
Total Annual Payroll Cost	\$2,675,051
Employer Share Labor Costs (US\$)	\$192,252
Employer Share Labor Costs (%)	7.7%
Other Burden Costs	
Employee and Employer Health Insurance	\$342,355
Less Employee Health Care Contribution	\$(69,600)
Workmens Comp	\$111,864
Employer 401k Contribution	\$49,656
Payroll Processing	\$12,124
Total Annual Other Burden Costs (US\$)	\$446,399
Total Annual Other Burden Costs (%)	18.0%
Total Burden Rate	25.7%

Source: OSMI, 2017

Fuel Costs

Fuel costs are not a substantative portion of the operating costs at this mine as it is primarily driven by electrical and air equipment. Fuel costs for the study are based on current costs from local suppliers. The current diesel cost is US\$2.38/gallon. The gasoline price is US\$2.49/gallon.

Power Costs

Power is supplied to the site through an existing three phase 12.47 kV overhead powerline owned and operated by San Miguel Power Association. The line has a capacity of 3 MW. The rate for overhead powerline electricity is US\$0.071kWh, with an additional demand charge of US\$17/kw.

21.2.2 Operating Cost Summary

The operating cost summary is presented in Table 21-9 and amounts to US\$251/st, averaged over the LoM. Operating costs during the first five years of operations average US\$254/st of ore. Operating costs during the preproduction period are included in the capital cost estimate.

Revenue Mine	L	.oM	First 5 Years		
Operating Costs	US\$000's	US\$/st RoM	US\$000's	US\$/st RoM	
Revenue Mining	\$54,895	\$95	\$47,990	\$103	
Revenue Milling	\$29,291	\$51	\$23,796	\$51	
G&A	\$53,530	\$93	\$41,894	\$90	
Surface Operating Costs	\$6,671	\$12	\$5,383	\$12	
Total Operating Costs	\$144,387	\$251	\$119,062	\$254	

Table 21-9: Operating Cost Summary

Source: OSMI, SRK 2018

21.2.3 Mining Operating Cost Estimate

The mining operating cost is primarily labor with expense for materials and equipment operations. The operating cost breakdown by activity is summarized in Table 21-10. The stoping cost is approximately 60% of the total mining cost. A summary of the key unit cost drivers for the operating cost estimate as well as advance rates is included in Table 21-11. The drilling budget allows approximately 5,000 ft of drilling, logging, and sampling per year.

Table 21-10: Mining Operating Cost by Activity

Area	LoM Costs (US\$000's)	Preproduction (US\$000's)	Production (US\$000's)	US\$/st ore
Development	19,903	2,808	17,095	30
Stoping	32,697	0	32,697	57
Haulage	4,258	150	4108	7
Replacement Drilling	995	0	995	2
Total	\$57,853	\$2,958	\$54,895	\$95

Source: OSMI, SRK 2017

Item Type	Item		Developr (1	nent Size t)	•	Units	Unit Cost	Total Cost	Number	Advance per Shift	Tonnage per Shift
		Width 1	Width 2	Height	Distance		(US\$)	(US\$)	of Shifts	(ft)	(st)
Infrastructure Costs	#1 Shaft Hoisting					\$/st	\$4				
	Secondary Shaft Hoisting					\$/shift	\$127				
	Main Track Haulage										
	Cost for First Diesel Muck Train					\$/st	\$2				
	Cost for Second Diesel Muck Train					\$/st	\$0				
	Cost for Electric Man/Materials Train					\$/shift	\$132				
	Total tons per shift one train					tons/shift/train	\$224				
	Level Haulage					\$/st	\$0				
Stoping Costs	Resue Stoping					\$/st	\$58			90.0	68.5
	Shrinkage Stoping					\$/st	\$24			60.0	48.7
	Shrink Free pull					\$/st	\$5				250.0
Lateral Development	7x9 Track Drift	7		9		\$/ft	\$381			8.4	45.1
	9x9 Track Drift	9		9		\$/ft	\$411			8.4	57.9
	Level Siding	12		9	100	\$/ft	\$266	\$26,617	13	8.0	73.8
	Drift Rehabilitation	2		9		\$/ft	\$260			12.0	18.5
	Resue Stope Scram	3		8		\$/ft	\$192			11.2	22.9
	Shrink Stope Scram	4		9		\$/ft	\$197			11.2	34.3
	Alimak Raise 3x9 Station Scram	3		9	50	\$/ft	\$233	\$11,626	6	8.4	19.3
	Alimak Raise 4x9 Station Scram	4		9	50	\$/ft	\$239	\$11,931	6	8.4	25.8
	Alimak Raise 9x9 Station Scram	9		9	50	\$/ft	\$279	\$13,929	6	8.4	57.9
	Alimak Raise 10x14 Station Scram	10		14	50	\$/ft	\$408	\$20,392	9	5.6	66.8
	Alimak Raise Dog Holes	3		7	12	\$/ft	\$187	\$2,248	1	11.2	20.0
	Alimak Standard Nest	14		10	50	\$/ft	\$553	\$27,651	12	4.2	50.1
	Alimak Hoist Nest	14		10	75	\$/ft	\$553 \$250	\$41,476	18	4.2	50.1
	Shrink Cut and Hog Pockets	6		8	10	\$/ft	\$259	\$2,586	1	8.4	34.3
	Alimak Installation Switch Installation					ea	\$3,592 \$7,197		3	0.3 1.0	
Vertical Development	Alimak Muck Raise	0	0			ea \$/ft			1		25.0
Vertical Development	Alimak Muck Raise	6 8	6 8			\$/ft	\$313 \$317			8.4	25.8 45.8
	Alimak Standard Raise	-	-			\$/ft	\$317 \$418			8.4 5.6	45.8 66.8
	Alimak Hoist Raise	10 6	14 6		25	\$/ft	\$418 \$244	\$6,104	3	5.6 8.4	25.8
	Alimak Chute Raise	8	8		25	\$/ft	\$244 \$249	\$6,104 \$6,234	3	8.4	45.8
	Carried Manway Raise	0	8		25	\$/ft	\$249 \$244	\$6,234 \$6,104	3	8.4	34.3
	Resue Chute Raise	4	1		25	\$/ft	\$214	\$5,354	2	11.2	15.3
	Service Manway Raise	6	12		25	\$/ft	\$346	\$8,649	2 4	5.6	34.3
	#1 Shaft Expansion	11	7		300	\$/ft	φ0+0	φ0,040	50	6.0	39.5
Timbering and Hoists	Timbering Standard Raise	8	8		000	\$/ft	\$421			8.0	00.0
initial and holdes	Timbering Hoist Raise	10	14			\$/ft	\$424			8.0	
	Timbering Alimak Finger Raise	6	6		25	\$/ft	\$293	\$7,317	3	8.0	
	Timbering Carried Manway Raise	6	8		25	\$/ft	\$294	\$7,349	3	8.0	
	Timbering Service Manway Raise	6	12		25	\$/ft	\$305	\$7,349	3	8.0	
	Resue Chute Package	4	4		25	\$/ft	\$302	\$7,561	3	8.0	
	Alimak Chute Package	8	8		25	\$/ft	\$348	\$8,689	3	8.0	
	Hoist Installation						Ŧ - -	,	21		
	Raise Rehab	6	8			\$/ft	\$421			8.0	
	Timbering #1 Shaft Expansion	11	7		300	\$/ft			50	6.0	

21.2.4 Processing Plant Operating Cost Estimate

The original processing plant operating cost estimates were developed by Lycopodium (Lycopodium, 2016), and were reviewed and updated by Barr as part of the design of the processing plant upgrades.

The process operating costs for the Project have been estimated under four functional headings:

- Labor provided by OSMI based on its staffing plan;
- Maintenance based on Lycopodium's PFS assumptions (Lycopodium, 2016);
- Operating consumables; and
- Power consumption.

The process operating cost estimate is expressed in US\$ and is accurate within ±15%.

Quantities and cost data were compiled from a variety of sources including:

- Metallurgical testwork and process modeling;
- Supplier quotations;
- Information supplied by OSMI;
- Lycopodium data from the 2016 PFS report; and
- First principles.

The annual process operating cost is estimated at US\$4.6 million per year or US\$51/st of ore. A breakdown of the operating cost centers are summarized in Table 21-12.

Area	Unit Costs US\$/st of Ore	Annual Cost US\$/y
Labor ⁽¹⁾	18.42	1,683,404
Maintenance	2.00	182,780
Lab (includes mine samples)	12.30	1,124,097
Reagents	3.17	289,706
Non-Reagent Consumables	3.29	300,673
Power Consumption (2)	11.58	1,058,296
Total	50.76	4,638,956

Table 21-12: Summary of Operating Costs – Processing Area

Source: Barr, 2018

(1) Includes all mill labor except mill manager who is carried in G&A. Excludes maintenance labor carried elsewhere.

(2) Processing area only.

Basis for Processing Plant Operating Cost Estimate

The process costs are presented in US\$ and are estimated on a pricing basis as of the second quarter of 2018.

The process operating cost estimate includes all direct costs associated with the Project to allow production of lead and zinc concentrate. The process operating costs commence from the RoM dump pocket.

Processing Plant Operating Cost Estimate Breakdown

Electrical Power

The process plant electricity consumption is determined based on the annual average running load, which is the annual average power draw. Table 21-13 separately lists consumption for areas not included in the processing plant, and these consumption values were provided by OSMI.

Electrical demand factors and utilization factors have been applied to the installed power to arrive at the annual average power draw, which is then multiplied by total hours operated per annum and the electricity price to obtain the plant power cost.

Electricity is provided by grid power. The power unit cost of US\$0.071/kWh as provided by OSMI has been used in the calculations. Demand charges shown in the table are based on April, 2018 electric bill from San Miguel Power Association invoice, assuming demand charge of \$17/unit. Units assumed to be average plant load of 1,373 kW plus the load of the largest motor in the mill (air compressor) of 350 kW.

Table 21-13 summarizes the power consumption rates and costs per plant area.

Area	Annual Average Operation Load (kW)	Annual Power Consumption (kW-hr)	Total Cost (US\$/st)	Cost/Year	Source
200 Area Transformer	321	2,246,714	\$1.74	\$159,403	Barr (usage) OSMI (unit cost)
300 Area Transformer	721	5,055,106	\$3.92	\$358,656	Barr (usage) OSMI (unit cost)
500 Area Transformer	182	1,467,987	\$1.14	\$104,153	Barr (usage) OSMI (unit cost)
800 Area Transformer	149	1,197,877	\$0.93	\$84,989	Barr (usage) OSMI (unit cost)
Demand Charges	1,723		3.85	\$351,527	Barr
Total Electrical Cost			\$11.58	\$1,058,527	

Table 21-13: Electrical Consumption and Costs (based on 91,390 st/y)

Source: Barr, 2018

Reagents

The reagents category (Table 21-14) covers those chemicals used in the processing of the ore within the processing plant. If used, water treatment plant reagents are not included. Laboratory testwork results were used where possible to determine the reagent consumption rates. In the absence of testwork data, reagent consumption rates are assumed based on generally accepted practice within the industry, and input from vendors.

Consumables	Consumption (units per st of rod mill feed)	Annual Consumption (Ib)	Unit Cost	Cost/Year	Source
Hydrated Lime	4.30 lb	392,977	\$0.25/lb	\$98,244	Testing/Lyco (unit cost)
Xanthate (SIPX)	0.04 lb	3,656	\$0.92/lb	\$3,369	Testing/Lyco (unit cost)
Aero 242	0.01 lb	914	\$3.75/lb	\$3,426	Testing/Lyco (unit cost)
Aero 3418A	0.02 lb	1,828	\$5.84/lb	\$10,674	Testing/Lyco (unit cost)
MIBC – Frother	0.11 lb	10,053	\$2.49/lb	\$25,032	Testing/Lyco (unit cost)
Flocculant – Pb Thickener	1.07 g	216	\$1.80/lb	\$388	Barr
Flocculant – Zn Thickener	0.42 g	85	\$1.80/lb	\$152	Barr
Flocculant – Tails Thickener	21.7 g	4,372	\$1.80/lb	\$7,870	Barr
Sodium Metabisulfite	0.525 lb	47,980	\$0.53/lb	\$25,429	Testing/Lyco (unit cost)
Copper Sulfate	0.26 lb	23,761	\$2.62/lb	\$62,255	Testing/Lyco (unit cost)
Zn Sulfate	0.525 lb	47,980	\$1.10/lb	\$52,778	Testing/Lyco (unit cost)
Total Reagent Cost					\$289,618
Reagent Unit Cost					\$3.17/st

Table 21-14: Reagent Costs (based on 91,390 st/y)

Source: Ouray, 2018

Non-Reagent Consumables

The non-reagent consumables category covers all wear parts and consumable materials in the process plant except reagent which are described in the previous section. Consumables include liners and media for equipment such as crushers and mills, and filter press cloths. Previous data from the 2016 PFS (Lycopodium, 2016) were used for filter cloth. Rod mill and ball mill media consumption was based on experience assuming hardened steel rods and forged balls. Rod mill liner cost was assuming steel liners, based on our past experience and consistent with the recommendations in this report. The use and cost is summarized in Table 21-15.

Consumables	Consumption (units per ton of rod mill feed)	Annual Consumption	Unit Cost	Cost/Year	Source		
#1 Jaw Crusher Fixed Liner		3.5 sets/yr	\$3,008	\$10,600	Lyco PFS		
#1 Jaw Crusher Moving Liner		2 sets/yr	\$2,365	\$4,800	Lyco PFS		
#2 Jaw Crusher Fixed Liner		3.5 sets/yr	\$8,460	\$29,600	Lyco PFS		
#2 Jaw Crusher Moving Liner		2 sets/yr	\$9,000	\$18,000	Lyco PFS		
Rod Mill Liners		0.7 sets/yr	\$40,000	\$28,000	OSMI		
Rod Mill Grinding Media	0.9lb	90,810 lb	\$1,500 st	\$61,500	Barr (usage) OSMI (cost)		
Ball Mill Liners		0.5 sets/yr	\$40,000	\$20,000	OSMI		
Ball Mill Grinding Media (forged)	0.8lb	80,700 lb	\$1,200 st	\$44,000	Barr (usage) OSMI (cost)		
Filter Cloth Conc (3 Units)		12 sets/yr	\$3,000/set	\$36,000	Lyco PFS		
Filter Cloth Tailings (2 Units)		8 sets/yr	\$6,000/set	\$48,000	Lyco PFS		
Total Consumables Costs \$300,500							
Consumables Unit Cost					\$3.29/st		

Source: Barr, 2018

21.2.5 Surface Operating Cost Estimate

Operating costs were developed for surface operations through budgetary quotes or on a first-principals basis. The cost areas estimated include light vehicles, surface equipment, concentrate haulage and winter month access road operations. Costs are applied as lump, fixed monthly values during applicable periods of operation and are independent of production rate. The majority of the surface operating cost is incurred through concentrate haulage and surface equipment. Surface operating costs are summarized in Table 21-16.

Table 21-16: Surface Operating Costs (US\$000's)								
Area	LoM Costs	Preproduction	Production	US\$/st ore				
Surface Consumables	83	6	77	0.13				
Winter Road Operations and Alpine Safety	884	26	858	1.49				
Conc. Haulage	2,698	0	2,698	4.69				
Light Vehicles -Existing	388	28	360	0.63				
Light Vehicles - New	598	43	554	0.96				
Surface Equipment Cost	2,178	55	2,123	3.69				

\$6,872

Table 21 16: Surface Operating Costs (US\$000'a)

Source: OSMI, 2018

Total

21.2.6 G&A Operating Cost Estimate

G&A costs were developed for the Project on a first principles basis and are inclusive of Project and corporate G&A costs. Costs include labor, utilities, IT, offices, lab, insurance, health, safety, environmental and other miscellaneous expenses. The largest contributors to the G&A costs are insurance, labor and utilities. G&A costs are treated as fixed costs (i.e. independent of production rate). Ad Valorem and Severance taxes also flow through the G&A cost calculation, which provides a means for their deduction from other taxes. Overall G&A costs are summarized in Table 21-17. A breakdown of G&A labor costs is provided in Table 21-18.

\$158

\$6,671

\$11.60

Area	LoM Costs	Preproduction	Production	US\$/st ore
Owner's Cost	25,137	3,866	21,270	37
Administrative	7,320	0	7,320	13
Technical	5,426	0	5,426	9
Mining	5,116	0	5,116	9
Mill	1,129	0	1,129	2
Maintenance	9,423	0	9,423	16
Warehouse	3,844	0	3,844	7
Total	\$57,396	\$3,866	\$53,530	\$93

Table 21-17: G&A Operating Cost Summary

Source: OSMI, 2018

Table 21-18: G&A Labor Cost Summary ⁽¹⁾

Position	Max Number	Annual Cost Total (US\$)
Administrative	8	1,140,853
Technical	8	845,659
Mining	8	797,268
Mill	1	175,980
Maintenance	16	1,468,578
Warehouse	9	599,086
Total G&A Labor	50	5,027,425

Source: OSMI

(1) Included in Summary Table 21-17

22 Economic Analysis

The indicative economic results summarized in this section are based upon work performed by SRK or received from OSMI and audited/modified by SRK. The results have been prepared in an economic model on a monthly and 100% equity basis, in constant 2018 U.S. dollars (i.e., model costs and revenues are not escalated for inflation).

22.1 Principal Assumptions and Input Parameters

An economic model was prepared by OSMI. SRK audited the OSMI model and provided feedback and modifications to the model, as appropriate. Principal assumptions, which are consistent with standard industry practice, are summarized in Table 22-1.

Table 22-1: Basic Model Parameters

Description	Technical Input
Model Assumed Start Date	April 30, 2019
Preproduction Period	6 months
Ramp-up Period	2 months
Mine Life	77 months ⁽¹⁾
Mine Operating Days per Year	337 days per year (2)
Mill Operating Days per Year	337 days per year (2)
Designed Production Rate	273 st/d ⁽³⁾
Discount Rate	5%

Source: OSMI, 2018

(1) Inclusive of ramp-up period

(2) 365 days/year adjusted for downtime

(3) Effective daily throughput based on the 337 operating days per year

The model is based on a process definition for metal recovery into separate lead and zinc flotation concentrates. It is assumed that copper is not recovered into a separate concentrate and economic value associate with copper will not be recovered from the lead or zinc concentrates.

22.2 Cash Flow Forecasts and Annual Production Forecasts

The following tables contain the production and cost information developed for the Project. Table 22-2, Table 22-3 and Table 22-4 summarize the estimated mine production, mill production and concentrate production, respectively, over the 77-month (approximately 6.5 year) reserve life.
Table 22-2: Mine Production Summary

Description	Value	Units
UG Ore Mined	575	kst
Daily Mining Output	267 (1)	st/d
Mill Feed Head Grade and Contained Metal		
Silver Grade	24.70	oz/st
Gold Grade	0.06	oz/st
Copper Grade	0.24	%
Lead Grade	4.97	%
Zinc Grade	2.15	%
Contained Silver Feed	14,201	koz
Contained Gold Feed	33	koz
Contained Copper Feed	2,790	klb
Contained Lead Feed	57,126	klb
Contained Zinc Feed	24,703	klb

Source: OSMI, 2018

(1) 365 day per year basis (i.e., includes down time)

Table 22-3: Mill Production Summary

Description	Value	Unit
Total Ore Processed	575	kst
Daily Process Throughput	267 (1)	st/d
Overall Effective Silver Recovery (2)	95	%
Overall Effective Gold Recovery ⁽²⁾	69	%
Overall Effective Copper Recovery ^{(2), (3)}	90	%
Overall Effective Lead Recovery (2)	95	%
Overall Effective Zinc Recovery (2)	94	%
Recovered Silver	13,543	koz
Recovered Gold	22.5	koz
Recovered Copper	2,499 ⁽³⁾	klb
Recovered Lead	54,525	klb
Recovered Zinc	23,267	klb

Source: OSMI, 2018

(1) 365 day per year basis (i.e. includes down time).

(2) Effective Recovery is (total recovered metal)/(total metal contained in feed); Actual modelled recovery is based on monthly average mill feed head grade ranges and the corresponding recovery as described in Section 13.4 in Table 13-32.

(3) Modelling assumes no value for recovered copper.

Description	Value	Units
Copper Conc.	0.0	kst
Lead Conc.	41.5	kst
Zinc Conc.	16.9	kst
Overall Silver Payability	95.0%	%
Overall Gold Payability	87.0%	%
Overall Copper Payability	0.0%	%
Overall Lead Payability	94.0%	%
Overall Zinc Payability	66.7%	%
Payable Silver	12,865	koz
Payable Gold	19.6	koz
Payable Copper	0	klb
Payable Lead	51,256	klb
Payable Zinc	15,527	klb

Table 22-4: Concentrate Production Summary

Source: OSMI, 2018

A summary of the NSR for the Project is shown in Table 22-5. The terms used in the model for the sale of lead and zinc concentrates are based on a market study commissioned by OSMI for concentrate sales. The market study provided potential ranges of values that may be received by OSMI on key economic terms. Values were selected from within those ranges based on the following rationale:

- Zinc concentrates are significantly lower volume and a lower revenue source, therefore a
 conservative approach was taken in terms of not being paid for the silver and gold content
 despite the market study's recommendation to the contrary. OSMI selected the middle of the
 range for freight costs for the zinc concentrates given the strategy to minimize shipping costs
 instead of maximizing metal payability.
- For the lead concentrates, OSMI selected the highest part of the range for freight as OSMI intends to maximize payability on lead concentrate as it is the main source of revenue for the Project. Therefore, OSMI will seek to ship it to the optimal location for sales terms. OSMI selected the mid-range numbers for the balance of terms except for arsenic and antimony penalties where OSMI selected the highest end of the range, again for conservatism similar to freight where payability is the primary focus.

The TEM assumes that payment terms are based on a schedule of 90% 30 days after delivery and 10% received 90 days after delivery.

Page	309
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Description	Units	Unit Value	Life of Reserve Value (US\$000's)
Metal Prices / Gross Revenue			
Silver	(US\$/oz)	18.50	237,995
Gold	(US\$/oz)	1,300	25,461
Copper	(US\$/lb)	0	0
Lead	(US\$/lb)	1.00	51,256
Zinc	(US\$/lb)	1.20	18,633
Pb Conc.			
Gross Revenue	US\$000's	N/A	314,713
Zn Conc.			
Gross Revenue	US\$000's	N/A	18,633
TC/RC Costs			
Pb Smelter Treatment	US\$/st conc.	181.44	7,530
Silver Refining	US\$/payable oz	1.00	12,865
Gold Refining	US\$/payable oz	9.00	176
Sb Penalty	US\$/st	28.46	1,181
Zn Smelter Treatment	US\$/st conc.	158.76	2,685
As Penalty	US\$/st	4.88	82
Net Conc. Revenue	US\$000's	N/A	308,825
Freight/Insurance			
Freight (10% Moisture)	US\$/wst	181.44	11,237
Insurance/Assay Costs	US\$/wst	27.22	1,749
Net Smelter Return	US\$000's	N/A	295,839

Table 22-5: Net Smelter Return

Source: OSMI, 2018

The following provides the basis of the modeled plan for this FS:

- A mine life of 77 months (roughly 6.5 years);
- Constant LoM metal prices of US\$18.50/oz Ag, US\$1,300/oz, US\$1.00/lb Pb, and US\$1.20/lb Zn, which were based on S&P Global Market Intelligence's forecast for 2020, dated June 5, 2018, in conjunction with Consensus Economics Inc.'s long term forecast;
- Treatment/Refining charges, penalties and freight inputs per Table 22-5, as supported by an independent third party report from Bluequest;
- Third party private royalty input of 2% annual NSR to a maximum of US\$9. Once that has been paid a further potential 1% NSR if the silver price is above US\$60/oz, up to a maximum of an additional US\$9 million;
- Capital and operating costs described in Section 21;
- Working capital assumptions:
 - 30 day delay to receive 90% of payable revenue from concentrate sales. Balance (10%) received after 90 days; and
 - Assume 30 days accounts payable (A/P) and 30 days consumable inventory will net each other out each year.

The economic results, shown in Table 22-6, indicate an after-tax NPV 5% of US\$74.9 million and an IRR of 71.2%. Capital payback is forecast as 1.9 years. Total production costs (inclusive of sustaining capital) are forecast to be US\$15.41/oz payable silver excluding any by-product credits. The NSR from Au, Pb and Zn result in a by-product credit` of US\$7.41/oz of payable silver, reducing the total production cost estimate to US\$8.00/oz payable silver on a byproduct basis.

Reven	ue Allocation			
Payable Gross Revenue by Metal	Value	%	of Gross	Wtd. Average Prices
Silver	\$237,995	71%	\$18.50	US\$/oz Ag
Gold	\$25,461	8%	\$1,300	US\$/oz Au
Copper	\$0	0%	N/A	US\$/lb Cu
Lead	\$51,256	15%	\$1.00	US\$/lb Pb
Zinc	<u>\$18,633</u>	<u>6%</u>	\$1.20	US\$/lb Zn
Total	\$333,345	100%		
Estimate of Cash Flow				
	Value	% of G. Rev.		
Total Gross Revenue	\$333,345			
Smelting / Refining	(\$24,520)			
<u>Freight / Insurance</u>	<u>(\$12,986)</u>			
NSR Pre Royalty	\$295,839			
Royalties	(\$5,917)			
Total Net Revenue	\$289,922	87%		
Total Operating Cost	(\$144,387)	-42%		
Operating Profit (EBITDA) Pre-tax Cash Flow	\$145,535	45%		
Total Tax	(\$10,460)			
After Tax Cash Flow	\$135,076			
LoM Capital	(\$42,618)			
Pre-tax Undiscounted Free Cash Flow (US\$000)	\$102,918			
After-tax Undiscounted Free Cash Flow (US\$000)	\$92,458			
Discounted Cash Flow and Returns				
	After-Tax			
Undiscounted Free Cash Flow (US\$000)	\$92,458			
NPV US\$000 @ 5.0%	\$74,883			
IRR	71.2%			
Break Even Years	1.9			

Table 22-6: Life-of-Mine Indicative Pre-Tax and After -Tax Economic Results (in US\$000's)

Source: OSMI, 2018

The cumulative after-tax cash flow profile is presented in Figure 22-1. The cash flow profile shows steady positive cash flow over the life of the Mineral Reserve with initial production targeting higher grade portions of the reserve and therefore producing higher monthly production of payable silver, gold, lead and zinc.



Source: OSMI, 2018

Figure 22-1: Project After-Tax Metrics

All in Cash Cost calculations are summarized in Table 22-7.

Table 22-7: Life-of-Mine Total Production Cost Contribution (1)

Description	US\$000's	US\$/oz Ag	US\$/oz AgEq
Mining Operating Costs	54,895	4.27	3.05
Processing Operating Costs	29,291	2.28	1.63
G&A Operating Costs	53,530	4.16	2.97
Surface Operating Costs	6,671	0.52	0.37
Freight/Insurance	12,986	1.01	0.72
TC/RC	24,520	1.91	1.36
Royalties	\$5,917	0.46	0.33
Subtotal Operating Costs	187,810	14.60	10.42
Sustaining Capital	10,497	0.82	0.58
Total Production Costs After Sustaining Capital	198,307	15.41	11.01
By-Product Credits	95,350	7.41	N/A
Subtotal Operating Costs After By-Product Credits	94,460	7.19	N/A
Total Production Costs with By-Product Credits	102,957	8.00	N/A
Payable Ag Life of Reserve (koz)		12,865	
Payable Ag Equivalent Life of Reserve (koz)		18,019	

Source: OSMI, 2018

(1) All costs inclusive of ramp-up period.

Numbers may not add due to rounding and production tax cash flows paid after mining is completed

The Project will be subject to a variety of taxes at the state and federal level, including the following:

- Estimated combined Federal and State income taxes of 37.1%;
- State severance taxes of 2.25% on "Gross Income" after a US\$19 million per year deduction and subject to statutory limits and offsets including but not limited to the State Ad Valorem tax, and
- State Ad Valorem taxes of 4.3% on 25% of the "Ad Valorem Assessed Value", subject to statutory limits and offsets

Operating costs incurred prior to the start of production are amortized over the life of the reserve. New capital associated with Project development is assumed to be depreciated over a seven-year straight line schedule. Existing credits impacting the tax calculation include the following:

- Property, plant and equipment (PPE) subject to 39-year depreciation of US\$10.1 million,
- PPE subject to 7-year depreciation of US\$2.5 million, and
- Net operating losses of US\$14.5 million.

22.3.1 **Ownership Structure**

On May 8, 2014, Fortune Revenue obtained a 12% interest in the Project and operating authority for the mine, mill and surface operations via its wholly owned subsidiary FRSM. On October 1, 2014, FRSM acquired the balance of 100% ownership of the mine through an asset purchase agreement supported by senior secured financing (the "PFA") from Lascaux Resource Capital Fund I LP (LRC) via LRC-FRSM, LLC (LRC-FRSM). FML was the guarantor on the PFA. After default on the PFA, on July 17, 2015 FML and LRC-FRSM, LLC entered a Master Restructuring Agreement. As part of the MRA, 100% ownership of FRSM transferred to LRC-FRSM II, LLC, also held 100% by LRC. On July 21, 2015, FRSM changed its name to OSMI. OSMI currently owns and operates the site. Also, as part of the MRA settlement, the prepay facility was kept outstanding for potential beneficial tax structuring but LRC- FRSM deferred all required payments. In 2018, the interest and penalties of the facility were eliminated, and only the primary metal delivery obligations remain. As the facility is owned by a related party it is superficial to the economics of the Project and therefore is excluded from the analysis of this report.

On July 27, 2018, LRC-FRSM and LRC-FRSM II (collectively, "LRC Group") entered into a Letter of Intent to sell, respectively, the PFA and 100% of OSMI to Aurcana Corporation ("Aurcana") in exchange for the issuance of common shares of Aurcana to the LRC Group (the "Transaction"). Following the Transaction, including shares issued pursuant to an equipment purchase agreement for the benefit of Aurcana but prior to any shares issued as a result of an equity financing related to the Transaction, the LRC Group will own approximately 75% of Aurcana and Aurcana will own 100% of OSMI on a debt free basis, including 100% of the shares of common stock of OSMI and the PFA. The completion of the Transaction remains subject to the fulfillment of certain conditions, including the execution of a definitive binding agreement in respect of the Transaction, completion of due diligence, and receipt of shareholder and regulatory approvals.

22.4 Sensitivity Analysis

A standard deterministic sensitivity analysis was done on the model to show the impact to changes in key drivers to the Project economics, namely commodity prices, silver prices as a standalone,

operating costs (mining, processing, G&A and surface costs) and LoM capital costs. The results are presented in Figure 22-2. As shown in Figure 22-2, the Project is the most sensitive to changes in commodity price. For every 10% change in commodity prices, the Project after-tax NPV (5%) changes by approximately US\$20 million. The silver price drives approximately 2/3 of this change (i.e. changes in only the silver price, leaving other prices the same, results in a change in NPV5% of approximately US\$14 million). For every 10% change in capital and operating costs, the after-tax Project NPV (5%) changes by approximately US\$3.2 million and US\$9 million, respectively.



Source: OSMI, 2018

Figure 22-2: After-Tax NPV (5%) Sensitivity Chart (US\$000's)

23 Adjacent Properties

The Project is located in the Mount Sneffels District and there are many adjacent past producers. The Smuggler, a past producer, is located on the Telluride side of the ridge to the south of the Virginius Vein system; the Camp Bird Mine is located approximately 1.3 miles to the east of the Project; and the Idarado Mine is located approximately 5 miles southeast of the Project. In addition, there are numerous named and unnamed adits within a 5 mile radius of the Project, many of which are abandoned.

Mineralization on these properties is not indicative of mineralization at the Project and there are no immediately adjacent properties that have any bearing on the Project. Other ownership on mines which have not been explored including Hidden Treasure a past producer on the far southeast see map in Figure 23-1.





Figure 23-1: Location of the Camp Bird Mine Relative to the OSMI Boundaries

Mineralization on these properties is not indicative of mineralization at the Project and there are no immediately adjacent properties that have any bearing on the Project.

24 Other Relevant Data and Information

24.1 Project Implementation

24.1.1 Introduction

OSMI will conduct a restart program that will include surface and underground projects to move the Project to full production. OSMI developed an implementation plan that addresses the Project schedule, engineering and construction management, procurement, logistics, construction, construction contracting, temporary facilities, temporary utilities, Project planning/execution/reporting, pre-commissioning and commissioning, and startup/turnover. The plan also addresses recruiting and training of new employees.

The program will include projects on surface facilities, the processing plant, and the underground mine. The key construction activities are as follows:

- Shaft Rehabilitation and Hoist Commissioning (year 2);
- Borehole Rehabilitation;
- Mill Upgrades and Expansion; and
- Surface Facilities Expansion.

OSMI will self-perform a number of the activities and will also manage the overall program. Outside firms will be utilized for the #1 Shaft rehabilitation, raisebore rehabilitation, mill upgrade and surface infrastructure building installations. A procurement and materials management team will be put in place to support the restart project, the existing Ouray warehouse and the Project on-site facilities that will coordinate the logistics and control of materials, supplies and equipment needed for the restart. OSMI's new ERP system is currently being commissioned, was designed specifically to the Company's requirements, and will be used to track cost and procurement of materials. Construction of temporary facilities, housing, and general support of the Project are not required as the existing community and site facilities will be used for the restart effort. The Project restart schedule is developed and will take approximately 6 months before the first month of production and 8 months to complete construction, pre-commissioning and commissioning before cash flow positive including working capital and forecast concentrate payment terms. Full capacity is reached in month 10.

Month	0	1	2	3	4	5	6	7	8	9	10	11	12
Board Approval / Full Funding	х												
Order Long Lead Time Equipment	х												
Mine Development		X	х	х	х	х	х	х					
Construction, commissioning		х	х	х	х	x	х	x					
Start of Production								x					
Mill Ramp Up								x	х	х			
Cash Flow Positive										х	х	х	х
Full production cash positive											х	х	х

Figure 24-1 shows the projected restart schedule based on a notice to proceed.

Source: OSMI 2017

Figure 24-1: Overall Project Restart Schedule

The ramp up schedule to full production and cash flow positive consists of increasing mine production and mill throughput each month beginning in month seven. Figure 24-2 shows the planned mill throughput.

Month	7	8	9	10	11	12
Tons Milled Per Month	822	3,835	3,903	7,670	7,670	7,670

Source: OSMI

Figure	24-2.	Ramp-up	Throughput Plan
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24.1.2 Engineering and Construction Management

Detailed engineering is complete for the raise bore rehabilitation secondary escape system, # 1 Shaft rehabilitation and hoisting system (Harrison Western design), surface buildings and mill upgrade (Barr design). The designs have been completed to a detailed engineering level and quotations were obtained based on final designs. No further external engineering expense is expected. Any further engineering will be contractor responsibility as a portion of EPC costs in the capital budget.

Currently, the third-party firms that have completed engineering and/or bid for construction services as follows:

- Alimak Development and Installation Engineering and bid by Harrison-Western;
- #1 Shaft Rehabilitation Engineering and bid by Harrison-Western;
- Raise Bore Rehabilitation Engineering and bid by Harrison Western;
- Mill Upgrade and Construction Detailed engineering completed by Barr; Bid by Brahama Group Construction; and
- Site Infrastructure Buildings and Construction Detailed engineering completed by Barr; Bid by Brahama Group Construction.

Materials Management Support

The new OSMI ERP system currently being implemented will be used to track all orders of materials. Current staff include a warehouse tech along with two senior accountants. During startup a warehouse manager, purchasing agent, a buyer and five additional warehouse technicians will be hired scheduled to the requirements for the project. One warehouse tech will be assigned on a rotating shift up at the mine while the remaining technicians and staff will be located at the warehouse and mine site as needed. All materials will be delivered to the OSMI warehouse in Ouray, inventoried and then delivered to the site as needed. Local delivery companies are available to support large heavy loads that will be delivered to the mine site.

Construction Support

Construction support will be provided by the contractor awarded the contract. In addition, OSMI has qualified employees on staff that have extensive experience with constructing milling and other facilities. The construction of the current facilities was managed and/or self-performed by existing OSMI management and staff in 2013. Contractors will be used for the construction of the Borehole raise and #1 Shaft rehabilitation, certain Alimak developments and installations, certain rehabilitations, the mill reconstruction, the new change house and mill extension building.

24.1.3 Procurement

All incoming deliveries of equipment will be inspected prior to signing delivery receipt. Technical inspections will be conducted by OSMI staff with the proper discipline and knowledge of the equipment. All expediting will be managed by OSMI staff.

24.1.4 Logistics

OSMI leases a warehouse that is located eight miles from the mine site. The warehouse site includes inside and outside storage areas. There are two loading/unloading stations with forklift access. The warehouse site is easily accessible with adequate room for tractor/trailer deliveries. All incoming materials will be received at the Ouray warehouse location, inspected and compared against the receiving reports to ensure accurate and complete delivery of goods. All new equipment will be received and tagged with an equipment number.

During site construction, the construction manager will submit a transfer request to the warehouse manager with a scheduled date of transfer to the mine site. This transfer schedule will coincide with the construction schedule. The equipment needed for the site construction will be transferred by OSMI from the warehouse. Cranes, forklifts and front-end loaders, necessary for the proper handling of equipment and materials are available at the warehouse site and the Project site.

24.1.5 Construction

Project Management

During the construction phase, OSMI management will oversee contractor performance. Contractors will report daily on all activities to the OSMI functional manager. There will be three OSMI site managers reporting directly to the Mine Manager, Underground Superintendent, Mill Manager, and a temporary Surface Facilities Manager. OSMI will also provide construction inspectors out of the OSMI Technical Services Team which includes surveyors and engineers.

Project Controls

Daily inspections by OSMI will occur in each area where Project work is being conducted to ensure the work is properly executed and recorded. The process will verify progress billings and eliminate over charges and unnecessary delays.

Site Administration

OSMI will have dedicated personnel in each area to administer the contracts and provide the necessary guidance to ensure all aspects of the contract are carried out to specification and that all health and safety requirements are met.

Field Engineering

OSMI will provide the field engineering on projects that will completed by OSMI personnel. Any contract that requires outside engineering, the contracting firm awarded the contract will be responsible for field engineering.

Construction Supervision

The overall supervision of the contractors will be administered by OSMI management.

24.1.6 Construction Contracting

Contracting Plan

All contractors must have the necessary qualifications to complete the contract and they will be required to take the mandatory site health and safety training prior to the commencement of any work. They will provide daily updates on work performed, scheduling, etc. These items will be signed off daily from the functional manager overseeing that portion of the Project.

Contractors and Construction Labor

Contractors and their employees will be required to take the same orientation program that OSMI employees are required to take upon commencement of employment; i.e., medical, drug test, references, safety orientation, etc. All contractors will be required to have and document the requisite MSHA training.

24.1.7 Temporary Facilities

Living Accommodation

Living accommodations are well established in the surrounding area including the Cities of Ouray and Montrose and the Town of Ridgway.

Health and Medical

A pre-employment physical is required for all OSMI employees. OSMI has contracted with a local medical clinic located in the town of Ridgeway, Colorado, 10 miles from Ouray. This clinic also provides basic medical treatment and health monitoring. The town of Montrose is located 35 miles away and provides a full hospital.

First Aid Facility

Several members of the existing team have first responder training and can provide basic first aid. Mountain Medical in Ridgeway can also provide further first aid if required.

Communications

The mine site and warehouse currently have internet and phone communications. This system is budgeted for an upgrade in the FS at an estimated cost of US\$65,000. The new system will increase bandwidth and reliability with installed redundancy.

Nonhazardous Waste Disposal

Nonhazardous waste such as steel is generally recycled. A local company provides recycling dumpsters and removes the scrap steel. In the past OSMI has received payment for this, but it depends on the scrap steel market. Other nonhazardous waste such as wood is burned in a permitted burn area or disposed of in approved off-site facilities.

Hazardous Waste Disposal

The site generates very little hazardous waste and is currently an exempt small quantity generator. Items such as waste oil and ballast from fluorescent lights and any reclaimed reagents make up the most of Project hazardous waste. These items are placed in RCRA compliant storage facilities prior to off site disposal in accordance with all federal and state regulations.

24.1.8 Temporary Utilities

The mine has existing utilities for air, water, power and propane. During the construction phase, some of these utilities will become unavailable for brief periods of time. These outages will be coordinated to allow for minimal impact. Restroom facilities currently exist with a permitted septic system for each location on the Project site. Additional temporary bathrooms will be supplied by contractors as needed.

Water Supply and Distribution

Potable water is supplied to surface structures by capturing ground water located in two locations underground, the Portal Spring and Anglo Saxon crosscut. The water is treated and is routinely monitored according to OSMI's non-transient, non-community potable water permit. OSMI has a Certified Water Professional with Small Systems and Industrial class D certification on staff.

Plant process water is also provided from the mine. The mine makes more water than is currently needed and the excess is routed from the portal into a settling pond followed by the bio-reactive treatment system. Options exist to tie into other underground water sources should there be a problem with the current sources. OSMI also owns surface water rights in Sneffels Creek which bisects the property boundary near the surface facilities.

Temporary Power

A back up power generator producing approximately 1 MW of power currently exists on the site. Included in the restart capital costs is the purchase and installation of a 3.0 MkW generator capable of operating the entire Project site.

Fuel Supply and Storage

Fuel is supplied from local vendors. The lead time for receipt of gas and diesel is one to two days. The mine site has an existing diesel fuel storage tank of 10,000 gallons with secondary containment. The warehouse site also contains fuel storage for diesel and gasoline. The warehouse fuel storage is planned for an upgrade that will include two fuel tanks that each will store 1,000 gallons of gasoline and 1,000 gallons of diesel fuel. These new systems will have secondary containment and will be automated with fuel usage tracking systems. Fuel is available from multiple vendors.

Health, Safety and Environmental (HSE)

Health, Safety and Environmental (HSE) training and management is provided by employees on staff. A full-time safety manager manages all compliance, develops standard operating procedures and provides safety advice. OSMI also has a full time environmental engineer on staff providing compliance and training. The ramp up budget allows for the addition of a training coordinator and an additional part time environmental permitting coordinator. The training coordinator will be developing training modules for each of the departments and conducting training with assessments to confirm knowledge.

24.1.9 Project Planning, Schedule and Reporting

Project Schedule

An overall Project schedule was developed for construction and restart. Detailed engineering is complete for the mill, mine secondary escape, shaft work rehabilitation and site infrastructure buildings. Figure 24-3 shows the contractor construction schedule for the Project based on equipment lead times and projected winter impacts. Long lead equipment such as the rod mill and Derrick screens have

already been purchased. The Derrick screens are currently stored in the OSMI Ouray warehouse. All other long lead time equipment will be ordered immediately after Board approval of funding.

Mill Construction	Lead Time	1	2	3	4	5	6	7	8
Site Infrastructure Buildings	none	X	Х	Х	Х	х			
200- Crusher, conveyors, dry screen	12 to 24 weeks			x	x	x	x	x	
300- Rod mill, ball mill, wet screens	10 to 12 weeks			x	x	x	x		
700- Reagents and Reagent Building	6 to 10 weeks			x	x	x			
300- Flotation / Tank Cells	18 to 24 weeks					x	x	x	
400- Conc. Thickeners / Presses	18 to 24 weeks						x	x	
Commission Plant in mid month 7								X	х
Mine Construction									
Raise Bore and Alimak Hek		X	X	Х	Х				
Rehab Main Haulage at Runarounds #1 & #2 and Shaft Entrance		X	Х	х					
#1 / #2 Alimak lateral Development			X	X	X	X	X	X	X

Source: OSMI

Figure 24-3: Planned Construction Sequence and Lead Times

Key Construction Activities

- Shaft Rehabilitation and Hoist Commissioning (year 2);
- Borehole Rehabilitation;
- Mill Upgrades and Expansion; and
- Surface Facilities Expansion.

24.1.10 Pre-Commissioning, Commissioning, Start-up and Turnover

Pre-commissioning of the mill process, mine hoisting and secondary egress system will be completed by OSMI personnel with mechanical, electrical and instrumentation support from the contractors that installed the equipment. This step is critical in preparing the site for production.

Pre-Commissioning Testing

Mill pre-commissioning testing will be completed as per the list below. All pre-commissioning must be complete before final commissioning of the plant can begin. All equipment will have a yellow pre-commissioning tag placed on the equipment. Once equipment has been properly commissioned the tag will be replaced with a green tag by the mill manager indicating that pre-commissioning is complete and that the specific piece of equipment is ready for final commissioning. A pre-commissioning step-by-step procedure will be developed and the team will be trained prior to commencing pre-commissioning activities. The following is a list of current planned pre-commissioning item:

- All equipment will be locked out in the MCC and have the yellow pre-commissioning tag attached to the breaker. Equipment will be tested one at a time confirming that electrical communication is correct, electrical grounding is correct and that lock out of the equipment functions properly;
- Manual field start / stop of all equipment;
- Remote start / stop of all equipment;

- Conveyor tracking;
- Conveyor speed sensors for low and high speed will be tested;
- All plug chute alarms will be dry tested confirm they work;
- Confirm all interlocks and emergency stop stations remote and local;
- Confirm all pump flows and check for leaking fittings;
- Confirm all instrumentation is working properly. Items such as level indication, level control, density indication, density control, automated dart valves and froth level, etc. Field indication as well as matching control room indication will be confirmed;
- Size crushers and test to confirm discharge product size;
- Run rod mill before charging with rods. Confirm mill alignment and bearing temps;
- Test all automated control valves- confirm open close operation- local and remote control;
- Test all utilities to confirm proper flow and control over water and air;
- Confirm all conveyor weight scales to an accuracy of + or minus 3%;
- Confirm all concentrate weight scales to an accuracy of + or minus 1%- 100% is the target;
- Inspect all lubricated equipment for leaks and proper fill levels prior to starting equipment;
- Test rod charger and add rods to rod mill to a level of 40 to 45% rod charge. (*Note: This step cannot be completed until after the mill has operated for an hour empty and alignment is confirmed*);
- Inspect existing ball mill make sure lubrication system is working; ball charge is at 35\$ to 40%; and
- Test reagent systems by pumping water through them and confirming control over set point VS actual addition rates. Once confirmed lines will be purged by clearing them with air.

Commissioning

Plant commissioning will be done in multiple phases and will begin once pre-commissioning has been completed. Commissioning will be completed by OSMI employees with mechanical, electrical and instrumentation support from the contractors that installed the equipment. Vendor support will be arranged if necessary.

- Phase 1 consists of wet operations only without processing any ore. The plant is operated with water being pumped through all circuits and again confirming control of the entire process;
- Phase 2 includes the addition of ore. Operations would start out slowly at 4 st/h and slowly ramp up to 8 st/h;
- Phase 3 will commence once the plant is at a steady state of ore processing of 8 st/h In phase 3, operations would begin to dial in the chemistry and optimize the plant for mineral recovery and concentrate grades;
- Phase 4 consists of a slow ramp up above 8 st/h all the way to the planned 10.5 st/h reaching steady state with each increase before making the next increase; and
- Phase 5 will be to continue the ramp up past 10.5 st/h and continue advancing until the plant reaches its limit. The purpose of this phase to go above and beyond the planned throughput, so that understanding of the maximum capacity of the plant is achieved, and documentation of any bottlenecks encountered is made for future reference and potential upgrades.

Start-up

Startup will commence after the commissioning phases are complete. The plant will be operated at a steady state processing the same amount of ore the mine is delivering up to a maximum of 276 st/d.

The plant will run 24 hours per day 7 days per week with two days per month for planned down time. The plant operating schedule will be 12 hour shifts working 4-on and 4-off. The mine will operate 7 days per week and will utilize two 10 hour shifts daily for the miners, hoistmen and trammers. Mine maintenance will be completed during the off shift hours

24.1.11 Recruiting, Onboarding and Training

The successful recruiting, onboarding and training of employees is key to the overall success and sustainability of this Project. OSMI currently has a staff of 17 people and will ramp to 140 in month 8 of the restart Project. OSMI will add staff over a 4 month period to reach full staffing of 150 employees that will be maintained for the life of the mine under the current mine plan. The overall organization chart can be seen in Figure 24-4 and the ramp up staffing to full levels is shown in Table 24-1.

The following outlines OSMI procedures for the recruiting, on-boarding and training of new employees. The objective of this is to ensure OSMI is hiring qualified candidates and that those candidates are properly trained for their specific job requirements, thereby ensuring a safe working environment and enhancing employee retention. The Organization Chart shown in Figure 24-4 details those positions considered to be key to the success of the Project.



Source: OSMI, 2018

Figure 24-4: OSMI Organization Chart

Table 24-1: OSMI Project Staffing by Period

Position	Max				ar 1 -	Num	oer of	People	e in Po	sition	durin	g Ram	ip Up
Position	Number	1	2	3	4	5	6	7	8	9	10	11	12
Administrative													
CEO	1	1	1	1	1	1	1	1	1	1	1	1	1
VP Human Resources	1	1	1	1	1	1	1	1	1	1	1	1	1
HR Assistant	1		1	1	1	1	1	1	1	1	1	1	1
CFO	1	1	1	1	1	1	1	1	1	1	1	1	1
Accountant/Assistant Controller	1	1	1	1	1	1	1	1	1	1	1	1	1
Safety Superintendent	1	1	1	1	1	1	1	1	1	1	1	1	1
Training Coordinator	1		1	1	1	1	1	1	1	1	1	1	1
Administrative Assistant	1	1	1	1	1			1	1	1	1	1	1
Technical	•												
Manager of Tech Services	1	1	1	1	1	1	1	1	1	1	1	1	1
Mine Engineer	1	1	1	1	1	1	1	1	1	1	1	1	1
Geologist	1	1	1	1	1	1	1	1	1	1	1	1	1
Jr. Geologist	1		1	1	1	1	1	1	1	1	1	1	1
Sample Geo	1			1	1	1	1	1	1	1	1	1	1
	-	1	1	1	1	-				1	1	1	
Surveyor	1	1	1	1	1	1	1	1	1		1	1	1
Surveyor Assistant		4				1	1	1	1	1			1
Environmental Coordinator	1	1	1	1	1	1	1	1	1	1	1	1	1
Mining													
Mine Manager	1	1	1	1	1	1	1	1	1	1	1	1	1
Mine Superintendent	1	1	1	1	1	1	1	1	1	1	1	1	1
Shifter	4	4	4	4	4	4	4	4	4	4	4	4	4
Miner 1	16	8	8	12	12	16	16	16	16	16	16	16	16
Miner 2	20	8	8	12	12	20	20	20	20	20	20	20	20
Miner 3	20	8	8	12	12	20	20	20	20	20	20	20	20
Trammer	4	4	4	4	4	4	4	4	4	4	4	4	4
Swamper	4	4	4	4	4	4	4	4	4	4	4	4	4
Hoistman	4					4	4	4	4	4	4	4	4
Skip Tender	4												4
Bull Gang	6	6	6	6	6	6	6	6	6	6	6	6	6
Mill													
Mill Superintendent	1	1	1	1	1	1	1	1	1	1	1	1	1
Shift Supervisor	4	1	1	1	1	1	1	2	3	4	4	4	4
Control Room Tech	4						1	2	3	4	4	4	4
Rod Mill Tech	4						1	2	3	4	4	4	4
Float Tech	4						1	2	3	4	4	4	4
Thickener and Filtering Tech	4						1	2	3	4	4	4	4
Tailings Operator Tech	4						1	2	3	4	4	4	4
Maintenance													
Maintenance Manager	1	1	1	1	1	1	1	1	1	1	1	1	1
Lead Mechanic	1	1	1	1	1	1	1	1	1	1	1	1	1
Mechanic	4	2	2	4	4	4	4	4	4	4	4	4	4
Drill Doc	2	1	1	1	1	2	2	2	2	2	2	2	2
Lead Electrician	1	1	1	1	1	1	1	1	1	1	1	1	1
Electricians	4	2	2	4	4	4	4	4	4	4	4	4	4
Carpenter	1	-		1	1	1	1	1	1	1	1	1	1
Laborer/Custodian	2	1	1	2	2	2	2	2	2	2	2	2	2
Warehouse													
Purchasing Agent	1	1	1	1	1	1	1	1	1	1	1	1	1
Warehouse Manager	1	1	1	1	1	1	1	1	1	1	1	1	1
Buyer	1	1	1	1	1	1	1	1	1	1	1	1	1
Warehouse Tech	6	2	4	6	6	6	6	6	6	6	6	6	6
Total G&A Labor	150	71	77	98	98	123	128	134	140	146	146	146	150

Source: OSMI, 2018

Human Resource Recruiting

The recruiting process will consist of the following steps:

- Job posting;
- Resume/Application screening and selection;
- Pre-interview phone screening;
- In person interview;
- Conduct ATF and background check; and
- Offer letter.

Human Resource Onboarding

The onboarding process will consist of the following steps:

- Pre-employment physical;
- HR orientation; and
 - o Health, Dental, Vision, Cobra, and 401K Benefits, Policies and Procedures

Safety and Environmental Training

The following training programs are required for all employees in varying degrees depending on the specific position:

- MSHA 32 hours of training is required for initial certification;
- MSHA 8 hour site specific training;
- MSHA 8 hour annual refresher; and
- Environmental training job specific training.

Job Specific Training

Each position requires specific training which is dependent on the previous experience and training of the new employee. The training modules for Job Specific Depending on the previous experience and/or demonstrated knowledge of the employee some of the training modules may be exempted based on the employee's successful completion of the Training Module Assessment. An example of critical training is included for the stope miners.

Mine Stope Training

OSMI recognizes that most narrow vein journeyman miners will have transferable skills from the rubber tired mechanized mines and shaft mines to work in a conventional (rail and shaft) mine.

However, resue is a stoping method that is not commonly used and as such even seasoned miners will need be taught in order to meet productivity estimates and reduce dilution within the stope cycle.

To facilitate this training, OSMI will implement a Stope School program where the resue stope cycle will be taught to the miners. The 561 Test Stope is a miniature replication of a resue stope constructed of two manways, a service raise and two muck chutes. Located in the Monongahela Drift. The 561 Test Stope will be the Stope School where miners will learn to follow narrow veins; split-shoot ore from waste; and timber raises, manways and chutes.

A miner will remain in Stope School until they have successfully completed one complete cycle across the entire stope meeting the required benchmarks. Included in one cycle is the drilling of the ore and waste sections, loading and blasting the ore, slushing the ore to a muck pass, cribbing the manways and chutes, then blasting the waste section. It is estimated that miners will take 3-5 weeks to complete the training properly and a miner will not graduate from the school until he has proved proficient in the entire process.

Location:	Major Learning Objectives:	Description:
	Proper Layout of Stope	General discription of equipment and utility layout within the stope
		Overview of Resue Mining Method and Equipment Used
		Drilling
	Poous Staning Overview	Loading/Blasting Ore
<u>Classroom</u>	Resue Stoping Overview	Slushing
		Timbering
		Loading/Blasting Waste
	Geology Overview	Vein Structure and profile
		Rock types
		Knowledge of relative rock strengths
	Drilling	Drilling Pattern
		Collar Spacing (Dependant on Vein)
		Proper steel angle
		Knowledge/ability to read drill cuttings
		Proper positioning to catch optimal amount of ore
	Conveyor Polt/Utilities	Installation/connecting conveyor belt
	Conveyor Belt/Utilities	Timber slide and tugger use
		Advancing compressed air and water lines
		Knowledge of Equipment and Operation Method
		Daily Equipment Maintenance and Inspection
	Slushing	Equipment Operation
		Securing (Anchoring Slusher) using I-Pins and Chain
		Proper slushing techniques
		Slusher Movement
		How to move slusher throughout stope efficiently and safely
In Stone	Cribbed Chute Construction	Working In Proximity to Open Holes
In-Stope		Proper tie off points
		Fall Protection
		Proper Timber Installation
		Chute alignment with dip of hanging wall
		Maintaining proper chute dimensions
		Understanding of Process
		Primary Explosive: Blasting Caps
		Secondary Explosive: Booster
		Tertiary Explosive: Anfo, Stick Powder, etc.
		Timing
	Loading	Knowledge of cap placement within the round
		Loading Procedure (Powder Usage)
		Placement of blasting cap and booster (in-hole)
		Loading of Anfo/Stick Powder (proper powder usage and fill)
		Installation of Hole Caps (Birdies)
		Clipping in and tying in Fuse Cap

Figure 24-5 shows the key aspects of the training.

Source: OSMI 2017

Figure 24-5: Stope School Objective Outline

Attraction and Retention of Employees

OSMI intends to use recruiters for senior level management employees. Hourly employees will be attracted by placing ads in local papers, on web sites, and by sending staff to locations that are known

to contain people with mining skills. These locations include the states of Arizona, New Mexico, Utah, Wyoming, California, Nevada, Idaho and Alaska. Other employee attraction methods include the use of InfoMine where job openings can be listed. InfoMine is a premier job recruiting tool that is widely used in the industry.

Retention of employees is one of the most important aspects for OSMI. Employees will be treated with respect and dignity at all levels. Personnel act with integrity, work ethically and live by these values.

OSMI provides personal development opportunities, competitive benefits, and a bonus system linked to company and personal performance. Each employee will understand how their role adds value to the company and to feel valued with a career path that offers advancement in position and pay. This is done through establishing a culture of active caring, open door policies, and conducting annual employee reviews. Where applicable, the company will support individuals career goals by providing training and mentoring to help the employee succeed. Employees that are identified as having high potential will be placed in a career path that provides training and opportunities to further their career. This is OSMI's overall succession plan to develop the leaders needed for the future.

25 Interpretation and Conclusions

25.1 Property Description and Ownership

SRK have reviewed the current licenses in relation to the geological model and Mineral Resource/Reserve, which SRK considers sufficient to cover the current estimated Mineral Resources/Reserve.

25.2 Geology and Mineralization

SRK consider the currently geological model to be reasonably well understood. Historical mining supports the potential for economic extraction. OMSI have completed sufficient geological work, both from historical logs and via underground mapping to have provide detail input into the current geological model.

25.3 Status of Exploration, Development and Operations

In comparison to the previous Mineral Resource Estimate (April 2014), the Company has completed an additional 42 diamond core holes from underground within the northern portion of the Virginius Vein, as well as completed approximately 30 channel samples.

Drilling and channel sampling completed by OSMI during 2016 has been logged and sampled by senior OSMI geological staff. All samples have been submitted to Skyline labs for preparation and analysis using both fire assay and ICP methods. OSMI has included a QA/QC program as part of the 2016 drilling campaign. While the dataset is limited in terms of population size, SRK considers the results to be within a reasonable level of error, and therefore acceptable for use in the Mineral Resource estimate.

OSMI has also completed a validation study of the historical database, which included translating the historical descriptive drilling logs into a series of logging codes in the current database. The validation work has been extended to both diamond drilling and underground channel sampling.

SRK comments that the drilling below the 2000 level conducted by prior owners was conducted using AQ sized core which was the standard practice at that time. This may not be considered best practice under guidelines today. These areas are currently not accessible, but once open follow-up drilling to validate existing results should be completed.

25.4 Mineral Processing and Metallurgical Testing

A representative sub-sample of the Master composite was examined by XRD and automated mineral analysis (AMA) for mineralogy, locking/liberation analyses and trace mineral detection. Lead was found to occur as galena, zinc was found to occur as sphalerite and copper was found to occur primarily as chalcopyrite and tetrahedrite. Tetrahedrite and polybasite were identified as the primary silver-bearing minerals in the Master composite with tetrahedrite accounting for about 75% the silver and polybasite accounting for about 25% of the silver.

RWi and BWi determinations were made on each of the variability composites and the master composites. The RWi determinations were conducted with a closing screen of 1,180 µm and resulted in RWi determinations that ranged from 11.7 to 14.0 kWh/st for the variability composites and 12.9 kWh/st for the master composite. The BWi determinations were conducted with a 180 µm closing

screen and ranged from 13.7 to 16.2 kWh/st for the variability composites and 15.6 kWh/st for the master composite. It is noted that these determinations are slightly lower than what was reported for the test composites used in the PFS.

A primary grind size of P_{80} 130 μ m was established as the target grind size. Regrind testwork demonstrated that regrinding of the lead rougher concentrate prior to cleaner flotation was not required.

Locked-cycle testwork on the master composite demonstrated that that 94.7% of the lead, 94.8% of the silver, 91.4% of the copper and 74.2% of the gold were recovered into a lead cleaner concentrate that contained 70.3% Pb, 286 oz/st Ag, 3.07% Cu and 0.41 oz/st Au. Zinc flotation resulted in the recovery of 72.9% of the zinc, 1.3% of the silver and 2.0% of the gold into a zinc cleaner concentrate that contained 57.5% Zn, 16 oz/st Ag and 0.048 oz/st Au.

A linear regression of metal recovery versus ore grade was performed for relevant locked-cycle and large-batch tests conducted during both the FS and PFS metallurgical programs and resulted in the following observations regarding metal recovery:

- Silver recoveries achieved during the FS metallurgical program were similar to the PFS with recoveries into the lead concentrate ranging from 93% to 95% depending on feed grade;
- Gold recovery into the lead concentrate ranges from 58% to 68% with an additional 4% to 6% recovery into the zinc concentrate depending upon feed grade;
- Lead recovery into the lead concentrate is very consistent at 94% to 95% and relatively independent of feed grade;
- Copper recovery into the lead concentrate ranges from 84% to 91% depending upon feed grade; and
- Zinc recovery into the zinc concentrate is estimated at 60% to 86% depending upon feed grade.

Multi-element analyses were conducted on the final lead and zinc concentrates produced from Lockedcycle tests on the master composite. Significant quantities of arsenic and antimony were found in the lead concentrate.

Due to limited access in the mine, the test composites were generated from localized areas that may or may not be representative of mineralization in other areas of the mine. As such, the projected metallurgical performance could be different from that reported for this metallurgical program if significant variability in ore mineralization is encountered during mining.

25.5 Mineral Resource Estimate

SRK has undertaken geological modelling to construct updated mineralization wireframes for the Virginius Vein system, Terrible Vein and the Yellow Rose Vein systems. SRK used the 3D solids created in Leapfrog to code the drillholes to differentiate between mineralization and waste, and undertook statistical and geostatistical analyses on the composited data, as constrained by the modelled wireframes.

The Virginius Vein mineralization is typically associated with a dike unit and historically was coded as three separate vein codes. The revised interpretation simplifies the interpretation a single grade bearing structure. As a single structure has therefore been modelled and there remains opportunity that additional mineralization may exist to limited degrees where parallel structures are mineralized. It

is SRK's opinion, this tonnage would have limited lateral and vertical extent, but good geological mapping and grade control sampling will improve the knowledge of continuity in these structures or minor splays of the main vein.

SRK has produced grade estimates using an Inverse Distance (squared) algorithm, using a combined drilling and channel sampling database. To reduce the potential impact of localized high-grades overly influencing the estimates, SRK has declustered the channel samples to 50ftx50ftx50ft panels prior to estimation.

The classification is based on standards as defined by the CIM Definition Standards - For Mineral Resources and Mineral Reserves, prepared by the CIM Standing Committee on Reserve Definitions and adopted by CIM Council on May 14, 2014.

The Resources at the Project have been classified as Measured, Indicated and Inferred at Yellow Rose and Virginius Veins. The Terrible Vein has been limited to Indicated and Inferred, whereby Indicated material is focused around diamond drilling completed by previous owners from surface. The current proposed mining method for the Project will result in all material within an established stope being mined, and therefore the direct application of a CoG on a block by block basis is not considered appropriate for the Project. SRK has accounted for the CoG during the classification of Indicated material, by working with OSMI staff on potential mining areas. Once an area has been identified SRK has analyzed the blocks based on the confidence criteria laid out in Section 14.9, and coding the model with the NSR value. Each area has then been evaluated to ensure the defined areas remain above the NSR CoG.

25.6 Mining and Mineral Reserves

SRK has conducted a geotechnical evaluation of the Project. The characterization programs consisted of logging of 1,274 ft of core from drillholes located on the 2,000 ft level, drift face mapping from 30 stations in existing access drifts, laboratory strength testing of 38 historic and 20 new core samples. The new samples were tested by Agapito Associates in Grand Junction, Colorado. Because only a limited number of tests have been conducted to date, SRK has used the 33-percentile values for design purposes. Confidence in the assumed rock mass characterization values used in the feasibility design comes from observations of ground conditions in the accessible historic workings.

The stable open stope dimensions were estimated. The size of open stope areas is 6 ft drift plus 6 ft resue slot with up to 6 ft wide vein and up to 1,000 ft long along vein strike. Stability estimates were also made for shrinkage stopes. Based on historic experience at the mine shrinkage stopes should remain stable if the stopes remain full of broken muck. Ground support requirements were estimated using empirical support charts which are considered adequate for feasibility-level design.

An NSR approach was used and takes into account revenue for four elements (Zn, Pb, Ag and Au) and production of two concentrates (lead concentrate and zinc concentrate). Planned mining areas were evaluated on a value basis to ensure they were economic.

The design assumes mining of large panels where raises/infrastructure are used for the entire panel length. Panel dimensions are approximately 500 to 1,000 ft along strike and up to 300 ft in height. Typically, an off-ore access drift is developed on the footwall along the length of the stope. Cribbed manways, service raises and orepasses are located within the panels and allow multiple accesses and multiple faces within a panel.

Based on the NSR of the blocks in the resource model, large mining panels/stopes are manually identified in long section. A 3D design of the development required to mine the stopes was completed. Rehabilitation of existing workings is used when practical.

A monthly production schedule was generated using Excel for each development and stope item. This schedule was created by OSMI and SRK converted the line items and dates into an iGantt schedule to visually verify the scheduling order and tonnages/grades by period. The schedule targeted 7,670 st ore/month (92,040 st/y). The mine pre-production period is approximately six months with a three month ramp up to full production.

25.7 Recovery Methods

The recovery methods from the process flow sheet were reviewed to determine the applicability for the process to meet the production goals determined by testing and previous studies. The review of the recovery methods did not evaluate additional testing, testing methods, or procedures to further optimize the process beyond the FS study. The evaluation and investigation did identify areas of risk that could impact plant production.

Important observations made in regard to the detailed design of the process include:

- The processing plant has limited area inside the mine for the equipment to be arranged, specifically in the underground facility. Process area and space limitations restricted the ability to place equipment in optimum configuration, and also limited equipment to what could fit in the footprint available; and
- OSMI has already purchased some equipment which they intended to be incorporated into the flowsheet and process, including the rod mill and the wet screen. These are further discussed in the risk section that follows.

The key risks include:

- The rod mill particle feed size is at the maximum critical size. The assumed size is 0.875 in. While we believe that the rod mill lab scale data shows the process to be feasible, the full scale equipment performance will need to be proven during startup. An increase in ore hardness could affect the throughput; and
- The screen used for the closed circuit of the ball mill is not the most optimum technology available for proper size separation. A stack sizer is usually used in this situation, but the physical space available in the underground processing area did not allow for this equipment to be used. To address this issue, the water control to the screen will need to be optimized during startup and operation. It is possible that this will create situations where the size separation is not achieved and this could reduce plant throughput.

25.8 Project Infrastructure

The primary risks to the Project related to infrastructure include:

- Weather related issues including access and avalanche impact;
- Power reliability that has been addressed by adding backup generation capacity;
- Access to the emergency hoist at the surface for maintenance and upkeep has been addressed by changing the type of system and allowing access through the mine versus the access by mountain road to the previous system;

- Water quality issues that have been addressed by the addition of water treatment facilities;
- Poor performance of the air compressor system that in the past impacted mining and milling operations. The additional compressor capacity contained within the capital estimate dedicated to the mill as well as the additional new compressor for the mine should address this issue;
- The access road is narrow and steep and winter conditions can impact access at times. The Project includes a budget for avalanche mitigation measures and a snow removal contract. Procedures are developed and in place to address these risks; and
- The question of normal operation electrical loads remains open, because OSMI was unable to provide Barr's engineering design team with operational load information to determine demand factors. Normally, one year or more of data is needed to confirm demand factors. This evaluation has been completed using demand factors from the Lycopodium 2016 PFS report (Lycopodium, 2016), and OSMI had not independently confirmed these are suitable for sizing of the transformer which Barr has sized, or the emergency generator that OSMI is designing and procuring. At the time of this report, the design includes a 5,000 kVA transformer, and OSMI is planning to procure a 3 MW emergency generator to power the facility.

SRK has designed the filtered tailings piles within the existing permit boundaries to a height that can store the required storage capacity. The tailings have been tested for shear strengths and those values have been used in stability analyses to demonstrate that the FOS is greater than the minimum 1.3 criteria. Tailings will be placed on the Revenue pile (eastern pile) during the summer months from May through November and on the Atlas pile (western pile) during the winter months from December through April due to avalanche precautions.

The Project has an existing permitted filtered tailings pile. A Tailings and Waste Management Plan of operations conducted by Lewicki (2015) and has been submitted for the TSF permit. Geotechnical laboratory testing has been conducted on filtered tailings and estimated material properties have been used to compute stability of the tailings stack which have a FOS greater than the minimum 1.3 criteria demonstrating that the feasibility design is adequate.

A permit revision in the future will be required to modify the permitted 8.9 Mft³ storage capacity after about 5 years of continuous production because more than 8.9 Mft³ tailings will be produced thereafter. Since the revision is in the same footprint as the current TSF it does not impact the current permit boundary or disturbed area and therefore will be a Technical Revision which does not require public notice. SRK currently sees no reasonable objection why such Technical Revision would not be granted.

Even with the best engineering, it is likely that some of the pumps will not operate correctly for the process. Most of this can be fixed by changing out sheaves and belts. However, in rare cases the entire pump may need to be changed. If this problem occurs the startup schedule can be slightly delayed.

25.9 Environmental Studies and Permitting

As an underground mine, the Project creates a limited surface footprint of disturbance. The geochemistry of the waste rock and tailings indicate benign leachate chemistry and low potential for environmental degradation. Over the mine's 140 year history, including the surface stockpiles of development waste rock, there is no evidence of acid rock drainage at the site.

Correspondence between OSMI and regulatory authorities indicate productive and effective communication in terms of existing permits and amendments. As of the date of this report, SRK is of the opinion it is reasonable to expect OSMI to maintain the necessary environmental permits to restart operations at the Project.

25.10Capital and Operating Costs

Capital and operating costs have been estimated at a level appropriate for a FS. Overall accuracy is estimated at +/- 15% for both capital and operating costs.

For capital costs, 97% of the total initial and sustaining capital estimates for equipment, materials and construction activities are supported by vendor quotes. Capital estimates were developed under the assumption that OSMI will self-perform construction management and commissioning. As OSMI initiates development activities it may find that alternate contract strategies are more beneficial which could impact the capital estimate.

For operating costs, the majority of costs are developed on a first principles basis and from OSMI's experience operating in the region. Notably, the operating cost estimate includes corporate overhead as well as Project costs.

25.11 Economic Analysis

The economic model for the Project demonstrates that under the current set of economic assumptions, the Project provides a robust positive cash flow over the LoM. The Project benefits from existing development and equipment which provides for lower initial capital than a greenfield development project. Gold, lead and zinc byproduct credits provide an opportunity for a low production cost for silver on a byproduct or silver equivalent basis.

Extracting maximum value from the concentrates, including receiving precious metal credits for the zinc concentrate, which wasn't contemplated in this report, will provide significant benefit to the Project, including upside opportunity relative to the included economic model. Therefore, SRK recommends optimizing the sales strategy for concentrates will be important to maximizing Project value.

26 Recommendations

26.1 Mineral Resources

To extend mine life, SRK considers there to be requirement to conduct further drilling to increase the confidence in the structure at the Virginius and Terrible Veins in material currently defined as Inferred. To increase the confidence in the Inferred estimates OSMI will be required to:

- Continue infill and step out drilling to explore the vein systems along strike and down dip;
 - Infill above the 1800 level between the two areas currently defined as Indicated, should be considered the priority;
 - Additional drilling will be required to increase confidence in the Virginius estimates below the 2210 level within the Monongahela area, prior to mining;
- Institute a regular practice of downhole surveys for drilling, at intervals as appropriate;
- In exploration discontinue the use of pulp blanks and incorporate preparation blanks into the QA/QC program;
- Monitor the QA/QC program as an ongoing process;
- SRK consider best practice to add check assays at the end of any exploration program or on a routine basis to the QA/QC program. Check assays are second analysis by a second laboratory of the original pulp submitted to the primary laboratory; and
- Routine mapping and sampling of any future development heads is required, with a detail procedure documented to ensure sampling quality.

SRK considers the current estimate could be improved by the following studies:

- Development of a mine scale structural and geological model. This could assist in guiding future exploration at depth within the conglomerates, as well as identifying and areas of risk for changes in ground conditions;
- The current density database should be increase with the inclusion of routine density measurements taken on all new drilling and from underground;
- Development of a short-term model using underground sampling data which can be used to compare future short-term variations to the long-term Mineral Resource estimates; and
- The lack of industry-standard "asbuilt" data delineating mined areas should be considered. SRK has elected to project the historical long sections through the known mineralization (wireframes) in order to deplete the Mineral Resource in historically mined areas. OSMI will need to test ground conditions ahead of mining to confirm the current interpretation.

26.2 Mining Methods

As new mining areas are opened up it is recommended that additional rock mass characterization data be collected in area where data is not currently available. This data should be used to assess the level of ground support required to maintain short-term or long-term stability, as appropriate. This is envisioned as an ongoing activity that is part of routine mine development.

The following recommendations are for additional work during the pre-production and early operations:

- Continue to develop and improve the "Mine Stope Training" effort for resue mining. The actual execution of the miners in the stope is key to achieving the production parameters defined in the mine plan;
- Continue to monitor and develop the resue mining dilution and swell characteristics to optimize resue mining waste volume balance and minimize dilution;
- Further optimize the potential upside associated with "leaving as waste" certain low grade areas of the currently defined stope areas;
- Maintain ductwork to optimize effectiveness of ventilation especially in the rigid duct required for Shaft #1; and
- Examine the fire risks and potential mitigating factors that can be implemented. A detailed fire analysis was not conducted as a part of this study. OSMI can conduct this with in house personnel or use outside sources.

26.3 Recovery Methods

The following recommendations are made by Barr based on their experience with rod/ball mill circuits depending upon the results of initial operations, should issues arise:

- Evaluate media size for the rod mill, as different rod sizes could improve grinding efficiency (depending on fed size to the rod mill); and
- Evaluate the opportunity to prescreen rod mill feed to bypass the fines to the 2nd stage of grinding to increase capacity of the rod mill.

26.4 Project Infrastructure

SRK has designed the filtered tailings piles within the existing permit boundaries to a height that can store the required storage capacity. The tailings have been tested for shear strengths and those values have been used in stability analyses to demonstrate that the FOS is greater than the minimum 1.3 criteria. As the pile is developed over time, it is recommended that periodic in situ compacted density and shear strength checks be made to ensure the design is performing as intended. Also, checks of water levels within the pile should be monitored to ensure that the pile remains drained.

26.5 Environmental Studies and Permitting

Given this Project is a re-start of an existing underground mine and that the previous mining activity was relatively recent and in accordance with environmental permits that remain active, SRK makes no further recommendations related to environmental studies or permits.

26.6 Recommended Work Program Costs

Table 26-1 summarizes the costs for recommended work programs.

Discipline	Program Description	Cost (US\$)	Reason Why No Further Work is Recommended:
Geology and Mineralization	Ongoing mapping and drilling		This program is included in the Project budget
Mineral Processing and Metallurgical Testing	None Identified		FS metallurgical program complete
Mineral Resource Estimate	Ongoing mapping and drilling		This program is included in the Project budget
Mineral Reserves	Fire Prevention Program for specific large equipment including hoist, rod mill, ball mill, etc.	\$15,000	
Mining Methods	Miner Training Program		Identified issue addressed within the Project budget
Recovery Methods	Rod mill optimization - Rod size changes no additional cost, potential additional screen or mill modifications are longer term options not needed during re-start		No additional cost for rod mill optimization. Rod mill pre-screening recommendation addresses potential capacity increases in the future if needed and presents no additional cost to plant reactivation
Total US\$		\$15,000	

27 References

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28 Glossary

The Mineral Resources and Mineral Reserves have been classified according to CIM (CIM, 2014). Accordingly, the Resources have been classified as Measured, Indicated or Inferred, the Reserves have been classified as Proven and Probable based on the Measured and Indicated Resources as defined below.

28.1 Mineral Resources

A **Mineral Resource** is a concentration or occurrence of solid material of economic interest in or on the Earth's crust in such form, grade or quality and quantity that there are reasonable prospects for eventual economic extraction. The location, quantity, grade or quality, continuity and other geological characteristics of a Mineral Resource are known, estimated or interpreted from specific geological evidence and knowledge, including sampling.

An **Inferred Mineral Resource** is that part of a Mineral Resource for which quantity and grade or quality are estimated on the basis of limited geological evidence and sampling. Geological evidence is sufficient to imply but not verify geological and grade or quality continuity. An Inferred Mineral Resource has a lower level of confidence than that applying to an Indicated Mineral Resource and must not be converted to a Mineral Reserve. It is reasonably expected that the majority of Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration.

An **Indicated Mineral Resource** is that part of a Mineral Resource for which quantity, grade or quality, densities, shape and physical characteristics are estimated with sufficient confidence to allow the application of Modifying Factors in sufficient detail to support mine planning and evaluation of the economic viability of the deposit. Geological evidence is derived from adequately detailed and reliable exploration, sampling and testing and is sufficient to assume geological and grade or quality continuity between points of observation. An Indicated Mineral Resource has a lower level of confidence than that applying to a Measured Mineral Resource and may only be converted to a Probable Mineral Reserve.

A **Measured Mineral Resource** is that part of a Mineral Resource for which quantity, grade or quality, densities, shape, and physical characteristics are estimated with confidence sufficient to allow the application of Modifying Factors to support detailed mine planning and final evaluation of the economic viability of the deposit. Geological evidence is derived from detailed and reliable exploration, sampling and testing and is sufficient to confirm geological and grade or quality continuity between points of observation. A Measured Mineral Resource has a higher level of confidence than that applying to either an Indicated Mineral Resource or an Inferred Mineral Resource. It may be converted to a Proven Mineral Reserve or to a Probable Mineral Reserve.

28.2 Mineral Reserves

A **Mineral Reserve** is the economically mineable part of a Measured and/or Indicated Mineral Resource. It includes diluting materials and allowances for losses, which may occur when the material is mined or extracted and is defined by studies at Pre-Feasibility or Feasibility level as appropriate that include application of Modifying Factors. Such studies demonstrate that, at the time of reporting, extraction could reasonably be justified.

The reference point at which Mineral Reserves are defined, usually the point where the ore is delivered to the processing plant, must be stated. It is important that, in all situations where the reference point

is different, such as for a saleable product, a clarifying statement is included to ensure that the reader is fully informed as to what is being reported. The public disclosure of a Mineral Reserve must be demonstrated by a Pre-Feasibility Study or Feasibility Study.

A **Probable Mineral Reserve** is the economically mineable part of an Indicated, and in some circumstances, a Measured Mineral Resource. The confidence in the Modifying Factors applying to a Probable Mineral Reserve is lower than that applying to a Proven Mineral Reserve.

A **Proven Mineral Reserve** is the economically mineable part of a Measured Mineral Resource. A Proven Mineral Reserve implies a high degree of confidence in the Modifying Factors.

28.3 Definition of Terms

The following general mining terms may be used in this report.

Term	Definition	
Assay	The chemical analysis of mineral samples to determine the metal content.	
Capital Expenditure	All other expenditures not classified as operating costs.	
Composite	Combining more than one sample result to give an average result over a larger distance.	
Concentrate	A metal-rich product resulting from a mineral enrichment process such as gravity concentration or flotation, in which most of the desired mineral has been separated from the waste material in the ore.	
Crushing	Initial process of reducing ore particle size to render it more amenable for further processing.	
Cut-off Grade (CoG)	The grade of mineralized rock, which determines as to whether or not it is economic to recover its gold content by further concentration.	
Dilution	Waste, which is unavoidably mined with ore.	
Dip	Angle of inclination of a geological feature/rock from the horizontal.	
Fault	The surface of a fracture along which movement has occurred.	
Footwall	The underlying side of an orebody or stope.	
Gangue	Non-valuable components of the ore.	
Grade	The measure of concentration of gold within mineralized rock.	
Hangingwall	The overlying side of an orebody or slope.	
Haulage	A horizontal underground excavation which is used to transport mined ore.	
Hydrocyclone	A process whereby material is graded according to size by exploiting centrifugal forces of particulate materials.	
Igneous	Primary crystalline rock formed by the solidification of magma.	
Kriging	An interpolation method of assigning values from samples to blocks that minimizes the estimation error.	
Level	Horizontal tunnel the primary purpose is the transportation of personnel and materials.	
Lithological	Geological description pertaining to different rock types.	
LoM Plans	Life-of-Mine plans.	
LRP	Long Range Plan.	
Material Properties	Mine properties.	
Milling	A general term used to describe the process in which the ore is crushed and ground and subjected to physical or chemical treatment to extract the valuable metals to a concentrate or finished product.	
Mineral/Mining Lease	A lease area for which mineral rights are held.	
Mining Assets	The Material Properties and Significant Exploration Properties.	
Ongoing Capital	Capital estimates of a routine nature, which is necessary for sustaining operations.	
Ore Reserve	See Mineral Reserve.	
Pillar	Rock left behind to help support the excavations in an underground mine.	
RoM	Run-of-Mine.	
Sedimentary	Pertaining to rocks formed by the accumulation of sediments, formed by the erosion of other rocks.	

Table 28-1: Definition of Terms

Term	Definition	
Shaft	An opening cut downwards from the surface for transporting personnel,	
	equipment, supplies, ore and waste.	
Sill	A thin, tabular, horizontal to sub-horizontal body of igneous rock formed by the	
	injection of magma into planar zones of weakness.	
Smelting	A high temperature pyrometallurgical operation conducted in a furnace, in which	
	the valuable metal is collected to a molten matte or doré phase and separated	
	from the gangue components that accumulate in a less dense molten slag phase.	
Stope	Underground void created by mining.	
Stratigraphy	The study of stratified rocks in terms of time and space.	
Strike	Direction of line formed by the intersection of strata surfaces with the horizontal	
	plane, always perpendicular to the dip direction.	
Sulfide	A sulfur bearing mineral.	
Tailings	Finely ground waste rock from which valuable minerals or metals have been	
-	extracted.	
Thickening	The process of concentrating solid particles in suspension.	
Total Expenditure	All expenditures including those of an operating and capital nature.	
Variogram	A statistical representation of the characteristics (usually grade).	

28.4 Abbreviations

The following abbreviations may be used in this report.

Table 28-2: Abbreviations

Abbreviation	Unit or Term	
μm	micrometer	
AAS	Atomic Absorption Spectroscopy	
ABA	acid-base accounting	
Ag	silver	
AGP	acid generating potential	
Alimak Hex	Alimak style hoist/elevator system	
AMA	automated mineral analysis	
ANFO AP	ammonium nitrate fuel oil	
ANP	acid neutralizing potential	
Au	gold	
Aurcana	Aurcana Corporation	
Barr	Barr Engineering Co.	
BLM	Bureau of Land Management	
BTS	Brazilian tensile strength	
CDPHE	Colorado Department of Public Health and Environment	
CIM	Canadian Institute of Mining, Metallurgy and Petroleum	
CoG	cut-off grade	
CPDS	Colorado Discharge Permit System	
CRM	Certified Reference Materials	
CRS	Colorado Revised Statutes	
Cu	copper	
Dk	dike	
DRMS	Division of Reclamation, Mining and Safety	
DSS	direct shear strength	
EBITDA	earnings before interest, taxes, depreciation, and amortization	
EPC	engineering, procurement, and construction	
ERP	Enterprise Resource Planning	
FA	Fire Assay	
FML	Fortune Minerals Limited	
FOS	factor of safety	
FRSM	Fortune Revenue Silver Mines, Inc.	
FS	feasibility study	
ft	feet	
ft ²	square foot	
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Abbreviation	Unit or Term	
FW	footwall	
G&A	general and administrative	
HDPE	high-density polyethylene	
HSE	Health, Safety and Environmental	
HW	hangingwall	
HWC	Harrison Western Construction Corporation	
ID2	inverse distance squared	
IP	internet protocol	
IRR	internal rate of return	
kcfm	thousands of cubic feet per minute	
koz	thousand ounces	
kst	thousand short tons	
kVA	kilo volt amperes	
kWh	kilowatt hour	
lb/ft ³	pounds per cubic foot	
lbf	pound-fource	
LoM	life-of-mine	
LRC-FRSM	LRC-FRSM, LLC	
LRC-FRSM II	LRC-FRSM II, LLC (an affiliate of LRC-FRSM)	
LV	low voltage	
m ³	cubic meters	
MCC	motor control center	
Mft ³	million cubic feet	
MkW	million kilowatts	
Mlb	million pounds	
Moz	million ounces	
MRA	Master Restructuring Agreement	
MRC	Management Resource Consulting	
MVA	mega volt amp	
MW	million watts	
NMPM	New Mexico Prime Meridian	
NN	nearest neighbor	
NNP	net neutralizing potential	
NOEC	no observed effects concentrations	
NPV	Net Present Value	
NSR	Net Smelter Return	
OSMI	Ouray Silver Mines, Inc.	
oz/st	ounce per short ton	
Pb	lead	
PFS	Prefeasibility Study Report	
PPE	property, plant and equipment	
Project	Revenue-Virginius Mine	
psi	pound-force per square inch	
QA/QC	quality assurance/quality control	
QP	Qualified Persons	
Ranchers	Ranchers Exploration and Development Corp.	
RM	Reference materials	
RQD	Reference materials Rock Quality Designation	
SIPX		
	sodium isopropyl xanthate San Juan formation	
SJ		
SPLP	synthetic precipitation leachate procedure	
SRK at/d	SRK Consulting (U.S.), Inc.	
st/d	short ton per day	
SWMP	Storm Water Management Plan	
t	tonne	
t/y	tonne per year	
TCS	triaxial compressive strength	
TDS	total dissolved solids	
TR-09	Technical Revision 9	
TRE	Toxicity Reduction Evaluation	

Abbreviation	Unit or Term
TSF	tailings storage facility
UCS	uniaxial compressive strength
USGS	U.S. Geological Survey
VAC	Voltage alternating current
VFD	variable frequency drive
VHD	Virginius High Dilution
VHW	Virginius Hanging Wall
VoIP	voice over internet protocol
WET	whole effluent toxicity
wmt	wet metric tonnes
WQCD	Water Quality Control Division
XRD	x-ray diffraction
Zn	zinc

Appendices

Appendix A: Certificates of Qualified Persons



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denver@srk.com www.srk.com

CERTIFICATE OF QUALIFIED PERSON

I, Benjamin Parsons, MSc, MAusIMM (CP) do hereby certify that:

- 1. I am a Principal Consultant (Resource Geology) of SRK Consulting (U.S.), Inc., 1125 Seventeenth Street, Suite 600, Denver, CO, USA, 80202.
- This certificate applies to the technical report titled "NI 43-101 Technical Report Feasibility Study Revenue – Virginius Mine, Ouray, Colorado" with an Effective Date of June 15, 2018 (the "Technical Report").
- 3. I graduated with a degree in Exploration Geology from Cardiff University, UK in 1999. In addition, I have obtained a Masters degree (MSc) in Mineral Resources from Cardiff University, UK in 2000 and have worked as a geologist for a total of 16 years since my graduation from university. I am a member of the Australian Institution of Materials Mining and Metallurgy (Membership Number 222568) and I am a Chartered Professional.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I visited the Virginius Mine property on multiple dates including August 24, 2015 for one day, October 19, 2015 for one day, June 20, 2016 for 3 days and February 21, 2017 for 4 days.
- 6. I am responsible for Geology Sections 4 through 12, 14, 23 and portions of Sections 1, 25 and 26.
- 7. I am independent of the issuer applying all of the tests in section 1.5 of NI 43-101.
- 8. I have had prior involvement with the property that is the subject of the Technical Report. The nature of my prior involvement is acting as QP in the report titled "NI 43-101 Technical Report, Feasibility Study Revenue, Virginius Mine, Ouray, Colorado" with an Effective Date of March 1, 2017 and a Report Date of June 15, 2017.
- 9. I have read NI 43-101 and Form 43-101F1 and the sections of the Technical Report I am responsible for have been prepared in compliance with that instrument and form.
- 10. As of the aforementioned Effective Date, to the best of my knowledge, information and belief, the sections of the Technical Report I am responsible for contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 5th Day of July, 2018.

"signed"

Benjamin Parsons, MSc, MAusIMM (CP) Principal Consultant (Resource Geologist)

Cana	Canadian Offices:		Group Offices:
677.3520 Saska	toon 306.	.955.4778	Africa
452.0182 Sudbu	ıry 705.	.682.3270	Asia
985.1333 Toroni	to 416.	.601.1445	Australia
753.4151 Vanco	ouver 604.	.681.4196	Europe
407.8302 Yellow	vknife 867.	.873.8670	North America
328.6800		:	South America
544.3688			
	377.3520 Saska 452.0182 Sudbu 985.1333 Toron 753.4151 Vanco 107.8302 Yellow 328.6800 Yellow	377.3520 Saskatoon 306 452.0182 Sudbury 705 585.1333 Toronto 416 753.4151 Vancouver 604 407.8302 Yellowknife 867 328.6800 Saskatoon 306	377.3520 Saskatoon 306.955.4778 452.0182 Sudbury 705.682.3270 985.1333 Toronto 416.601.1445 753.4151 Vancouver 604.681.4196 107.8302 Yellowknife 867.873.8670 328.6800 328.6800 306.955.4778



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CERTIFICATE OF QUALIFIED PERSON

I, Eric Olin, MSc, MBA, RM-SME do hereby certify that:

- 1. I am a Principal Process Metallurgist of SRK Consulting (U.S.), Inc., 1125 Seventeenth Street, Suite 600, Denver, CO, USA, 80202.
- This certificate applies to the technical report titled "NI 43-101 Technical Report, Feasibility Study, Revenue–Virginius Mine, Ouray, Colorado", with an Effective Date of June 15, 2018 (the "Technical Report").
- 3. I graduated with a Master of Science degree in Metallurgical Engineering from the Colorado School of Mines in 1976. I am a Registered Member of The Society for Mining, Metallurgy and Exploration, Inc. I have worked as a Metallurgist for a total of 40 years since my graduation from the Colorado School of Mines. My relevant experience includes extensive consulting, plant operations, process development, project management and research & development experience with base metals, precious metals, ferrous metals and industrial minerals. I have served as the plant superintendent for several gold and base metal mining operations. Additionally, I have been involved with numerous third-party due diligence audits, and preparation of project conceptual, pre-feasibility and full-feasibility studies.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I have not visited the Virginius Mine property.
- 6. I am responsible for the preparation of Metallurgy Section 13 and portions of Sections 1, 25 and 26 of the Technical Report.
- 7. I am independent of the issuer applying all of the tests in section 1.5 of NI 43-101.
- 8. I have had prior involvement with the property that is the subject of the Technical Report. The nature of my prior involvement is acting as QP in the report titled "NI 43-101 Technical Report, Feasibility Study Revenue, Virginius Mine, Ouray, Colorado" with an Effective Date of March 1, 2017 and a Report Date of June 15, 2017.
- 9. I have read NI 43-101 and Form 43-101F1 and the sections of the Technical Report I am responsible for have been prepared in compliance with that instrument and form.
- 10. As of the aforementioned Effective Date, to the best of my knowledge, information and belief, the sections of the Technical Report I am responsible for contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

U.S. Offices:		Canadian Offices:		Group Offices:
Anchorage	907.677.3520	Saskatoon	306.955.4778	Africa
Clovis	559.452.0182	Sudbury	705.682.3270	Asia
Denver	303.985.1333	Toronto	416.601.1445	Australia
Elko	775.753.4151	Vancouver	604.681.4196	Europe
Fort Collins	970.407.8302	Yellowknife	867.873.8670	North America
Reno	775.828.6800			South America
Tucson	520.544.3688			

Dated this 5th Day of July, 2018.

<< signed >>

Eric Olin, MSc Metallurgy, MBA, SME-RM, MAusIMM Principal Consultant (Metallurgy)



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CERTIFICATE OF QUALIFIED PERSON

I, John Tinucci, PhD, PE, ISRM, do hereby certify that:

- 1. I am Practice Leader/Principal Consultant (Geotechnical Engineer) of SRK Consulting (U.S.), Inc., 1125 Seventeenth Street, Suite 600, Denver, CO, USA, 80202.
- This certificate applies to the technical report titled "NI 43-101 Technical Report Feasibility Study Revenue – Virginius Mine, Ouray, Colorado" with an Effective Date of June 15, 2018 (the "Technical Report").
- 3. I graduated with a degree in B.S. in Civil Engineering from Colorado State University, in 1980. In addition, I have obtained a M.S. in Geotechnical Engineering from University of California, Berkeley, in 1983 and I have obtained a Ph.D. in Geotechnical Engineering, Rock Mechanics from the University of California, Berkeley in 1985. I am member of the American Rock Mechanics Association, a member of the International Society of Rock Mechanics, a member of the ASCE GeoInstitute, and a Registered Member of the Society for Mining, Metallurgy & Exploration. I have worked as a Mining and Geotechnical Engineer for a total of 37 years since my graduation from university. My relevant experience includes 34 years of professional experience. I have 15 years managerial experience leading project teams, managing P&L operations for 120 staff, and directed own company of 8 staff for 8 years. I have technical experience in mine design, prefeasibility studies, feasibility studies, geomechanical assessments, rock mass characterization, project management, numerical analyses, underground mine stability, subsidence, tunneling, ground support, slope design and stabilization, excavation remediation, induced seismicity and dynamic ground motion. My industry commodities experience includes salt, potash, coal, platinum/palladium, iron, molybdenum, gold, silver, zinc, diamonds, and copper. My mine design experience includes open pit, room and pillar, (single and multi-level), conventional drill-and-blast and mechanized cutting, longwall, steep narrow vein, cut and fill, block caving, sublevel caving and cut and fill longhole stoping and paste backfilling.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I visited the Virginius Mine property on multiple dates including May 16, 2014 and August 24, 2015 each for a duration of 1 day.
- 6. I am responsible for Geotechnical Sections 16.2 and 18.2 and portions of Sections 1, 25 and 26.
- 7. I am independent of the issuer applying all of the tests in section 1.5 of NI 43-101.
- 8. I have had prior involvement with the property that is the subject of the Technical Report. The nature of my prior involvement is acting as QP in the report titled "NI 43-101 Technical Report Feasibility Study Revenue Virginius Mine, Ouray, Colorado" with an Effective Date of March 1, 2017 and a Report Date of June 15, 2017.
- 9. I have read NI 43-101 and Form 43-101F1 and the sections of the Technical Report I am responsible for have been prepared in compliance with that instrument and form.
- 10. As of the aforementioned Effective Date, to the best of my knowledge, information and belief, the sections of the Technical Report I am responsible for contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

U.S. Offices:		Canadian Offices:		Group Offices:
Anchorage	907.677.3520	Saskatoon	306.955.4778	Africa
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Denver	303.985.1333	Toronto	416.601.1445	Australia
Elko	775.753.4151	Vancouver	604.681.4196	Europe
Fort Collins	970.407.8302	Yellowknife	867.873.8670	North America
Reno	775.828.6800			South America
Tucson	520.544.3688			

Dated this 6th Day of July, 2018.

John Tinucci, PhD, PE, ISRM Principal Consultant (Geotechnical Engineer)



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CERTIFICATE OF QUALIFIED PERSON

I, Jeff Osborn, BEng Mining, MMSAQP do hereby certify that:

- 1. I am a Principal Consultant (Mining Engineer) of SRK Consulting (U.S.), Inc., 1125 Seventeenth, Suite 600, Denver, CO, USA, 80202.
- This certificate applies to the technical report titled "NI 43-101 Technical Report Feasibility Study Revenue–Virginius Mine, Ouray, Colorado" with an Effective Date of June 15, 2018 (the "Technical Report").
- 3. I graduated with a Bachelor of Science Mining Engineering degree from the Colorado School of Mines in 1986. I am a Qualified Professional (QP) Member of the Mining and Metallurgical Society of America. I have worked as a Mining Engineer for a total of 32 years since my graduation from university. My relevant experience includes responsibilities in operations, maintenance, engineering, management, and construction activities.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I visited the Virginius Mine property multiple times including May 16, 2014, August 24, 2015, May 5, 2016, May 15, 2017 and June 15, 2018. Each site visit lasted the duration of one day.
- 6. I am responsible for Mining Engineering Sections 2, 3, 16.5, 16.6, 16.7, 18.1, 18.3, 24 and portions of Sections 1, 25 and 26.
- 7. I am independent of the issuer applying all of the tests in section 1.5 of NI 43-101.
- 8. I have had prior involvement with the property that is the subject of the Technical Report. The nature of my prior involvement is acting as QP in the report titled "NI 43-101 Technical Report Feasibility Study Revenue Virginius Mine, Ouray, Colorado" with an Effective Date of March 1, 2017 and a Report Date of June 15, 2017.
- 9. I have read NI 43-101 and Form 43-101F1 and the sections of the Technical Report I am responsible for have been prepared in compliance with that instrument and form.
- 10. As of the aforementioned Effective Date, to the best of my knowledge, information and belief, the sections of the Technical Report I am responsible for contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 5th Day of July, 2018.

"Signed"

Jeff Osborn, BEng Mining, MMSAQP [01458QP] Principal Consultant (Mining Engineer)

U.S. Offices:		Canadian C	Offices:	Group Offices:
Anchorage	907.677.3520	Saskatoon	306.955.4778	Africa
Clovis	559.452.0182	Sudbury	705.682.3270	Asia
Denver	303.985.1333	Toronto	416.601.1445	Australia
Elko	775.753.4151	Vancouver	604.681.4196	Europe
Fort Collins	970.407.8302	Yellowknife	867.873.8670	North America
Reno	775.828.6800			South America
Tucson	520.544.3688			



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CERTIFICATE OF QUALIFIED PERSON

I, Brian Prosser, PE do hereby certify that:

- 1. I am Principal Consultant of SRK Consulting (U.S.), Inc., 1125 Seventeenth Street, Suite 600, Denver, CO, USA, 80202.
- This certificate applies to the technical report titled "NI 43-101 Technical Report Feasibility Study Revenue – Virginius Mine, Ouray, Colorado" with an Effective Date of June 15, 2018 (the "Technical Report").
- 3. I graduated with a degree in Mining Engineering from Virginia Polytechnic Institute and State University in 1994. I am a licensed engineer in the states of Virginia, West Virginia, Kentucky, and Nevada. I am a Registered Member of the Society for Mining, Metallurgy, and Exploration and a member of the Mine Ventilation Society of South Africa. I have worked as a mining engineer for a total of 23 years since my graduation from university. My relevant experience includes the development of ventilation systems, network modeling, system troubleshooting, and design evaluation.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I visited the Virginius Mine property on September 30, 2015 for 2 days.
- 6. I am responsible for Ventilation Section 16.7 and portions of Sections 1, 25 and 26.
- 7. I am independent of the issuer applying all of the tests in section 1.5 of NI 43-101.
- 8. I have had prior involvement with the property that is the subject of the Technical Report. The nature of my prior involvement is the performance of a ventilation survey and the development of a baseline ventilation model.
- 9. I have read NI 43-101 and Form 43-101F1 and the sections of the Technical Report I am responsible for have been prepared in compliance with that instrument and form.
- 10. As of the aforementioned Effective Date, to the best of my knowledge, information and belief, the sections of the Technical Report I am responsible for contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 5th Day of July, 2018.

"Signed"

"Sealed"

Brian Prosser, PE Principal Consultant (NA Mine Ventilation)

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Anchorage	907.677.3520	Saskatoon	306.955.4778	Africa
Clovis	559.452.0182	Sudbury	705.682.3270	Asia
Denver	303.985.1333	Toronto	416.601.1445	Australia
Elko	775.753.4151	Vancouver	604.681.4196	Europe
Fort Collins	970.407.8302	Yellowknife	867.873.8670	North America
Reno	775.828.6800			South America
Tucson	520.544.3688			



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CERTIFICATE OF QUALIFIED PERSON

I, Joanna Poeck, BEng Mining, SME-RM, MMSAQP, do hereby certify that:

- 1. I am a Principal Mining Engineer of SRK Consulting (U.S.), Inc., 1125 Seventeenth Street, Suite 600, Denver, CO, USA, 80202.
- This certificate applies to the technical report titled "NI 43-101 Technical Report Feasibility Study Revenue–Virginius Mine, Ouray, Colorado" with an Effective Date of June 15, 2018 (the "Technical Report").
- 3. I graduated with a degree in Mining Engineering from Colorado School of Mines in 2003. I am a Registered Member of the Society of Mining, Metallurgy & Exploration Geology. I am a QP member of the Mining & Metallurgical Society of America. I have worked as a Mining Engineer for a total of 15 years since my graduation from university. My relevant experience includes open pit and underground design, mine scheduling, pit optimization and truck productivity analysis.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I have not visited the Virginius Mine property.
- 6. I am responsible for Mining Engineering Sections 15, 16.1, 16.3, 16.4 and portions of Sections 1, 25, and 26.
- 7. I am independent of the issuer applying all of the tests in section 1.5 of NI 43-101.
- 8. I have had prior involvement with the property that is the subject of the Technical Report. The nature of my prior involvement is acting as QP in the report titled "NI 43-101 Technical Report Feasibility Study Revenue Virginius Mine, Ouray, Colorado" with an Effective Date of March 1, 2017 and a Report Date of June 15, 2017.
- 9. I have read NI 43-101 and Form 43-101F1 and the sections of the Technical Report I am responsible for have been prepared in compliance with that instrument and form.
- 10. As of the aforementioned Effective Date, to the best of my knowledge, information and belief, the sections of the Technical Report I am responsible for contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 5th Day of July, 2018.

"Signed"

Joanna Poeck, BEng Mining, SME-RM[4131289RM], MMSAQP[01387QP] Principal Consultant (Mining Engineer)

U.S. Offices:		Canadian Offices:		Group Offices:
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Elko	775.753.4151	Vancouver	604.681.4196	Europe
Fort Collins	970.407.8302	Yellowknife	867.873.8670	North America
Reno	775.828.6800			South America
Tucson	520.544.3688			



CERTIFICATE OF QUALIFIED PERSON

I, David S. Mickelson, P.E., do hereby certify that:

- 1. I am Senior Mechanical Engineer of Barr Engineering Company, 4300 MarketPointe Drive, Suite 200, Minneapolis, Minnesota.
- This certificate applies to the technical report titled "NI 43-101 Technical Report Feasibility Study Revenue – Virginius Mine Ouray, Colorado" with an Effective Date of June 15, 2018, (the "Technical Report").
- 3. I graduated with a degree in Mechanical Engineering from the University of Minnesota in 1989. In addition. I am a Licensed Professional Engineer of the states of Minnesota, Nebraska, North Dakota, Missouri, California, Texas, Wisconsin, Illinois, and Colorado. I have worked as a mechanical engineer for a total of 29 years since my graduation from university. My relevant experience includes nine years of heavy industrial machine design followed by 20 years of consulting engineering for industrial and mining clients.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I visited the Ouray Silver Mine property on October 17, 2016, for one day and March 1, 2017 for 2 days.
- 6. I am responsible for Recovery Method Section 17, Processing Plant Operating Cost Sections 21.1.3 and 21.2.4, and portions of Sections 1, 25, and 26, summarized therefrom.
- 7. I am independent of the issuer applying all of the tests in section 1.5 of NI 43-101.
- 8. I have had prior involvement with the property that is the subject of the Technical Report. The nature of my prior involvement is project manager and mechanical engineer of record for the detail design and engineering of the process plant upgrades.
- 9. I have read NI 43-101 and Form 43-101F1 and the sections of the Technical Report I am responsible for have been prepared in compliance with that instrument and form.
- 10. As of the aforementioned Effective Date, to the best of my knowledge, information and belief, the sections of the Technical Report I am responsible for contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 27th Day of June, 2018.

Mr.

David S. Mickelson





T: 303.985.1333 F: 303.985.9947

denver@srk.com www.srk.com

CERTIFICATE OF QUALIFIED PERSON

I, Terry Braun, MSc, PE do hereby certify that:

- 1. I am President, Practice Leader, and Principal Consultant (Civil Engineer) of SRK Consulting (U.S.), Inc., 1125 Seventeenth Street, Suite 600, Denver, CO, USA, 80202.
- This certificate applies to the technical report titled "NI 43-101 Technical Report, Feasibility Study, Revenue–Virginius Mine, Ouray, Colorado" with an Effective Date of June 15, 2018 (the "Technical Report").
- 3. I graduated with a degree in Civil Engineering from University of Colorado, Boulder in 1988. In addition, I have obtained a Master of Science degree in Environmental Science and Engineering with the Colorado School of Mines in 1993. I am a Professional Engineer (Civil), registered in the State of Colorado. I have worked as an engineer for a total of 29 years since my graduation from university. My relevant experience includes various environmental permitting projects throughout the United States as well as detailed review and assessment of environmental aspects of projects outside of the U.S, including South America. I have also prepared and/or reviewed cost estimates for operations and closure of various insitu extraction facilities and associated infrastructure.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I have not visited the Virginius Mine property.
- 6. I am responsible for Environmental Studies, Permitting and Social/Community Impact Sections 20, and portions of sections 1, 25 and 26.
- 7. I am independent of the issuer applying all of the tests in section 1.5 of NI 43-101.
- 8. I have had prior involvement with the property that is the subject of the Technical Report. The nature of my prior involvement is acting as QP in the report titled "NI 43-101 Technical Report, Feasibility Study Revenue Virginius Mine, Ouray, Colorado" with an Effective Date of March 1, 2017 and a Report Date of June 15, 2017.
- 9. I have read NI 43-101 and Form 43-101F1 and the sections of the Technical Report I am responsible for have been prepared in compliance with that instrument and form.
- 10. As of the aforementioned Effective Date, to the best of my knowledge, information and belief, the sections of the Technical Report I am responsible for contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 5th Day of July, 2018.

"Signed"

"Sealed"

Terry Braun, MSc, PE [CO 28711] President/Practice Leader/Principal Consultant (Civil Engineer)

U.S. Offices:		Canadian Offices:		Group Offices:
Anchorage	907.677.3520	Saskatoon	306.955.4778	Africa
Clovis	559.452.0182	Sudbury	705.682.3270	Asia
Denver	303.985.1333	Toronto	416.601.1445	Australia
Elko	775.753.4151	Vancouver	604.681.4196	Europe
Fort Collins	970.407.8302	Yellowknife	867.873.8670	North America
Reno	775.828.6800			South America
Tucson	520.544.3688			



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denver@srk.com www.srk.com

CERTIFICATE OF QUALIFIED PERSON

I, John H. Pfahl, ME do hereby certify that:

- 1. I am Principal Consultant of SRK Consulting (U.S.), Inc., 1125 Seventeenth Street, Suite 600, Denver, CO, USA, 80202.
- This certificate applies to the technical report titled "NI 43-101 Technical Report, Feasibility Study, Revenue – Virginius Mine, Ouray, Colorado" with an Effective Date of June 15, 2018 (the "Technical Report").
- 3. I graduated with a degree in Bachelor of Science in Engineering (Civil Specialty) from Colorado School of Mines in 2003. In addition, I have obtained a Master of Engineering, Engineer of Mines from Colorado School of Mines in 2008. I am a Registered Member of the Society for Mining, Metallurgy and Exploration. I have worked as a mining professional for a total of 15 years since my graduation from university. My relevant experience includes wide ranging experience in mining project economics and investment.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I have not visited the Virginius Mine property.
- 6. I am responsible for Market Studies, Capital and Operating Costs and Economic Analysis Sections 19, 21, excluding Section 12.1.3 and 12.2.4, Section 22 and portions of Sections 1, 25 and 26.
- 7. I am independent of the issuer applying all of the tests in section 1.5 of NI 43-101.
- 8. I have not had prior involvement with the property that is the subject of the Technical Report.
- 9. I have read NI 43-101 and Form 43-101F1 and the sections of the Technical Report I am responsible for have been prepared in compliance with that instrument and form.
- 10. As of the aforementioned Effective Date, to the best of my knowledge, information and belief, the sections of the Technical Report I am responsible for contains all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 6th Day of July, 2018.

"Signed"

John Pfahl, ME Corporate Advisory Consultant (Mining Engineer)

U.S. Offices:		Canadian Offices:		Group Offices:
Anchorage	907.677.3520	Saskatoon	306.955.4778	Africa
Clovis	559.452.0182	Sudbury	705.682.3270	Asia
Denver	303.985.1333	Toronto	416.601.1445	Australia
Elko	775.753.4151	Vancouver	604.681.4196	Europe
Fort Collins	970.407.8302	Yellowknife	867.873.8670	North America
Reno	775.828.6800			South America
Tucson	520.544.3688			