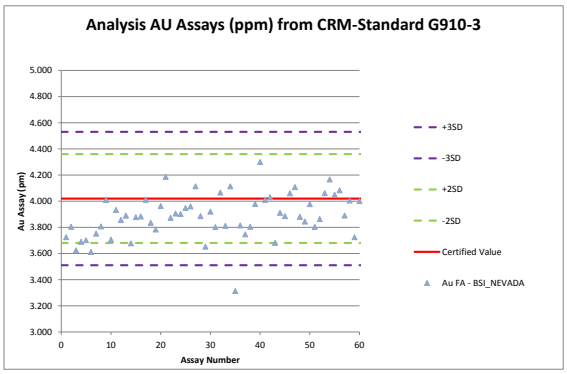
APPENDIX

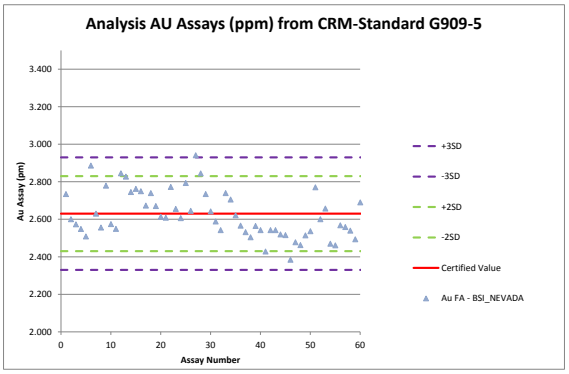
A MINERAL RESOURCE ESTIMATE APPENDIX

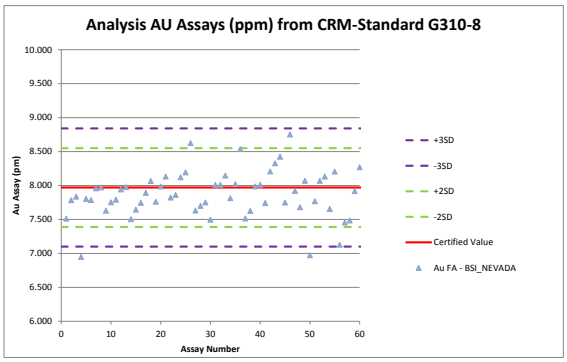
QAQC ANALYSIS

2013 SAMPLE SUBMISSION TO BSI LABORATORIES

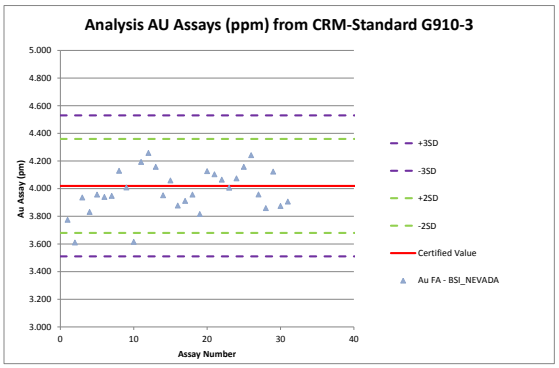
DRILL CRM

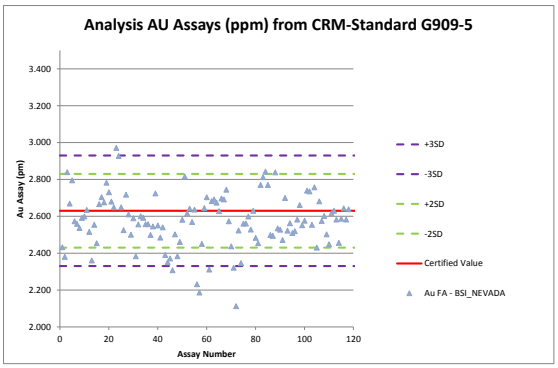


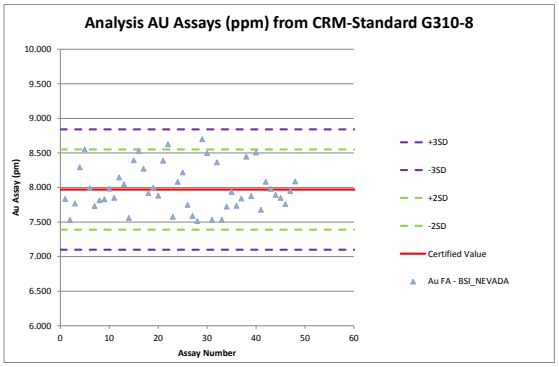




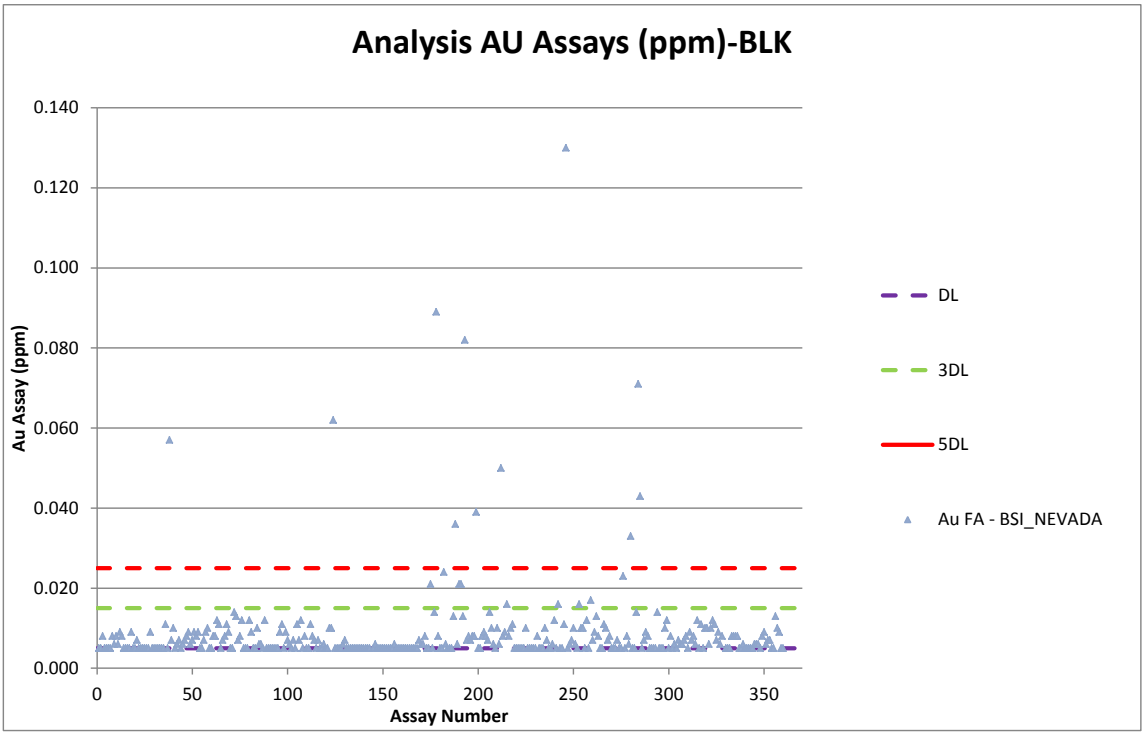
TRENCH CRM







DRILL BLANKS



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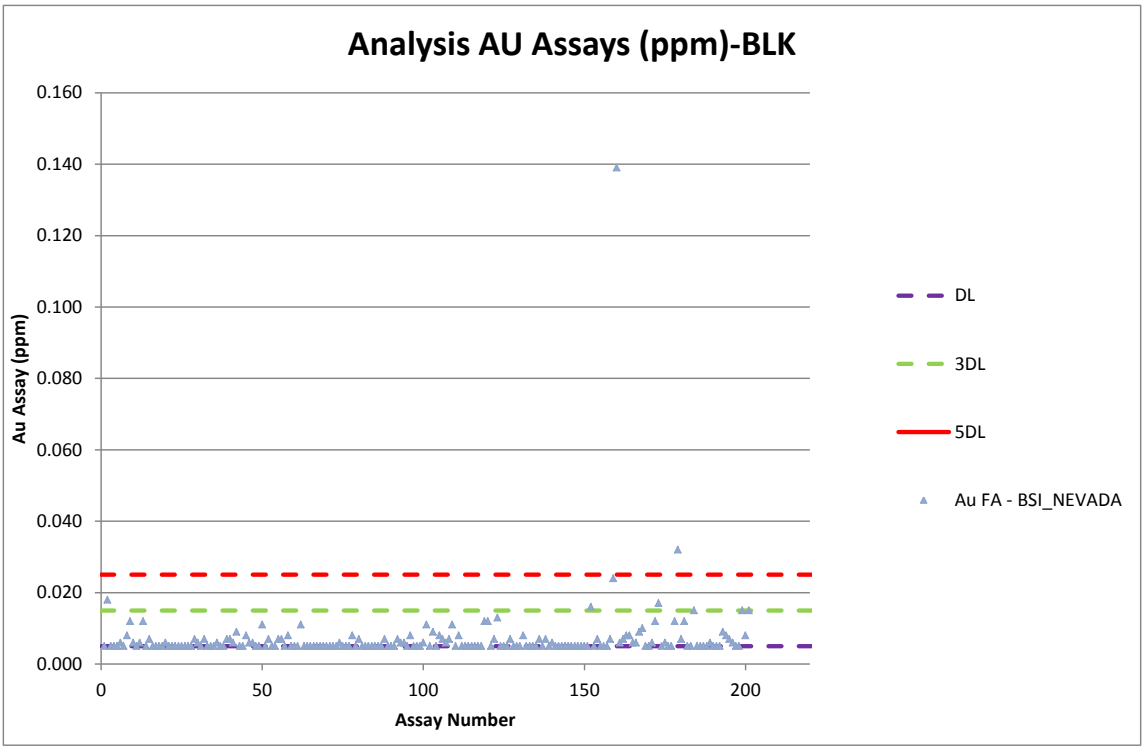
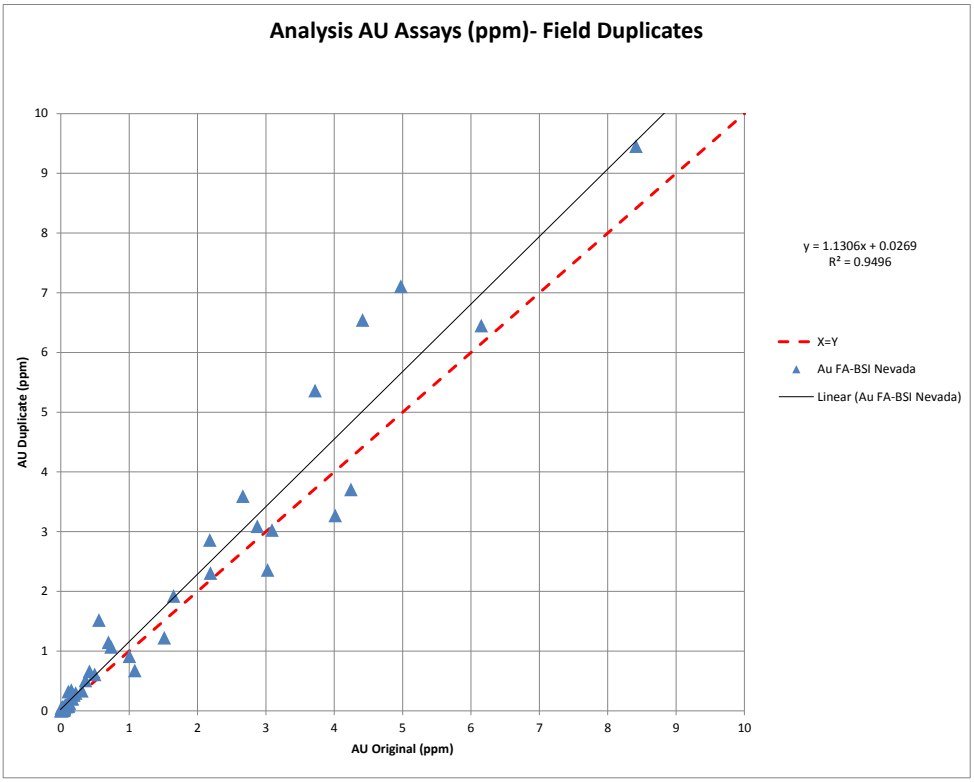


DRILL DUPLICATES



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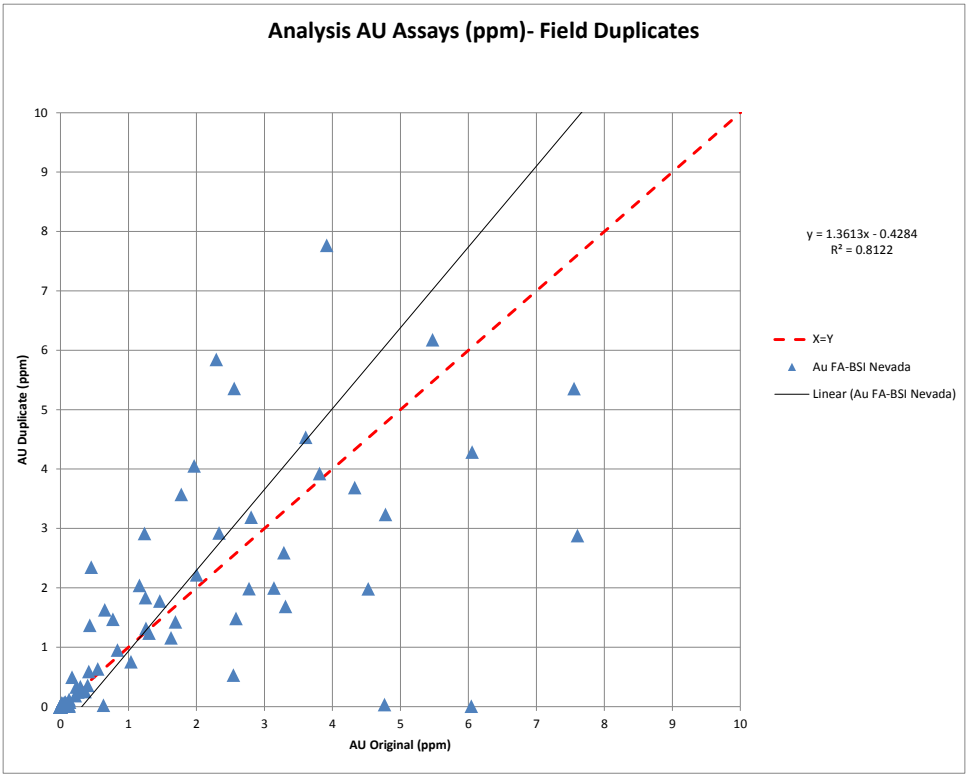


COMPOSITE LENGTH ANALYSIS

Central Breccia Composite Length Analysis

1M COMPS	FIELD	NSAMPLES	MIN	MAX	MEAN	VARIANCE	STANDDEV	COVAR	% DIFF FROM MEAN	% SAMPLE REDUCTION (MINCOMP)
RAW	AUGT	315	0.000	33.58	1.81	16.03	4.00	2.21		
0% OF COMP	AUGT	286	0.008	33.58	1.80	13.44	3.67	2.03	-0.40%	0.00%
25% OF COMP	AUGT	286	0.008	33.58	1.80	13.44	3.67	2.03	-0.40%	0.00%
50% OF COMP	AUGT	285	0.008	33.58	1.81	13.48	3.67	2.03	-0.15%	0.35%
75% OF COMP	AUGT	282	0.008	33.58	1.82	13.61	3.69	2.03	0.51%	1.40%
100% OF COMP	AUGT	279	0.008	33.58	1.83	13.75	3.71	2.03	0.94%	2.45%

2M COMPS	FIELD	NSAMPLES	MIN	MAX	MEAN	VARIANCE	STANDDEV	COVAR	% DIFF FROM MEAN	% SAMPLE REDUCTION (MINCOMP)
RAW	AUGT	315	0.000	33.58	1.81	16.03	4.00	2.21		
0% OF COMP	AUGT	146	0.010	18.66	1.78	8.63	2.94	1.65	-1.44%	0.00%
25% OF COMP	AUGT	146	0.010	18.66	1.78	8.63	2.94	1.65	-1.44%	0.00%
50% OF COMP	AUGT	141	0.010	18.66	1.81	8.90	2.98	1.65	0.25%	3.42%
75% OF COMP	AUGT	139	0.010	18.66	1.83	9.01	3.00	1.64	1.20%	4.79%
100% OF COMP	AUGT	138	0.010	18.66	1.84	9.07	3.01	1.64	1.65%	5.48%

3M COMPS	FIELD	NSAMPLES	MIN	MAX	MEAN	VARIANCE	STANDDEV	COVAR	% DIFF FROM MEAN	% SAMPLE REDUCTION (MINCOMP)
RAW	AUGT	315	0.000	33.58	1.81	16.03	4.00	2.21		
0% OF COMP	AUGT	98	0.011	14.58	1.77	7.04	2.65	1.50	-1.89%	0.00%
25% OF COMP	AUGT	98	0.011	14.58	1.77	7.04	2.65	1.50	-1.89%	0.00%
50% OF COMP	AUGT	96	0.011	14.58	1.80	7.17	2.68	1.49	-0.67%	2.04%
75% OF COMP	AUGT	91	0.011	14.58	1.85	7.49	2.74	1.48	2.48%	7.14%
100% OF COMP	AUGT	89	0.011	14.58	1.87	7.65	2.77	1.48	3.13%	9.18%

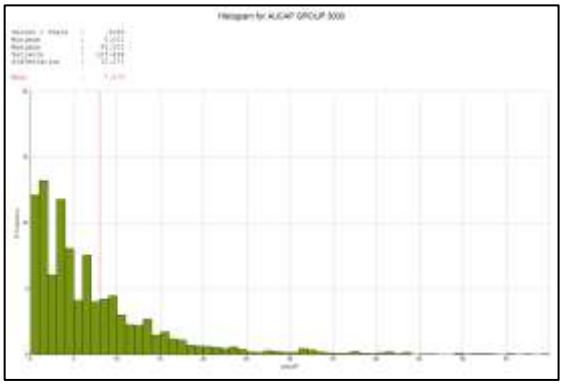
4M COMPS	FIELD	NSAMPLES	MIN	MAX	MEAN	VARIANCE	STANDDEV	COVAR	% DIFF FROM MEAN	% SAMPLE REDUCTION (MINCOMP)
RAW	AUGT	315	0.000	33.58	1.81	16.03	4.00	2.21		
0% OF COMP	AUGT	74	0.012	12.13	1.77	5.28	2.30	1.30	-2.21%	0.00%
25% OF COMP	AUGT	74	0.012	12.13	1.77	5.28	2.30	1.30	-2.21%	0.00%
50% OF COMP	AUGT	73	0.012	12.13	1.79	5.33	2.31	1.29	-1.28%	1.35%
75% OF COMP	AUGT	67	0.012	12.13	1.86	5.73	2.39	1.29	2.69%	9.46%
100% OF COMP	AUGT	65	0.012	12.13	1.90	5.85	2.42	1.27	4.90%	12.16%

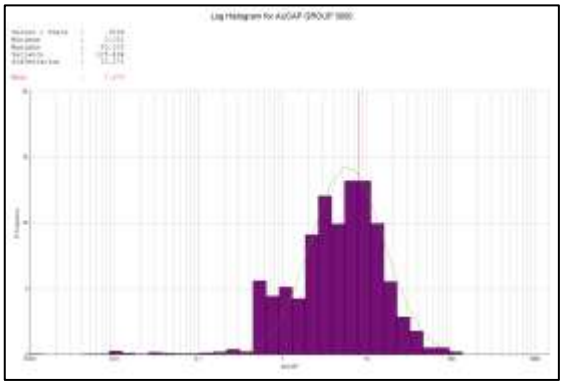
5M COMPS	FIELD	NSAMPLES	MIN	MAX	MEAN	VARIANCE	STANDDEV	COVAR	% DIFF FROM MEAN	% SAMPLE REDUCTION (MINCOMP)
RAW	AUGT	315	0.000	33.58	1.81	16.03	4.00	2.21		
0% OF COMP	AUGT	62	0.012	7.55	1.72	3.70	1.92	1.12	-4.74%	0.00%
25% OF COMP	AUGT	60	0.012	7.55	1.76	3.77	1.94	1.10	-2.52%	3.23%
50% OF COMP	AUGT	58	0.012	7.55	1.79	3.87	1.97	1.10	-0.80%	6.45%
75% OF COMP	AUGT	53	0.012	7.55	1.88	4.14	2.03	1.08	3.69%	14.52%
100% OF COMP	AUGT	52	0.012	7.55	1.90	4.19	2.05	1.08	4.87%	16.13%

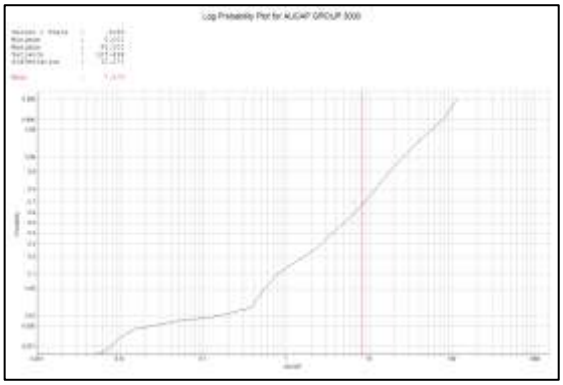
HISTOGRAMS AND LOG PROBABILITY PLOTS

America Deposit – America-Escondido Vein – GROUP 3000

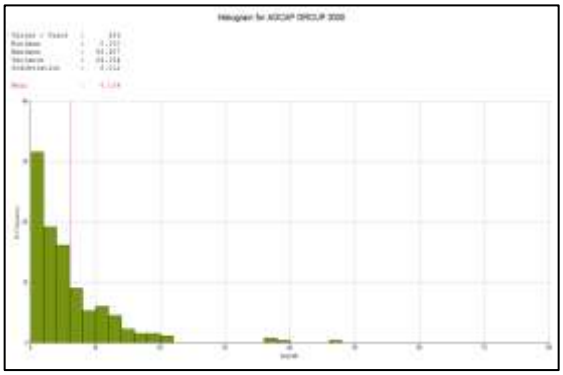
Gold

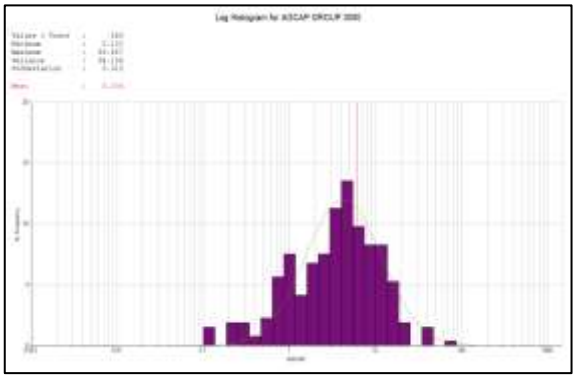


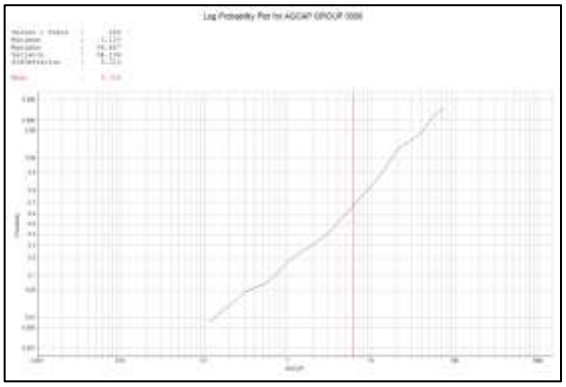




Silver







America Deposit – Constancia Vein – GROUP 2000

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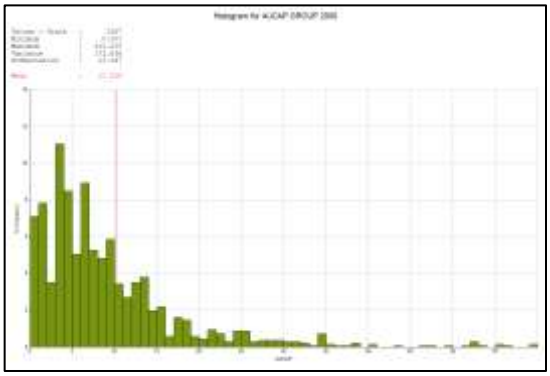

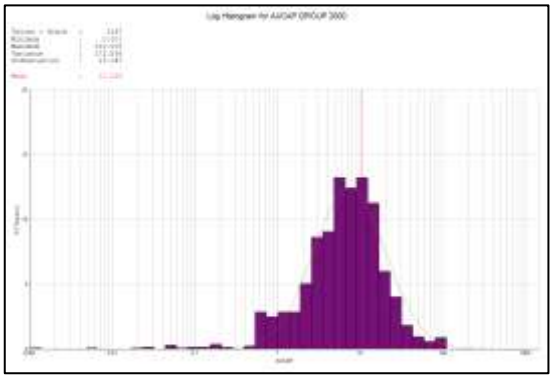

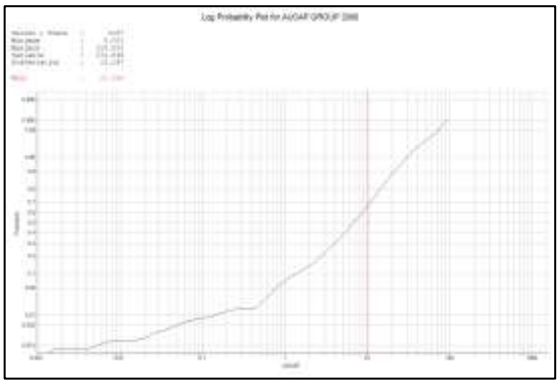

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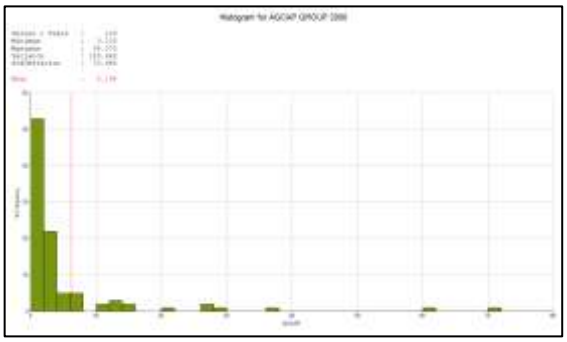
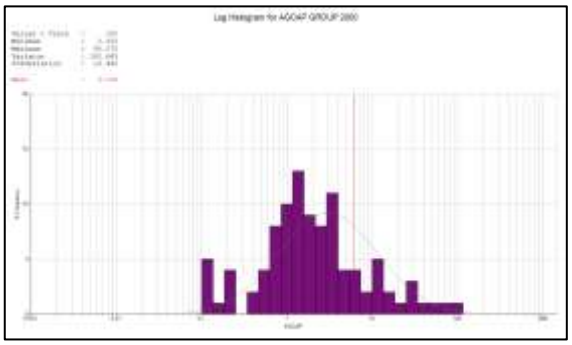
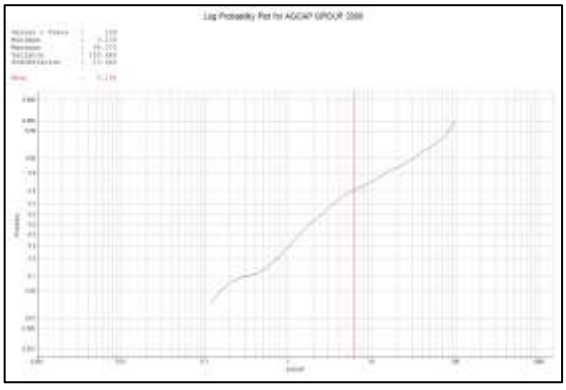
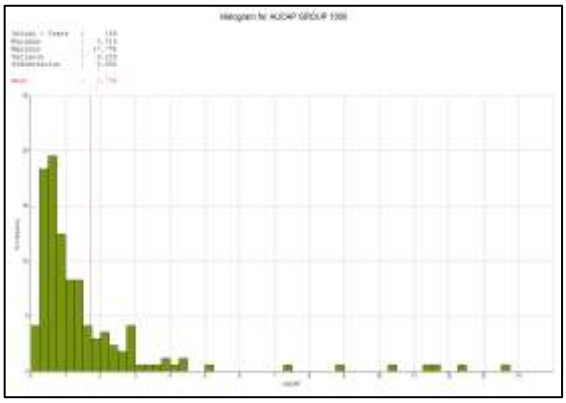


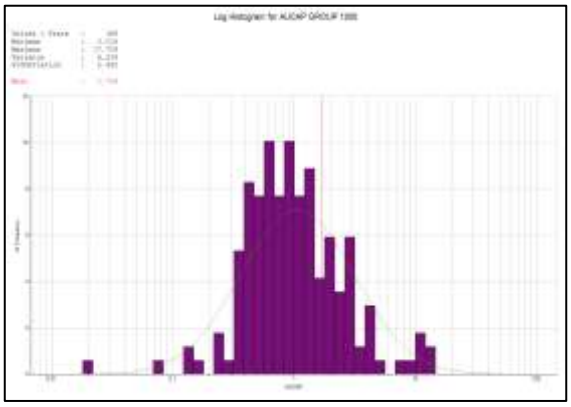


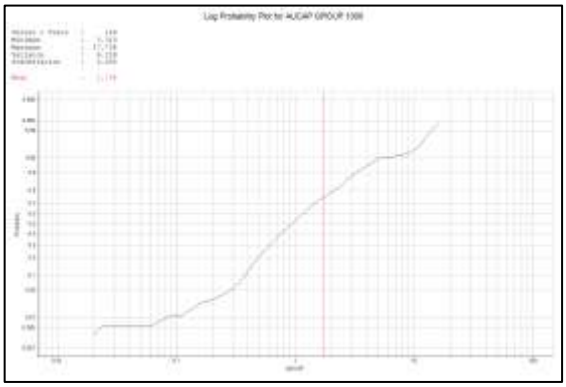


Central Breccia Deposit – GROUP 1000

Gold

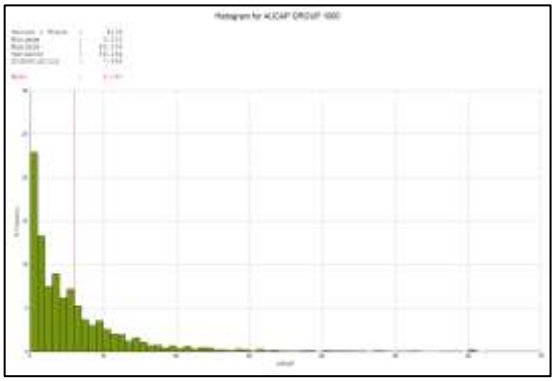


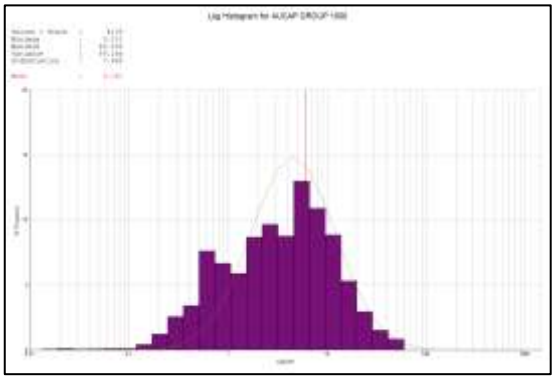


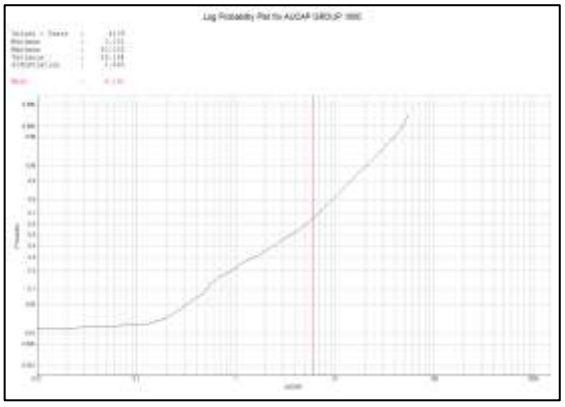


La India Deposit – Main Domain – GROUP 1000

Gold







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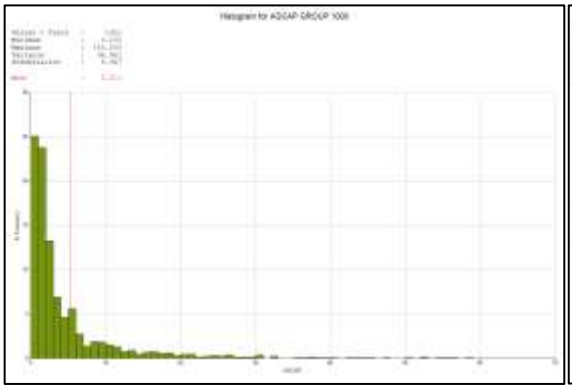
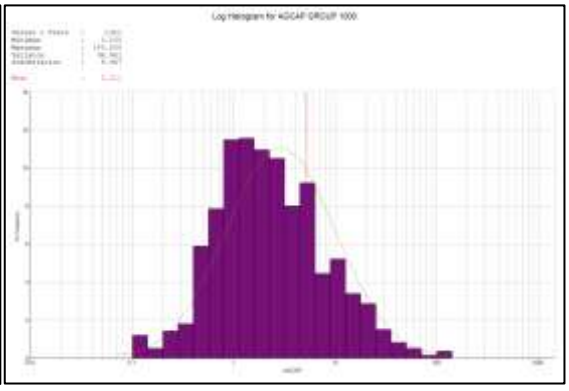
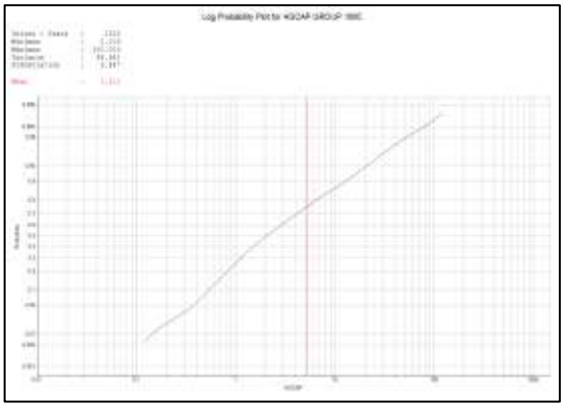
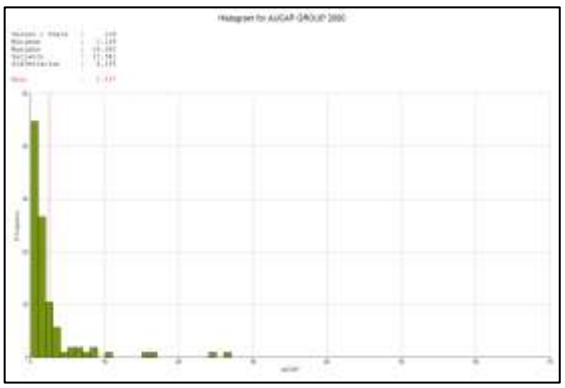


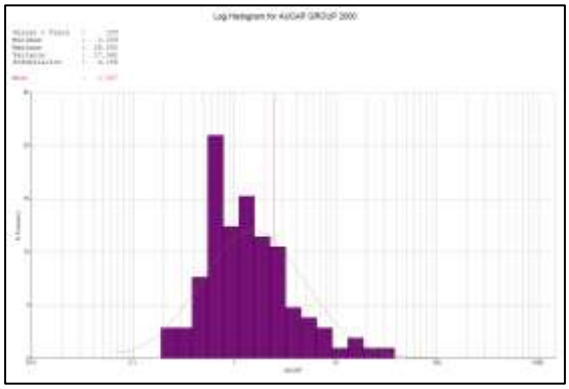


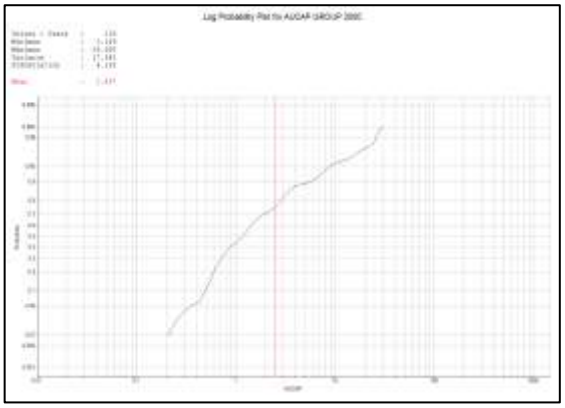


La India Deposit – Hanging Wall Domain – GROUP 2000

Gold







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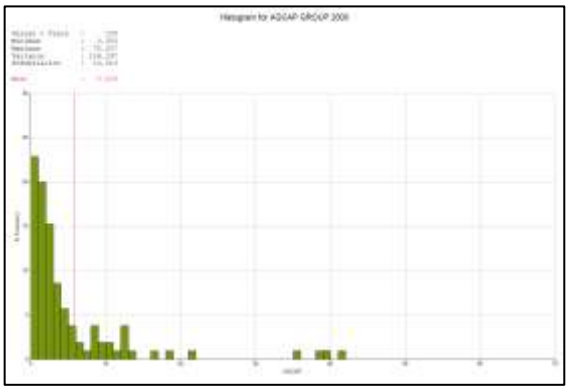
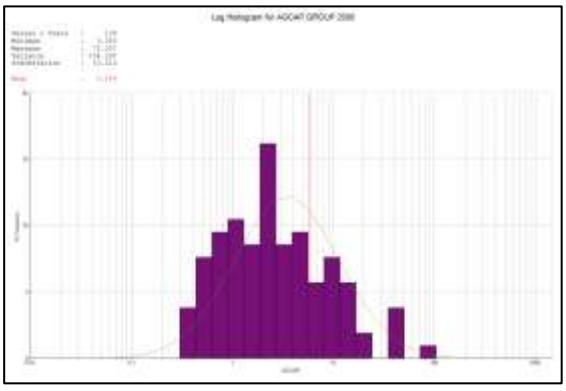
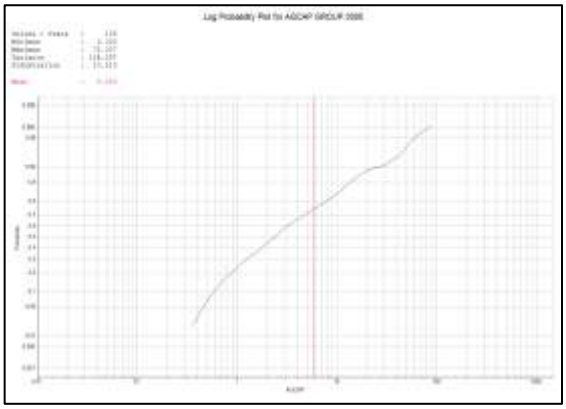
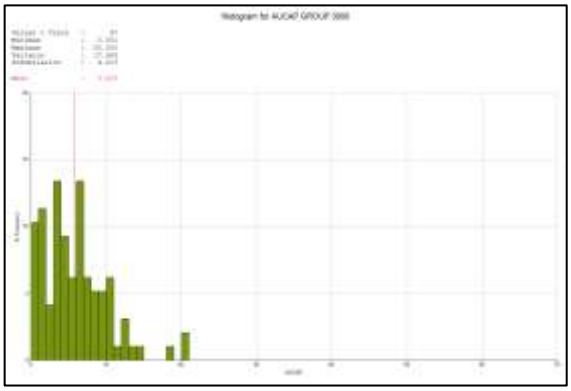


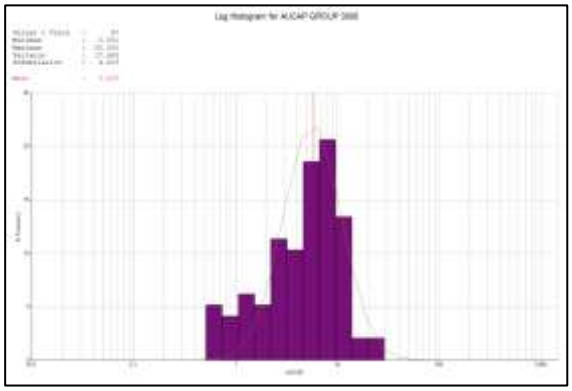


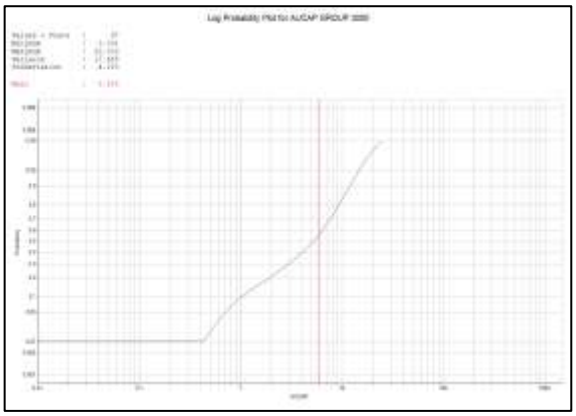


La India Deposit – Breccia Zone Domain – GROUP 3000

Gold







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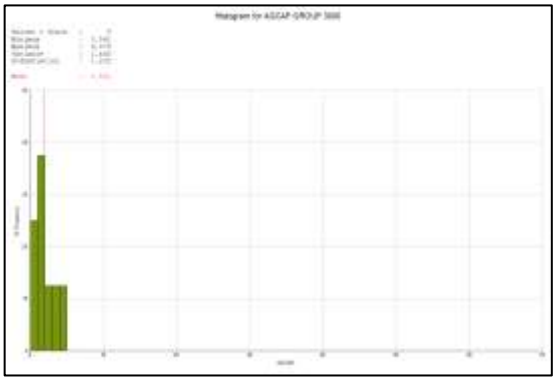
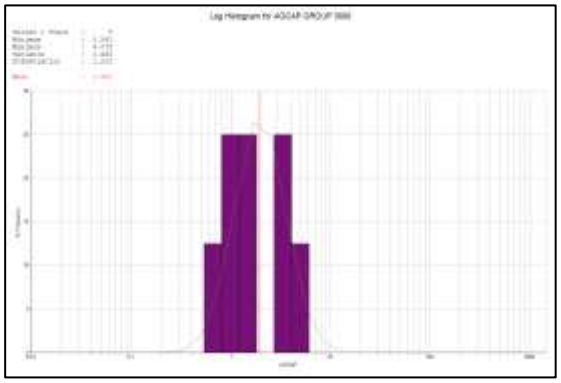
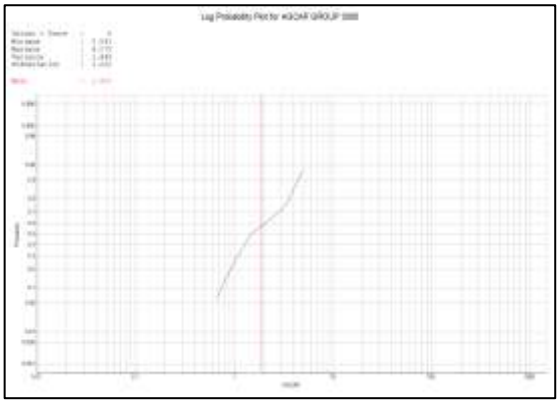
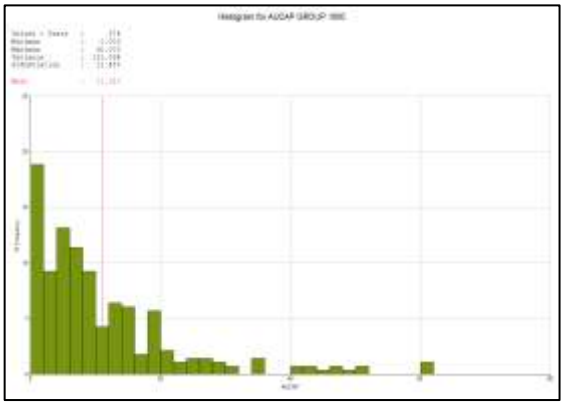


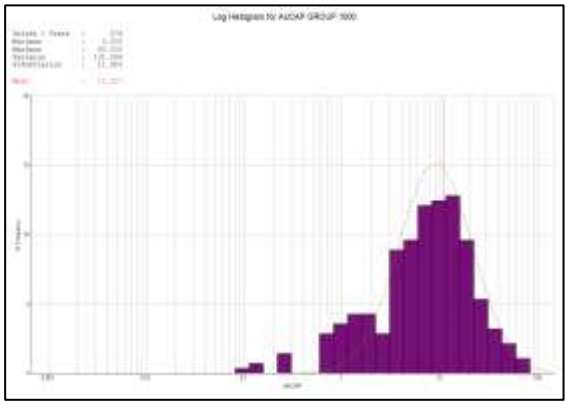


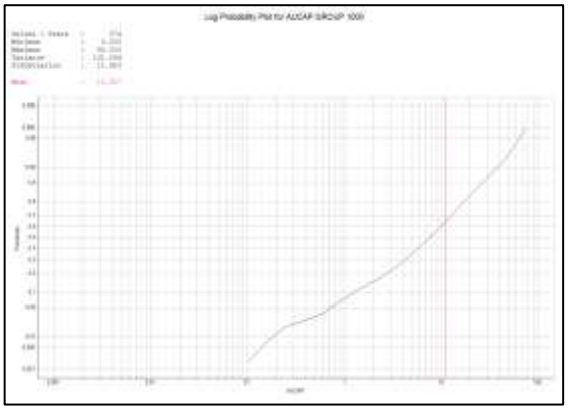


Teresa Deposit – GROUP 1000

Gold



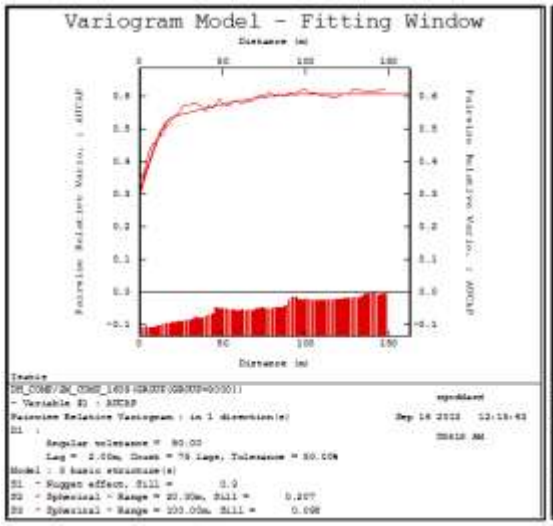


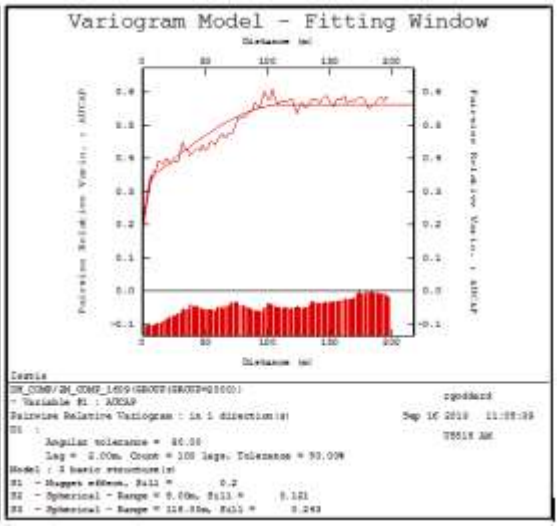


VARIOGRAMS

America Deposit

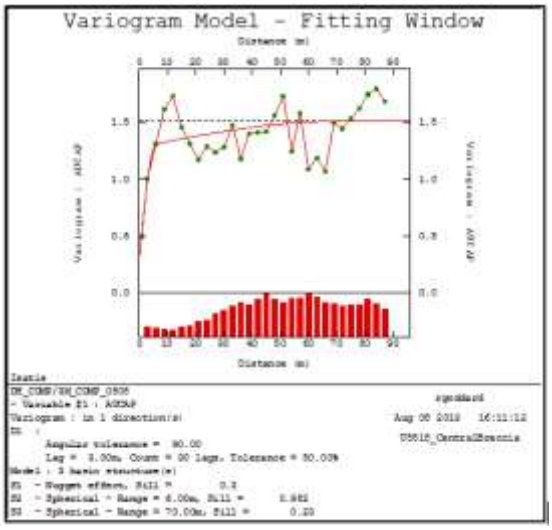
America-Escondido (GROUP 3000) and Constancia (GROUP 2000) for Gold





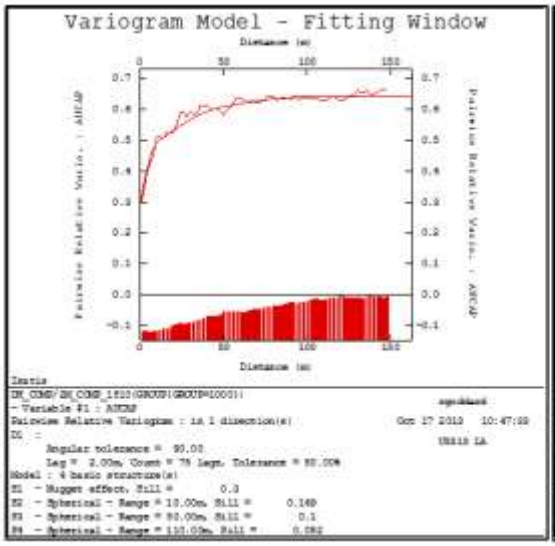
Central Breccia Deposit

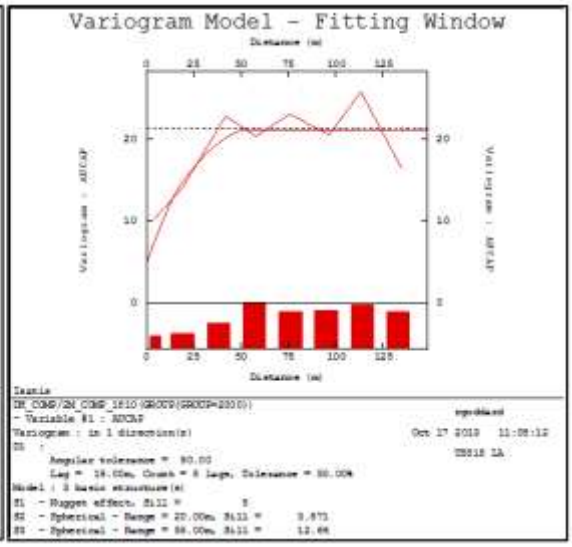
Central Breccia (GROUP 1000) for Gold



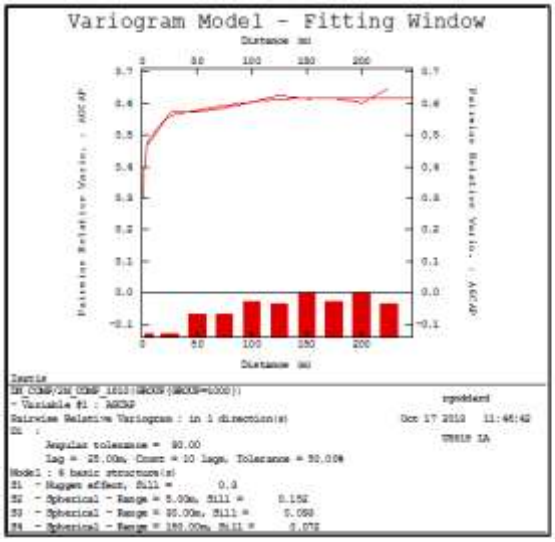
La India Deposit

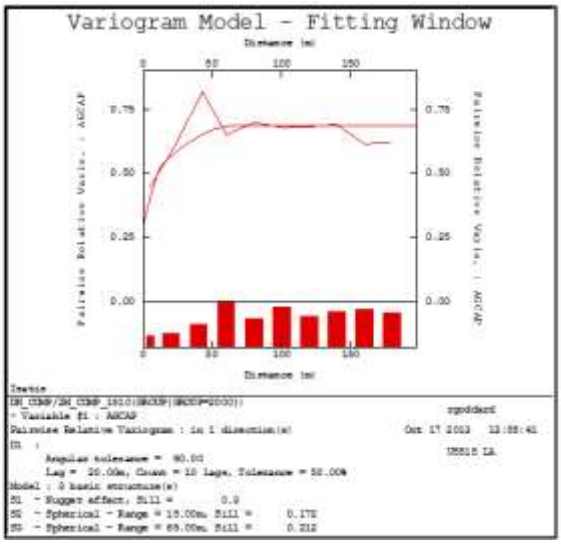
La India Main (GROUP 3000) and La India Hanging Wall (GROUP 2000) for Gold





La India Main (GROUP 3000) and La India Hanging Wall (GROUP 2000) for Silver

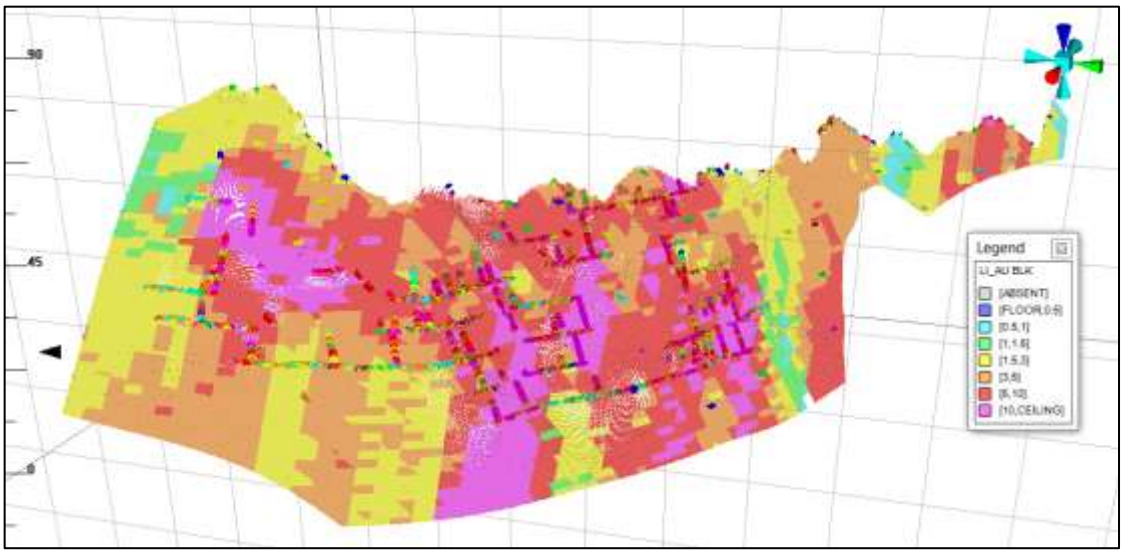


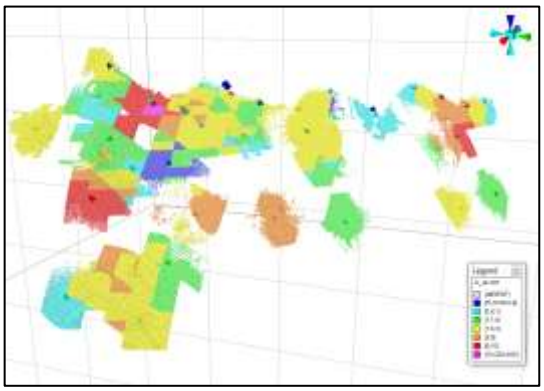


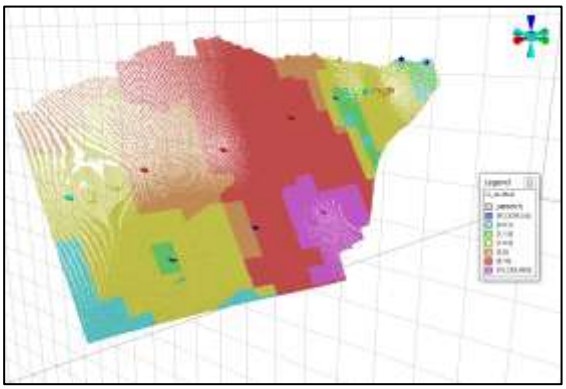
BLOCK GRADE VISUAL VALIDATION

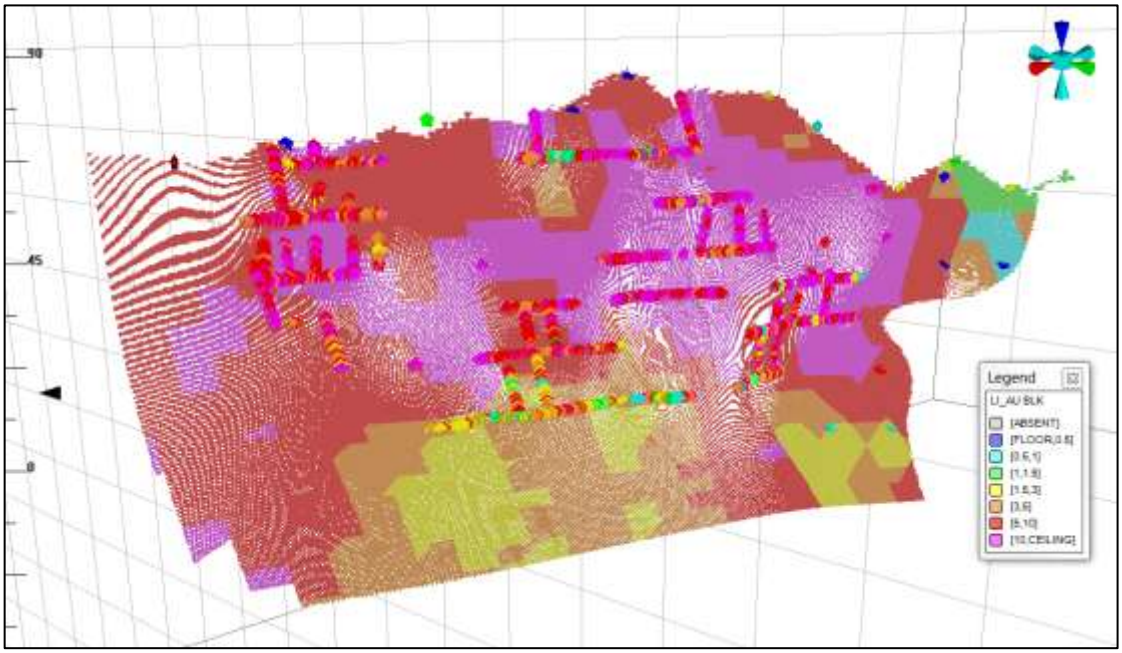
America Deposit

Top down, left to right: America-Escondido HGC (KZONE 3500); America-Escondido WR (KZONE 3010); Constancia (KZONE 2510); Constancia (KZONE 2520).



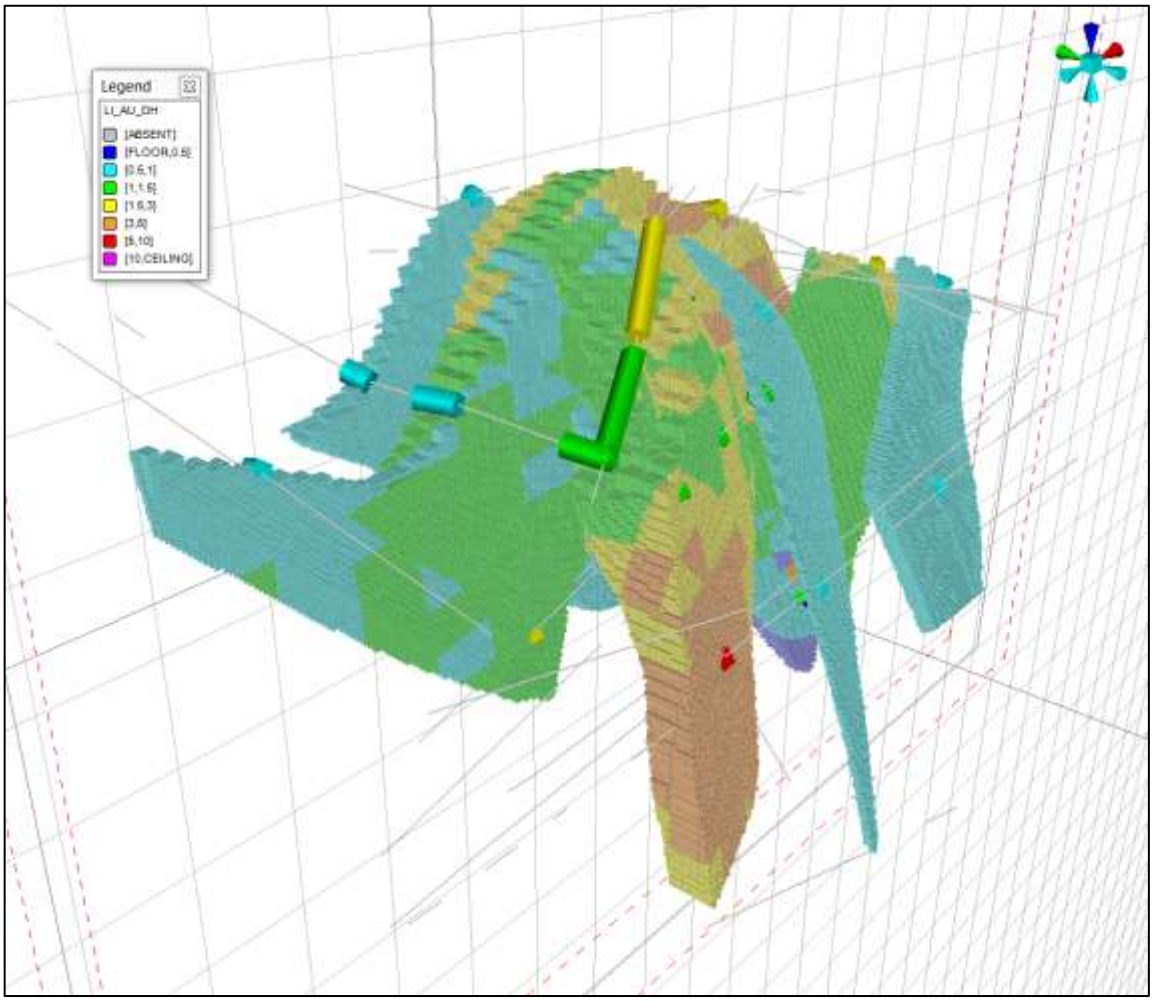






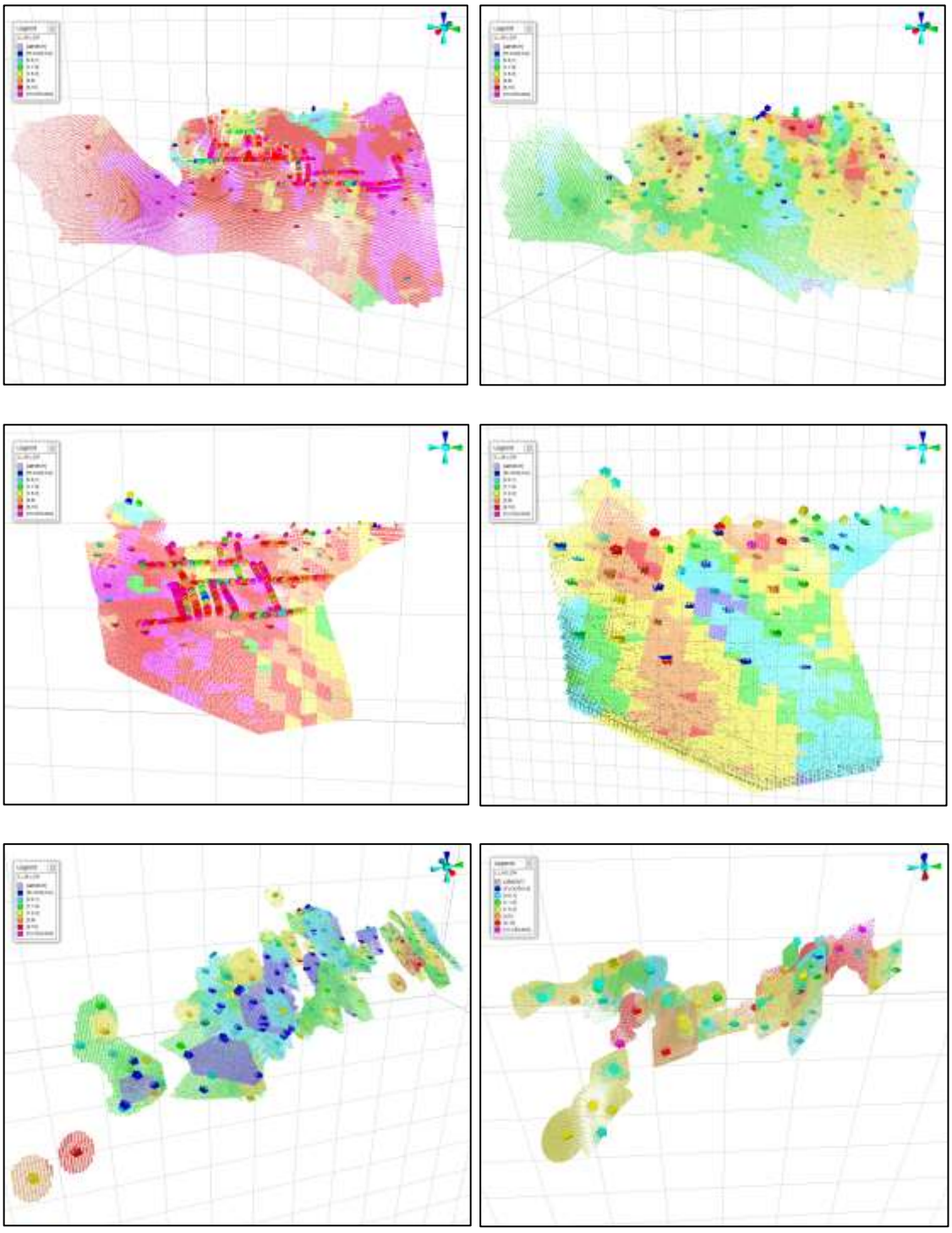
Central Breccia Deposit

GROUP 1000



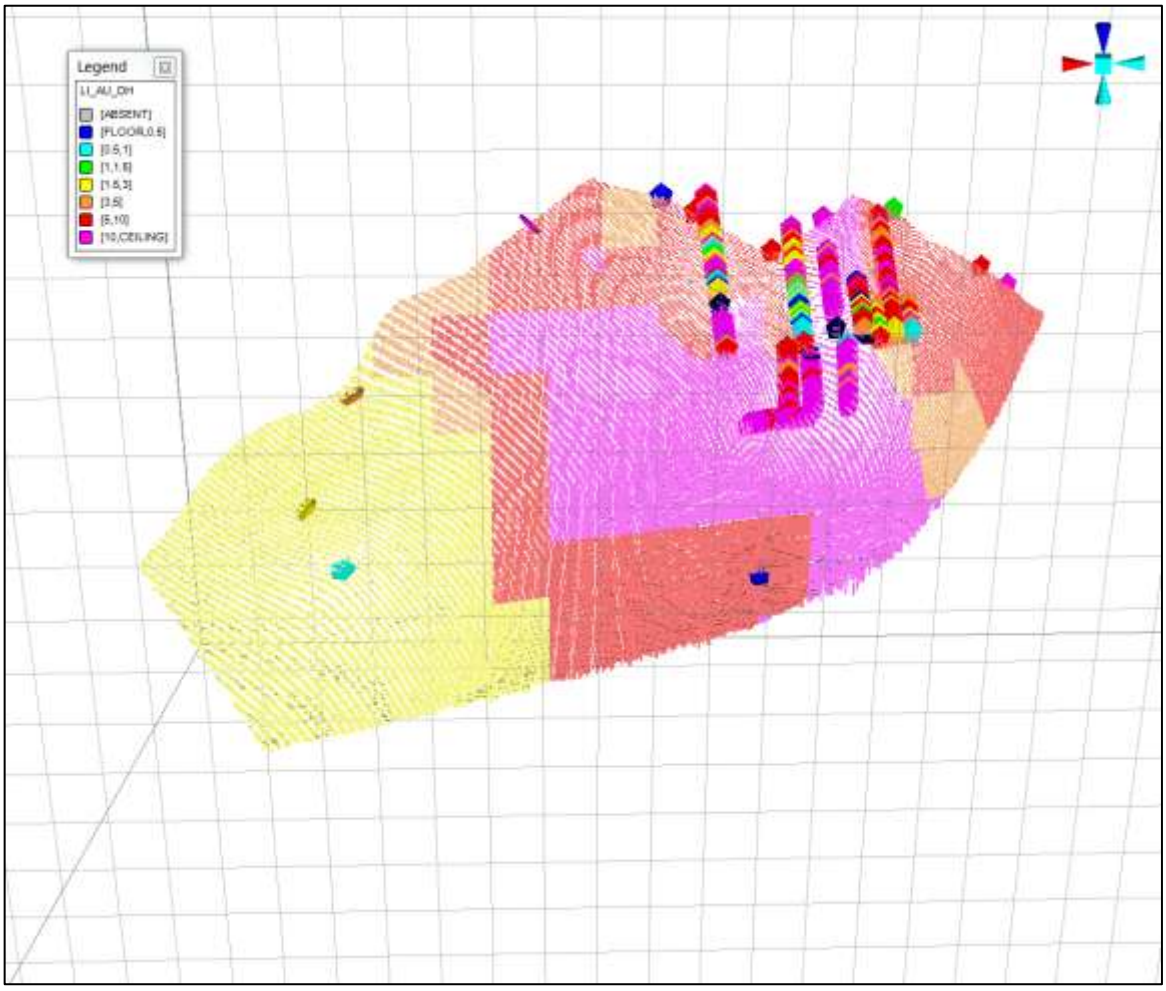
La India Deposit

Top down, left to right: La India HGC (KZONE 130); La India Main WR (KZONE 230); La India HGC (KZONE 140); La India Main WR (KZONE 250); La India Main WR (KZONE 301-329); La India Hanging Wall WR (KZONE 410-530).



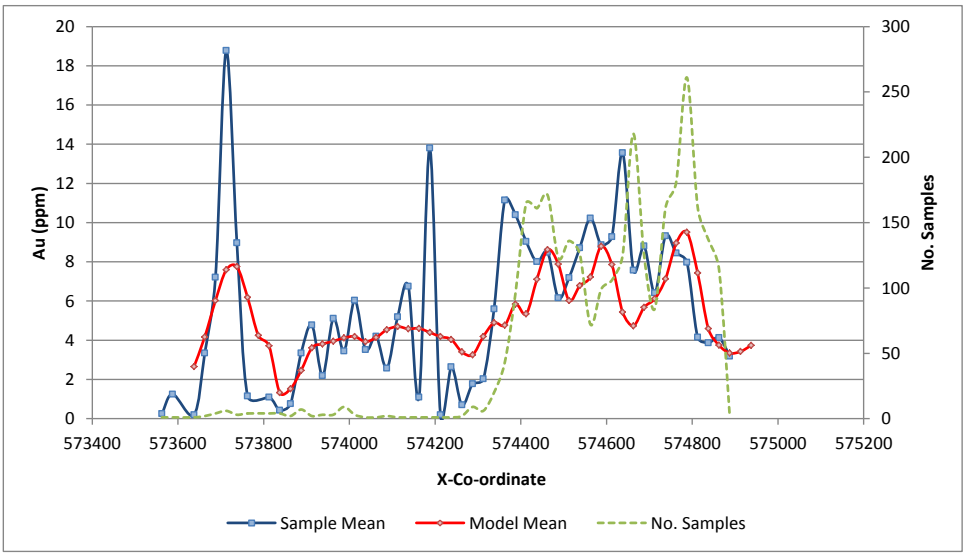
Teresa Deposit

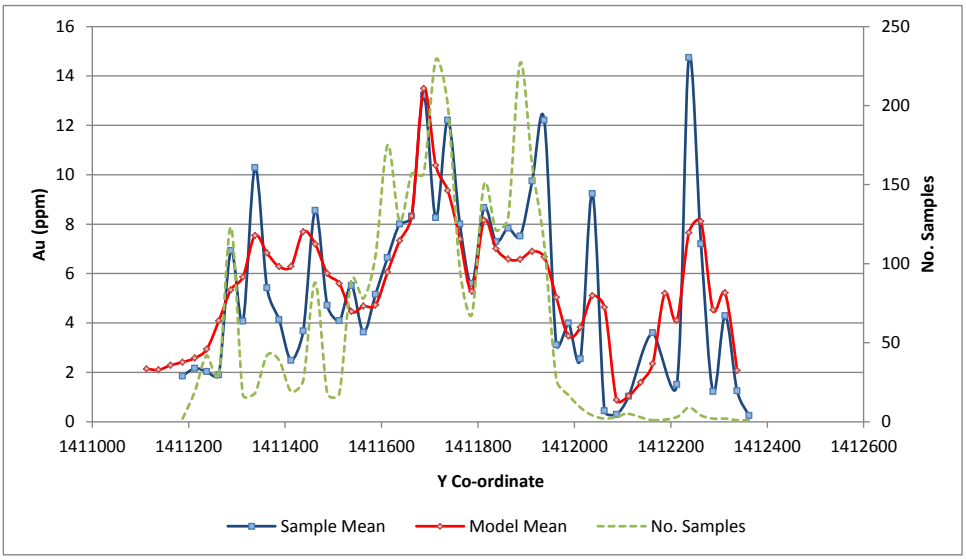
GROUP 1000

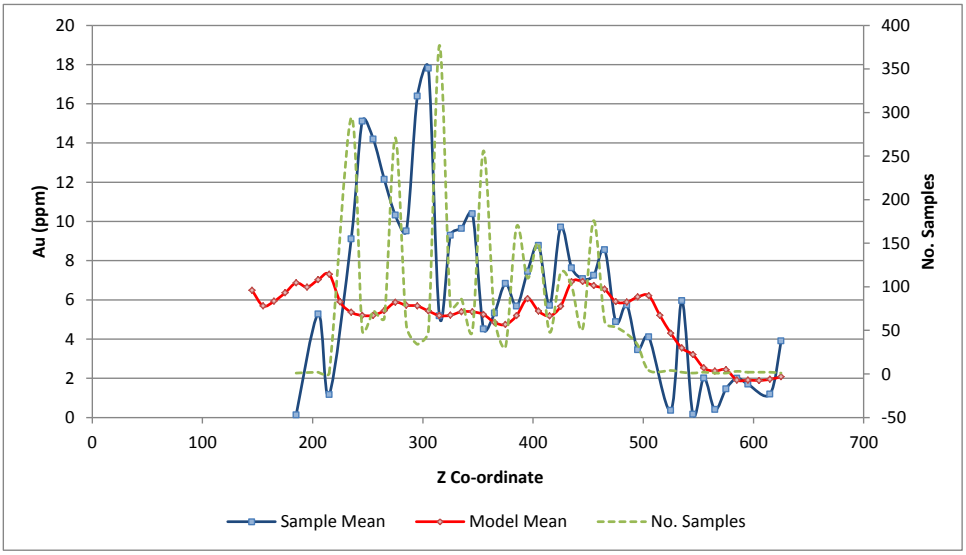


VALIDATION PLOTS

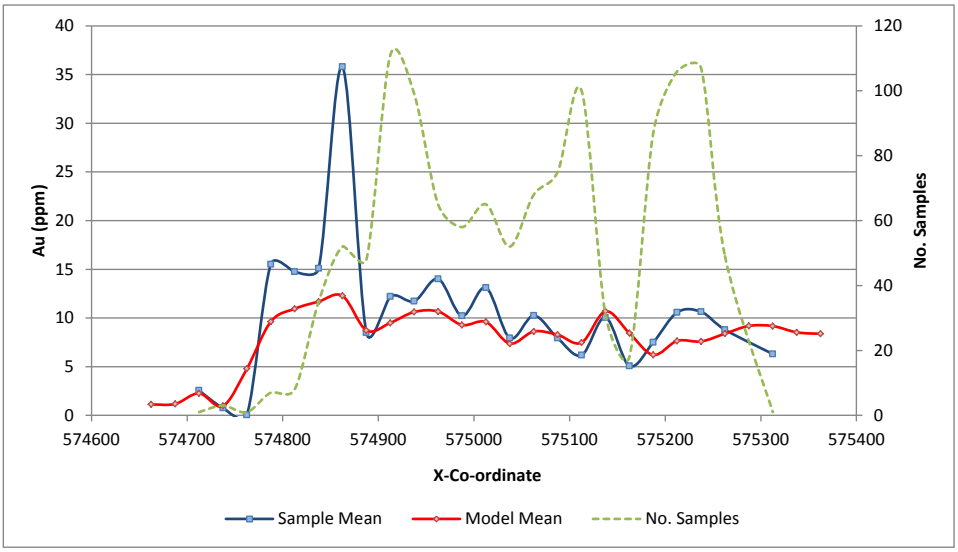
America Deposit – America-Escondido Vein – KZONE 3500

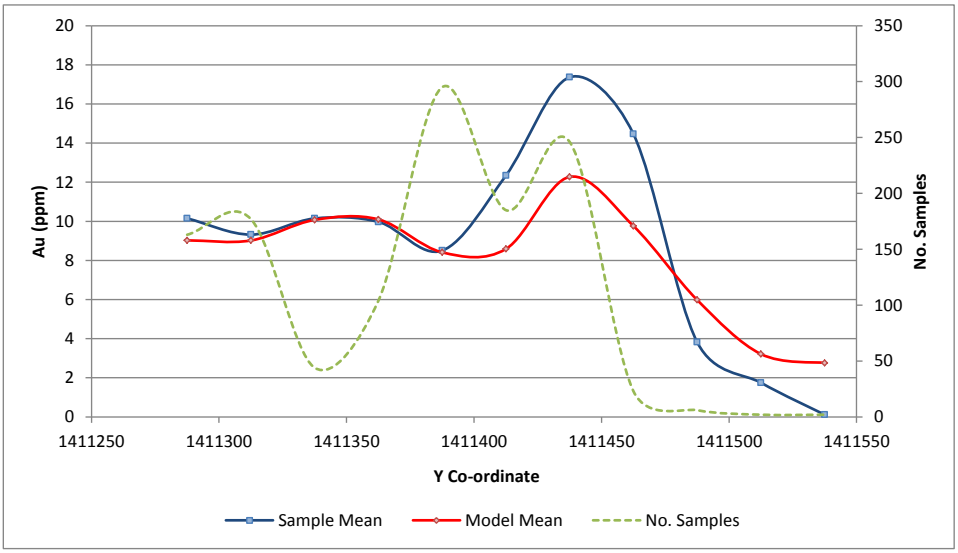


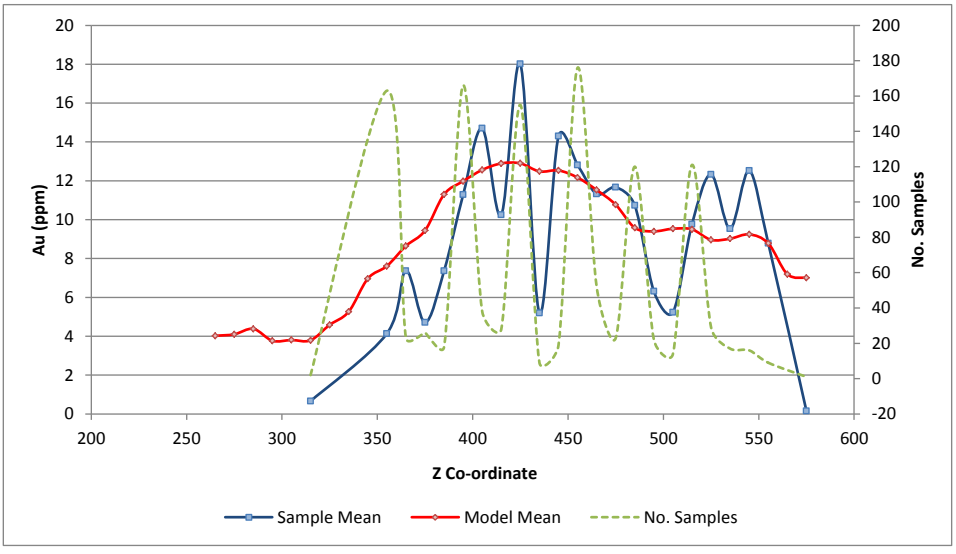




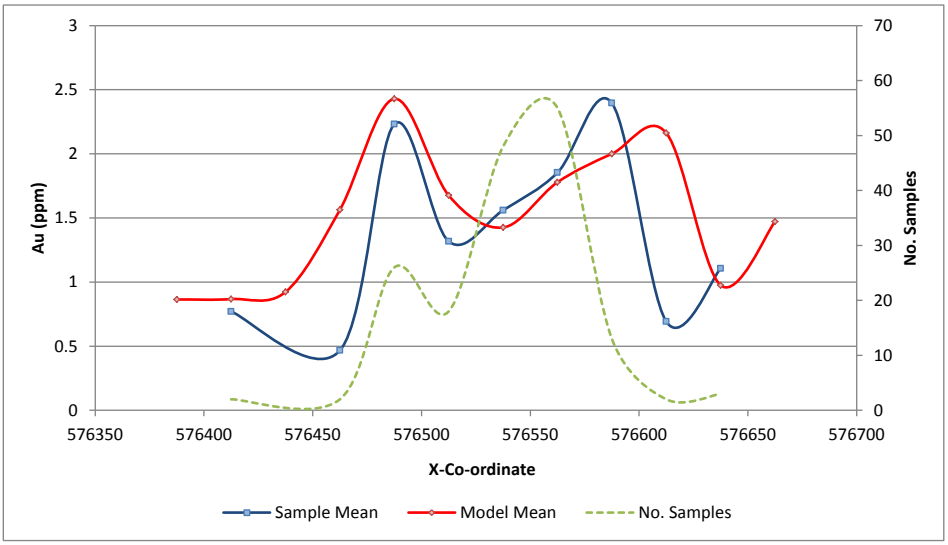
America Deposit – Constancia Vein – KZONE 2520

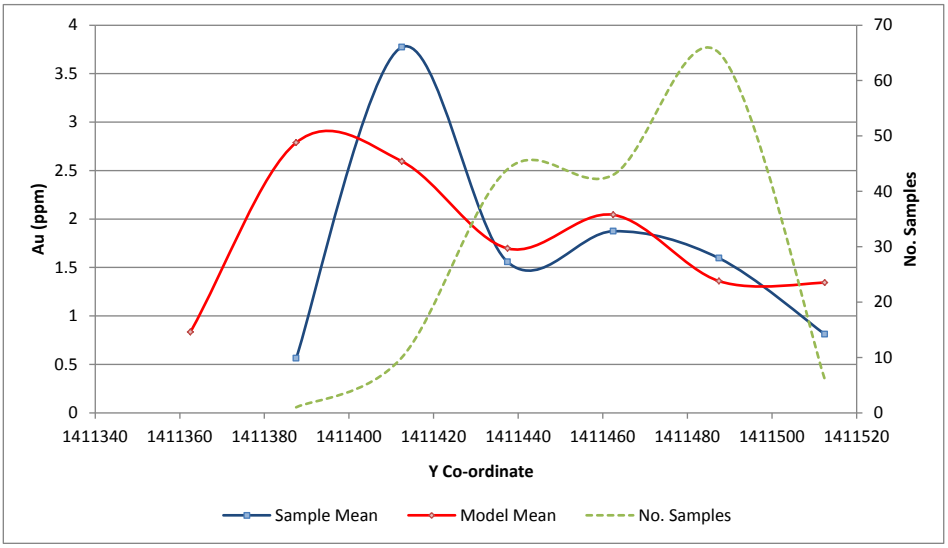


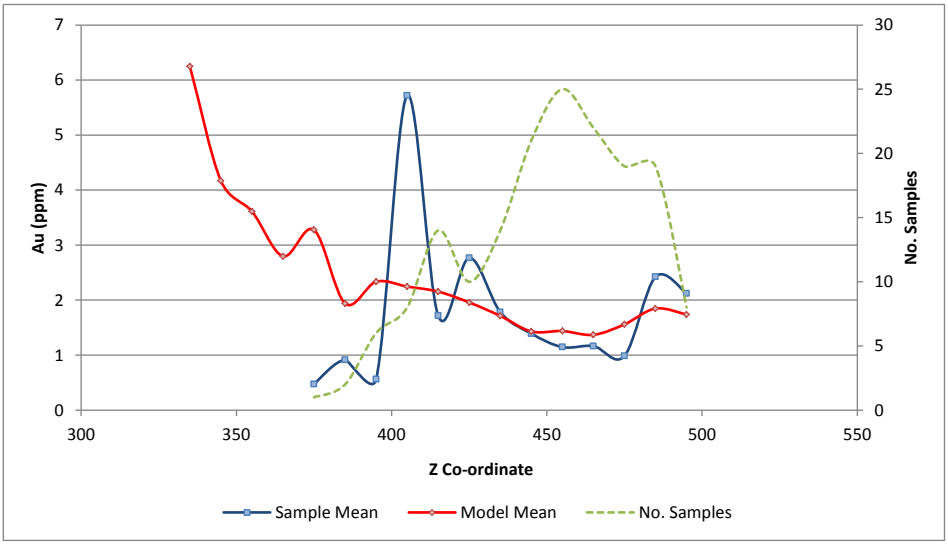




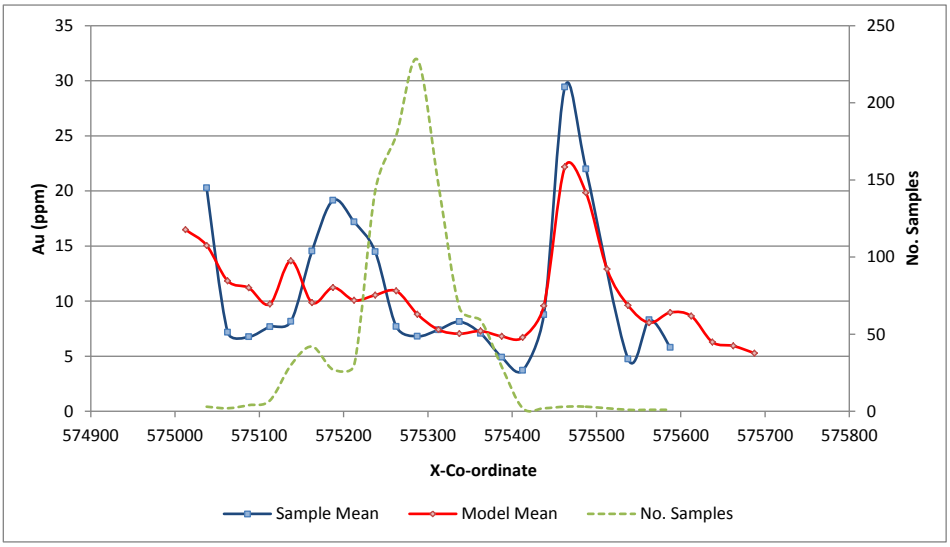
Central Breccia Deposit – GROUP 1000

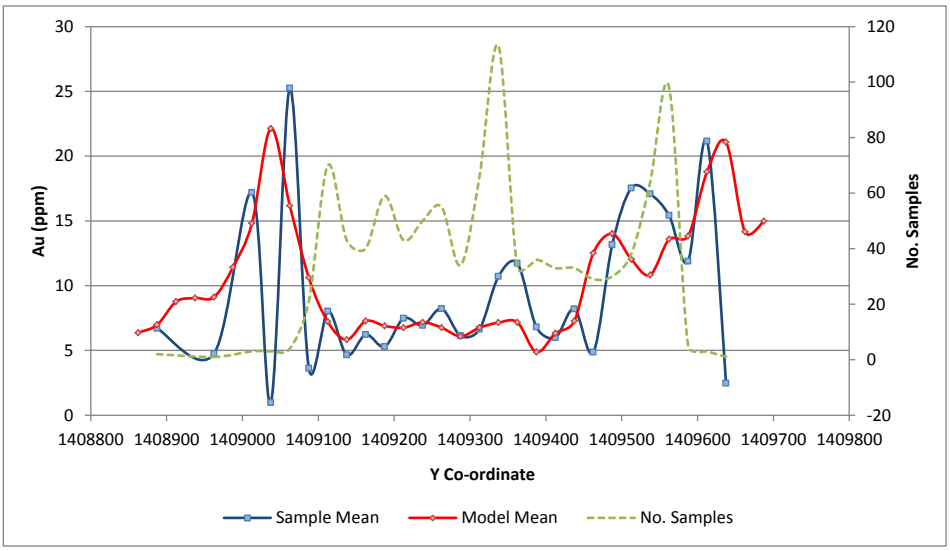


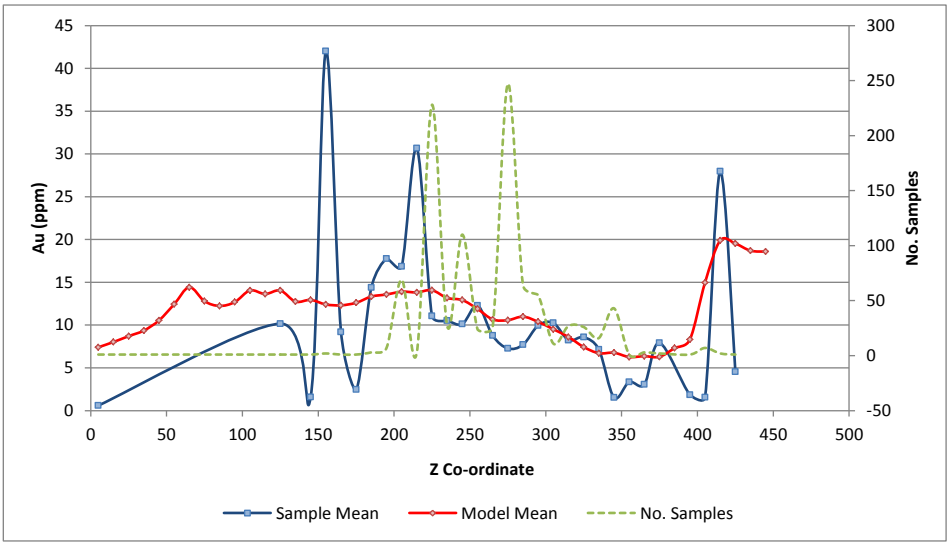




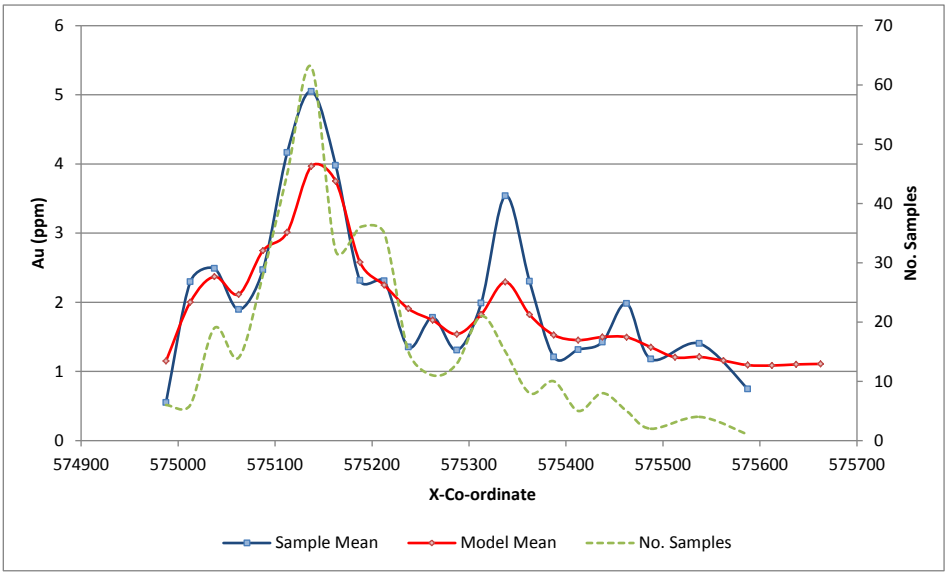
La India Deposit – La India HGC – KZONE 130

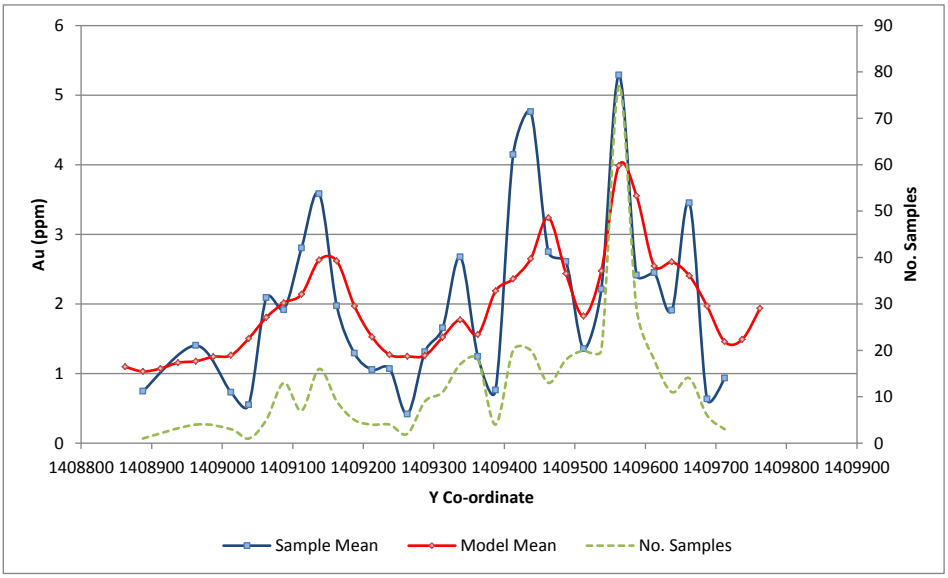


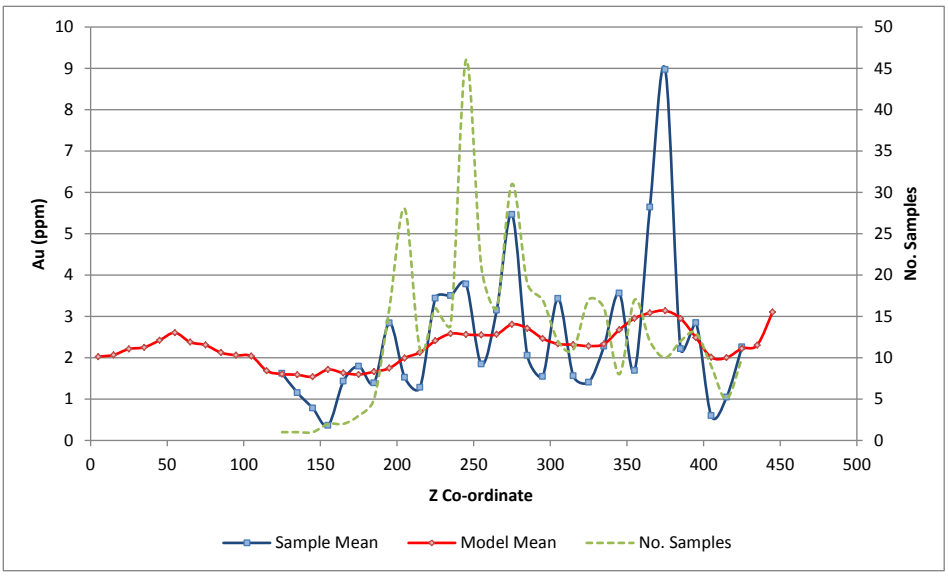




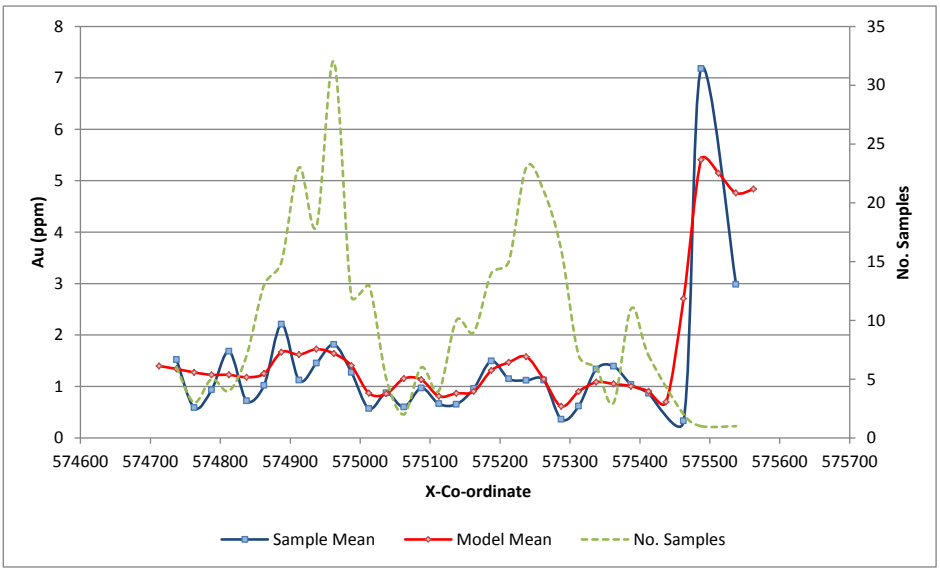
La India Deposit – La India Main WR – KZONE 230

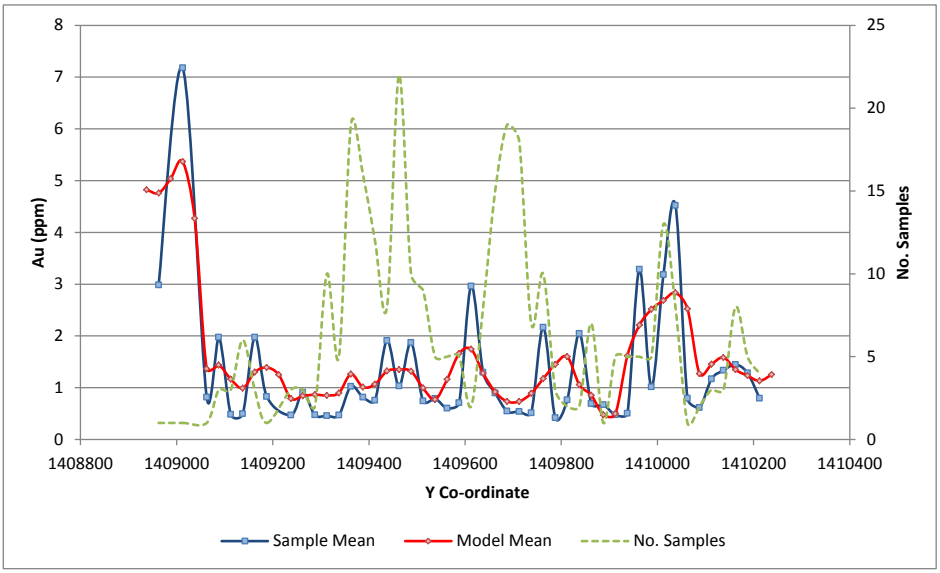


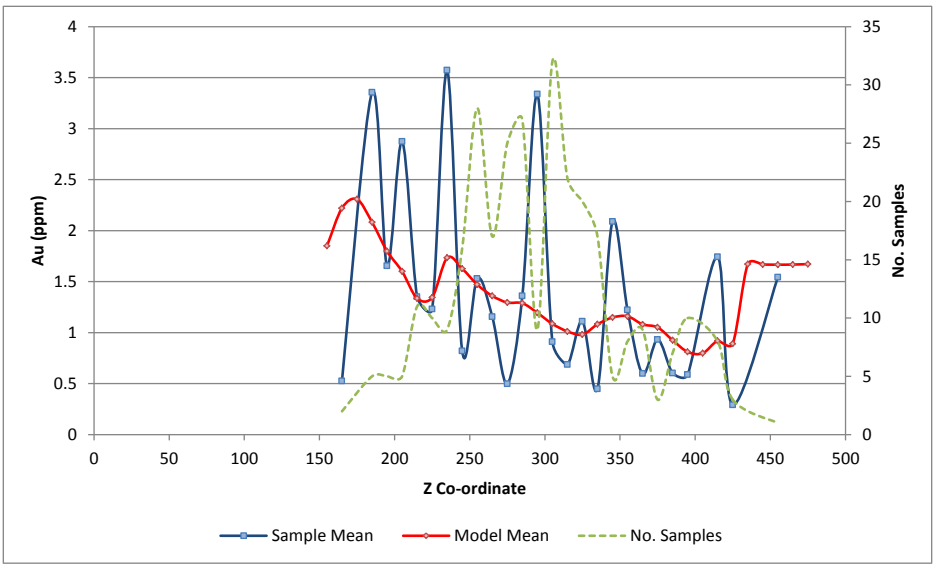




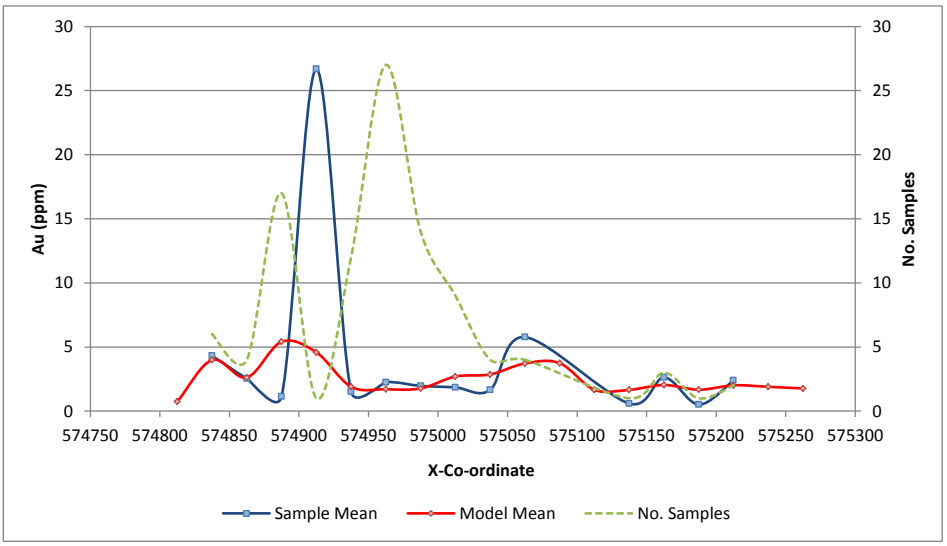
La India Deposit – La India Main WR – KZONE 301-329

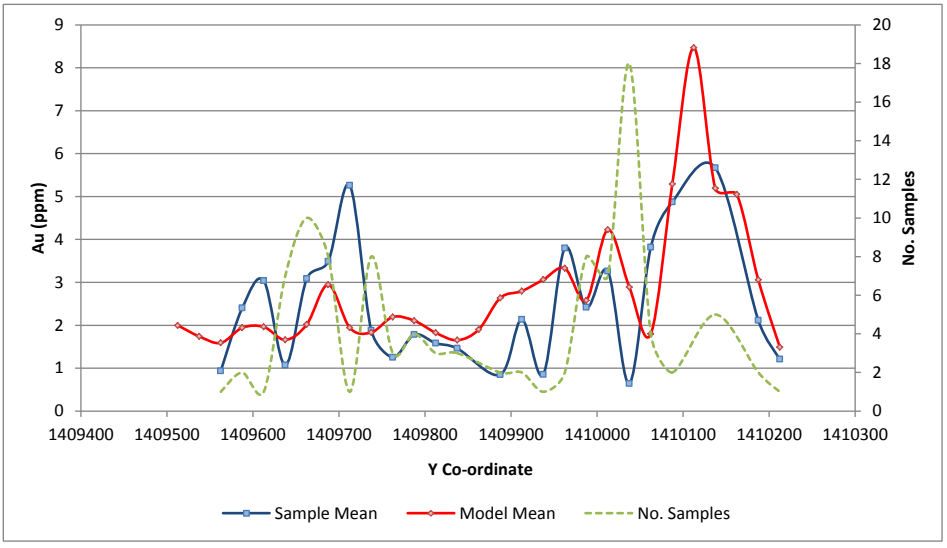


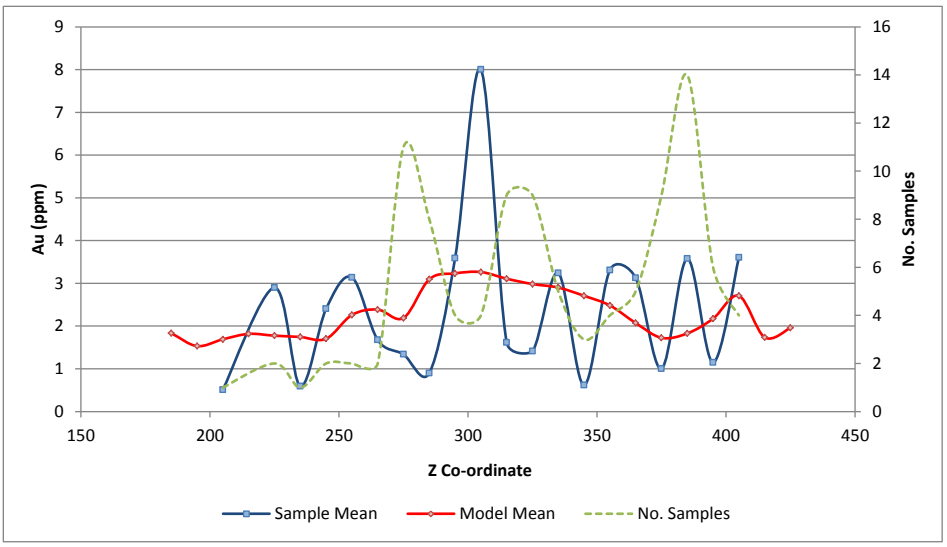




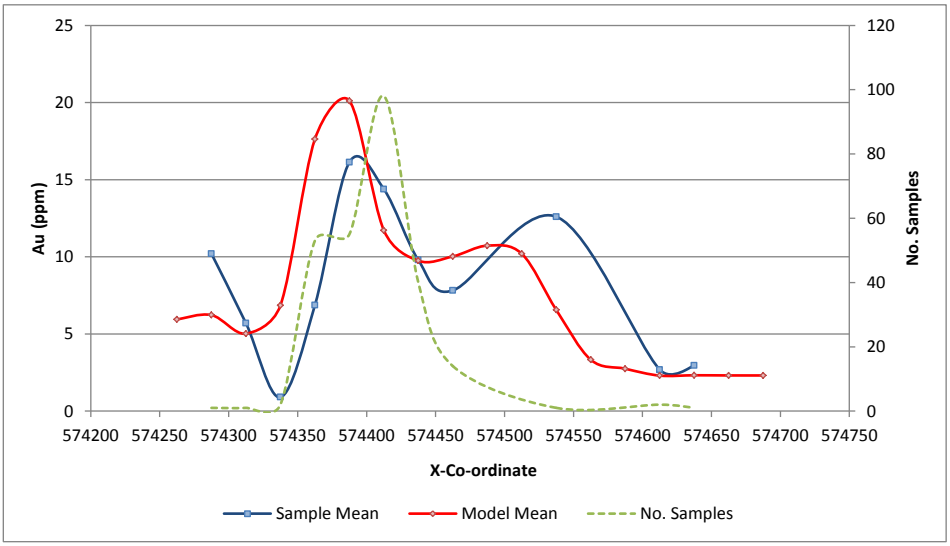
La India Deposit – La India Hanging Wall WR – KZONE 410-530

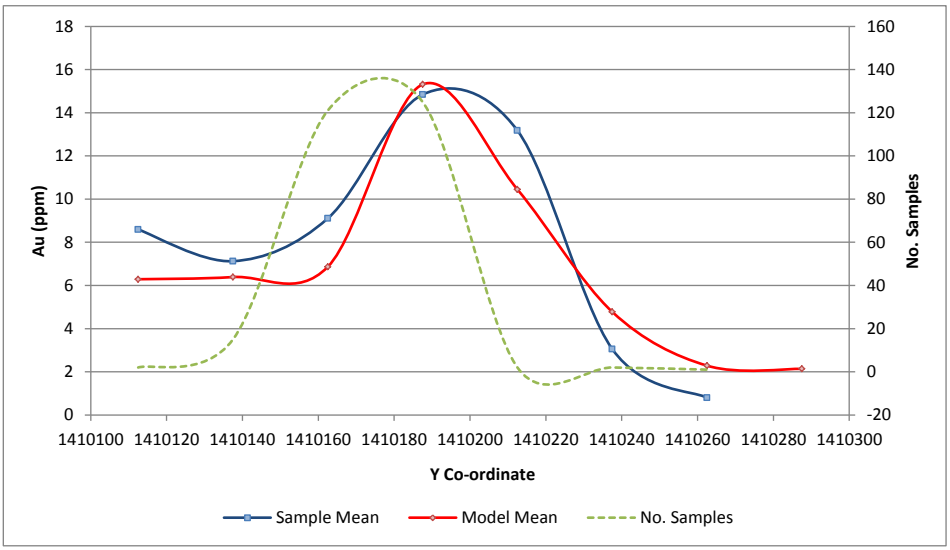


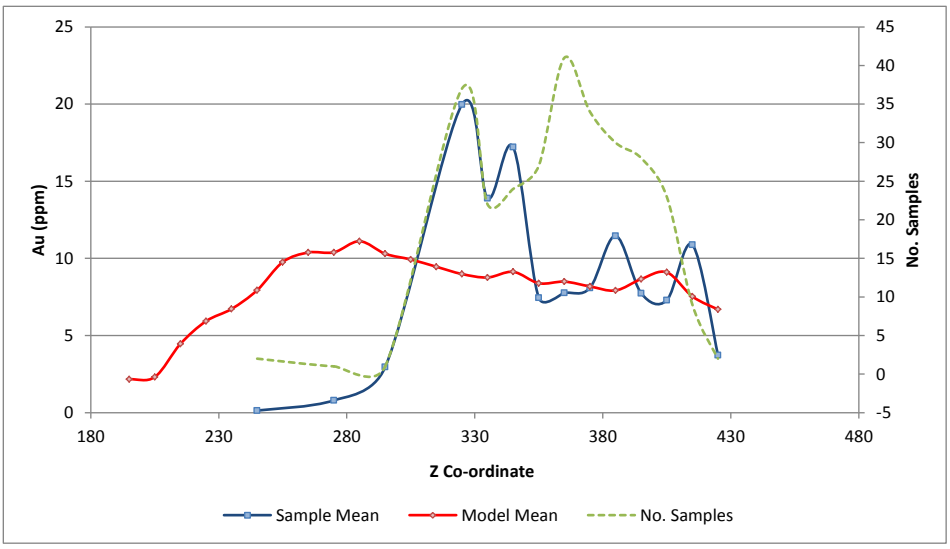




Teresa Deposit – GROUP 1000



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20
15
10
5
0
Au (ppm)
45
40
35
30
25
20
15
10
5
0
-5
No. Samples
180
230
280
330
380
430
480
Z Co-ordinate
Sample Mean
Model Mean
No. Samples

STATISTICAL BLOCK GRADE VALIDATION

Statistical Validation Block Model to Declustered Mean Gold Grade (Single Domain Deposits)

Vein	Count	Composite Mean	Declust. Mean	Block Mean	% Difference AU	Absolute Difference AU (g/t)
Agua Caliente	125	8.69	5.80	5.80	-0.10	0.01
Arizona	238	5.17	3.90	4.20	5.90	0.24
Buenos Aires	76	8.13	6.10	6.00	-1.40	0.08
Cacao	572	0.92	0.80	1.00	21.80	0.22
Central Breccia	169	1.67	1.65	1.77	6.20	0.10
Espinito	457	9.15	6.20	6.10	-1.30	0.08
Guapinol	377	7.01	5.50	5.30	-4.00	0.21
San Lucas	839	5.97	4.00	4.00	0.90	0.04
Tatiana	68	4.76	4.30	6.10	29.10	1.78
Teresa	281	11.03	8.49	8.78	3.36	0.29

Statistical Validation Block Model to Declustered Mean Gold Grade (America Deposit)*

KZONE	FIELD	ESTIMATION METHOD	Composite Mean AU (g/t)	Declustered Mean AU (g/t)	Block Estimate AU (g/t)	% Difference AU	Absolute Difference AU (g/t)
2010	AU	OK	1.68	1.47	1.40	-4.7%	0.07
	AUIDW	IDW	1.68	1.47	1.64	11.6%	0.17
2020	AU	OK	0.92	0.96	0.94	-2.0%	0.02
	AUIDW	IDW	0.92	0.96	0.93	-2.9%	0.03
2030	AU	OK	10.22	9.18	8.65	-5.8%	0.53
	AUIDW	IDW	10.22	9.18	10.72	16.8%	1.54
2040	AU	OK	1.79	1.79	1.75	-2.4%	0.04
	AUIDW	IDW	1.79	1.79	1.76	-1.4%	0.03
2050	AU	OK	1.47	1.43	1.43	-0.3%	0.00
	AUIDW	IDW	1.47	1.43	1.42	-0.4%	0.01
2060	AU	OK	2.81	3.05	3.00	-1.8%	0.05
	AUIDW	IDW	2.81	3.05	2.80	-8.2%	0.25
2510	AU	OK	2.81	4.04	4.94	22.2%	0.90
	AUIDW	IDW	2.81	4.04	5.04	24.8%	1.00
2520	AU	OK	10.92	8.77	9.02	2.9%	0.25
	AUIDW	IDW	10.92	8.77	9.83	12.1%	1.06
3010	AU	OK	2.60	2.24	2.48	-4.5%	0.24
	AUIDW	IDW	2.60	2.24	2.54	-2.1%	0.30
3020	AU	OK	0.59	0.59	0.59	0.1%	0.00
	AUIDW	IDW	0.59	0.59	0.59	0.1%	0.00
3030	AU	OK	0.95	1.01	0.96	-4.5%	0.05
	AUIDW	IDW	0.95	1.01	0.89	-11.4%	0.12
3500	AU	OK	8.19	5.68	5.65	-0.6%	0.03
	AUIDW	IDW	8.19	5.68	5.78	1.8%	0.10

*Note that the raw composite mean has (where appropriate) been used in place of the declustered mean for optimal statistical comparison with the block estimate.

*Elevated percentage discrepancy for KZONE 2510 as a limited high grade intercepts influence a relatively large proportion of the tonnage.

Statistical Validation Block Model to Declustered Mean Silver Grade (America Deposit)

KZONE	FIELD	ESTIMATION METHOD	Composite Mean AU (g/t)	Declustered Mean AU (g/t)	Block Estimate AU (g/t)	% Difference AU	Absolute Difference AU (g/t)
2000	AG	OK	6.19	5.87	5.71	-2.7%	0.16
	AGIDW	IDW	6.19	5.87	5.94	1.2%	0.07
3000	AG	OK	6.03	5.83	5.92	1.5%	0.09
	AGIDW	IDW	6.03	5.83	6.15	5.4%	0.32

Statistical Validation Block Model to Declustered Mean Silver Grade (La India Deposit)

GROUP	KZONE	FIELD	ESTIMATION METHOD	Composite Mean AU (g/t)	Declustered Mean AU (g/t)	Block Estimate AU (g/t)	% Difference AU	Absolute Difference AU (g/t)
1000	110	AG	OK	12.07	12.54	12.28	-2.1%	0.26
		AGIDW	IDW	12.07	12.54	12.11	-3.5%	0.43
	120	AG	OK	7.74	7.91	8.09	2.3%	0.18
		AGIDW	IDW	7.74	7.91	7.75	-2.0%	0.16
	130	AG	OK	15.34	16.13	18.71	16.0%	2.58
		AGIDW	IDW	15.34	16.13	18.72	16.1%	2.59
	140	AG	OK	12.73	14.00	17.05	21.8%	3.06
		AGIDW	IDW	12.73	14.00	16.30	16.5%	2.31
	210	AG	OK	4.17	4.23	4.04	-4.5%	0.19
		AGIDW	IDW	4.17	4.23	4.11	-2.8%	0.12
	220	AG	OK	3.63	3.15	2.77	-11.8%	0.37
		AGIDW	IDW	3.63	3.15	3.06	-2.9%	0.09
	230	AG	OK	4.59	4.00	4.09	2.2%	0.09
		AGIDW	IDW	4.59	4.00	4.09	2.1%	0.08
	240	AG	OK	3.15	3.38	3.44	2.0%	0.07
		AGIDW	IDW	3.15	3.38	3.59	6.3%	0.21
	250	AG	OK	6.25	6.20	6.34	2.2%	0.14
		AGIDW	IDW	6.25	6.20	6.42	3.5%	0.22
	260	AG	OK	7.67	7.15	7.19	0.6%	0.04
		AGIDW	IDW	7.67	7.15	6.93	-3.0%	0.22
	301 - 329	AG	OK	2.03	2.07	2.08	0.4%	0.01
		AGIDW	IDW	2.03	2.07	2.13	3.0%	0.06
2000	410 - 530	AG	OK	5.81	5.63	5.79	-0.4%	0.15
		AGIDW	IDW	5.81	5.63	5.78	-0.5%	0.14
3000	620	AG	OK	0.78	0.78	0.78	0.0%	0.00
		AGIDW	IDW	0.78	0.78	0.78	0.0%	0.00
	630	AG	OK	1.10	1.08	1.11	0.9%	0.01
		AGIDW	IDW	1.10	1.08	1.20	9.0%	0.10
	640	AG	OK	2.77	2.78	2.78	0.0%	0.00
		AGIDW	IDW	2.77	2.78	2.73	-1.7%	0.05

APPENDIX

B PROCESS DESIGN - LYCOPODIUM MINERALS CANADA LTD, LA INDIA GOLD PROJECT PRE-FEASIBILITY STUDY

CONDOR GOLD PLC

LA INDIA GOLD PROJECT
PRE-FEASIBILITY STUDY

Lycopodium

5032-REP-001

July 2014

File Location: 16.04
Rev: A

REV NO.	DATE	DESCRIPTION OF REVISION	BY	DESIGN APPROVED	PROJECT APPROVED
A		ISSUED FOR			

Lycopodium Minerals Canada Ltd, 5060 Spectrum Way, Suite 302, Mississauga, ON L4W 5N5 Canada

LA INDIA GOLD PROJECT

PRE-FEASIBILITY STUDY

5032-REP-001

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LA INDIA GOLD PROJECT

PRE-FEASIBILITY STUDY

5032-REP-001

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DISCLAIMER

This report has been prepared for Condor Gold PLC. (Condor) by Lycopodium Minerals Canada Ltd (Lycopodium) as an independent consultant and is based in part on information furnished by Condor and in part on information not within the control of either Condor or Lycopodium. While it is believed that the information, conclusions and recommendations will be reliable under the conditions and subject to the limitations set forward herein, Lycopodium does not guarantee their accuracy. The use of this report and the information contained herein shall be at the user's sole risk, regardless of any fault or negligence of Lycopodium.

1.0 EXECUTIVE SUMMARY

1.1 Introduction and Background

Condor Gold PLC ("Condor") plans to develop the La India Gold Project (“Project”), located in Nicaragua adjacent to the town of La India, approximately 130km north of Managua, into an operating mine and gold processing facility.

In May 2014 Condor retained Lycopodium Minerals Canada Ltd (Lycopodium) to undertake the process plant aspects of pre-feasibility study (PFS) to assess the viability of the Project and provide input into the NI 43-101 technical report being compiled by SRK Consulting Inc (Cardiff, UK).

Lycopodium’s scope of work included providing preliminary design, capital costs, and operating costs for a 805,000 tpa (tonnes per annum) gold process plant and associated infrastructure. The mine design, mine operating costs, mine capital costs, reserve estimation, tailings management, hydrology, geotechnical and closure planning inputs are by SRK.

This report was prepared to provide Condor with sufficient information to determine the technical and economic feasibility of developing the Project, and to decide whether to proceed with a bankable feasibility study.

All amounts expressed in this report are in US dollars unless otherwise indicated.

1.2 Process Plant

The plant is designed for the treatment of 805,000 tpa with 92% mill availability, with standby equipment in critical areas. The process plant design allows for fluctuations in mine production throughput. The ore is clean, of high hardness and extremely high abrasion, and with average life-of-mine (LOM) head grades of 3.0 g/t gold and 5.3 g/t silver. To accommodate for the variability in head grades, the plant is designed for head grades of 3.4 g/t gold and 5.8 g/t silver. The overall process flowsheet is based on a single stage SAG comminution and conventional Carbon in Leach (CIL) circuit.

The proposed process encompasses crushing the run-of-mine ore (ROM) with a primary jaw crusher, followed by a single stage SAG mill grinding in closed circuit with cyclones to achieve the target P_{80} target size of $75_{\mu m}$. The milled product will be thickened in a pre-leach thickener prior to being leached in the CIL circuit. A hybrid CIL circuit (1 leach tank, 6 adsorption tanks) will leach and adsorb gold from the milled ore onto activated carbon. An AARL (Anglo American Research Laboratories) elution circuit will recover gold from the loaded carbon, and electrowinning and smelting processes will produce doré bar at site.

Cyanide in the CIL tailings will be recovered via a cyanide recovery thickener, and detoxified using the SO2 / Air process prior to the tailings being disposed of in the sub-aerial tailings storage facility (TSF). Process water supply for the operations will be supplied by recycled water from the TSF, supplemented by mine dewatering. The process flow diagrams are included in Appendix 1, and process design criteria in Appendix 2, of this document.

1.3 Plant Infrastructure

The Project consists of an open pit mine, gold processing plant and refining facility, located adjacent to the town of La India, in the La India District, approximately 32 km southwest of the town of Sebaco. The project is accessible from the capital city, Managua, either by the paved Leon-Esteli Road (Highway 26) at a distance of approximately 210km or by the Panamerican Highway via Sebaco, approximately 130km.

The project is well-served with respect to infrastructure, as the majority of mineralised areas are accessible to within a few hundred meters of the paved highway via dirt tracks, and an existing grid power line runs adjacent to the plant site.

The plant power will be connected as a tee-off to the existing 138 kV, 3-phase line, which runs along the Leon-Esteli Road, and is approximately 100m from the process plant. Other lower cost options are being investigated as well.

The port of Corinto, on the Pacific Ocean, is approximately 121km west of the project site, where equipment, reagents, and consumables will be imported.

The process plant site buildings include the main administration building, laboratory, plant kitchen and meals area, change house and ablutions building, process plant security gatehouse and main security gatehouse.

A truck maintenance facility will service the mining fleet with two truck bays. The main workshop/ warehouse will house mechanical, electrical, instrumentation and general items.

Process plant tailings will be transported via a HDPE pipeline to the TSF, which is located approximately 700m east of the process plant. Reclaim water from the TSF will be returned to the process plant for reuse in the process via barge pumps.

A septic system will be utilized for sewage disposal.

Plant site general arrangement drawings are included in Appendix 3 of this document.

1.4 Capital and Operating Costs

Table 1.1 provides a summary of the capital cost estimate and only include the process plant and associated infrastructure within Lycopodium's scope. The costs are expressed in Q2 2014 USD. The estimates are considered to have an overall accuracy of +/-25% and are based on the Project being developed on an EPCM basis.

Major cost categories (permanent equipment, material purchase, installation, indirect costs) were identified and analyzed. To each of these categories a percentage contingency was allocated based on the accuracy of the data, and an overall contingency of 11.3% was subsequently derived.

Table 1.1 Capital Cost Summary (USD$, 2Q14, ±25%)

Scope	Main Area	Project Totals USD	Contingency USD	Total Project USD
Lyco Directs	100 Treatment Plant	31,649,965	3,901,534	35,551,499
	200 Reagents & Plant Services	3,003,706	260,549	3,264,165
	300 Infrastructure	2,359,383	274,062	2,633,446
Lyco Directs Total		**37,013,054**	**4,436,055**	**41,449,109**
Lyco Indirects	000 Construction Indirects	3,718,640	410,047	4,128,687
	500 Management EPCM Costs	7,328,000	732,800	8,060,800
Lyco Indirects Total		**11,046,640**	**1,142,847**	**12,189,487**
Grand Total		**48,059,694**	**5,578,903**	**53,638,597**

Exclusions are noted in Section 5.3.10.

A summary of the LOM operating costs is provided in Table 1.2. The operating costs have been calculated based on an annual throughput of 805,000 tpa of ore.

Table 1.2 Operating Cost Summary (US$, 2Q14, ±25%)

Cost Centre	USD$/Year	US$/t	US$/oz Gold Equivalent
Power	6,897,275	8.57	84.41
Labour	1,977,072	2.46	24.20
Consumables	6,730,133	8.36	82.36
Maintenance Materials	509,837	0.63	6.24
Laboratory	256,135	0.32	3.13
Total	**16,370,502**	**20.34**	**200.34**

Operating costs were estimated by major category (power, labour, consumables etc.) and have been compiled from metallurgical testwork, supplier quotations, data from Condor, Lycopodium data, and first principles estimates.

For imported goods, prices have been converted using the following exchange rates:

CAD 1.00 = USD 0.92

CORDOBA 25.00 = USD 1.00

Details of the capital cost and operating cost estimates are included in Appendix 6 and Appendix 7 of this document.

1.5 Conclusions and Recommendations

The investigation and analysis carried out are considered appropriate to pre-feasibility level design. Further investigations are recommended as the project advances to a bankable feasibility study level.

- Additional test work is required to provide better definition of the abrasion index throughout the deposit. The abrasion index reported for La India is very high and it contributes considerably to the operating cost in terms of comminution media. The use of composite wear liners and chrome media should be investigated as a method for reducing media costs.

- Due to the relatively high cost of grid power in Nicaragua, it is recommended to explore other sources of power supply, including from neighbouring countries, and possible use of generator sets with fuel oil options.

- Because of the high comminution energy requirements of the ore, the project is highly sensitive to power cost. In future study, detailed investigation into determining the actual power cost is required (i.e. supply proposal or contract in place).

- It is recommended for the next phase that the base case process plant throughput be increased from 805,000tpa to 1Mtpa for improved economics and quicker payback,assuming that sufficient working room can be made available to provide feed from the mine. Factored estimates (± 35%) were prepared by Lycopodium for the 1Mtpa case which show a reduction in the operating costs from $20.34 / tonne per to $19.00 / tonne, and only a 7.5% increase in capital costs with a 24% increase in throughput. The factored estimates are provided in Appendix 9, 1Mtpa Factored Capital and Operating Cost Estimates.

- A potable water treatment plant is recommended to enable the onsite production of water for safety showers and drinking.

- Test results subsequent to the preparation of this study have indicated that mercury is not of concern for the La India project and all equipment related to the handling of mercury can have the holds removed and be omitted from future design.

- Additional comminution and metallurgical test work is recommended for the America, Mestiza, and Central Breccia vein systems for inclusion in subsequent studies.

2.0 PROJECT BACKGROUND

In May 2014 Condor retained Lycopodium Minerals Canada Ltd (Lycopodium) to undertake the process plant aspects of pre-feasibility study (PFS) to assess the viability of the Project and provide input into the NI 43-101 technical report, compiled by SRK Consulting Inc (Cardiff, UK).

Lycopodium's scope incorporated:

- Preparation of a preliminary process plant and infrastructure design to support an 805,000 tpa facility.
- Development of a conceptual flowsheet and design criteria based on preliminary comminution testwork results and conventional copper concentrator design.
- Identification of equipment.
- Preparation of overall plant general arrangement drawing.
- Preparation of capital and operating cost estimates to an accuracy of +/-25%.
- Preparation of factored capital and operating cost estimates for a 1Mtpa facility.

SRK's scope included:

- Mine design, pit optimisation, open pit mining schedule
- Haul roads and bulk earthworks
- Tailings Storage Facility (TSF) design
- Surface water management.
- Ground water/bore fields.
- Hydrology and hydrogeology.
- Road re-alignment and HV powerline relocation.
- Closure planning.

Condors' scope included:

- Owners cost

- Pre-production costs
- Spares
- Light vehicles
- Maintenance plant and tools
- Office equipment and Furniture
- IT and other hardware and software
- Working Captial
- Duties and Taxes

3.0 PROCESS PLANT

3.1 Summary

The plant is designed for the treatment of 805,000 tpa with 92% mill availability, with standby equipment in critical areas. The process plant design allows for fluctuations in mine production throughput. The ore is clean, of high hardness and extremely high abrasion, and with average life-of-mine (LOM) head grades of 3.0 g/t gold and 5.3 g/t silver. To accommodate for the variability in head grades, the plant is designed for head grades of 3.4 g/t gold and 5.8 g/t silver. The overall process flowsheet is based on a single stage SAG comminution and conventional Carbon in Leach (CIL) circuit.

Ore will be direct dumped into a ROM bin, which will then be fed to a jaw crusher via the primary apron feeder. The crushed rock will be conveyed to a surge bin. The surge bin will discharge via an apron feeder to the SAG mill feed conveyor and overflow to a dead stockpile as required. A front end loader (FEL) will reclaim ore to the SAG mill feed conveyor.

Grinding will be accomplished by a single stage SAG mill in closed circuit with cyclones to achieve the target grind size. The milled product will be thickened in a pre-leach thickener prior to the CIL circuit. A hybrid carbon-in-leach (CIL) circuit (1 leach tank, 6 adsorption tanks) will leach and adsorb gold from the milled ore onto activated carbon.

An AARL elution circuit will recover gold from the loaded carbon, and electrowinning and smelting processes will produce doré bar at site. Cyanide in the CIL tailings will be detoxified using the SO_2 / Air process prior to the tailings being disposed of in the subaerial tailings storage facility. Process water supply for the operations will be supplied by recycled water from the TSF, supplemented by mine dewatering.

3.2 Process Design Criteria

The process design has been based on the following approaches:

- The feed rate and ore grades were provided by Condor.
- Key ore characteristics provided in the design criteria have been determined by testwork, or where absent, taken from similar ore types and Lycopodium experience. The quality and extent of testwork performed was more than sufficient for a PFS level study.
- Single stage primary crushing with a single toggle jaw crusher to produce a crushed product size of 80% passing (P_{80}) 80 - 100mm. The jaw crusher feed hopper will be equipped with a static grizzly and a rock breaker.
- A crushed ore surge bin with a nominal capacity of 1 hour (105 t) with a discharge feeder supplying the SAG mill feed conveyor. Surge bin overflow will be conveyed to a dead

stockpile. Ore from the dead stockpile will be reclaimed by front end loader (FEL) to feed the mill during periods when the primary crusher is off line.

- Closed circuit single stage SAG mill, with space allowed for a pebble crushing circuit if required in future, to produce a P_{80} grind size of $75_{\mu m}$. Space is allocated for a potential pebble crushing circuit to include feed and discharge bins to provide controlled crusher and SAG mill feed for steady operation.
- Pre-leach thickening to increase the slurry density feeding the hybrid carbon in leach (CIL) circuit to minimise CIL tankage and reduce overall reagent consumption.
- A CIL circuit incorporating one leach tank and six stages of adsorption tanks to allow for bypass of a stage while maintaining high recovery, low carbon inventory and maximum carbon loading.
- An AARL elution circuit with electrowinning and smelting to produce doré bars.
- Cyanide will be recovered via a cyanide recovery thickener by washing CIL tailings with tailings reclaim water.
- Cyanide destruction using the SO_2 / Air process.
- Tailings disposal in a sub-aerial valley infill TSF.

The key process design criteria listed in Table 3.1 form the basis of the detailed process design criteria and mechanical equipment list.

Table 3.1 Summary of Key Process Design Criteria

	Units	Primary	Source
Plant Capacity	tpa	805,000	Condor
Head Grade	g Au/t	3.40	Condor/SRK
Head Grade	g Ag/t	5.08	Condor/SRK
Design Gold Recovery	%	91	SRK
Crushing Plant Utilisation	%	75	Lycopodium
Plant Availability	%	92	Lycopodium
Bond Abrasion Index (Ai)		1.08	Testwork
Drop Weight (SMC) Axb		40	Testwork
Bond Ball Mill Work Index (BWi)	kWh/t	21.9	Testwork
SG		2.54	Testwork
Grind Size (P_{80})	µm	75	Testwork
Leach Circuit Residence Time	hrs	35	Testwork/Lycopodium
Leach Slurry Density	% w/w	48	Lycopodium

	Units	Primary	Source
Number of Leach Tanks		1	Lycopodium
Number of CIL Tanks		6	Lycopodium
Cyanide Consumption	kg/t	0.82	Testwork
Leach Lime Consumption	kg/t	0.93	Testwork
Elution Circuit Size*	t	5	Lycopodium
Cyanide Destruction Process		SO_2 /Air Process	Lycopodium

* Based on 6 strips per week

The key issues considered for process and equipment selection are outlined below:

ROM Pad and Crushing Circuit

Stockpiled ore on the ROM ore pad will be used to provide a buffer between the mine and the plant.

The primary jaw crushing circuit has been sized on the basis of operating at 75% utilisation at a feed rate in excess of the mill feed requirement. Maximum feed size has determined the crusher size such that the unit will not be capacity constrained. Excess crushed ore will be stockpiled and reclaimed on the ROM pad using a Front End Loader (FEL) during periods of crusher maintenance. The primary jaw crusher will be equipped with a feed hopper, static grizzly and rock breaker, and will be capable of receiving ore from a FEL or directly from a haul truck.

A ROM ore grizzly aperture of 600 mm has been selected based on the maximum lump size. The grizzly will be required to minimise oversize material entering the ROM ore bin and causing down-stream blockages. The grizzly will be inclined to be self-cleaning as far as possible. An apron feeder will draw material from the ROM hopper and feed the jaw crusher.

Grinding

After consideration of a number of alternate grinding circuit configurations, a single stage SAG mill in closed circuit with cyclones was selected to produce the target circuit P_{80} size of 75 µm. Space for a pebble crusher is also included to provide contingency against high ore hardness. This circuit provides the simplest operation and maintenance while also reducing capital cost. SAG mill grinding saves considerably on grinding media consumption given the very high abrasiveness of the ore. Because of the high ore hardness, the typical energy inefficiencies of SAG milling become relatively minor. The operating requirements for single stage SAG circuits are well understood as there are many similar successful installations.

In order to maintain a stable operation of the single stage SAG circuit, a variable speed control on the SAG mill is required with a mill speed range between 60 – 80% critical speed nominated. In addition to standard charge weight and power control algorithms, the mill will be provided with noise monitoring to alarm low mill charge levels.

The lime silo will be located above a slaker and storage tank. Lime slurry will be pumped to the SAG mill. Lime is required to increase the pH of the slurry in the leaching circuit to ≥ 10 pH to reduce the generation of hydrogen cyanide.

Pebble Crushing

Space for a pebble crushing circuit has been allowed for in the design to provide contingency against the high ore hardness. The pebble crusher will be installed in the second year of operation, if required. In the event that the SAG mill generates excessive fines, up to 15% of the feed mass can be extracted from the mill discharge as pebbles and processed through the pebble crusher. Due to design limitations inherent in the pebble crusher, the crusher will operate intermittently and as such, feed and discharge bins will be included to provide consistent feed to the both the pebble crusher and the SAG mill.

Classification

Hydrocyclones have been selected for the classification duty to minimise the number of cyclones in the cluster and to reduce the potential for spigot blockages occurring from coarse SAG mill discharge material.

The cyclones will be operated at feed densities that maximise classification efficiency while reducing circulating load and overall circuit power consumption.

Pre-Leach Thickening

A high rate pre-leach thickener will be included to allow for operational flexibility in the grinding circuit while providing an optimized CIL circuit feed density of 48%. The afforded process buffer of approximately three to four hours will be useful in providing consistent feed to the CIL circuit.

Leach and Adsorption Circuit

The leach characteristics of the ore necessitate a 35 hour leach and a hybrid CIL circuit is proposed. A leach circuit configuration comprising one leach tank and 6 leach / adsorption (CIL) tanks with sparged air has been adopted to accommodate the leach time requirement while affording continuous high recovery in the event that one tank is offline. The leach tank has been provided in the design to maximise carbon loading and ensure that acceptable target solution tails grades can be met while reducing carbon inventory.

Cyanide Recovery Thickener

A high rate thickener will be included for washing the CIL tailings and recovering cyanide. Tailings reclaim water will be returned to the plant, for use in the milling circuit, via the cyanide recovery thereby washing the tailings, recovering a portion of the cyanide, and reducing the quantity of cyanide reporting to the cyanide destruction circuit.

Elution

The average daily movement of carbon was calculated based on the design gold and silver feed grade and maximum CIL extraction. Allowing for a six day per week operation, a five tonne carbon capacity AARL elution circuit was selected. A five tonne dilute hydrochloric acid wash column will also be provided for carbon washing ahead of the elution circuit.

Three parallel 12 cathode electrowinning cells with individual rectifiers will provide electrowinning of gold and silver in less than 12 hours. The sludging-type cells will allow for in cell removal of sludge and they will have an off-gas handling system complete with wet scrubbing. The sludge will be filtered in pressure filter pots and dried in an oven prior to smelting to produce doré bar. Lyco expects that the doré will consist of approximately 43% gold and 57% silver.

Cyanide Destruction Circuit

An SO_2 / air cyanide destruction circuit will reduce weak acid dissociable cyanide (CN_{WAD}) in the tailings stream of the plant to less than 30 ppm CN_{WAD} such that it is compliant with the environmental requirements of the project. Based on the cyanide detoxification studies performed to date, the plant tailings are expected to comply with the project's environmental requirements. It should be noted that nitrate and ammonia were not measured during the testwork, but will be verified during future phases of work.

Tailings Disposal

Following cyanide destruction, CIL tails will be pumped to the TSF. The tailings will be distributed within the facility using multiple spigots. The tailings facility will be located in a valley and will receive some catchment water. Effluent from the tailings facility will be discharged directly to the environment. Decant water from the TSF will be pumped back to the process plant for conservation and reuse in the system.

3.3 Process and Plant Description

The process and plant description should be read in conjunction with the process flow diagrams (PFD's) (00-F-001 to 00-F-016) provided in Appendix 1 and plant general arrangement drawings provided in Appendix 3.

3.3.1 Run-of-Mine (ROM) Pad

Direct dump into the primary crusher will be used to the extent possible. A front end loader (FEL) will be used to reclaim excess ore from the various stockpiles to the ROM hopper feeding the primary crusher.

3.3.2 Crushing Circuit

ROM ore will be loaded into the ROM feed hopper by haul truck or FEL. A grizzly will be fitted to the ROM hopper to protect the downstream equipment from oversize material. A rock breaker will be provided to reduce oversize rock such that it will pass through the grizzly. ROM ore will be drawn from the hopper at a controlled rate by a variable speed apron feeder and discharge into a single toggle jaw crusher.

The crusher product will discharge onto a conveyor belt and be transported to the crushed ore surge bin. Allowance in the layout has been made for a future belt electromagnet which will be suspended above the conveyor which will remove magnetic tramp metal from the primary crushed ore.

Under normal operating conditions the crushing rate into the surge bin will exceed the rate of withdrawal of ore to the milling circuit. Crushed ore will overflow the surge bin and be directed on to a conveyor feeding a dead stockpile. When required, ore from the dead stockpile will be loaded by FEL onto the SAG mill feed conveyor to maintain mill feed when the crushing circuit is off line.

Grinding media will also be added by FEL into the crushed ore surge bin which will report to the SAG mill feed conveyor as required.

Crushed ore will be withdrawn from the surge bin at a controlled rate by a variable speed apron feeder and fed via the mill feed conveyor directly to the SAG mill. A weightometer will indicate the instantaneous and totalized mill feed tonnage.

The crushing circuit will be controlled locally. The FEL driver will ensure feed is maintained to the crushing circuit and will communicate with the operations supervisor using a two way radio to supply information on crusher feed operation.

The crushing circuit will be independently, sequentially interlocked for shutdown such that in the event of a single component failure, all components will be safely shut down automatically.

3.3.3 Grinding and Classification Circuit

The grinding circuit will consist of a SAG mill in closed circuit with hydrocyclones, with space allowed for the addition of a pebble crusher. Crushed ore will be fed directly to the SAG mill via the mill feed conveyor.

The SAG mill discharge trommel undersize will gravitate to the mill discharge hopper, and be diluted with process water, and pumped to the classifying hydrocyclone cluster.

The combined cyclone overflow stream, with a nominal pulp density of 38% w/w solids, will gravitate to pre-leach thickener where it will be thickened to 48% prior to being pumped to the CIL circuit. The cyclone underflow will be collected in the underflow launder and return to the feed chute of the SAG mill.

General maintenance lifts around the mill and cyclones will be done by the mobile site crane. The milling area layout will accommodate crane access for all heavy lifts. A liner handler will be provided for mill liner change-outs.

The mill floor slab will be sloped towards a drive-in collection sump. The mill hopper overflow and cyclone feed pump dump lines will be routed to discharge directly into the sump. The option to out load pebbles directly from the SAG mill to the drive in sump is also provided. This is necessary to facilitate start-up or to cater to stoppages. The solids in this sump will be cleared using a small front end loader or bobcat.

3.3.4 Pre-leach Thickening

Cyclone overflow will gravitate to the trash removal screen. The trash screen will remove any coarse ore particles, wood fragments, organic material, plastics and lime slurry grits that could otherwise blind the inter-tank screens. The screen oversize (trash) will be collected in a bunker or bin, and the undersize (slurry) will gravitate to the high rate pre-leach thickener where it will be combined with flocculant in the feed well. Flocculant fed to the thickener will be diluted with water in a static mixer to ensure good dispersion throughout the feed stream. Thickener underflow will be pumped to the CIL circuit, and thickener overflow will report to the process water tank.

3.3.5 Leach and Carbon Adsorption Circuit

The thickener underflow will be pumped to the leach distributor feed box passing through a two stage cross cut feed sampler along the way. The sampler will be used to take representative samples of the feed head grade for metallurgical accounting purposes. Lime slurry will be added to the SAG mill feed to ensure that the slurry pH is suitable for cyanidation, pH monitoring will take place in the first and last leach tanks.

The leaching and adsorption circuit will consist of one leach tank and six leach / adsorption tanks. The tanks will be interconnected with launders, and slurry will flow by gravity through the tank train. Each tank will be fitted with a dual impeller mechanical agitator to ensure uniform mixing and dispersion. Oxygen required for leaching will be provided by air sparging through the bottom of the agitator shaft into the slurry.

The adsorption tanks will each be fitted with an air swept woven wire intertank screen to retain the carbon. All tanks will be fitted with bypass facilities to allow any tank to be removed from service for agitator or screen maintenance.

Sodium cyanide solution will be metered into the leach feed distribution box, as required, to maintain the desired cyanide concentration in the circuit. Compressed air will be distributed to the CIL circuit and sparged down the shafts of the agitators to allow a high dissolved oxygen profile to be maintained in the circuit.

Fresh and regenerated carbon will be returned to the circuit at CIL Tank 6, and will be advanced countercurrent to the slurry flow by pumping (air lift) slurry and carbon from Tank 6 to Tank 5 to Tank 4, and so on. The intertank screen in each CIL tank will retain the carbon and allow the slurry to gravity flow to the next CIL tank. This counter-current process will be repeated until the carbon eventually reaches CIL Tank 1 at which point an air lift will be used to transfer loaded carbon to the loaded carbon recovery screen. The loaded carbon will be washed and dewatered on the recovery screen prior to reporting to the acid wash column. The recovery screen undersize will return to the CIL circuit.

Slurry from the last CIL tank (leach tails) will gravitate to the vibrating carbon safety via the tails sampler for metallurgical accounting. The safety screen will recover any carbon leaking through worn inter-tank screens or overflowing the tanks. Screen underflow will gravitate to the cyanide destruction circuit via the cyanide destruction distribution box.

Barren carbon returning to the adsorption circuit from the carbon regeneration kiln will be screened on the sizing screen to remove fine carbon and prevent associated gold losses. The sized and regenerated carbon will report to CIL Tank 6, or alternately to Tank 5.

The CIL tanks will be located in a bunded area with a sloping concrete floor. Any spillage from the circuit will report to one of two sumps and can be returned to the circuit or to the carbon safety screen ahead of the cyanide destruction circuit.

3.3.6 Elution and Goldroom Operations

The following operations will be carried out in the elution and goldroom areas:

- Acid washing of carbon.
- Stripping of gold from loaded carbon using the AARL method.

- Electrowinning of gold from pregnant solution.
- Smelting of electrowinning product.

The elution and goldroom areas will typically operate one carbon batch per day - six days per week, with acid wash and elution occurring during day shift. If required, seven day per week operation will be possible as will two batch per day operation. The AARL elution circuit will consist of a rubber lined carbon steel acid wash column and a stainless steel elution column.

Acid Wash

Loaded carbon will be recovered on the loaded carbon recovery screen and directed to the acid wash column. Transfer and fill operations of the acid wash column will be controlled manually. All other aspects of the acid wash and the pumping sequence will be automated.

Acid washing of the carbon will commence after carbon transfer and drain down is complete.

The acid wash solution, 3% w/w HCl in fresh water, will be mixed in the dilute acid tank and transferred to the acid wash column. The acid wash process removes contaminants, primarily calcium, from the loaded carbon and prevents carbon fouling which reduces the effectiveness of the carbon. After the prescribed acid soak period, the carbon will be rinsed with fresh water. Three bed volumes of fresh water will be pumped through the column to displace any residual acid from the carbon. Dilute acid and rinse water will be neutralized and disposed of with the tailings. Acid-washed carbon will be transferred to the elution column for stripping.

Pre-Soak and Elution

Strip solution will be pumped from the stripping water tank through inline heater exchangers into the base of the elution column. Sodium hydroxide and sodium cyanide solutions will be pumped from the respective storage tanks into the stripping water tank.

The loaded carbon will be pre-soaked in the cyanide / caustic solution for 30 minutes to prepare the gold for elution. The carbon will then be eluted by hot strip solution which will pass out of the circuit to the pregnant solution tank. Outgoing strip solution will pass through the recovery heat exchanger to heat the incoming strip solution.

Electrowinning

Direct current will be passed through stainless steel anodes and stainless steel wool mesh cathodes to deposit gold and silver sludge on the cathodes. Three electrowinning cells, arranged in parallel will contain 12 cathodes each to provide a high cell pass efficiency to ensure a minimum gold tenor in the barren eluate.

Solution discharging from the electrowinning cells will return by gravity to the pregnant solution tank. The system will be configured to allow multiple pass electrowinning. Electrowinning will continue until the solution exiting the electrowinning cells is depleted of gold.

Goldroom

The electrowinning cells will be located within the security area of the goldroom. Rectifiers, one per cell, will be located in a non-secure area below the cells allowing maintenance access without breaching gold room security. Rectifier remote indication and controls will be located adjacent to the electrowinning cells for safety.

The electrowon silver and gold will be removed from the cathodes in-situ by washing with high pressure water. The resulting sludge will be filtered in laboratory style pressure filters and dried in an oven. The sludge will then be direct smelted with fluxes in a HFO fired furnace to produce doré bars. Slag from smelting operations will be returned to the milling circuit.

Fume extraction equipment will be provided to remove gases from the cells, oven and smelting.

Carbon Regeneration

After completion of the elution process, the barren carbon will be transferred from the elution column to the carbon dewatering screen to dewater the carbon prior to entering the feed hopper of the horizontal carbon regeneration kiln. Any residual water will be drained from the carbon in the kiln feed hopper before it enters the kiln. By design, only 75% of the carbon will be regenerated each cycle. The feed hopper will be designed to overflow after it has received 75% of the carbon in the elution cycle. The hopper overflow chute will be designed such that it can be blocked off if 100% of the carbon is to be regenerated. The overflow carbon from the hopper will gravitate directly to the carbon sizing screen. In the kiln, the carbon will be heated to 650 - 750°C for 20 minutes to allow regeneration to occur. Regenerated carbon from the kiln will be quenched and report to the carbon sizing screen. The screen oversize (regenerated and sized carbon) will return to the CIL circuit while the carbon fines will report to the carbon safety screen.

3.3.7 Carbon Safety Screen

Tailings slurry from the final CIL tank will gravitate through the metallurgical sampler to the carbon safety screen. Recovered carbon will be collected in the fine carbon bin for potential return to the circuit. A two stage cross cut feed sampler will be used to take representative samples of the tails for metallurgical accounting purposes. The safety screen undersize, leached slurry will be forwarded to the cyanide destruction circuit.

3.3.8 Cyanide Destruction Circuit

The carbon safety screen undersize slurry will report to the SO_2 / air cyanide destruction circuit. The slurry will flow from the cyanide destruction distribution box to the first cyanide destruction tank. The cyanide destruction circuit will reduce the weak acid dissociable cyanide (CN_{WAD}) concentration in the CIL discharge from a level of approximately 150 ppm to 30 ppm. The cyanide destruction circuit consists of two agitated tanks each with 1 hour residence time. The circuit can operate in either series (normal operation) or parallel configuration.

The detoxification process utilises SO_2 and air in the presence of a soluble copper catalyst to oxidize cyanide to the less toxic compound cyanate (OCN^-). The SO_2 source will be Sodium Meta-Bisulfite (SMBS). Copper sulphate pentahydrate will be added to supply the necessary copper in solution. Air will be sparged into the cyanide destruction tanks through the agitator shaft. Slaked lime will be added to neutralize the sulphuric acid formed in the reaction and maintain a level of approximately 9 pH.

Eh and pH instrumentation will be used to control dosing of SMBS and slaked lime respectively.

3.3.9 Tailings Disposal

Tailings from the cyanide detoxification circuit and other miscellaneous waste streams from the process plant will combine in the tailings collection hopper. The tails stream will be pumped to the tailings storage facility for disposal.

3.3.10 Reagents

Lime

Quicklime will be delivered to the site in bulk by pneumatic tanker and stored in the lime silo. The quicklime will be slaked in a vendor supplied package accompanying the silo. The slaked lime will be pumped to the SAG mill and the cyanide destruction circuit in a ring main. A dust collector will minimise dust emissions during silo filling.

Cyanide

Sodium cyanide will be delivered as briquettes in shipping containers containing approximately one tonne of cyanide each. The containers will be emptied into the cyanide mixing tank and combined with water to dissolve the cyanide to a target strength of 20% NaCN. Sodium hydroxide will be added to the mixing tank prior to cyanide addition to prevent HCN generation. The mixed cyanide solution will be transferred to the storage tank for dosing to the process. Cyanide will be delivered to the leach circuit using a ring main and dosed to the CIL tanks as required using a control valve and flow meter. A dedicated positive displacement pump will provide cyanide to the elution circuit. Empty cyanide containers will be returned to the vendor.

Caustic

Caustic (Sodium Hydroxide) will be delivered to site in bulk bags of pellets. Caustic bulk bags will be lifted by forklift to a small platform at the mixing level. Bags will be emptied by a beak breaker into the mixing tank via a rotary vane feeder to prevent splash back from the tank. Caustic will be transferred to the storage tank for dosing to the process.

Hydrochloric Acid

Concentrated hydrochloric acid (32% w/w) will be delivered to site in 1000 L isotainers. The concentrated hydrochloric acid will be transferred from the isotainer to the dilute acid mixing and storage tank by a peristaltic pump. Fresh water will be added to dilute the acid to 3% prior to transfer to the acid wash column. This batch process will repeat for each carbon wash cycle.

Activated Carbon

Activated carbon will be delivered in 500 kg bulk bags. Carbon will be added to the carbon quench vessel as required for carbon make-up to the CIL inventory. This addition point will allow removal of carbon fines prior to entering the CIL tanks.

Grinding Media

Grinding balls will be delivered to site in bulk or 200 L steel drums. The balls will be charged to the SAG mill by FEL via the SAG mill feed conveyor using a front end loader.

Flocculant

Flocculant for use in the pre-leach and cyanide recovery thickeners will be delivered to site in 25 kg bags. Flocculant will be added to the flocculant plant storage hopper manually. The vendor supplied flocculant mixing plant will automatically mix batches of flocculant and transfer the mixed flocculant to the aging tank after each mixing cycle is complete. Flocculant will be distributed to the thickeners using positive displacement dosing pumps.

Copper Sulphate

Copper sulphate will be delivered in 1 tonne bulk bags and will be added to the mixing tank using an electric hoist and bag breaker. Fresh water will be added to the mixing tank to dilute the copper sulphate. The solution will be metered to the cyanide destruction and flotation circuits directly from the mixing tank.

Sodium Metabisulphite

Sodium metabisulphite will be delivered in 1 tonne bulk bags and will be added to the mixing tank using an electric hoist and bag breaker. An air exhaust fan will draw dust and fumes away from this area as SO_2 gas is evolved and the dust can cause skin irritation. Fresh water will be used to mix the sodium metabisulphite. The solution will be pumped from the mixing tank to the storage tank for metering to the cyanide destruction circuit by dosing pump.

Diesel

Diesel fuel will be delivered to the plant site by truck and transferred into a storage tank for distribution. Diesel will be reticulated to the elution heater, carbon regeneration kiln, smelting furnace and vehicle filling station.

Reagents Storage

Sufficient stocks of reagents will be maintained on site (1 week minimum) to ensure that supply shipping interruptions do not restrict production.

3.3.11 Services

Raw Water

Raw water for the project will be provided by a bored well (mine dewatering well) and pumped to the raw water tank. Raw water will be used for some reagent makeup, gland water, and to feed the stripping water treatment plant.

Fire Water

Fire water for the process plant will be drawn from the lower portion of the raw water tank. Suction nozzles for other raw water services fed from the raw water tank will be at an elevated level to ensure a fire water reserve always remains in the raw water tank.

The fire water pumping system will contain:

- an electric jockey pump to maintain fire ring main pressure
- an electric fire water delivery pump to supply fire water at the required pressure and flowrate and a diesel driven fire water pump, with integrated fuel tank, will automatically start in the event that power is not available for the electric fire water pump.

Fire hydrants and hose reels will be placed throughout the process plant, fuel storage and plant offices at intervals that ensure complete coverage.

Potable Water

Potable drinking water will be bottled service and trucked to site regularly. Raw water will be used for showers in the process plant area and a portion will be pumped to the mine service facilities.

Process Water

TSF decant water will provide the primary source of process water. Water from the mine dewatering will supply the process water tank make-up requirements. Raw water is also delivered to the process water tank for emergency situations.

The process water tank will receive overflow from the pre-leach and cyanide recovery thickeners. As such, the process water will contain cyanide and require appropriate containment. The process water tank will supply the grinding circuit, pre-leach and cyanide recovery thickeners, and select reagent and screen spray requirements.

Duty / standby raw water and process water pumps will be provided. Antiscalant will be added to condition the grinding water and reduce fouling of pipelines, spray nozzles and screen decks.

Plant, Instrument and Oxygen Plant Air Supply

Plant and instrument air for the process plant will be supplied by two equally sized high pressure screw compressors. The air will be dried before distribution with one air receiver supplying plant and instrument air. The primary crusher area will be supplied with an independent air compressor and small receiver.

3.4 Process Control Philosophy

3.4.1 General Overview

The La India processing plant will have a moderate level of automation and remote control facilities. Sufficient instrumentation will be provided to measure, control and record key process parameters, and minimise continuous operator intervention. Automated start-up and shutdown sequences and equipment interlocks will be included to increase operator safety and protect equipment.

The main control room, will house two PC based operator interface terminals (OIT). Both of the OITs will act as the control system supervisory control and data acquisition (SCADA) servers as well as configuration / operator stations. The control room will provide a central area from where the plant is operated and monitored and from which the regulatory control loops can be monitored and adjusted. All key process and maintenance parameters will be available for trending and alarming on the process control system (PCS).

The process control system that will be used for the plant will be a programmable logic controller (PLC) based SCADA system. The PCS will control the process interlocks and PID control loops for non-packaged vendor equipment. Control loop set-point changes for non-packaged equipment will be made at the OIT.

In general, the non-packaged process drives will report their ready, run and start pushbutton status to the PCS and will be displayed on the OIT. Local control stations will be located in the field in proximity to the relevant drives. These will, as a minimum, contain start and Lock-Off-Stop (LOS) pushbuttons which will be hard-wired to the drive starter. Drives related to tanks will generally be started remotely in the correct sequence after inspecting the equipment in the field.

The OITs will allow drives to be selected to Local or Remote or Maintenance modes via the drive control popup. Maintenance mode will only be selected by supervisors with appropriate security access (i.e. the control room operator should not be able to select Maintenance mode). Statutory interlocks such as emergency stops and thermal protection will be hardwired and will apply in all three modes of operation. All PLC generated process interlocks will apply in Local and Remote modes. Process interlocks will be disabled or bypassed in Maintenance mode with the exception of critical interlocks such as lubrication systems on the mill.

Local selection will allow each drive to be operated by the operator in the field via the local start pushbutton which is connected to a PLC input. Remote selection will allow the equipment to be started from the control room via the drive control popup. A PLC output will be wired to each drive starter circuit related to tanks for starting and stopping drives. Status indication of process interlocks as well as the selected mode of operation will be displayed on the OIT.

Vendor supplied packages will use vendor standard control systems throughout the project. Vendor packages will generally have limited interfaces with the PCS such that control and set-point changes may have to be adjusted locally. General equipment fault alarms from each vendor package will be monitored by the PCS system and displayed on the OIT. Fault diagnostics and troubleshooting of vendor packages will be performed locally.

Vendor control panels will be utilised for the following packages:

- Jaw crusher
- SAG mill
- Lime slaker
- Pre-leach thickener
- Cyanide recovery thickener
- Flocculant mixing system

- Elution heater
- Regeneration kiln
- Smelting furnace
- Air blower package
- Potable water treatment system and Compressed air systems

3.4.2 Drive Controls

Each drive will be supplied from a Motor Control Centre (MCC) switchboard. All drive control circuits will be hardwired.

In the field, each drive will be provided with a stop / start push-button control station. The stop button will be of the LOS (Lock Off Switch) type.

Variable Speed Control units will be Variable Voltage Variable Frequency (VVVF) utilising Pulse Width Modulated (PWM) technology. These drives will be mounted in free standing cubicles. Each drive will be provided with an integral control panel for programming and operation at the VVVF unit for commissioning and emergency running.

3.5 Metallurgical Accounting

A weightometer on primary crusher discharge conveyor will measure the primary crushed ore tonnage.

A weightometer on the SAG mill feed conveyor will determine mill feed tonnes.

Density and flow meters on the leach feed will allow the dry tonnage of solids to be determined as a cross check on the mill feed tonnage determined from the mill feed weightometer. In conjunction with the leach feed and tails samplers, the mass flow measurements will allow the gold recovered in the CIL to be calculated.

Routine sampling of the leach feed stream and the final leach tailings will ensure reliable composite shift samples for leach head grade and tails solution and residue grades.

Regular gold ‘in circuit' surveys will allow reconciliation of precious metals in feed compared to doré production.

Reconciliation of the amount of reagents used over relatively long periods will be achieved by delivery receipts and stock takes. On an instantaneous basis, reagent usage rates of cyanide, elution and detoxification reagents to unit operations will be measured (L/min) and accumulated (m2) using flow meters.

4.0 PLANT INFRASTRUCTURE

4.1 Overview

The La India Gold project consists of an open pit mine, gold processing plant and refining facility, located adjacent to the town of La India, in the La India District, approximately 32 km southwest of the town of Sebaco. The project is accessible from the capital city, Managua, approximately 130km to the south, via the Panamerican Highway. Figure 4.1 shows the project location.

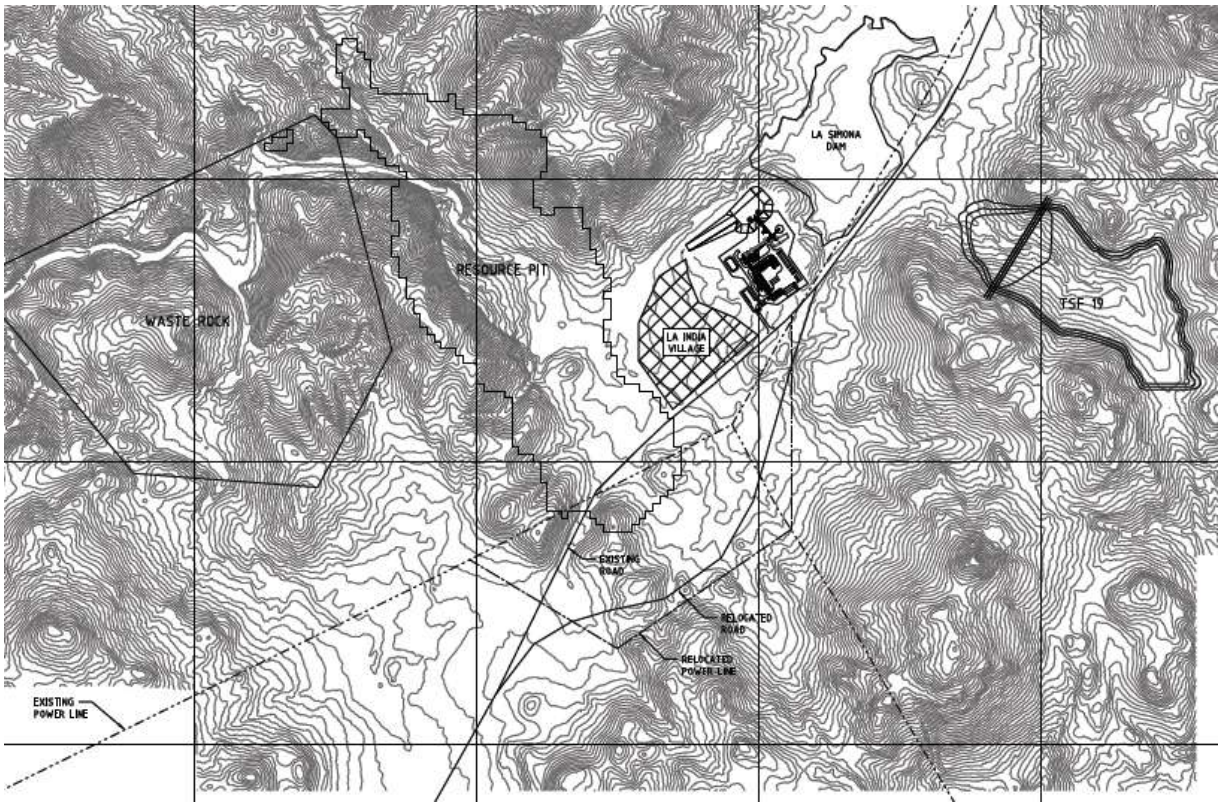
Figure 4.1 Project Location

The process plant will be located east of the open pit, adjacent to the paved Leon-Esteli Road, Highway 26. The Port of Corinto, on the Pacific Ocean, is approximately 121km west of the project site, accessible by Highway 26. The process plant is within 100m from the paved highway. The site plan and corresponding process plant area general arrangement drawings are included in Appendix 3.

The process plant has been located and laid out in a manner to minimise the overall foot print, to facilitate the flow of process streams and provide ease of operator and maintenance access.

The process plant site will be located approximately 600m east of the mining resource pit, northeast of the village of La India, and northwest of Highway 26. The process plant fence line is approximately 100m northeast of the village of La India and 100m southwest of La Simona Dam. The tailings storage facility will be located approximately 700m east of the process plant. Highway 26 cuts between the process plant and tailings storage facility. Approximately 2km of this highway will need to be diverted in year 5 of operations due to encroachment of the open pit. The process plant and ancillary buildings will have a clearance of greater than 500 metres from the edge of the open pit for safety from explosive blasts. The crushing facility will have a clearance of approximately 450m from the La India village. See Figure 4.2 for process plant location.

Figure 4.2 Process Plant Location



The maximum power demand for the process plant will be 6.6MW, and the average running load will be 5.2MW, supplied from a 138 kV, 3-phase power supply which runs along the Highway 26.

Site roads and a parking area will be allowed for in the design. Roads to the tailings area and a mining haul road will also be allowed for to bring ore from the pits to the primary crusher stockpile.

The process plant area will include a mine dry (shower and change facilities), lunch room, and maintenance shop.

The average raw water requirement for the new process plant will be 30 m^3/h and the water will be provided from bore fields. This is also based on recycling waste streams generated at the concentrate treatment plant.

Security fencing and signage will be allowed for around the outer property boundary, to prevent incursion by wildlife and unwanted or unintended visitors to the site. In addition security fencing and gate access around the process plant area buildings will also be provided.

4.2 Site Roads

The process plant onsite roads will be constructed of crushed waste rock and naturally available materials. The roads have been designed to connect the various process plant facility areas for operation and maintenance. Where possible, roads follow natural ground contours but profiling with cuts and fill are necessary in most locations to provide uniform grades.

4.3 Power Supply

4.3.1 Power Supply – Incoming

The plant will be supplied from a 138 kV, 3-phase power supply which runs along the highway through a disconnect switch in series with one 1200 A, SF6 circuit breaker shown in 138/4.16 kV single line diagram in Appendix 5.

4.3.2 Plant Distribution Services Transformers and Switchgear

- Voltage level: 138 kV and 4.16 kV (metered at 4.16 kV)
- Quantity / Capacity of transformer: 1 x 8/10 MVA 138 kV/4.16 kV main transformer (ONAN / ONAF) with delta configured primary and wye configured secondary which is grounded via a resistor
- The 4.16 kV facilities including switchgear and two 600 kVAR shunt capacitor banks together with station services, protection and control
- Load Requirements:

Maximum demand	6.6 MW
Average Load	4.9 MW
Power factor	0.95 or better with power factor correction
Period of production	24 hours per day, continuous

Largest size motors	SAG MILL - 1 x 3.9 MW @ 4.16kV
Largest motor starting current	1 x 750 Amp @ 4.16 kV (approx) for 30 seconds
Largest motor running current	1 x 633 Amp @ 4.16 kV
Largest motor methods of starting	Adjustable Speed Drive
4.16 kV system neutral grounding	Resistance grounded
480 V Neutral Grounding	Solidly grounded

The process plant is expected to run continuously for 24 hours per day. The load list summary is detailed in Table 4.1.

Table 4.1 Load List Summary

Plant Areas	Avg. Demand Power
Area 120 Feed Preparation	159 kW
Area 130 Milling Switchroom A/C Loads	41 kW
Area 130 SAG MILL	3,507 kW
Area 140/160/170/180 Screening / CIL & Tailing, Reagent etc,	732 kW
Area 230 Water System and Area 250 Air System	344 kW
Area 100 Miscellaneous Facilities and Buildings	99 kW
PLANT TOTAL DEMAND	**4,882 kW**

- Allowable Voltage Variation:

  Voltage variation will not exceed ±10% on steady state and ±15% during large drive start-up. Voltage drops in excess of this could affect the operation of the process plant.

- Allowable Frequency Variation: 60 Hz +2.5, -0.5

4.3.3 Emergency Power Supply

Two diesel generating units will be provided to supply emergency power (Administration Building 150kW, Concentrator 500kW). The purpose of the diesel generators is to provide power for the following consumers:

- Administration building power
- Guard house

- 30% of area lighting
- Control room power
- SAG Mill Auxiliaries
- Thickener rake system
- Thickener underflow pumps
- Security systems
- Fire-detection system and dry-pipe fire-fighting system (main fire loop has diesel pump

4.3.4 Mill Starting Load

The process plant will include one SAG mill.

The SAG Mill will be driven by 1 x 3,900 kW induction motor with an adjustable speed drive for soft starting. The maximum starting current would be about 1 - 1.3 times full load current (FLC).

The incoming power supply shall have the capacity to meet this step-load while the rest of the plant is in operation without exceeding the voltage and frequency limitations.

4.3.5 Method of Supply

The local Power Authority is to confirm that their existing 138 kV power line and the nearest substation is capable of supplying the Project power requirement as explained above.

The scope of work would involve the following:

- Installation of overhead line take off structure at the proposed T-off point to the plant.
- Construction of 100 m of 138 kV line from the T-off point to the plant.
- Construction of 138 / 4.16 kV, 1 x 8/10 MVA transformer / substation at the mine site.

Discussions with the Power Authority may result in alternatives that better meet the requirements of both the Power Authority and Condor.

4.4 Communication Systems

An integrated voice and data network infrastructure will be provided in the process plant. Telephone and voice mail system will provide voice functionality via this network. This system will be linked to the

main telephone switchboard for connection to outside lines. Radio sets will be provided for operations personnel.

4.5 Ventilating, and Air Conditioning (HVAC) Systems

The ancillary buildings will require varying degrees of air conditioning and ventilation. The process plant facility will be entirely outdoors, and only the main control room and electrical switch rooms will be air conditioned. The goldroom will be ventilated only. The administration building, laboratory building, meals area, change house and gatehouses will be air conditioned. Ancillary buildings will require varying degrees of ventilation and air conditioning. Exhaust fans will be used to provide ventilation of the washroom areas. .

4.6 Building Fire Protection Systems

Systems to be provided for personnel and property protection include: smoke/heat detectors and manual pull stations, fire extinguishers, fire hydrant coverage of all process plant area buildings, and internal fire hose coverage for all enclosed building areas.

Fire hose cabinets and external fire hydrants will be located so that all interior areas of the buildings are within reach of a fire hose stream.

A firewater header system will be provided at the site and will cover the accommodation complex, process plant and ancillary buildings, along with fire hose coverage throughout the facility, supplemented by hand held fire extinguishers. A separate stand pipe system will be installed to provide fire hose coverage throughout the reagent area, with hand held fire extinguishers. Fire hose coverage for the crusher will be provided by site fire hydrants supplemented by hand held fire extinguisher.

For electrical rooms ionization type smoke detectors will be provided, with hand held fire extinguishers.

A wet sprinkler system will be provided for the control room, as well as hand held fire extinguishers.

4.7 Sewage Treatment

A septic system will be utilized for sewage disposal. Septic tanks will be located at the process plant, and near the open pit for mining operations. The septic tank sludge will be removed by vacuum truck at regular intervals.

4.8 Security System and CCTV Monitoring

Process plant area access will be controlled and monitored 24 hours per day. The goldroom located in the process plant will not be continuously manned by security personnel but motion, vibration and/or temperature sensors will be provided to detect unauthorized intrusion. High security cameras will be located in the goldroom, and at the process plant gate house.

In addition to the high security system, an independent CCTV system will monitor the crusher and ore feeders, with the monitors located in the main control room. A video recorder will capture all relevant entry / exit details in high security areas and log all security alarms in chronological order. Security signals will be transmitted via secure dedicated cables with the system backed up by dedicated UPS (Uninterruptible Power Supply).

4.9 Plant Site and Administration Buildings

A single-storey administration building, 39m x 19m, will be located near the main site entrance gate. The building will have a reception area, offices, meeting rooms, a main conference room, medical clinic, kitchenette and washrooms. The offices are for managers, engineers, geologists, and clerks. A parking lot and transport and pick-up area is located adjacent to the administration building.

A combined laboratory and plant office building, 46m x 12m, will be used to test metallurgical accounting samples from the process plant, mining and exploration operations.

A plant kitchen and dining hall, 17.4m x 6.4m, will include a seating area for up to 80 people with overhead fans, kitchen, and food storage.

The plant change house and ablutions building will be 17.4m x 6.4m. It will include separate male and female showers, bathrooms, and change room with lockers.

A main security gatehouse as well as a separate process plant security gatehouse will be included.

4.10 Truckshop and Warehouse Facilities

A truck maintenance facility will service the mining fleet with two truck bays. The steel framed building will be 20m x 14m, with a tire yard located beside the truckshop.

The main workshop warehouse, 38.5m x 28.25m, will house mechanical, electrical, instrumentation and general items. The warehouse structure will be contiguous to the plant maintenance workshop. Internal offices will be supplied adjacent to the warehouse for warehouse and maintenance staff.

4.11 Pipelines

Process plant tailings will be transported via pipeline to the TSF, and distributed at the TSF via piping and discharge spigots.

Reclaim water from the TSF will be returned to the process plant for reuse in the process via barge pumps.

The tailings slurry and TSF water return pipelines will be 150mm diameter, constructed from HDPE (high density polyethylene) material, be approximately 700m (tailings) and 900m (water return) in length initially, run along the ground adjacent to each other in a 0.3m deep trench, except for the

portion that runs underneath the existing Highway 26. The tailings underflow pumps will be on emergency power in case of power failure to prevent sanding of the tailings line.

5.0 CAPITAL COST ESTIMATE

5.1 Introduction

The purpose of the capital cost estimate is to provide substantiated costs which can be utilised to assess the economics of the Project and to provide a control budget for the project during execution.

This cost estimate only includes the treatment plant and selected infrastructure as outlined in Table 5.2. Please refer to section 5.3.10 for a detailed list of exclusions and qualifications.

The Work Breakdown Structure (WBS) is based on the standard Lycopodium Minerals WBS for gold projects.

The estimate is based on executing the project on an EPCM basis as described in Section 7.0.

Major equipment pricing was based on competitive bids received from well established vendors. For minor equipment, quotations and actual equipment costs from other recent similar Lycopodium projects were utilized and are considered representative for the La India Project.

Unit rates for earthworks, concrete, steelwork, plate work, field erected tankage, buildings and labour were based on quotations from local Nicaraguan contractors.

No engineering work was completed except for preliminary process engineering, plant layout, conceptual mechanical engineering design, and conceptual electrical engineering design. The database quantities used for compiling the estimate were based on similar projects.

Lycopodium's capital costs include the process plant facility and corresponding buildings and roads. Capital costs for the mine, tailings storage facility, surface water management system, highway and powerline relocation will be estimated by SRK. Owner's costs will be estimated by Condor Gold PLC.

The capital costs are presented in US dollars as at the second quarter 2014 (2Q14) to an accuracy of +/-25%.

5.2 Capital Cost Estimate Summary

The pre-feasibility study capital estimates are based on a single stage crushing, SAG Mill circuit with a 2,300tpd throughput.

Table 5.1 summarises the capital cost estimate. The treatment plant and infrastructure described in Sections 5.3 serve as the basis for the capital cost estimate.

Additional estimate detail is provided in tables in Section 5.6.

Table 5.1 Capital Cost Estimate Summary (US$, 2Q14, +/-25%)

Scope	Main Area	Project Totals USD	Contingency USD	Total Project USD
Lyco Directs	100 Treatment Plant	31,649,965	3,901,534	35,551,499
	200 Reagents & Plant Services	3,003,706	260,549	3,264,165
	300 Infrastructure	2,359,383	274,062	2,633,446
Lyco Directs Total		**37,013,054**	**4,436,055**	**41,449,109**
Lyco Indirects	000 Construction Indirects	3,718,640	410,047	4,128,687
	500 Management EPCM Costs	7,328,000	732,800	8,060,800
Lyco Indirects Total		**11,046,640**	**1,142,847**	**12,189,487**
Grand Total		**48,059,694**	**5,578,903**	**53,638,597**

5.3 Estimate Basis

The capital cost estimates for each option are based on the following:

Currency : USD

Period : 2Q14

Accuracy : +/-25%

Implementation Strategy : EPCM engineer and horizontal packaging

The capital cost estimate has been prepared in accordance with the approach outlined in Table 5.2 below.

Table 5.2 Capital Cost Estimate Basis

Description	Basis
Project Definition Information	
Site	
Geographical Location	Actual site
Maps and Surveys	Available
Geotechnical testwork	Available
Process Definition	
Process Selection	Fixed for study
Design Criteria	Fixed for study
Flowsheets / Plant Capacity	Fixed for study
P&ID's	Not produced
Metallurgical Testing	Metallurgical Testwork Report by SRK
Mass Balances	Fixed for study

Description	Basis
Equipment List	Prepared for study (equipment selection - see below)
Process Facilities Design	
Equipment Selection	Budget quotation issued to vendors based on preliminary specifications and data sheets.
General Arrangement Drawings	Preliminary for study
Piping Drawings	Treatment plant - not produced Overland piping - sketches
Electrical Drawings	Preliminary Single Line Diagrams prepared for study
Specifications/Data Sheets	Preliminary specs and data sheets for major equipment.
Infrastructure Definition	
Existing Services	Known
Design Basis	Preliminary
Layout	Preliminary
Capital Cost Estimating Methodology	
Earthworks	Quantities taken off by type of work and applied to current contractor rates for project site. Bulk earthworks for treatment plant were not modelled in CivilCAD. Estimated from plant site location and topographical data
Concrete	Material takeoffs from sketches / drawings and referencing against previous similar projects of comparable scale. Rates applied from current budget quotation requests issued to local contractors.
Structural Steel	Material takeoffs from sketches / drawings and referencing against previous similar projects of comparable scale. Rates applied from current budget quotation requests issued to local contractors
Platework	Material takeoffs from sketches / drawings and referencing against previous similar projects of comparable scale. Rates applied from current budget quotation requests issued to local contractors
Tankage Field Erect	Material takeoffs equipment list sizing and drawings from previous work. Rates applied from current budget quotation requests issued to local contractors
Mechanical Equipment	Budget quotations from reputable suppliers for major equipment. Selected items taken from database for current projects of comparable scale
Haul Roads	Not included, by SRK
Mining Fleet	Not included, by SRK
Conveyors	Structural estimated separately. Mechanicals worked up as per mechanical equip and installation hours. Pricing as per mechanical equipment and structural steelwork
Piping General	Factored off mechanical and plate work costs and benchmarked against projects of comparable scale
Overland Piping	Sketches developed from engineering calculations, take offs and referencing against previous similar projects
Electrical General	Budget quotations from reputable suppliers for major electrical equipment, instrumentation and control package. E&I supply and installation costs have been factored
Electrical HV	Budget prices from reputable suppliers based on preliminary specifications

Description	Basis
Commodity Rates - General	Schedule of rates solicited from local contractors based on first pass bulk quantities and then assessed commercially prior to selection of the rates used in the estimate
Installation Rates - General	Schedule of rates solicited from appropriate contractors based on site location and detailed list of inclusions. Installation rates include: ▪ Works of a temporary nature ▪ Supervision above trade level ▪ Set-out and survey ▪ Site storage, offices, amenities, services. ▪ Consumables and tools ▪ Plant (including yard cranes) ▪ Scaffolding, hoarding and gantries, handrail etc. ▪ Dewatering, dust suppression, weather and noise suppression
	▪ Material handling ▪ Security and safety ▪ Accommodation costs ▪ Signs ▪ Testing ▪ Printing, stationery and general overheads ▪ Insurance ▪ Permits, fees and like ▪ Commercial costs such as provision of bonds and securities, contract finance etc. ▪ Contractor's profit
Freight General	Factored estimate based on percentage of supply cost
Contractor Mobilisation / Demobilisation	Estimate of mobilisation costs made by contractors commensurate with scope of work and project location
Site Establishment	Requirements estimated.
Construction Facilities	Requirements estimated
Fencing	Requirements estimated
EPCM Costs	Factored
Consultants (mining, geotechnical)	Not included, by SRK
Site Survey / Soils Testing	Not included, by SRK
Surveying QA	Not included, by SRK
Owner's Costs	Excluded
Vendor Representatives	Labour costs estimated at market rates for specific duration and expenses also allowed
First fill reagents and consumables	Excluded
Working Capital	Excluded.
Spares	Excluded
Owner's Project Team	Excluded
Project Insurances and Permits	Excluded
Sterilisation Drilling	Excluded
Community Relations	Excluded
Plant preproduction expenses (recruiting, relocation etc.)	Excluded

Description	Basis
Land Compensation	Excluded
Resettlement	Excluded
Training	Excluded
Owners Expenses	Excluded
Duties and Taxes	Excluded
Escalation	Excluded

The narrative below provides additional detail to that provided in Table 5.2.

Temporary Construction Facilities

The estimate for temporary construction facilities was derived from in-house data of construction facilities, anticipated manning levels and the construction plan.

Included in the estimate for temporary construction facilities are:

- It is assumed that the Owner's and Engineer's site based personnel will use the permanent mine office during construction, which will be constructed early in the schedule. Contractors will provide their own offices and other facilities as part of their mobilisation.
- Container stores for instrumentation and other items required to be stored undercover.
- Permanent operations computers and servers, printers, etc. and office furniture and equipment for the Owner's and Engineer's site based personnel will be purchased early and used during construction
- Communications and on-site radio communications.
- Temporary water supply from bores into a header tank, septic tanks for sewage.
- Power via generators with distribution to the various temporary facilities.

5.3.2 Preliminaries

Mobilisation / Demobilisation

Costs for mobilisation / demobilisation of labour and equipment to / from the project site were adopted from budget quotation enquiries to contractors or adjusted from current tenders / contracts to reflect the project location.

5.3.3 Earthworks

Plant Site

Quantities for plant site earthworks, in-plant roads, culverts, etc. were derived from the plant layout drawings and the topographical map.

Bulk earthwork quantities were established by comparison of the plant layout drawings and the topographical map by the estimators.

Rates were derived from bids from local contractors. Rates were reviewed and benchmarked against other projects.

TSF

The TSF design is outside of Lycopodium's scope.

Haul Roads

Haul roads for mining are outside Lycopodium's scope.

ROM Pads

Quantities for the ROM pad are limited to the detailed engineered fill and drainage works required around the primary crushing chamber. The bulk quantities for the ROM pad, constructed from mine waste, are not included in the scope and will be covered by SRK.

5.3.4 Concrete

Quantities for concrete works were established using:

- General arrangement drawings.
- Detailed drawings and benchmarking from similar sized projects previously completed by Lycopodium.

A material take-off was carried out. Rates for the estimate were solicited from Nicaraguan contractors with experience of this kind of work, and capacity to perform the works. These rates were evaluated and a selection made based on cost and capability.

Rates and quantities were prepared on a composite per cubic metre basis which include detailed excavation and backfill. Mobilisation and Preliminaries and General costs were separated to reflect the contracting methodology.

5.3.5 Steelwork

Quantities for structural steel were established using:

- General arrangement drawings.
- Details from similar sized projects previously completed by Lycopodium.

A material take-off was carried out, with member sizing based on similar structures from Lycopodium's database.

Rates for this estimate were solicited from Nicaraguan contractors with experience of this kind of work, and capacity to perform the works. These rates were evaluated against similar projects and a selection made based on cost and capability.

Site installation hours were estimated using Lycopodium's database of experience, and installation hours solicited from contractors for this estimate. These rates were evaluated and a selection made based on cost and capability.

5.3.6 Platework / Tankage

Platework and tankage quantities were estimated using sizing provided in the mechanical equipment list. A preliminary design was undertaken for each tank to select appropriate plate thicknesses to develop tank tonnages. Lining materials, where applicable, were quantified separately.

Rates for this estimate were solicited from Nicaraguan contractors with experience of this kind of work, and capacity to perform the works. These rates were evaluated and a selection made based on cost and capability.

Installed costs and unit rates from a local contractor were used to estimate platework and field erected tankage costs.

5.3.7 In-plant Conveyors

Quantities of mechanical components required were assessed via a data sheet prepared for each conveyor based on the mechanical equipment list and the general arrangement drawings.

Budget pricing solicited for this estimate, and in-house database information, was used for the individual mechanical components. Installation hours were estimated from in-house experience.

Conveyor structural steel was estimated separately and included in the steelwork section of the cost estimate.

5.3.8 Mechanical Equipment

The quantities and size of the mechanical equipment was taken from the mechanical equipment list prepared for the study.

Budget quotations were sought from equipment vendors for major mechanical equipment based on data sheets prepared for the study. Quotations were requested from multiple vendors, including international vendors where appropriate. Technical evaluations and selections were made by engineering personnel.

Costs for all other items were derived from Lycopodium's current in-house database.

Equipment installation hours were estimated using Lycopodium's database of experience. For each individual item of equipment due allowance was made for the retrieval of equipment from the storage location, handling, placing, installation and commissioning of the equipment.

Plant Pipework

The supply and installation estimate for in-plant piping was factored from historical project costs. These factors are a percentage of the mechanical equipment supply and installation costs, and are calculated by plant area (crushing, milling, CIL, etc.).

Overland Pipework

Overland piping, e.g. tailings discharge lines, decant return water line, was estimated from first principles with quantity take-offs from the general arrangement drawings.

Budget pricing solicited for this estimate, and in-house database information, was used for individual pipelines. Installation hours were estimated from in-house experience.

Electrical / Instrumentation

Quotations for major electrical equipment and instrumentation items were obtained budget quotations and Lycopodium's current in-house database from recent similar projects.

Bulk E&I supply and installations costs were factored and benchmarked against similar sized Lycopodium built projects.

Erection and Installation

In addition to the discipline by discipline assessment of erection / installation costs detailed above, allowance was made for construction cranage and miscellaneous equipment and construction costs such as site establishment, construction personnel meals, etc. Unit rates for equipment were solicited from local Nicaraguan contractors.

Architectural / Buildings

Preliminary designs for the site buildings were produced and budget quotations from local contractors were received. The capital costs of the respective buildings were reviewed and benchmarked against Lycopodium's database for similar projects.

Transport

All pricing solicited from the marketplace were obtained on the basis of delivery to the Port of Corinto, Nicaragua.

Catering and Accommodation

The contractors' installation rates include the cost to cover meals and accommodation during construction.

5.3.9 Engineering Procurement and Construction Management (EPCM)

The EPCM costs were factored from the direct costs and benchmarked against similar sized projects executed by Lycopodium.

Pre-production Costs

Pre-production costs for the process plant and administration are excluded.

Working Capital

Working capital is excluded.

Vendor Commissioning

Equipment requiring vendor representation for commissioning was identified. The estimate was developed by estimating the man-days required by the vendor representative to complete their works and applying a man-day rate and expenses.

Spares

Spares are excluded.

Project Insurance

Project insurances are excluded from this estimate.

Duties / Taxes / Fees

Duties / taxes / fees are excluded from this estimate.

First Fill Consumables

First fills are excluded.

5.3.10 Qualifications / Exclusions

No allowance has been made in the estimates for:

- Financing costs or interest costs during construction.
- Future exploration costs.
- Sterilisation drilling.
- Sunk costs.
- Drill and blast if required for plant site earthworks.
- Rehabilitation activities at plant closure.
- Costs associated with mining, tailings storage facility, waste rock storage, surface water management system, highway and powerline relocation.
- Bulk fuel storage, as it is assumed this will be vendor supplied under a long term fuel supply agreement.
- Costs associated with the owners' project management team.
- Costs associated with the owners' project permits and approvals team.
- Costs associated with land compensation.
- Costs associated with resettlement.
- Owner's costs.
- Pre-production costs.
- Operating, Consumable or Insurance Spares.

- First Fill.
- Working Capital.
- Import Duties and Taxes.
- Sustaining Capital.

It should be noted that:

- The EPCM cost estimate excludes managing the supply and installation of the TSF or the mining development.
- The programming of the plant control system is included in the direct costs.
- All GST is excluded from the estimate.

5.4 Exchange Rates

The estimate has been presented in USD. Original costs were collected in USD. The following exchange rate, applicable as at 2Q14, has been used for the capital cost estimate:

- CORDOBA 25.00 = USD 1.00

5.5 Contingency

The purpose of contingency is to make specific provision 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 between the specific items allowed in the estimate and the final total installed project cost. The contingency does not cover scope changes, design growth, etc., or the listed qualifications and exclusions.

Contingency has been applied to the estimate as a deterministic assessment by assessing the level of confidence on a discipline basis, taking into consideration scope definition, material/equipment supply pricing, and installation costs.

The resultant contingency for the scope cover by this estimate is 11.3% of the Total Cost or $5,926,623**.**

5.6 Detailed Capital Cost Estimate Breakdown

Table 5.3 shows the capital cost breakdown by plant area and facility. Table 5.4 shows the capital cost breakdown by primary discipline (major commodity).

Table 5.3 Capital Cost by Plant Area and Facility

Main Area	Plant Area	Facility	Sub-Totals USD	Contingency USD	Total USD
100 Treatment Plant	101 Treatment Plant - General	101 Treatment Plant - General	-195,000		-195,000
		112 Bulk Site Earthworks	666,050	166,513	832,563
		117 Site Security Fencing	45,346	4,535	49,881
		118 Plant Piping	3,310,452	662,090	3,972,542
		119 Plant Electrical & Instrumentation	5,358,011	1,171,602	6,529,613
	101 Treatment Plant - General Tot.		**9,148,859**	**2,004,740**	**11,189,598**
	120 Feed Preparation	121 Primary Crushing	2,472,421	231,902	2,704,323
		125 Stockpiling	610,386	51,018	661,405
	120 Feed Preparation Total		**3,082,807**	**282,920**	**3,365,727**
	130 Milling	131 Reclaim	1,462,868	131,830	1,594,698
		132 Grinding	8,461,061	662,555	9,123,616
		133 Classification	245,782	17,709	263,491
	130 Milling Total		**10,169,711**	**812,093**	**10,981,804**
	140 Tailings	142 Pre-Leach Thickening	1,019,278	85,130	1,104,408
		144 Carbon Safety Screening	32,122	3,533	35,656
		145 Cyanide Detoxification	1,476,697	126,780	1,603,478
		146 Thickening	-	-	-
		147 Tails Pumping	97,211	7,820	105,031
	140 Tailings Total		**2,625,308**	**223,264**	**2,848,572**
	160 Leaching	161 CIL	4,044,605	366,331	4,410,936
		162 Carbon Recovery	46,032	3,659	49,691
		163 Trash Screening	177,380	13,323	190,703
	160 Leaching Total		**4,268,017**	**383,314**	**4,651,331**
	170 Desorption	171 Acid Wash / Elution	659,006	50,160	709,165
		172 Carbon Regeneration	273,380	19,350	292,730
	170 Desorption Total		**932,386**	**69,509**	**1,001,896**
	180 Refining	181 Goldroom	698,954	69,204	768,158
		183 Electrowinning	545,646	46,359	592,004

Main Area	Plant Area	Facility	Sub-Totals USD	Contingency USD	Total USD
		185 Smelting	133,205	9,495	142,701
	180 Refining Total		**1,377,805**	**125,058**	**1,502,864**
	190 Other Plant Areas	191 Other Plant Areas	9,072	635	9,707
	190 Other Plant Areas Total		**9,072**	**635**	**9,707**
100 Treatment Plant Total			**31,649,965**	**3,901,534**	**35,551,499**
200 Reagents & Plant Serv.	210 Reagents	211 Cyanide	180,090	15,850	195,940
		212 Lime	156,617	11,956	168,573
		213 Flocculants	134,015	9,896	143,911
		214 Caustic	93,004	7,743	100,747
		216 Acid	75,996	6,677	82,674
		217 Sodium Metabisulphite	255,741	23,358	279,098
		218 Copper Sulphate	77,459	6,249	83,708
		220 Reagents Store	172,536	18,979	191,515
	210 Reagents Total		**1,145,457**	**100,708**	**1,246,165**
	230 Water Services	231 Water Services - General	19,920	2,191	22,111
		232 Raw Water	174,776	15,277	190,053
		234 Potable Water	72,974	6,642	79,615
		235 Gland Seal Water	12,960	907	13,867
		238 Fire Water	222,210	15,555	237,765
		240 Piperacks	283,887	31,228	315,114
		242 Water Treatment Plant	92,475	6,473	98,948
		232 Raw Water	15,120	1,058	16,178
		233 Process Water	153,133	12,842	165,976
	230 Water Services Total		**1,047,454**	**92,173**	**1,139,628**
	250 Air Services	251 Compressed Air	538,642	41,110	579,752
	250 Air Services Total		**538,642**	**41,110**	**579,752**
	260 Fuels	261 Fuel Storage & Distribution	74,284	6,497	80,780
	260 Fuels Total		**74,284**	**6,497**	**80,780**
	270 Electrical Services	272 Plant Sub Stations	197,869	19,970	217,839
	270 Electrical Services Total		**197,869**	**19,970**	**217,839**

Main Area	Plant Area	Facility	Sub-Totals USD	Contingency USD	Total USD
200 Reagents & Plant Services Total			**3,003,706**	**260,459**	**3,264,165**
300 Infrastructure	310 Environmental	312 Event Pond	34,654	7,497	42,150
	310 Environmental Total		**34,654**	**7,497**	**42,150**
	320 Utilities & Services	323 Water Bores	-	-	-
		324 Sewage Treatment	196,650	33,948	230,598
	320 Utilities & Services Total		**196,650**	**33,948**	**230,598**
	340 Tailings Dam	342 Tailings Pipeline	123,660	24,732	148,392
		345 Decant Return Pipeline	93,960	18,792	112,752
	340 Tailings Dam Total		**217,620**	**43,524**	**261,144**
	350 Plant Buildings	359 Crusher MCC	24,480	2,448	26,928
		360 Main MCC	24,480	2,448	26,928
		367 Primary Crusher Control Room	29,000	2,900	31,900
		368 Main Control Room	35,807	3,581	39,388
		369 Control/Titration Room	14,688	1,469	16,157
		370 Mine Security Gatehouse	-	-	-
		371 Plant Training Building	34,562	3,456	38,018
		372 Mining Shift Change Room	-	-	-
		373 Mining Administration Office	-	-	-
		374 Laboratory & Plant Office	448,927	44,577	493,504
		375 Plant Change House	-	-	-
		376 Plant Chop Kitchen & Dining	80,042	8,004	88,046
		377 Plant First Aid Clinic	57,017	5,702	62,719
		378 Plant Administration Building	337,335	33,734	371,069
		379 Plant Gatehouse	34,333	3,433	37,767
		380 Plant Security Gatehouse	-	-	-
		382 Emergency Response Vehicle Bldg	65,352	6,535	71,887
		383 Core Shed	94,800	9,480	104,280
		384 Mine Warehouse Building	-	-	-
		385 Mine Heavy Vehicle Workshop	-	-	-

Main Area	Plant Area	Facility	Sub-Totals USD	Contingency USD	Total USD
		386 Reagents Permanent Store	176,580	17,480	194,060
		387 Plant Workshop,Maint. Warehouse & Office .	453,056	43,847	496,903
	350 Plant Buildings Total		**1,910,460**	**189,093**	**2,099,553**
300 Infrastructure Total			**2,359,383**	**274,062**	**2,633,446**
Lyco Directs Total			**37,013,054**	**4,436,055**	**41,449,109**
000 Constr. Indirects	001 Constr. Indirects - Contractors	002 Earthworks	189,000	47,250	236,250
		003 Concrete	299,000	32,890	331,890
		004 SMP	982,500	108,075	1,090,575
		005 Field Erected Tankage	298,154	26,834	324,987
		008 Buildings	165,000	16,500	181,500
	001 Construction Indirects - Contractors Total		**1,933,654**	**231,549**	**2,165,202**
	010 Construction Indirects - General	011 Construction Equipment	105,000	10,500	115,500
		013 General Freight & Transport	600,000	60,000	660,000
		015 Vendor Representatives	542,850	54,285	597,135
	010 Construction Indirects - General Total		**1,247,850**	**124,785**	**1,372,635**
	020 Site Construction Facilities	023 Laydown Areas (Hardstand)	23,392	2,339	25,731
		024 Construction Site Offices	23,200	2,320	25,520
	020 Site Construction Facilities Total		**46,592**	**4,659**	**51,251**
	040 Construction Operations	041 Construction Operating Costs	490,545	49,054	539,599
	040 Construction Operations Total		**490,545**	**49,054**	**539,599**
000 Construction Indirects Total			**3,718,640**	**410,047**	**4,128,687**
500 Management Costs	510 EPCM - Home Office	512 Process / Engineering	750,000	75,000	825,000
		513 Drafting	1,200,000	120,000	1,320,000

Main Area	Plant Area	Facility	Sub-Totals USD	Contingency USD	Total USD
		514 Projects	850,000	85,000	935,000
		515 Project Services	600,000	60,000	660,000
		517 Home Office Expenses	600,000	60,000	660,000
	510 EPCM - Home Office Total		**4,000,000**	**400,000**	**4,400,000**
	520 EPCM - Site	519 Site Support	150,000	15,000	165,000
		522 Construction Services	2,500,000	250,000	2,750,000
		527 Commissioning	658,000	65,800	723,800
	520 EPCM - Site Total		**3,308,000**	**330,800**	**3,638,800**
	540 Specialist Consultants	549 Hazop	20,000	2,000	22,000
	540 Specialist Consultants Total		**20,000**	**2,000**	**22,000**
500 Management Costs Total			**7,328,000**	**732,800**	**8,060,800**
Lyco Indirects Total			**11,046,640**	**1,142,847**	**12,189,487**
Grand Total			**48,059,694**	**5,578,903**	**53,638,597**

Table 5.4 Summary by Primary Discipline

Main Area	Primary Discipline	Sub-Totals USD	Contingency USD	Total Project USD
100 Treatment Plant	A General	45,346	4,535	49,881
	B Earthworks	691,760	172,940	864,701
	C Concrete	2,073,608	228,097	2,301,705
	D Steelwork	3,662,045	402,825	4,064,870
	E Platework	1,262,972	137,939	1,400,912
	E Tankage	2,032,563	182,931	2,215,494
	F Mechanical	13,213,207	938,575	14,151,782
	G Piping	3,310,452	662,090	3,972,542
	H Electrical & Inst	5,358,011	1,171,602	6,529,613
200 Reagents & Plant Services	A General	-	-	-
	C Concrete	300,019	33,002	333,021
	D Steelwork	647,665	71,243	718,909
	E Tankage	577,892	52,745	630,637
	F Mechanical	1,478,129	103,469	1,581,599
300 Infrastructure	A General	-	-	-
	B Earthworks	28,174	7,043	35,217
	C Concrete	4,047	445	4,492
	F Mechanical	114,314	8,002	122,316
	G Piping	372,870	74,574	447,444
	M Buildings	1,839,979	183,998	2,023,977
000 Construction Indirects	A General	1,242,137	124,214	1,366,350
	B Earthworks	189,000	47,250	236,250
	C Concrete	299,000	32,890	331,890
	D Steelwork	670,000	73,700	743,700
	E Tankage	298,154	26,834	324,987
	F Mechanical	312,500	34,375	346,875
	P EPCM	542,850	54,285	597,135
	M Buildings	165,000	16,500	181,500
500 Management Costs	P EPCM	7,328,000	732,800	8,060,800
Grand Total		**48,059,694**	**5,578,903**	**53,638,597**

6.0 OPERATING COST ESTIMATE

The operating costs have been developed according to industry standards applicable to a gold processing plant producing doré. The operating costs include all process plant direct costs associated with the Project.

6.1 Operating Cost Estimate

Operating costs have been estimated by major category (power, labour, consumables etc.) and are based on a throughput capacity of 2,300 dry tonnes ore per day. The major contributors to operating cost are power and grinding media. Power costs present the biggest risk in variance to project operating costs. Confirming power costs and grinding media consumption should be a key part of the Feasibility Study.

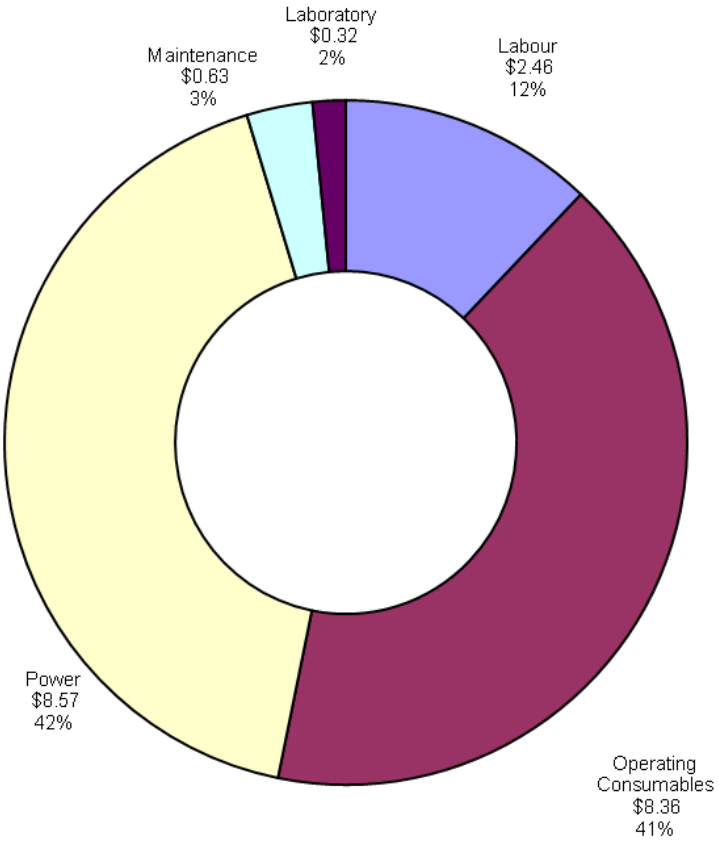
The contribution of the major operating cost categories to the total cost are presented in Table 6.1, and the distribution of cost categories are presented in Figure 6.1.

Table 6.1 Summary of Process Operating Cost Estimate (US$, 2Q14, +/-25%)

Cost Centre	US$/Year	US$/t	US$/oz Gold Equivalent
Power	6,897,275	8.57	84.41
Labour	1,977,072	2.46	24.20
Consumables	6,730,133	8.36	82.36
Maintenance Materials	509,837	0.63	6.24
Laboratory	256,135	0.32	3.13
Total	**16,370,502**	**20.34**	**200.34**

Throughput rate of 2,300 dry tonnes ore per day.

Figure 6.1 Operating Cost Distribution



6.2 Design Production Parameters

The operating costs have been calculated based on the project design basis of 2,300 tpd of ore with an annual throughput of 805,000 tonnes of ore. Table 6.2 summarizes the designed production.

Table 6.2 La India Production Parameters

	Gold	Silver
Daily Throughput in Dry Tonnes Ore	2,300	
Annual Throughput in Dry Tonnes Ore	805,000	
Head Grades in Grams per Tonne	3.4	5.8
Overall Recovery %	91	70
Annual Metal Production in Ounces	80,086	105,090
Total Annual Production in Ounces of Gold Equivalent ($Au/$Ag = 65)	**81,713**	

6.3 Qualifications

Operating costs have been estimated by major category (power, labour, consumables etc.) and have been compiled from a variety of sources including:

- Metallurgical testwork.
- Suppliers' quotations.
- Advice and information supplied by Condor and SRK.
- Lycopodium data.
- First principle estimates.

The major contributors to operating cost are power, comminution media, and labour. These three items represent the biggest risk in underestimating or overestimating project operating costs. Mining costs are excluded from the operating cost as this is outside the scope of Lycopodium.

The following items have been excluded from the operating cost estimates:

- All mining and geology costs - plant operating costs commence at the primary crusher dump pocket.
- All general and administrative and head office costs.
- All import duties.

- All taxes.
- First fills (capital cost).
- All sunk costs.
- Impact of foreign exchange rate fluctuations.
- Contingency allowance.
- Escalation from the date of the estimate (not listed in excel op costs).
- Land or other compensation costs.
- Site rehabilitation or closure costs.
- Licence fees or royalties.
- Government monitoring and compliance costs.
- Transportation and refining costs.
- Operation of the pebble crushing circuit (included for conceptual design purposes only).

A breakdown of the costs associated with each cost category is provided in the following sections and additional details are provided in Appendix 7, Operating Costs.

6.4 Exchange Rates and Estimate Date

Costs are presented in United States dollars and are estimated on a pricing basis as of the second quarter of 2014.

For imported goods, prices have been converted using the following exchange rates:

CAD 1.00 = USD 0.92

CORDOBA 25.00 = USD 1.00

6.5 Operating Cost Estimate Accuracy

The targeted accuracy of this operating cost estimate is ± 25%.

6.6 Power

Power will be provided from the Nicaraguan power grid via a substation owned by the local power authority. The unit cost of power provided for the study by Condor is US$0.18 / kWhr.

The consumption of power has been determined from the installed power of the equipment in the Mechanical Equipment List and application of a load factor and utilisation factor for each load.

6.7 Labour

6.7.1 Wages and Salaries

Labour costs in the operating cost refer only to process plant labour. General and administration is not included.

Wages and salaries used for the study have been provided by Condor. These salaries were provided exclusive of overheads.

A summary of the salaries for select positions, including overheads, is provided in Table 6.3. The salaries shown in the table are inclusive of bonuses and overheads.

Table 6.3 Selected Employee Compensations Inclusive of Overheads

Position	Annual Cost US$
Process Operator	24,785
Shift Supervisor	49,969
Technician	13,311
General Foreman	67,095
Tradesman	9,614
Metallurgist	66,555
Electrician	14,051
Trades Assistant	8,135

6.7.2 Plant Operations

The daily operation of the mill will be under the control of the General Foreman, with coverage provided by the Trainer. There will be four shift crews staffed by local labour, to cover back-to-back twelve-hour shifts. Processing plant labour is estimated to cost US$ 1,427,085 per annum (72%), and maintenance US$ 549,987 per annum (28%).

Each shift crew will include:

- A shift supervisor who will direct the plant operation.

- One control room operator who will monitor the entire process and coordinate processes and procedures across the plant.
- One crusher operator who will be field based and will also oversee the stockpile reclaim area.
- One milling area operator who will be responsible for the grinding circuit.
- One CIL operator who will be responsible for the leaching circuit and reagents makeup.
- One gold room supervisor (covers two shifts).
- One elution and gold room operator (covers two shifts).
- One relief operator on to provide assistance where required to cover breaks, clean-up duties etc. This operator will also provide relief for annual leave or illness.
- One maintenance supervisor.
- Two tradesmen and two trades assistants to provide maintenance.
- One electrician and instrument technician.

6.7.3 Laboratory

Laboratory costs have been allocated on a per sample basis at an external laboratory. Sample collection, basic preparation, and the associated labour costs have been included in the operating cost estimate. Lycopodium has estimated the number and type of samples from first principles.

6.7.4 Metallurgy

The metallurgist, who will also have responsibility for metallurgical accounting, will monitor daily metallurgical performance of the plant. The Metallurgist will work closely with Geologists and Mining Engineers to ensure that the plant operates at maximum productivity.

6.7.5 Maintenance

The maintenance superintendent will control all aspects of plant, building and services maintenance.

The maintenance team will include electricians, technicians, tradesmen, and assistants. The maintenance team will be supplemented by appropriately skilled contract labour during major shutdowns or major repair tasks.

6.8 Consumables

All consumables costs have been estimated based on vendor or Condor Gold supplied information. Reagent consumptions have been based on the following:

- Laboratory testwork results have been used for the consumption rate of the quick lime and the pricing has been supplied by vendor.
- The cyanide consumption rate has been based on laboratory testwork. The price has been supplied by vendor.
- Sodium metabisulphite consumption is based on Lycopodium experience and pricing has been supplied by vendor. It has been assumed that sodium metbisulphite (SBMS) will be delivered in bulk bag format.
- Liner consumption rates for the crusher and mill have been based on OMC calculations with input from SRK. Crusher wear component costs have been based on vendor quotations.
- Elution and gold room reagent consumption rates have been based on first principles calculation and Lycopodium experience. The prices of related items have been supplied by either vendor or Condor Gold.
- Diesel fuel consumption rates have been based on Lycopodium experience and the price has been based on vendor information supplied by Condor Gold.
- Antiscalent consumption rates have been based on Lycopodium experience and the price has been based on vendor quotation.
- Activated carbon consumption has been based on Lycopodium experience and the price based on vendor information.
- Raw water requirements in the plant will be met by water drawn from the mine dewatering bore(s). Bottled water will be purchased locally and delivered to site for consumption. Potable water is not produced onsite although it is a recommendation for future study.

6.9 Maintenance Materials Costs

Maintenance materials costs have been estimated by applying a factor to the direct capital cost. This factor covers the cost of all maintenance materials and contract labour requirements with the exception of crusher wear parts, which have been included in the consumables allowance.

The factor applied is based on Lycopodium's database and experience and is the average cost over the life of the mine. As such, actual spares costs may be lower during the initial years but rise later. A factor of 3% has been used in all areas.

6.10 Mobile Equipment

The operating costs for mobile equipment have been estimated and include fuel, tyres and maintenance parts. The fuel costs have been included in the consumables cost centre whilst the other operating costs have been included in the overall maintenance materials cost centre. Crushed ore stockpile reclaim equipment costs are included in the mobile equipment costs while the associated labour is provided by the crusher operator.

6.11 General and Administration Costs

All general and administration costs are omitted from the operating cost calculated by Lycopodium. Omitted items include for example: office costs, first aid and safety personnel, business services such as accounting, consultants, contractors, and security, etc. These costs are developed by Condor and SRK under separate cover.

7.0 PROJECT IMPLEMENTATION

7.1 Introduction

This section describes the project implementation strategy proposed for the La India process plant and associated infrastructure and services only.

Project implementation affects all aspects of project development, particularly capital cost, schedule, and risk management. No business objective will take priority over health and safety. A Health and Safety Management Plan outlining the accountabilities and roles of Condor, the Engineer, and contractors will be drafted as part of the Feasibility Study.

The implementation strategy contemplates the development of the Project on an Engineering, Procurement and Construction Management (EPCM) basis. An experienced engineering firm (the Engineer) will be engaged to provide EPCM services associated with the development of the process plant and associated infrastructure and services. Specialist consultants will be engaged to address specific elements of the Project not within the core competency of the Engineer.

Responsibility for the execution and delivery of the various Project scope elements will be divided between the Engineer and Condor. The implementation approach requires close integration with and collaboration between Condor and the Engineer to ensure all aspects of the Project development are executed efficiently.

The implementation strategy provides an overall methodology for managing the Project through detailed design, procurement and construction, to commissioning. To meet the proposed schedule, the implementation strategy is structured into three stages.

- Detailed design and procurement of the treatment plant, support services and infrastructure.
- Construction treatment plant, support services and infrastructure, including earthworks, civils, architectural, structural, piping, electrical and instrumentation.
- Plant commissioning and handover.

Construction contracts will be tendered as horizontal packages, with contracts based on standard terms and conditions for the Project, as prepared by the Engineer.

7.2 Engineering and Design

An Engineering Plan will be prepared by the Engineer defining the principles and execution guidelines that will be adopted by the Engineer's team during the design phase of the Project. The plan will identify the various engineering deliverables required at the tender, procurement, construction, commissioning, close-out, and handover stages of the Project.

7.3 Procurement and Contracts

A contracts and procurement plan (CPP) will be developed by the Engineer during the execution phase of the Project to address the supply and contract packages that will be tendered to achieve competitive pricing for both purchase orders and supply/construction contracts. The CPP will address the type of purchase order and contract terms for each package.

Equipment suppliers will be selected on the basis of previous history, ability to meet the design requirements and ability to meet the Project schedule.

Contractors for site works will be selected on the basis of their safety record, industrial relations record, previous experience on similar type projects, costs, schedule, availability and capability to perform the work.

Nicaraguan and Central American contractors and suppliers will tender for Project works as appropriate, and contracts will be awarded based on their ability to comply with the specified conditions. Direct negotiations with smaller local business groups on specific contract packages are planned to encourage local sourcing of Project requirements.

Construction contracts will be tendered as horizontal packages as outlined below, with contracts based on standard terms and conditions for the Project, as prepared by the Engineer.

7.4 Project Controls

A Project Controls Plan (PCP) will be developed by the Engineer during the execution phase of the Project to address cost control, planning, progress measurement, Project reporting, asset capitalisation and close-out.

The PCP will provide a framework of the work processes, work flows and information relating to standard Project controls and accounting interface activities, and will identify the systems and procedures that will be utilised during the execution of the Project.

7.5 Construction

The construction methodology proposed for the Project has the following aims:

- To provide a safe working environment.
- To achieve cost and schedule targets.
- To adopt a cost effective and fit for purpose construction methodology in contracting and site management based on tried and proven philosophies.
- To allow optimisation in constructability.

- To provide a management plan that complies with the requirements of both Condor and the Engineer's safety and environmental policies.

The Construction Management Team will manage and co-ordinate all site contractor activities to ensure control over cost, schedule and quality and overall site contract performance is in accordance with Project standard procedures.

Commissioning

A commissioning plan will be prepared for the Project. This document will outline the plan for pre-commissioning, wet commissioning and performance testing of the process plant and associated infrastructure. Pre-commissioning and wet commissioning will be undertaken by the contactors and the Engineer.

Ore commissioning will be the responsibility of Condor's operations team with the assistance of the Engineer's senior commissioning personnel.

Project Close-out and Handover

At the completion of all construction and commissioning activities, the Engineer will provide the following close-out information to Condor.

- As-built drawings.
- Piping and instrumentation diagrams (P&IDs).
- Electrical as built drawings.
- Commissioning data and records.
- Requirements for the discharge of bank guarantees and warranty administration.
- Project close-out report.
- Quality records

Drawings will be conveyed as DWG, DXF or other mutually acceptable electronic medium.

The Engineer will create and issue for Condor's sign-off a handover certificate reflecting the fact that the plant is complete and operational, has been commissioned, that all performance warranties have been achieved and is fully functional.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The investigation and analysis carried out are considered appropriate to pre-feasibility level design. Further investigations are recommended as the project advances to a bankable feasibility study level.

- Additional test work is required to provide better definition of the abrasion index throughout the deposit. The abrasion index reported for La India is very high and it contributes considerably to the operating cost in terms of comminution media. The use of composite wear liners and chrome media should be investigated as a method for reducing media costs.

- Due to the relatively high cost of grid power in Nicaragua, it is recommended to explore other sources of power supply, including from neighbouring countries, and possible use of generator sets with fuel oil options.

- Because of the high comminution energy requirements of the ore, the project is highly sensitive to power cost. In future study, detailed investigation into determining the actual power cost is required (i.e. supply proposal or contract in place).

- It is recommended for the next phase that the base case process plant throughput be increased from 805,000tpa to 1Mtpa for improved economics and quicker payback,assuming that sufficient working room can be made available to provide feed from the mine. Factored estimates (± 35%) were prepared by Lycopodium for the 1Mtpa case which show a reduction in the operating costs from $20.34 / tonne per to $19.00 / tonne, and only a 7.5% increase in capital costs with a 24% increase in throughput. The factored estimates are provided in Appendix 9, 1Mtpa Factored Capital and Operating Cost Estimates.

- A potable water treatment plant is recommended to enable the onsite production of water for safety showers and drinking.

- Test results subsequent to the preparation of this study have indicated that mercury is not of concern for the La India project and all equipment related to the handling of mercury can have the holds removed and be omitted from future design.

- Additional comminution and metallurgical test work is recommended for the America, Mestiza, and Central Breccia vein systems for inclusion in subsequent studies.

APPENDIX 1

PROCESS FLOW DIAGRAMS

PEBBLES
000-F-002

METAL DETECTOR

PLANT AIR DISTRIBUTION
000-F-012

RAW WATER
000-F-011

BL

ROM FEED

ROM BIN

CRUSHER SERVICE HOIST

PRIMARY FEEDER

ROCK BREAKER

PRIMARY CRUSHER

FAN

DUST COLLECTOR

CRUSHER DISCHARGE CONVEYOR

WEIGHTOMETER

DIVERTER

PEBBLE CRUSHER FEED BIN

PEBBLE BELT FEEDER

PEBBLE CRUSHER
NOTE 1

DEAD STOCKPILE FEED CONVEYOR

OVERFLOW

SURGE BIN

FEL RECLAIM

MILL FEED APRON FEEDER

STOCKPILE

SAG MILL FEED CONVEYOR

WEIGHTOMETER

SAG MILL
000-F-002

NOTES

1. INSTALLED SECOND YEAR IF REQUIRED

LEGEND

------ INTERMITTENT
FUTURE
BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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		A	29MAY14	ISSUED FOR REVIEW - PRE FEASIBILITY STUDY	SH		AC			DM	

CLIENT CONDOR GOLD PLC

PROJECT LA INDIA PROJECT

DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
CRUSHING

PROCESS FLOW DIAGRAM

Lycopodium
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5060 Spectrum Way, Suite 302, Mississauga, Ontario L4W 5N5
Phone: (905) 206 2600 www.lycopodium.com.au

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SLAKED LIME
000-F-013

FLOCCULANT
000-F-013

RAW WATER
000-F-011

CYANIDE DETOX
000-F-005

NOTES

1. SERVICED BY MOBILE CRANE

CYCLONES

NOTE 1

TRASH SCREEN

TRASH BUNKER

CYCLONE UNDERFLOW LAUNDER

PROCESS WATER
000-F-014

CRUSHED ORE
000-F-001

CV02

SAG MILL GEAR BOX LUBE PACK

SAG MILL TRUNNION LUBE PACK

LINER HANDLER

SEAL WATER

SAG MILL

PEBBLE BUNKER

PRE-LEACH THICKENER

PRE-LEACH THICKENER OVERFLOW TANK

PRE-LEACH THICKENER OVERFLOW PUMPS

PROCESS WATER TANK
000-F-014

TRAMP METAL MAGNET

PEBBLE DISCHARGE CONVEYOR

PRE-LEACH THICKENER UNDERFLOW PUMPS

CIL FEED DISTRIBUTION
000-F-003

MILL DISCHARGE PUMP BOX

PEBBLE CRUSHER FEED BIN
000-F-001

CYCLONE FEED PUMPS

WEIGHTOMETER

PEBBLE FEED CONVEYOR

GLAND WATER
000-F-011

TAILINGS HOPPER
000-F-006

MILL DISCHARGE END DRIVE-IN BUND SUMP PUMP

LEGEND

INTERMITTENT
FUTURE
BL BATTERY LIMIT

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DRAWING TITLE
MILLING

PROCESS FLOW DIAGRAM

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NTS	5032	000-F-002	C

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RAW WATER
000-F-015

PROCESS WATER
000-F-014

CIL BLOWER AIR
000-F-012

CYANIDE
000-F-010

GROUND ORE
000-F-002

VENDOR PACKAGE
FREE CYANIDE ANALYSER

2 STAGE SAMPLER

LOADED CARBON SCREEN

ACID WASH COLUMN
000-F-007

CIL SERVICE GANTRY CRANE

CIL FEED DISTRIBUTOR

CIL TANK 4 CARBON
000-F-004

CARBON ADVANCE

CIL TANK 4 CARBON
000-F-004

CARBON QUENCH WATER/ BARREN BLEED
000-F-007

PREGNANT SOLUTION AREA SUMP PUMP
000-F-007

GOLDROOM SUMP PUMP
000-F-008

CARBON ADVANCE USING PLANT AIR

CARBON ADVANCE USING PLANT AIR

CIL TANK 4
000-F-004

CIL TANK 5
000-F-004

LEACH TANK

CIL TANK 1

CIL TANK 2

CIL TANK 3

CIL AREA SUMP PUMP 1

LEGEND
- INTERMITTENT
- FUTURE
- BL BATTERY LIMIT

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DRAWING TITLE
CIL
SHEET 1 OF 2
PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-003	C

DRAWN SH | DATE 14MAY14

RAW WATER
000-F-011

PROCESS WATER
000-F-014

REACTIVATED CARBON
000-F-009

REGEN AREA SUMP
000-F-009

ELUTION COLUMN
000-F-007

BARREN CARBON

CIL BLOWER AIR
000-F-012

CARBON
SIZING
SCREEN

CIL TANK 2
000-F-003

CIL TANK 3
000-F-003

CARBON ADVANCE

CARBON ADVANCE
USING PLANT AIR

CARBON ADVANCE
USING PLANT AIR

CIL TANK 3 SLURRY
000-F-003

CIL TANK 4

CIL TANK 5

CIL TANK 6

2 STAGE
SAMPLER

CIL TANK 3 SLURRY
000-F-003

CIL AREA
SUMP PUMP 2

CARBON
SAFETY
SCREEN

FINE
CARBON
BIN

CYANIDE
RECOVERY THICKENER
000-F-005

LEGEND

INTERMITTENT
FUTURE
BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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DRAWING TITLE
CIL
SHEET 2 OF 2
PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-004	C

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SLAKED LIME
000-F-002

RAW WATER
000-F-011

CuSO4
000-F-010

TAILINGS DECANT
000-F-006

CIL TAILS
000-F-004

FLOCCULANT
000-F-013

PROCESS WATER
000-F-014

EVENT POND
000-F-006

LIME SLAKER
000-F-013

PROCESS WATER TANK
000-F-014

CYANIDE RECOVERY THICKENER

CYANIDE RECOVERY THICKENER U/F PUMPS

CYANIDE RECOVERY THICKENER O/F PUMPS

CYANIDE RECOVERY THICKENER O/F TANK

EXTRACTION FAN

VENT STACK

HOIST

SODIUM METABISULPHITE DOSING PUMPS

SODIUM METABISULPHITE STORAGE TANK

SODIUM METABISULPHITE TRANSFER PUMP

SODIUM METABISULPHITE MIXING TANK

SODIUM METABISULPHITE 1T BAGS

DETOX FEED DISTRIBUTOR

DETOX TANK 1

DETOX TANK 2

BYPASS

TAILS HOPPER
000-F-006

TAILS HOPPER
000-F-006

DETOX AREA SUMP PUMP

VENDOR PACKAGE

CYANIDE DETOX BLOWERS

LEGEND
- INTERMITTENT
- FUTURE
- BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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DETOX AREA

PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-005	C

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GLAND WATER
000-F-011

ACID WASH
AREA SUMP PUMP
000-F-007

ACID STORAGE
AREA SUMP PUMP
000-F-010

SPENT HCl ACID
000-F-007

TREATED CIL TAILS
000-F-005

TREATED CIL TAILS
000-F-005

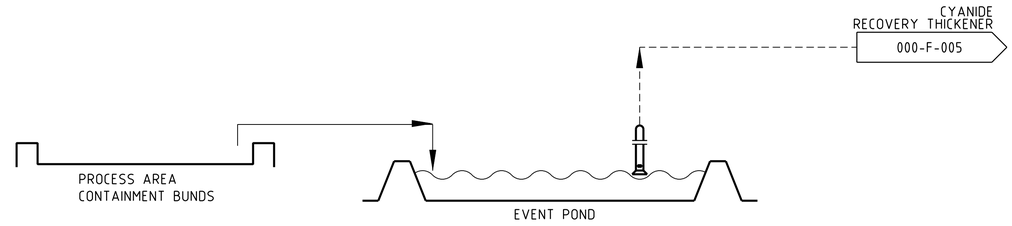
DIESEL AREA SUMP PUMP
000-F-010

TREATED SANITARY EFFLUENT
000-F-014

KILN SCRUBBER WATER
000-F-009

MILLING AREA
DRIVE-IN SUMP
000-F-002

ELECTROWINNING
WET SCRUBBER WATER
000-F-007



LEGEND

- INTERMITTENT
- FUTURE
- BL — BATTERY LIMIT

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PROJECT: LA INDIA PROJECT

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DRAWING TITLE
TAILS DISPOSAL

PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-006	C

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ACID WASH FILTERS

ACID NEUTRALIZATION BOX
000-F-006

RETORT SCRUBBER OFF GAS
000-F-008

LOADED CARBON
000-F-003

CIL FEED DISTRIBUTOR
000-F-003

CARBON QUENCH

SAMPLE POINT

RECTIFIER VENTILATION

RECTIFIER ROOM VENTILATION FAN

GOLDROOM VENTILATION

GOLDROOM VENTILATION FAN

TAILS HOPPER
000-F-006

HEAT RECOVERY HEAT EXCHANGER

ELUATE FILTERS

STRIP SOLUTION HEATER

ATMOSPHERE

SAMPLE POINT

FUME STACK

FAN

WET SCRUBBER

SCRUBBER PUMP

EXPANSION TANK

FUME HOODS (E/W CELLS)

ACID WASH COLUMN

ELUTION COLUMN

DIESEL

HOT OIL CIRCULATION PUMP

DEAERATION VESSEL

HEAT INPUT HEAT EXCHANGER

GOLDROOM CRANE

HP WASHER

ELECTROWINNING CELLS

E/W CELL FEED DISTRIBUTOR

HCl
000-F-010

RAW WATER
000-F-011

SULPHAMIC ACID

SULPHAMIC ACID PUMP

DRAIN TO SUMP

DRAIN TO SUMP

BARREN CARBON

SAMPLE POINT

CELL SLUDGE HOPPER
000-F-008

CARBON REGEN
000-F-009

CARBON SIZING SCREEN
000-F-004

TRANSFER WATER PUMP

TRANSFER WATER TANK

CAUSTIC
000-F-010

TREATED WATER
000-F-011

CYANIDE
000-F-010

ACID NEUTRALIZATION BOX
000-F-006

CIL FEED DISTRIBUTOR
000-F-003

ANTISCALANT PUMP

ANTISCALANT

ACID WASH COLUMN AREA SUMP PUMP

PREGNANT SOLUTION TANK AREA SUMP PUMP

PREGNANT SOLUTION PUMPS

SAMPLE POINT

PREGNANT SOLUTION TANK

STRIP SOLUTION TANK

STRIP SOLUTION PUMP

LEGEND

INTERMITTENT

FUTURE

BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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		A	29MAY14	ISSUED FOR REVIEW - PRE FEASIBILITY STUDY	SH		AC			DM	

CLIENT CONDOR GOLD PLC

PROJECT LA INDIA PROJECT

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DRAWING TITLE
ELUTION & GOLDROOM
SHEET 1 OF 2
PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-007	C

DRAWN SH DATE 14MAY14

ELECTROWINNING
WET SCRUBBER
000-F-007

ELECTROWINNING
SLUDGE
000-F-007

SLUDGE
HOPPER

PLANT AIR
000-F-012

PRESSURE
POT FILTERS

RETORT/
DRYING OVEN

CIL FEED DISTRIBUTOR
000-F-003

TO ATM

FURNACE
FUME HOOD

DIESEL

BY HAND

SMELTING
FURNACE

POURING
MOULDS

BULLION
BALANCE

SAFE

GOLDROOM
SUMP PUMP

25kg BAGS
FLUX MIX

LEGEND

INTERMITTENT
FUTURE
BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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CLIENT CONDOR GOLD PLC

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DRAWING TITLE
ELUTION & GOLDROOM
SHEET 2 OF 2
PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-008	C

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STRIPPED CARBON
000-F-007

ATMOSPHERE

SAMPLE POINT

KILN EXHAUST STACK

FAN

WET SCRUBBER

SCRUBBER PUMP

KILN EXHAUST GAS STACK

SAMPLE POINT

DIESEL

CARBON REGENERATION KILN

CARBON REGENERATION KILN SCREW FEEDER

CARBON DEWATERING SCREEN

O/F

CARBON REGENERATION KILN FEED HOPPER

NEW CARBON SERVICE HOIST

GRANULATED CARBON BULK BAG

MAKE-UP CARBON CHUTE

O/F TO FLOOR

CARBON QUENCH VESSEL

CARBON SIZING SCREEN
000-F-004

CARBON TRANSFER PUMP

RAW WATER
000-F-011

TAILS HOPPER
000-F-006

CARBON SIZING SCREEN
000-F-004

CARBON REGENERATION AREA SUMP PUMP

LEGEND

INTERMITTENT

FUTURE

BL BATTERY LIMIT

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DRG NO | REFERENCE DRAWINGS

CLIENT CONDOR GOLD PLC

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Phone: (905) 206 2600 www.lycopodium.com.au

DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
CARBON REGENERATION
PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-009	C

DRAWN SH | DATE 14MAY14

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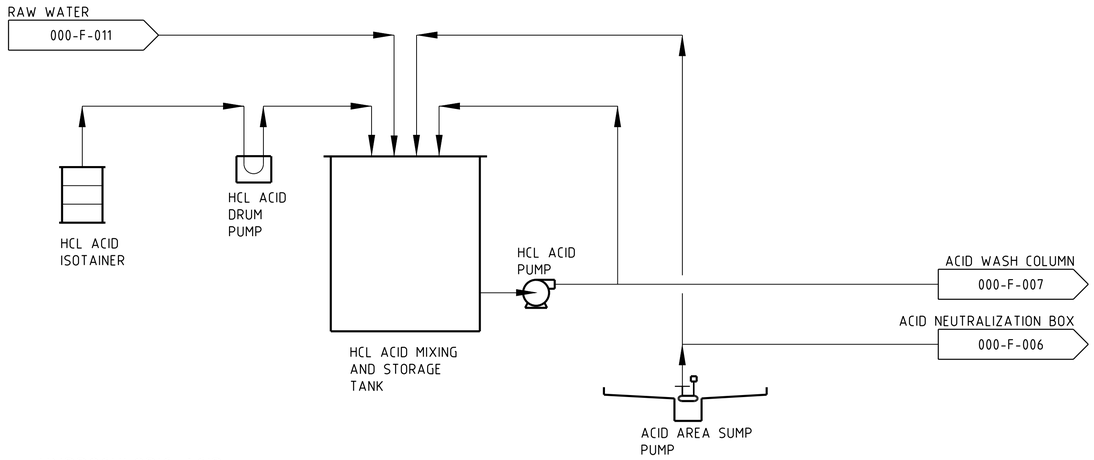

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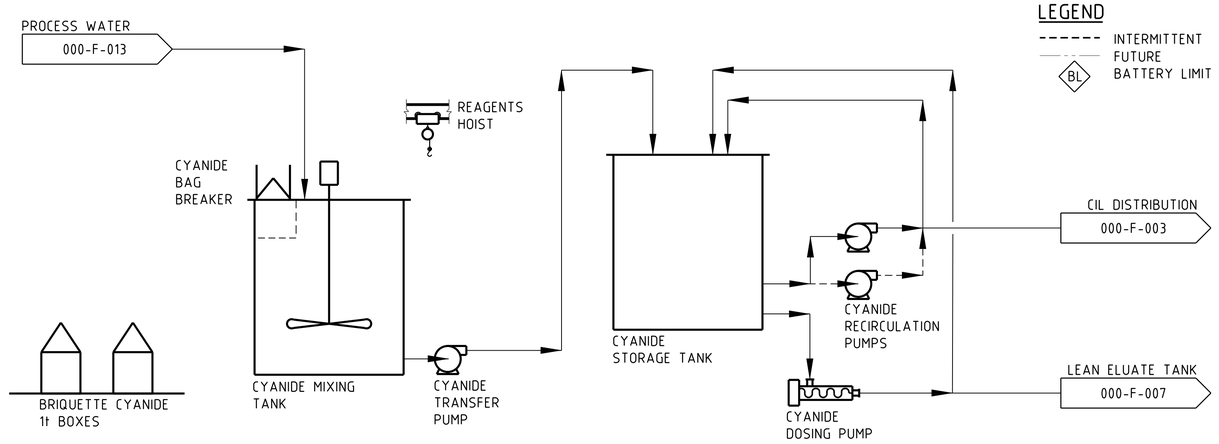

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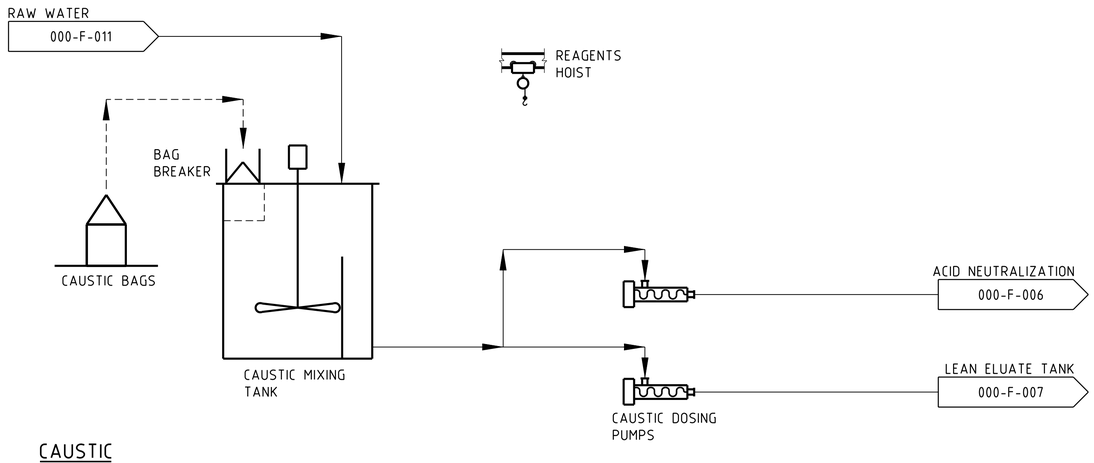
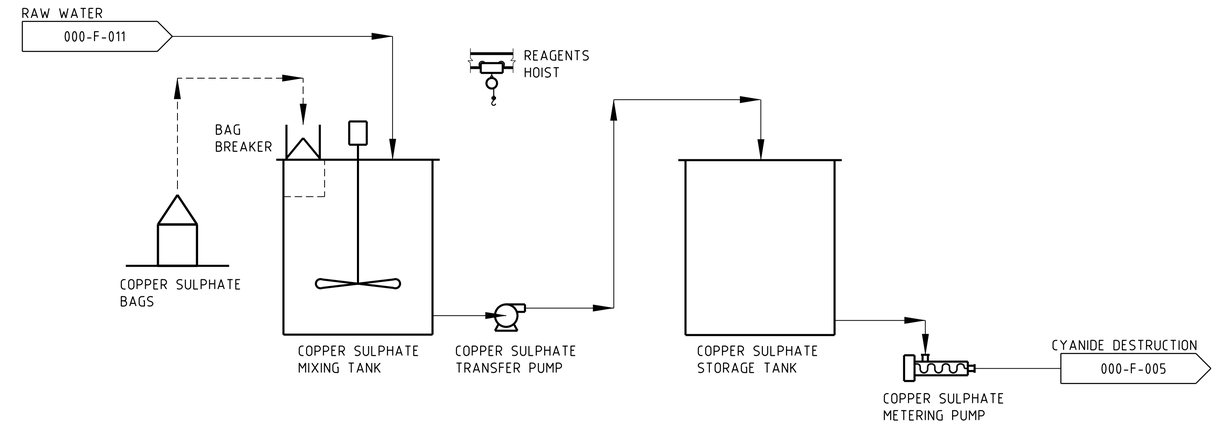
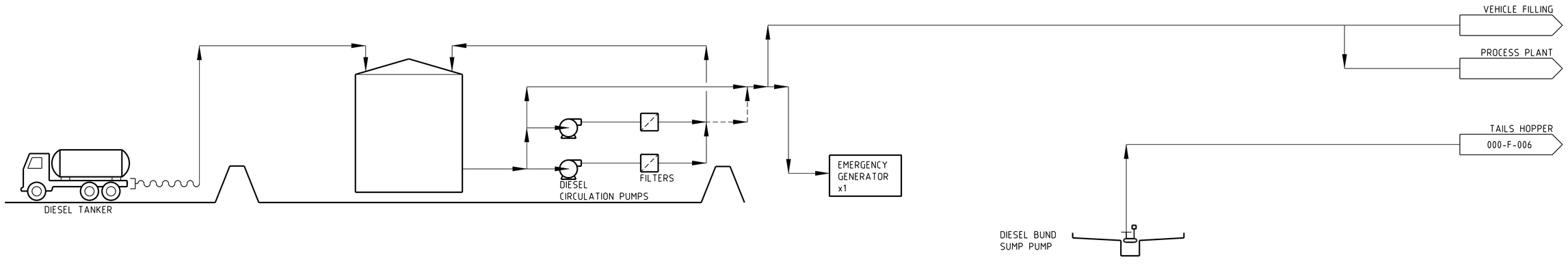


CAUSTIC



COPPER SULPHATE



DIESEL STORAGE & RETICULATION

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
		C	24JUL14	RE-ISSUED FOR STUDY	SH		AC			DM	
		B	17JUN14	ISSUED FOR STUDY	SH		AC			DM	
		A	29MAY14	ISSUED FOR REVIEW - PRE FEASIBILITY STUDY	SH		AC			DM	

CLIENT: CONDOR GOLD PLC

PROJECT: LA INDIA PROJECT

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DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE: REAGENTS PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-010	C

DRAWN: SH DATE: 14MAY14

RAW WATER SUPPLY (DEWATERING WELLS)

BL

RAW WATER TANK

GLAND WATER PUMPS

RAW WATER PUMPS

STRIPPING WATER TREATMENT PLANT

VENDOR

PROCESS WATER TANK
000-F-014

MILL DISCHARGE PUMPS
000-F-002

TAILINGS PUMPS
000-F-006

TREATED WATER TANK
000-F-007

SAFETY SHOWERS
000-F-015

MINE SERVICES
000-F-016

CRUSHING DUST SUPPRESSION
000-F-001

TRANSFER WATER/ ACID WASH
000-F-007

LIME SLAKING
000-F-013

HCL MIXING TANK
000-F-011

CAUSTIC MIXING TANK
000-F-010

COPPER SULPHATE MIXING
000-F-010

DETOX AREA
000-F-005

TRASH SCREEN
000-F-002

CARBON SCREENS
000-F-004

QUENCH VESSEL
000-F-009

FLOCCULANT MIXING
000-F-013

GOLD ROOM MEZZANINE

GOLD ROOM GROUND

PLANT OFFICE

REAGENTS

REAGENTS MEZZANINE

COMPRESSOR HOUSE

REAGENTS STORE

HV SWITCH ROOM TRANSFORMER BAY

LV SWITCH ROOM TRANSFORMER BAY

HIGH SECURITY

WORKSHOP

WORKSHOP

WORKSHOP

LIME

TRANSFER STATION

CRUSHING

CRUSHING

MILLING CYCLONES

MILLING OPERATIONS

MILLING GROUND

MILLING

MINE SERVICES
000-F-016

VENDOR PACKAGE

ELECTRIC FIRE WATER PUMP

FIRE WATER PUMP (DIESEL)

FIRE WATER JOCKEY PUMP

LEGEND

INTERMITTENT

FUTURE

BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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		B	17JUN14	ISSUED FOR STUDY	SH		AC			DM	
		A	29MAY14	ISSUED FOR REVIEW - PRE FEASIBILITY STUDY	SH		AC			DM	

CLIENT CONDOR GOLD PLC

PROJECT LA INDIA PROJECT

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DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE

RAW WATER DISTRIBUTION

PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-011	C

DRAWN SH DATE 14MAY14

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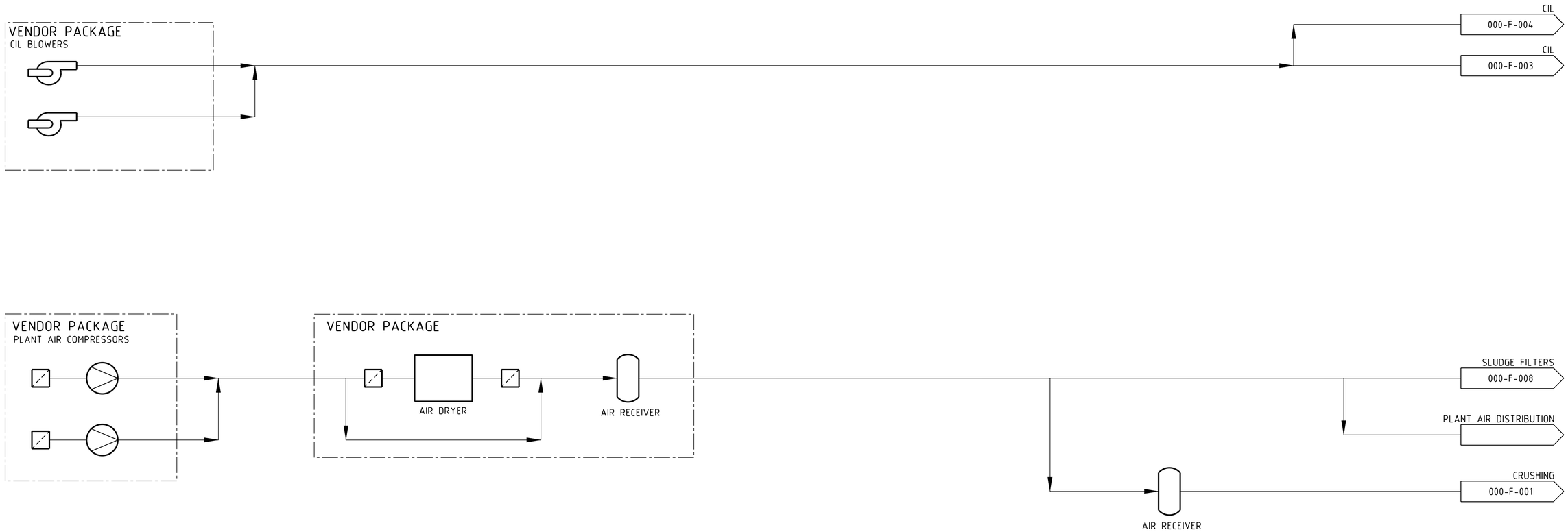

LEGEND

------ INTERMITTENT

FUTURE

BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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		B	17JUN14	ISSUED FOR STUDY	SH		AC			DM	
		A	29MAY14	ISSUED FOR REVIEW - PRE FEASIBILITY STUDY	SH		AC			DM	

CLIENT CONDOR GOLD PLC

PROJECT LA INDIA PROJECT

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DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE

AIR SERVICES

PROCESS FLOW DIAGRAM

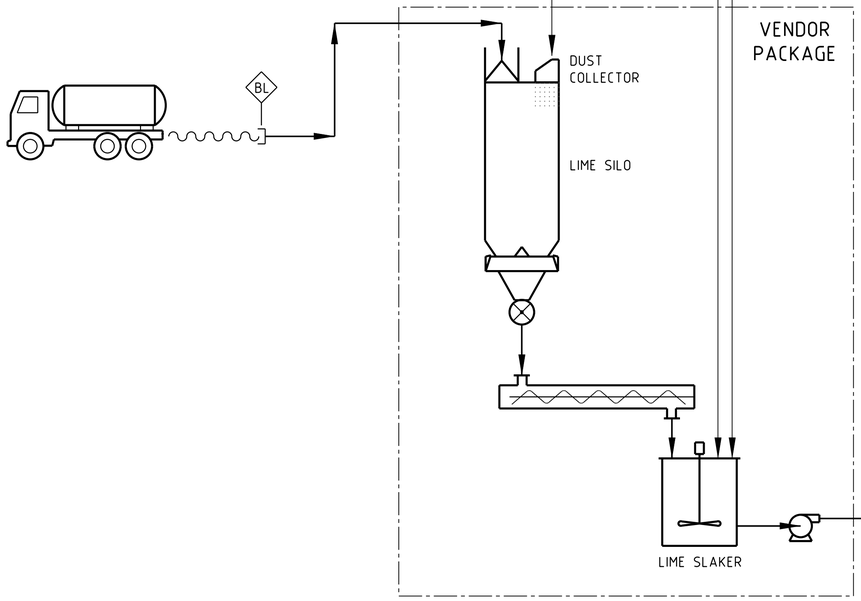
SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-012	C

DRAWN	DATE
SH	14MAY14

SLAKED LIME RETURN
000-F-015

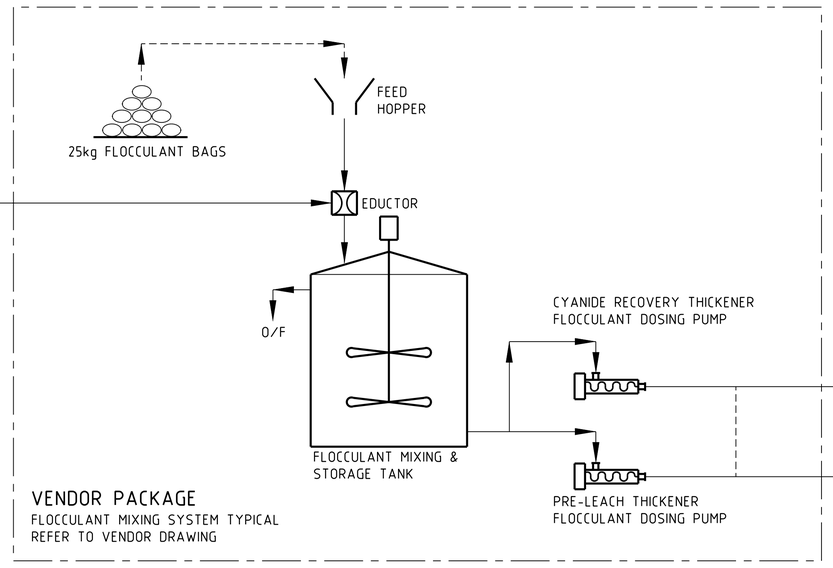
RAW WATER
000-F-011

PLANT AIR
000-F-012



SAG MILL
000-F-002

LIME SLAKING



RAW WATER
000-F-011

CYANIDE RECOVERY THICKENER
000-F-005

PRE-LEACH THICKENER
000-F-002

FLOCCULANT

LEGEND

INTERMITTENT
FUTURE
BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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		B	17JUN14	ISSUED FOR STUDY	SH		AC			DM	
		A	29MAY14	ISSUED FOR REVIEW - PRE FEASIBILITY STUDY	SH		AC			DM	

CLIENT CONDOR GOLD PLC

PROJECT LA INDIA PROJECT

DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
REAGENTS
LIME SLAKING & FLOCCULANT
PROCESS FLOW DIAGRAM

Lycopodium
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SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-013	C

DRAWN SH | DATE 14MAY14

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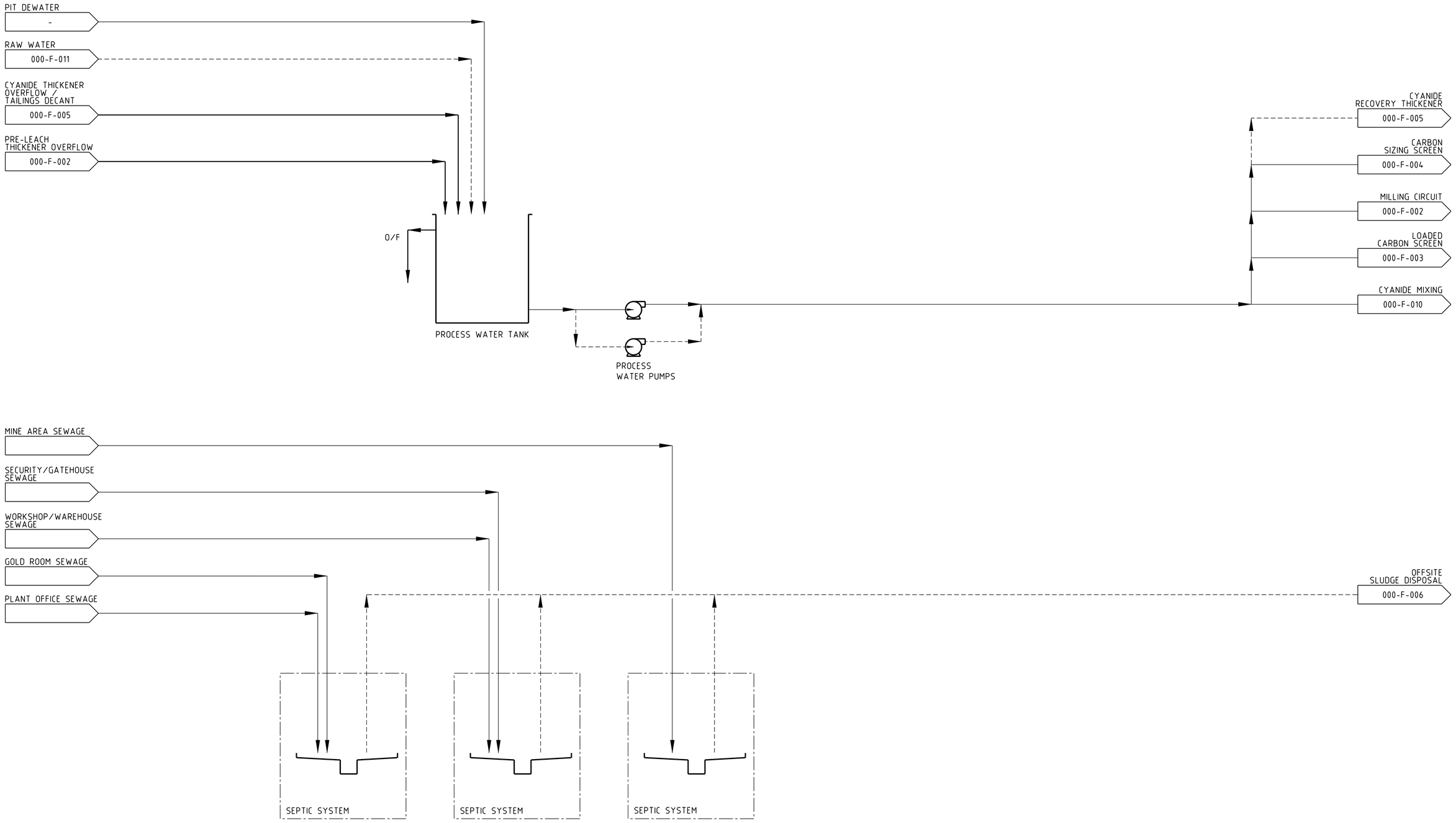

LEGEND

------ INTERMITTENT

FUTURE

BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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		B	17JUN14	ISSUED FOR STUDY	SH		AC			DM	
		A	29MAY14	ISSUED FOR REVIEW - PRE FEASIBILITY STUDY	SH		AC			DM	

CLIENT: CONDOR GOLD PLC

PROJECT: LA INDIA PROJECT

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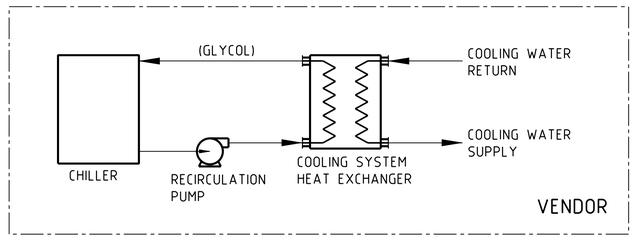
DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE: PROCESS WATER SERVICES AND SEWAGE PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-014	C

DRAWN: SH DATE: 14MAY14



MILL LUBE COOLING SYSTEM

CYANIDE DESTRUCTION AREA
CYANIDE AREA
CAUSTIC AREA
HCl AREA
MAINTENANCE WORKSHOP
ELUTION TOP
ELUTION GROUND
GOLD ROOM MEZZANINE
GOLD ROOM GROUND
REGEN KILN
CIL TANKS 1 & 2
MILL GROUND LEVEL
MILL OPERATING LEVEL
LIME SILO FLOOR
LIME SILO ROTARY VALVE
CRUSHER

ADMIN AREA
MAINTENANCE WORKSHOP
CONTROL ROOM
CN ANALYSER 000-F-003

RAW WATER 000-F-011

LEGEND

------ INTERMITTENT
FUTURE
BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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CLIENT CONDOR GOLD PLC

PROJECT LA INDIA PROJECT

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DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
SAFETY SHOWERS
AND COOLING WATER
PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-015	C

DRAWN SH DATE 14MAY14

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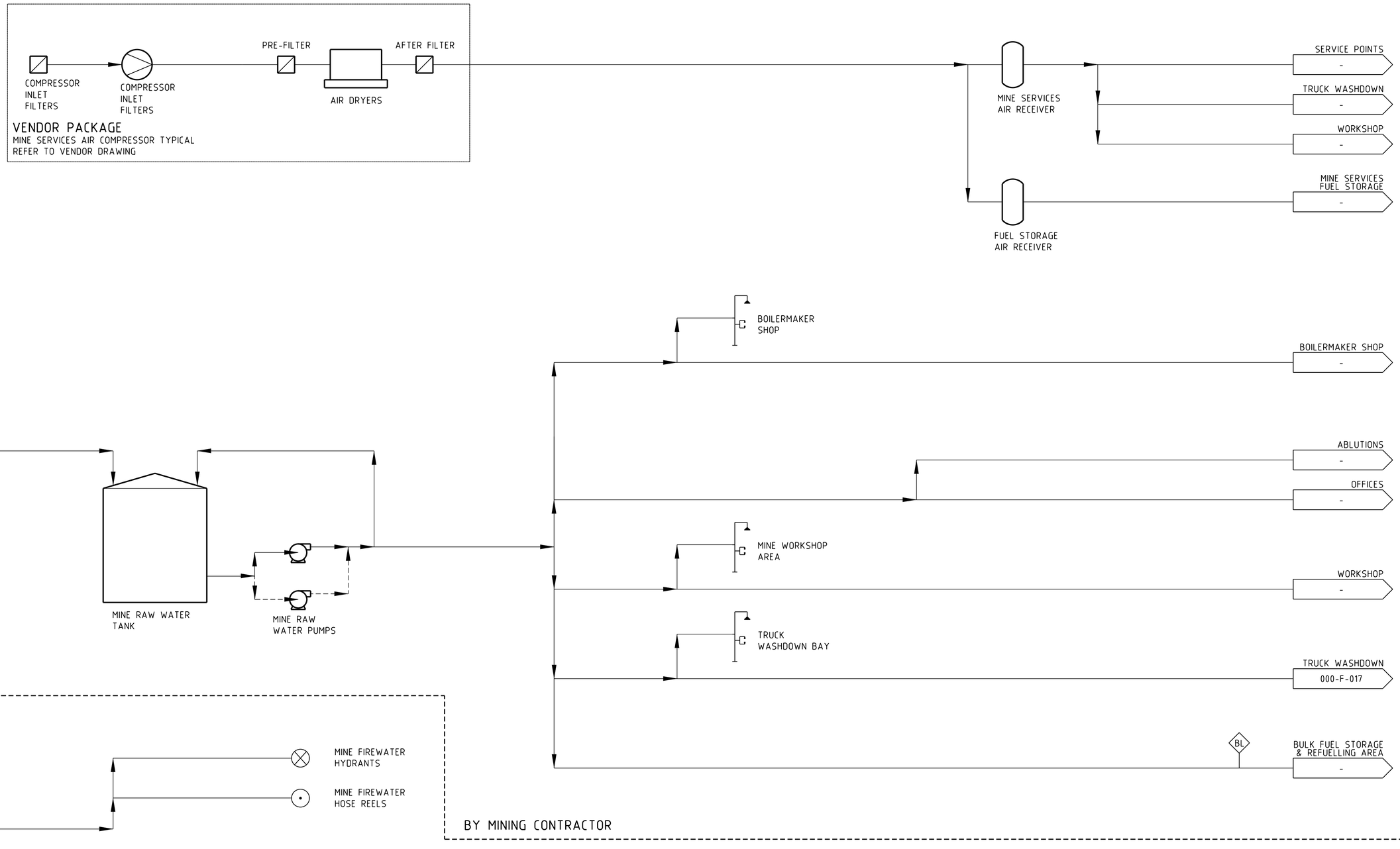

LEGEND

- INTERMITTENT
- FUTURE
- BL — BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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CLIENT: CONDOR GOLD PLC

PROJECT: LA INDIA PROJECT

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DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
MINE SERVICES

PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-016	C

DRAWN	DATE
SH	14MAY14

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RAW WATER
000-F-016

BL

HP SPRAY MACHINE

TRUCK WASH BAY MONITORS

HOSE REEL

HOSE REEL

TRUCK WASH DOWN BAY

NOTE 1

O/F

SITE DRAINAGE
-

DRIVE IN SETTLING SUMP

MINE DRIVE IN SETTLING SUMP PUMP

DRIVE IN SETTLING SUMP PUMP HOIST

VENDOR PACKAGE
OIL/WATER SEPARATOR TYPICAL
REFER TO VENDOR DRAWING

WASTE OIL

MINE TRUCK WASH PUMP

MINE TRUCK FILL PUMP

MINE RECYCLE WATER TANK

SAMPLE POINT

STAND PIPE

BL

MINE WATER TRUCK

BY MINING CONTRACTOR

NOTES:

1. HP SPRAY MACHINE CAN CONNECT TO ANY OF THE SERVICE POINTS SHOWN.

LEGEND

INTERMITTENT

FUTURE

BL BATTERY LIMIT

DRG NO	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
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CLIENT CONDOR GOLD PLC

PROJECT LA INDIA PROJECT

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DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
MINE SERVICES
TRUCK WASHDOWN
PROCESS FLOW DIAGRAM

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-F-017	C

DRAWN SH | DATE 14MAY14

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APPENDIX 2

PROCESS DESIGN CRITERIA

Condor Gold PLC

LA INDIA GOLD PROJECT

2300 TPD PRIMARY THROUGHPUT

PROCESS DESIGN CRITERIA

PFS Study

July 17, 2014

Prepared By:

Lycopodium

Job No:5032

REV NO.	DATE	DESCRIPTION OF REVISION	BY	DESIGN APPROVAL	PROJECT APPROVAL
D	17/07/2014	Re-Issued For Study	AC	BP	DM
B/C	06/06/2014	Issued For Study	AC	BP	DM
A	18/05/2014	Issued For Review	AC	BP	DM

Lycopodium

Client	CONDOR GOLD PLC	Date	17-Jul-14	Revision	D
Project	LA INDIA PFS			Prepared	AC
Document	PROCESS DESIGN CRITERIA	Job Number	5032	Checked	BP / DG

Client	Client Reference Documents / Client Advice
Agreed	Agreement of Meeting Between Owner and Lycopodium
Testwork	Metallurgical Testwork
Consult	External Consultants (SRK, etc)
Lyco	Lycopodium Experience
Industry	Generally Accepted Industry Practice
Calc	Calculated from given data
Vendor	Vendor Recommendations or Standard Specifications
Assumed	Assumption requiring verification

				Units	Value	Rev	Source
1.0 SITE CHARACTERISTICS							
	Location (process plant)				70 km North of Managua in Nicaragua	A	Client
	Site Data						
		Mean Project Site Elevation		m	406	A	Client
		Approximate Average Barometric Pressure		kPa	101.06	A	Client
		Maximum Temperature		°C	32.8	A	Client
		Minimum Temperature		°C	17.5	A	Client
		Average Daily Maximum		°C	30.0	A	Client
		Average Daily Minimum		°C	21.4	A	Client
confirm pan or lake?		Average Yearly Evaporation		mm	182.4	A	Client
		Average Annual Precipitation		mm	1239	A	Client
		Maximum 24 hr Rainfall		mm	116.0	A	Client
2.0 ORE CHARACTERISTICS							
	Ore						
		Ore source			La India Open Pit - Primary Ore Blend	A	Client
		Throughput ROM - Plant		dry t/d	2,300	A	Client
				dry t/a	805,000	A	Calc
		Ore grade - design	Au	g/t	3.40	A	Client
			Ag	g/t	5.80	A	Client
		Moisture - design		%	5.0	A	Assumed
		Bulk density		t/m^3	1.60	A	Assumed
		Ore SG			2.54	A	Testwork
		35 h Leach Ag Extraction	Design	%	90.2	A	Calc
		35 h Leach Au Extraction	Design	%	69.9	A	Calc
		Ore Axb			40.0	B	Testwork
		Ore BWi		kWh/t	21.9	B	Testwork
		Abrasion Index			1.08	D	Testwork
3.0 OPERATING SCHEDULE							
		Scheduled working days		d/a	350	A	Agreed
				h/a	8400	D	Calc
	CRUSHING PLANT OPERATION						
		Operating hours per day		h	24	A	Agreed
		Availability		%	75.0	A	Lyco
		Operating hours per year		h	6,300	A	Calc
		Feed rate	Nominal	dry t/h	128	A	Calc
			Nominal	wet t/h	135	A	Calc
	MILLING AND GRAVITY PLANT OPERATION						
		Operating hours per day		h	24	A	Agreed
		Availability		%	92.0	B	Agreed
		Operating hours per year		h	7,728	A	Calc
		Feed rate	Nominal	dry t/h	104.2	A	Calc
			Nominal	wet t/h	110	A	Calc
4.0 CRUSHING PLANT							
	Ore will be trucked to the ROM pad and subsequently reclaimed by FEL to the ROM Feed Bin feeding the primary jaw crusher. ROM ore can also be direct dumped into the ROM Feed Bin. Ore will be crushed by a primary jaw crusher and conveyed overland to a 0.5 hr surge bin. Feed to the single stage SAG mill will be drawn from the bottom of the surge bin while excess crushed ore will overflow the bin and be conveyed to a dead stockpile for later reclaim by FEL. A rock breaker will be provided at the crusher to break oversized feed.						A	Lyco
	FEL Type				Cat 988H or similar	A	Lyco
	Ore	R.O.M. size, 100% passing		mm	600	A	Agreed
	Grizzly			mm	600x600	A	Agreed
	ROM Bin	Capacity	Live	wet t	40	A	Lyco
	Primary Feeder						
		Type			Apron feeder	A	Lyco
		Capacity	Nominal	wet t/h	135	A	Calc
	Primary Crusher						
		Type			C100	A	Lyco
		Throughput		wet t/h	135	A	Calc
		Crusher CSS		mm	100	A	Lyco
			P100	mm	150	D	Lyco
			P80	mm	88	A	Lyco
		Installed Power		kW	110	A	Lyco
	Crusher Discharge Conveyor						
		Capacity		wet t/h	135	A	Calc
	Surge Bin						
		Capacity		hours	0.5	A	Lyco
				tonnes	55	A	Calc
	Stockpile Feed Conveyor						
		Capacity		wet t/h	135	A	Calc
	Stockpile	Capacity	Nominal	dry tonnes	2500	A	Lyco
				hours	24	A	Calc
	SAG Mill Feed Conveyor						
		Capacity	Design	dry t/h	104	A	Calc
				wet t/h	110	A	Calc

Client	CONDOR GOLD PLC	Date	17-Jul-14	Revision	D
Project	LA INDIA PFS			Prepared	AC
Document	PROCESS DESIGN CRITERIA	Job Number	5032	Checked	BP / DG

5.0 GRINDING

The SAG mill will operate in closed circuit with classification cyclones to produce a leach feed stream that will gravity flow to the pre-leach thickener. **A** Lyco

SAG Mill	Type			Single Stage SAG w Grate Discharge	A	Lyco
	Size	Diameter	m	6.71	A	Lyco
		EGL	m	5.90	A	Lyco
		Design Pinion Maximum	kW	3682	A	Lyco
		Minimum Motor Power Required	kW	3876	A	Lyco
	Speed		%Nc	60 - 80	B	Lyco

Ore parameters for Mill Design

	Axb		40	A	Testwork
	Bwi	kWh/t	21.9	A	Testwork
	Specific power	kWh/t	28.4	A	Lyco
	Throughput	dry t/h	104	A	Calc
	Product size	P_{80} µm	75	A	Testwork
Ball Charge Volume	Maximum	%	15	A	Lyco
Mill feed	F80	mm	88	A	Lyco
Lining			Polymet	A	Lyco
Ball Size, max		mm	125	A	Lyco
SAG Mill Discharge % solids		% w/w	75	A	Lyco

Pebble Crusher (Future)

A pebble crusher is included as contingency in the design in case the grind size is too fine. In this case, the SAG mill trommel screen oversize is fed to a pebble crusher, which is installed with a surge bin before allowing for choke feeding of the crusher. For even feed distribution to the SAG mill the crusher will need to be trickle fed. Tramp metal removal followed by metal detection will be required on feed to pebble crusher. The pebble crusher will be installed in year 2 of operations if required. **B** Lyco

Pebble Crusher			HP100 or equivalent (fine cavity)	A	Lyco
Pebble Crushing Work Index		kWh/t	1.5	A	Lyco
Pebble Top Size	F100	mm	50	A	Lyco
Pebble Crusher CSS		mm	10	A	Lyco
Crusher Recycle		% of new feed	15	A	Lyco
Pebble Crusher Feedrate		dry t/h	16	A	Calc
Crusher Feed Rate @ CSS		dry t/h	60	D	Vendor
Crusher Feed Bin Capacity		t	4	A	Lyco
Crusher Operating Time		%	26	A	Calc

Classifying Cyclones

Target product size	P80	micron	75	A	Testwork
Circulating load, % of new mill feed		%	326%	A	Lyco
Pulp density	feed	% solids	61%	A	Lyco
	overflow	% solids	38%	A	Lyco
	underflow	% solids	74%	A	Lyco
	overflow	SG	1.32	A	Calc
Operating Pressure		kPa	117	A	Lyco
Size		mm	250	A	Lyco
Operating	Duty		6	A	Lyco
	Standby		2	A	Lyco
	Total ports on cluster		8	A	Lyco

7.0 TRASH SCREENING

Cyclone overflow will discharge to the trash screen. Trash screen undersize will gravitate to the pre-leach thickener. Trash will discharge to a container for further disposal. Pre-leach thickener underflow will be pumped to the leach feed distributor and thickener overflow will report to the process water tank. The thickener feed density will be 20% solids when processing North and Central material and drop to 15% solids when processing South material. **A** Lyco

Trash Screen

Type			Vibrating, single deck	A	Lyco
Screen deck			Polyurethane	A	Lyco
Aperture		mm	0.63 x 18	A	Lyco
Trash discharge			Bin	A	Lyco

Pre-Leach Thickener

Type			High Rate	B	Lyco
Slurry Feed Concentration		% solids	38	A	Testwork
Diluted Feed Concentration (prior to internal dilution)		% solids	30	B	Lyco
Design Basis Loading		t/m^2hr	2.61	D	Testwork
Thickener Diameter		m	13	B	Vendor
Flocculant Dosage	Range	g/t	40-55	A	Testwork
	Ave Consumption	g/t	48	A	Lyco
Underflow Density	Design	% solids	48	A	Lyco
		SG	1.41	A	Calc

Client	CONDOR GOLD PLC	Date	17-Jul-14	Revision	D
Project	LA INDIA PFS			Prepared	AC
Document	PROCESS DESIGN CRITERIA	Job Number	5032	Checked	BP / DG

8.0 LEACH AND ADSORPTION

The CIL circuit will consist of 1 leach tank + 6 CIL tanks with counter current carbon advance.						A	Lyco
All tanks will be sparged with air. The circuit is sized on the average recoveries and grade over LOM.						A	Lyco
Leach feed will be sampled by a two stage sampler for metallurgical accounting.						B	Lyco
Leach Circuit							
Type				**Hybrid CIL 1 Leach + 6 CIL**		D	Lyco
Number of CIL tanks		#		**6**		A	Lyco
Total Number of Tanks		#		**7**		A	Lyco
			gAu/t		gAg/t		
Solids head grade	Design		3.40		5.80	A	Agreed
Tail solids grade			**0.33**		**1.74**	A	Testwork/Calc
Tail solution grade	Target		**<0.015**		**<0.015**	A	Industry
Design slurry residence time		hrs		**35**		A	Lyco
Design carbon concentration tank 2		g/L		**12.6**		A	Calc
Design carbon concentration tanks 2-6		g/L		**12.6**		A	Calc
Tank Size Design total live volume (incl carbon)		m^3		5529		A	Calc
Design live volume per tank		m^3		790		A	Calc
CIL Parameters							
Feedrate		tph		104		A	Calc
		% solids		48%		A	Calc
		m^3/h		154		A	Calc
WAD CN in CIL tails	Max	mg/L		**200**		A	Assumed
Loaded carbon		g Au/t		1884		A	Calc
		g Ag/t		2857		A	Calc
Barren carbon		g Au/t		**100**		A	Assumed
		g Ag/t		**500**		A	Assumed
Carbon advance rate		t/d		**4.29**		A	Lyco
		t/week		30.0		A	Calc
Carbon Slurry Transfer Tank 2		h/d		**6.0**		A	Lyco
		m^3/h		57		A	Calc
Carbon Slurry Transfer Tanks 3 -7		h/d		**10.0**		A	Lyco
		m^3/h		34		A	Calc
Carbon addition							
Carbon Bulk density, dry		t/m^3		**0.47**		A	Industry
Carbon specific gravity		SG		**1.7**		A	Industry
Carbon Size				**1.68 x 2.39**		A	Industry
Carbon Type				**Pica G210-AS or equiv**		A	Lyco
Total Carbon in Circuit		t		60		A	Calc
Consumption rate		kg/t ore		**0.040**		A	Lyco
Consumption per day		kg/day		92		A	Calc
CIL Aeration							
Type				**Blower Air**		A	Lyco
Oxygen Uptake Rate							
	CIL Tank 1	mg O_2/L/min	**0.04**		**0.04**	A	Assumed
	CIL Tanks 2-4	mg O_2/L/min	**0.03**		**0.03**	A	Assumed
	CIL Tanks 5-6	mg O_2/L/min	**0.02**		**0.02**	A	Assumed
Uptake Efficiency		%		**3.5%**		A	Lyco
Oxygen % in Air		% w		**23.2%**		A	Assumed
Density of Air (0°C, 0% RH, and 101.3kPa)		kg/m^3		**1.29**		A	Assumed
Oxygen Addition Rate							
	CIL Tank 1	Nm^3/h/tank		181		A	Calc
	CIL Tank 2-4	Nm^3/h/tank		136		A	Calc
	CIL Tanks 5-6	Nm^3/h/tank		90		A	Calc
	CIL air - Total Flowrate	Nm^3/h		769		A	Calc
Intertank Screen							
Type				**Vertical, Air Swept**		A	Lyco
Aperture		mm		**0.83**		A	Lyco
Carbon Safety Screen							
Type				**Vibrating, Horizontal**		A	Lyco
Deck				**Polyurethane**		A	Lyco
Aperture		mm		**1.0 x 18**		A	Lyco
Loaded Carbon Recovery Screen							
Type				**Vibrating, Horizontal**		A	Lyco
Deck				**Polyurethane**		A	Lyco
Aperture		mm		**0.7x 18**		A	Lyco
Cyanide Addition							
Total CN^- in Tails		mg/L		150.0		A	Lyco/Testwork
Rate of NaCN Consumption	Operating	kg/t ore		**0.65**		A	Testwork
(48hr)	Design	kg/t ore		**0.94**		A	Testwork
Lime Addition							
Consumption	Operating	kg/t ore		**0.93**		A	Testwork
	Design	kg/t ore		**1.40**		D	Lyco
Available CaO, testwork		%		**90%**		A	Assumed
Available CaO, plant supply		%		90		A	Assumed

9.0 ELUTION, ELECTROWINNING, CARBON REACTIVATION

Loaded carbon will be stripped by the AARL method. The carbon will gravitate from the loaded carbon recovery screen to the acid wash column where acid washing will be performed with dilute hydrochloric acid. The carbon will then be transferred to the elution column for gold elution. Gold in solution will be recovered by electrowinning. Gold sludge will be smelted in a diesel fired furnace to doré bars. | A | Lyco

AARL Circuit Design

No. of Strips		strip/week	6	A	Lyco
Carbon recovered from CIL		t/d	4.29	A	Calc
		t/strip	5.00	A	Calc
Carbon Batch Volume		m^3	9.1	A	Calc
Solution Flowrate		BV/h	2	A	Lyco
		m^3/h	18.2	A	Calc

Acid Wash

Acid Type			HCL	A	Lyco
Delivered Acid Strength		% HCL w/w	32	A	Industry
Wash Acid Strength		% HCl w/w	3.0	A	Lyco
Acid Soak Volume		BV	0.70	A	Lyco
		m^3	6.4	A	Calc
Acid Rinse Volume		BV	3.0	A	Lyco
		m^3	27.4	A	Calc
Acid Mix & Storage Tank Volume		BV	0.70	A	Lyco
	Minimum	m^3	6.4	A	Calc
	Design live	m^3	5.0	A	Lyco
Acid Required @ delivered conc		kg/strip	598	A	Calc
Carbon Transfer Water Required per Batch		m^3	25.0	A	Calc

Solution Presoak

Presoak Time		h	0.5	A	Industry
Cyanide Strength		% w/v	2.0	A	Industry
Cyanide Required		kg NaCN/strip	127.7	A	Calc
Caustic Strength		% w/v	2.0	A	Industry
Caustic Required		kg NaOH/strip	127.7	A	Calc
Eluate Volume		BV	0.70	A	Industry
		m^3	6.4	A	Calc

Elution/Electrowinning

Elution Volume		BV	8.0	A	Industry
Elution Time		h	4.0	A	Calc
Elution Cooling		BV	2.0	A	Industry
Cooling Time		h	1.0	A	Calc
Elution Temperature		°C	120	A	Lyco
No of Electrowinning Cells		#	3 (800 series cells)	A	Lyco
Type of Cathode			Stainless Steel Wool Mesh	A	Industry
Electrowinning Time		h	7	A	Lyco
Cathode Size		m^2	0.525	A	Lyco
Cathodes per Cell		#	12	A	Lyco
Cell Voltage		V	3	A	Industry
Current Density		A/m^2	14	A	Industry
Current Efficiency		%	15	A	Industry
Mass of Metal Produced		kg/strip	20.7	A	Calc
Number of Rectifiers			3	A	Lyco
Selected Rectifier Size		A / cell	2,000	A	Lyco
Elution Heater	Type		Diesel	A	Lyco
	Power	kW	1575	A	Calc
Barren soln gold grade	Target	mg/L	<5	A	Industry
Target Caustic in Pregnant Solution		% w/v	0.5	A	Industry
Additional Caustic		kg NaOH/strip	237	A	Calc

Smelting

The sludge from the cathodes will be filtered, dried and direct smelted in a diesel fired furnace. | A | Lyco

Carbon Dewatering Screen

Type			Vibrating screen	A	Lyco
Deck			Polyurethane	A	Lyco
Aperture		mm	0.83 x 18	A	Lyco

Carbon Reactivation

Design Note: The carbon hopper will have an overflow at the 3.75 tonne level to allow for only 75% of the carbon to be regenerated each elution cycle. The overflow can be blocked off to acheive full capacity. | B | Lyco

Kiln feed hopper capacity		t	6.0	B	Lyco
Kiln Type			Horizontal Rotary	A	Lyco
Capacity	Minimum	kg/h	134	B	Calc
Operating Temperature		°C	700	A	Industry
Retention Time at Operating °C		min	20	A	Industry
Operating Time		h/d	24	A	Lyco
Fuel		Type	HFO	A	Lyco

Carbon Sizing Screen

Type			Vibrating, Horizontal	A	Lyco
Aperture		mm	0.83 x 18	A	Lyco

10.0 CYANIDE RECOVERY THICKENER

Cyanide will be recovered from the CIL tailings by washing with tailings reclaim water. Thickener overflow is recycled back into the grinding circuit to via the process water tank. Thickener underflow is forwarded to the cyanide destruction circuit. | B | Lyco

Thickener

Type			High Rate	B	Lyco
Slurry Feed Concentration		% solids	48	B	Lyco
Diluted Feed Concentration (prior to internal dilution)		% solids	35	B	Lyco
Design Basis Loading		t/m^2hr	2.245	D	Testwork
Thickener Diameter		m	13	B	Vendor
Flocculant Dosage	Range	g/t	40-55	B	Testwork
	Ave Consumption	g/t	48	B	Lyco
Underflow Density	Design	% solids	50	B	Lyco
		SG	1.44	B	Calc

11.0 CYANIDE TREATMENT CIRCUIT

Tailings from the CIL circuit will be treated by the SO_2/air process to destroy free and WAD cyanide prior to disposal in the tailings storage facility.				A	Testwork
Inlet pH		pH	10.1	A	Testwork
Feed Solids		t/h	104	A	Calc
Feed Solids		%	50	A	Lyco
Design Inlet Total CN Concentration		mg/L	175	A	Lyco
Operating Inlet Total CN Concentration		mg/L	90	B	Lyco
Design Sodium Metabisulphite Addition		kg/kg TCN	8	C	Testwork
Operating Sodium Metabisulphite Addition		kg/kg TCN	9.41	A	Testwork
Air sparge rate		$Nm^3/h/m^3$	1.5	A	Industry
Lime Addition		g/g TCN	4.4	A	Testwork
Target Discharge Total CN^-		mg/L	30.0	C	Agreed
Design Copper Sulphate Consumption		kg/kg TCN	1	A	Lyco
Operating Copper Sulphate Consumption		kg/kg TCN	0.87	A	Testwork
Target pH		pH	8.6	A	Testwork
Total Residence Time (in series)		min	120	A	Calc
Residence Time per Reactor		min	60	A	Testwork
Gas Hold up Allowance		%	15	A	Industry
# of Reactors		#	2	A	Lyco
Reactors are designed and operated in series but can operate in parallel. The event pond is used as emergency storage capacity in the event of equipment failure.				A	Lyco

12.0 TAILINGS DISPOSAL

Tailings Storage Facility

Type			Valley Impoundment	A	Client
Net Catchment Influx		m^3/h	82	B	Calc / Lyco

13.0 REAGENT STORAGE/MIXING

Lime

Consumption - Lime is slaked and pumped to the SAG mill feed and to the detox circuit.				B	Lyco
Leach circuit		kg/h	97	A	Calc
		t/d	2.3	A	Calc
Cyanide Treatment		kg/h	42	B	Calc
		t/d	1.0	B	Calc
Total		t/d	3.3	B	Calc
Chemical form			CaO - Quicklime	A	Assumed
Physical Form		% CaO	90	A	Assumed
Delivery/Packing			Bulk Tanker	A	Assumed
Delivery size		t	35	A	Assumed
Storage Method			Silo	A	Lyco
Storage Capacity	Live	t	65	A	Lyco
No allowance has been made for effluent treatment lime consumption				A	Lyco

NaCN

Consumption - Dry briquettes are added to the mix tank for dissolution in water and transferred to the storage tank for circulation.					
CIL Solid NaCN	Nominal	kg/h	68	A	Calc
Elution Solid NaCN	Design	kg/strip	128	A	Calc
Total Solid NaCN		kg/d	1753	A	Calc
Solution Strength		w/v% NaCN	20%	A	Industry
Physical form supplied			Dry Briquettes	A	Industry
Delivery/Packing		t / package	1	D	Industry
Total Solution NaCN		m^3/d	7.97	A	Calc

NaOH

Dry pellets added to mix tank for dissolution in water and dosed from the mix tank.				A	Lyco
Elution Solid NaOH	Design	kg/strip	365	A	Calc
Cyanide Makeup		kg/d	48	A	Calc
Total Solid NaOH		kg/d	413	A	Calc
Solution Strength		w/v% NaOH	20%	A	Industry
Physical form supplied			Dry Pellets	A	Industry
Delivery/Packing		bags (kg)	25	A	Lyco
Total Solution NaOH		m^3/d	1.9	A	Calc

HCl

Consumption		kg HCl 32% /strip	598	A	Calc
		m^3 conc acid/strip	0.516	A	Calc
		S.G. of acid supply	1.16	A	Industry
Delivery/Packing		Packaging	IBC	A	Lyco
		m^3	1	A	Industry
Solution Mix Strength		%w/v	3.0	A	Industry

Smelting Flux

Silica	25 kg bags	kg/1000oz	10	A	Assumed
		kg/d	5.73	A	Calc
Borax	25 kg bags	kg/1000oz	15	A	Assumed
		kg/d	8.59	A	Calc
Sodium Nitrate	25 kg bags	kg/1000oz	15	A	Assumed
		kg/d	8.59	A	Calc
Fluorspar	25 kg bags	kg/1000oz	5	A	Assumed
		kg/d	2.86	A	Calc

Sodium Metabisulphite

SMBS solution is prepared in a mixing tank and transferred to a storage tank for dosing.

Physical Form		**Granular**	**A**	Industry
Dosing Method		**Dosing Pump**	**A**	Lyco
Solution Strength	g/L	**250**	**A**	Lyco
Delivery Packaging		**1t Bulk Bag**	**A**	Lyco
Reagent Requirement	kg/h	59	**C**	Calc

Copper Sulphate Pentahydrate

Copper sulphate solution is prepared in a mixing/storage tank and dosed.

Physical Form		**Granular**	**A**	Industry
Dosing Method		**Dosing Pump**	**A**	Lyco
Solution Strength	g/L	**250**	**A**	Lyco
Delivery Packaging		**1t Bulk Bag**	**A**	Lyco
Reagent Requirement	kg/h	8.2	**A**	Calc

14.0 WATER SYSTEM

Process Water Tank	Demand	m^3/h	233	**B**	Mass Balance
	Residence Time	hours	**2**	**B**	Lyco
	Tank Capacity	m^3	466	**B**	Calc
Raw Water (from mine dewater)	Nominal	m^3/h	30	**B**	Mass Balance
	Design	m^3/h	**40**	**A**	Lyco
	Residence Time	hours	**8**	**A**	Lyco
	Capacity	m^3	320	**B**	Calc
Fire Water Reserve	Capacity	m^3	**200**	**A**	Assumed
Raw Water Tank	Total Capacity	m^3	520	**B**	Calc

Potable Water

Potable water for consumption will be purchased locally. Raw water is considered sufficient for other potable water needs.

Domestic Usage Rate	$m^3/d/person$	**0.2**	**A**	Industry
Number of personnel	#	**40**	**A**	Assumed
Total Potable/Raw Water Consumed	m^3/d	8	**A**	Calc
Total Potable Water Usage Rate	m^3/h	0.3	**A**	Calc

Crushing Circuit, Flowsheet 5027-F-001

Stream Name		ROM Ore Feed to Crusher	SAG Mill Feed	CaO Addition to SAG Feed	Dust Suppression Water	Pebble Crusher Feed Bin Rate	Pebble Crusher Discharge Bin Rate	CaO Addition to Detox
Stream No		1	2	3	4	5	6	7
Solids	t/h	127.8	104.2	0.10		0.00	0.00	0.042
Solution	t/h	6.7	5.5		**8.0**	0.0	0.0	0.21
Total Stream	t/h	134.5	109.6	0.10	8.0	0.00	0.00	0.250
% Solids	%w/w	95.0	95.0	100		**90.0**	**90.0**	**20.0**
Solids SG		2.54	2.54	2.24		2.24	2.24	3.35
Solution SG		**1.00**	1.00		1.00	1.00	1.00	
Volumetric Flow	m^3/h		46.5	0.04		0.00	0.00	0.07
Slurry SG			2.36			1.99	1.99	

Milling Circuit, Flowsheet 5027-F-002

Stream Name		New SAG Mill Feed	Total Mill Feed	SAG Mill Feed Dilution Water	SAG Mill Discharge Trommel Water	SAG Mill Discharge	Mill Discharge Hopper Dilution Water	Cyclone Feed Pumps	Gland Water to Cyclone Feed Pumps	Cyclone Overflow	Cyclone Underflow	Trash Screen Feed	Trash Screen Sprays	Pre-Leach Thickener Dilution Water	Pre-Leach Diluted Thickener Feed	Pre-Leach Thickener Overflow	Pre-Leach Thickener Underflow	Pre-Leach Thickener Underflow Gland
Stream No		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Solids	t/h	104.2	443.8	0.0	0.0	443.8	0.00	444	0.00	104.2	339.6	104.2	0.0	0.0	104.2	0.0	104	0.00
Solution	t/h	13.5	157.8	**25.0**	**10.0**	167.8	**114.8**	287	**3.0**	167.1	119.3	167	**10.0**	66.0	243	**130.2**	113	**3.0**
Total Stream	t/h	117.6	601.5	25.0	10.0	611.5	114.8	731.1	3.0	271.3	458.9	271	10.0	66.0	347	130.2	347	3.0
% Solids	%w/w	88.54	73.8	0.0	0.0	72.6		60.70	0.0	38.40	74.00	38.4	0.0	0.0	30.0	0.0	**48.00**	0.0
Solids SG		2.54	2.54			2.54		2.54		2.54	2.54	2.54			2.54		2.54	
Solution SG		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1	1.00	1.00	1	1.00	1	1.00
Volumetric Flow	m^3/h	54.5	332.5	25.0	10.0	342.5	114.8	462.0	3.0	208.1	253.0	208	10.0	66.0	284.1	130.2	153.9	3.0
Slurry SG		2.16	1.81	1.00	1.00	1.79	1.00	1.58	1.00	1.30	1.81	1.30	1.00		1.22		1.41	1.00

06/06/2014

Leach, Flowsheet 5027-F-003 / 004

Stream Name		Leach Feed	Carbon Recovery Screen Spray	Carbon Sizing Screen Spray	CIL Discharge	Safety Screen Spray Water	Final Leach Tails to Cyanide Thickener	Activated Carbon Feed	Loaded Carbon Transfer per Day
Stream No		1	2	3	4	5	6	7	8
Solids	t/h	104	0	0	104	0.00	104	0.13	4.29
Solution	t/h	116	**4.0**	**3.0**	123	**5.0**	128	0.54	0
Total Stream	t/h	220	4	3	227.0	5	233	0.7	4.76
% Solids	%w/w	47.3	0	0	45.9	0.0	44.8	**20.0**	90.0
Solids SG		2.54			2.54		2.54	1.70	0.47
Solution SG		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Volumetric Flow	m^3/h	156.9	4	3	163.9	5	169.4	0.54	9.1
Slurry SG		1.40			1.39		1.37	1.09	0.50

Cyanide Destruction, Flowsheet 5027-F-005

Stream Name		Cyanide Thickener Wash Water	Diluted Thickener Feed	Cyanide Thickener Overflow	Cyanide Destruction Feed	Solid Sodium Meta-bisulphite Addition	Solid Copper Sulphate Addition	Air to Cyanide Destruction Spargers	Final Tails to TSF
Stream No		1	2	3	4	5	6	7	8
Solids	t/h	0.0	104.2	0.0	104.2	0.059	0.01		104.2
Solution	t/h	65.1	193.5	89.3	104.2			Nm^3/h	104.2
Total Stream	t/h	65.1	298	89.3	208	0.059	0.008	436	208.4
% Solids	%w/w	0.0	35.0	0.0	**50.0**	100.0	100.0		50.0
Solids SG			2.54	0.00	2.54				2.54
Solution SG		1.00	1.00	1.00	1.00				1.00
Volumetric Flow	m^3/h	65.1	234.5	89.3	145.2				145.2
Slurry SG			1.27		1.44				1.43

Tailings, Flowsheet 5027-F-006

Stream Name		Tailings Pump Gland Water	Tailings Sediment	Tailings Reclaim	Tailings Net Rain Catchment	Effluent
Stream No		1	2	3	4	5
Solids	10	0.00	104.17	0.0	0.00	0.00
Solution	t/h	**3.0**	49.0	77.1	**82.0**	60.1
Total Stream	t/h	3.0	153.2	77.1	82.0	60.1
% Solids	%w/w	0.0	**68.0**	0.0	0.0	0.0
Solids SG			2.54			
Solution SG		1.00	1.00	1.00	1.00	1.00
Volumetric Flow	m^3/h	0.0	90.0	77.1	82.0	60.1
Slurry SG		1.00	1.70		1.00	1.00

Elution, Flowsheet 5027-F-007

Stream Name		Loaded Carbon per Batch	Total NaCN Addition	Caustic Addition	HCl Addition	Carbon Transfer + Acid Rinse	Total PM Produced (Au/Ag) @ EW
Stream No		1	2	3	4	5	6
Solids	t/h	4.29	0.073	0.015	0.02		0.0207
Solution	t/h	0.48	0.29	0.06	0.22	1.99	0
Total Stream	t/h	4.76	0.365	0.074	0.24	2.0	0.02
% Solids	%w/w	**90.0**	0	0.0	0.0	0.0	100.0
(Bulk) Density		0.47					**14.00**
Solution SG		1.00	1.00	1.08	1.00	1.00	
Volumetric Flow	m^3/h	9.12	0.365	0.07	0.24	2.0	0.00148
Slurry SG		**1.0**	1.00				

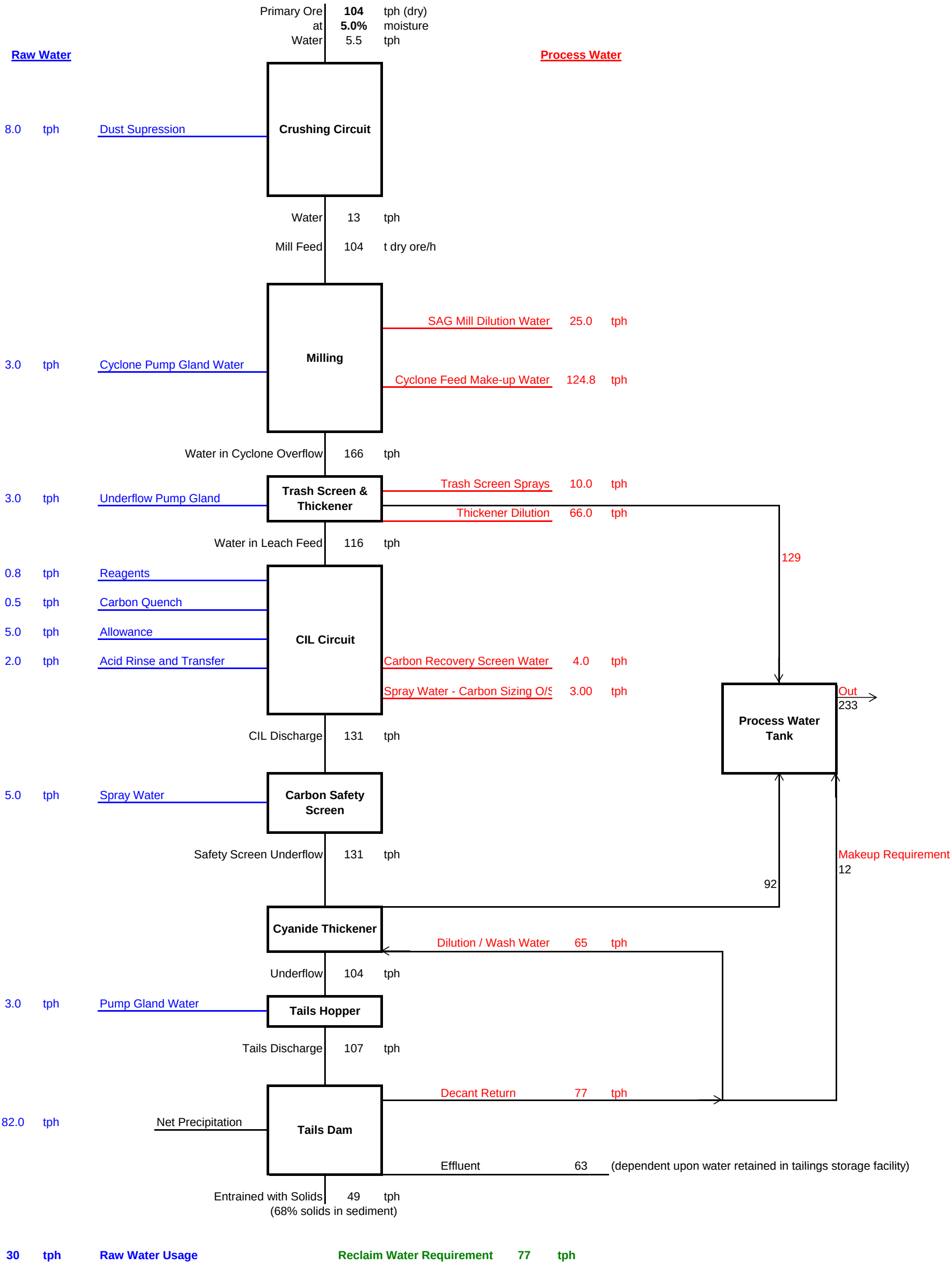
Carbon Regneration, Flowsheet 5027-F-009

Stream Name		Kiln Feed	Carbon Quench Water Makeup
Stream No		1	2
Solids	t/h	0.134	0.00
Solution	t/h	0.015	0.536
Total Stream	t/h	0.15	0.536
% Solids	%w/w	**90**	0.0
Bulk Density	t/m^3	0.47	
Solution SG		1.00	1.00
Volumetric Flow	m^3/h	0.3	0.536
Slurry SG		0.50	1.00

Reagents, Flowsheet 5027-F-010, 011, 012, 013

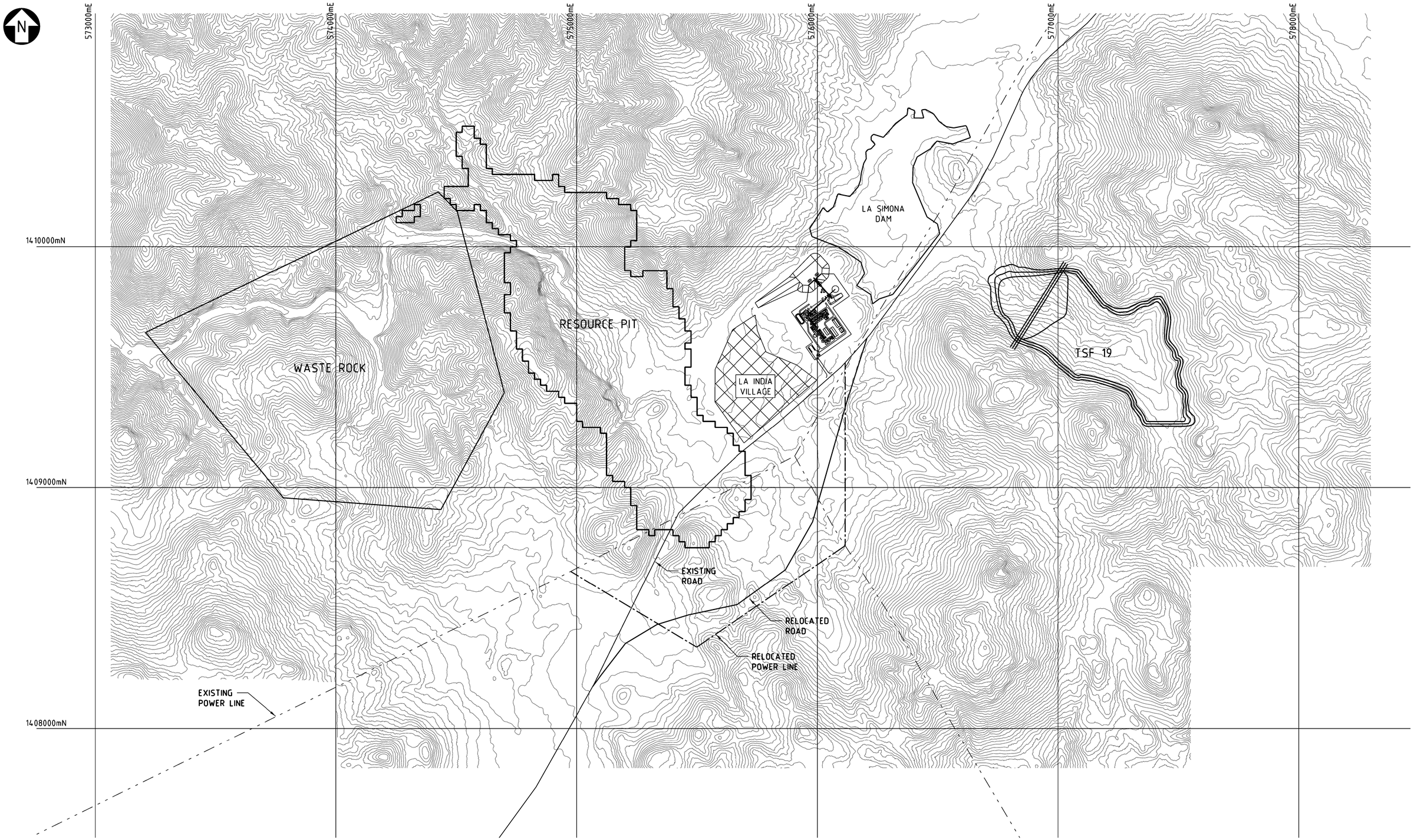
Stream Name		HCl Reagent @ 32% Requirement	NaCN Reagent Requirement	Caustic Reagent Requirement	Raw Water Allowance	Raw Water Requirement	Process Water Distribution
Stream No		1	2	3	4	5	6
Solids	t/h		0.07	0.015			
Solution	t/h	0.021			**5.0**	30	233
Total Stream	t/h	0.02	0.07	0.015	5	30	233
% Solids	%w/w	0.0	100	100.0			0.0
Solids SG			**1.60**	**2.13**			
Solution SG		1.16			1.00	1.00	1.00
Volumetric Flow	m^3/h	0.02	0.05	0.01	5	30	233
Slurry SG							

SIMPLIFIED OVERALL WATER BALANCE



APPENDIX 3

PROCESS PLANT SITE DRAWINGS



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000-G-002	TREATMENT PLANT GENERAL ARRANGEMENT

REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
C	17OCT14	REISSUED FOR STUDY	SH				IM	DM	
B	18JUL14	ISSUED FOR STUDY	SH				IM	DM	
A	20JUN14	ISSUED FOR REVIEW	SH		AF			DM	

CLIENT: CONDOR GOLD PLC

PROJECT: LA INDIA PROJECT

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DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE: PLANT SITE GENERAL ARRANGEMENT PLAN

SCALE	JOB No.	DRG No.	REV.
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DRAWN: MFJ DATE: 01MAY14

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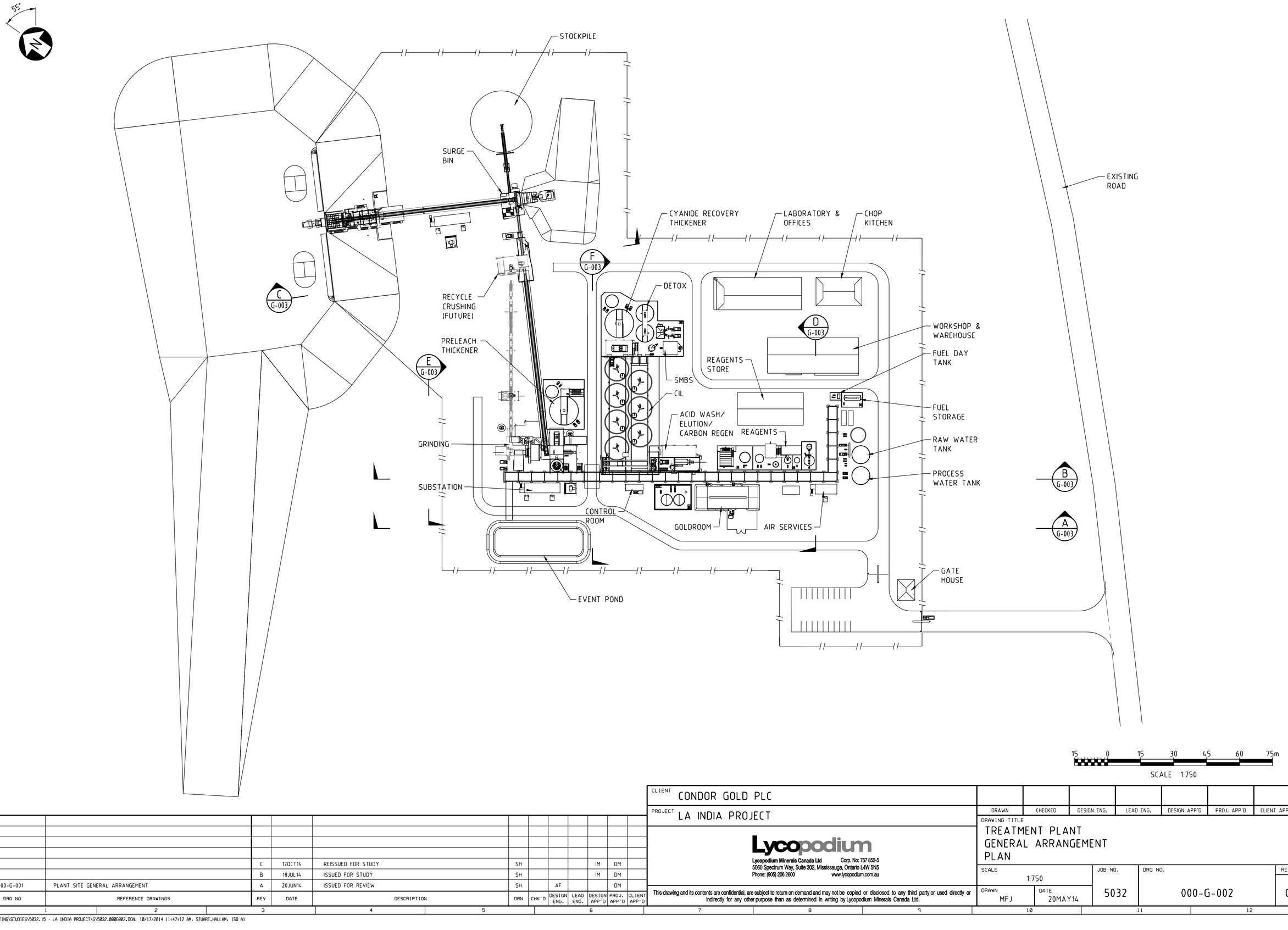

DRG NO	REFERENCE DRAWINGS
000-G-001	PLANT SITE GENERAL ARRANGEMENT

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B	18JUL14	ISSUED FOR STUDY	SH				IM	DM	
A	20JUN14	ISSUED FOR REVIEW	SH		AF			DM	

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DRAWING TITLE: TREATMENT PLANT GENERAL ARRANGEMENT PLAN

SCALE	JOB NO.	DRG NO.	REV.
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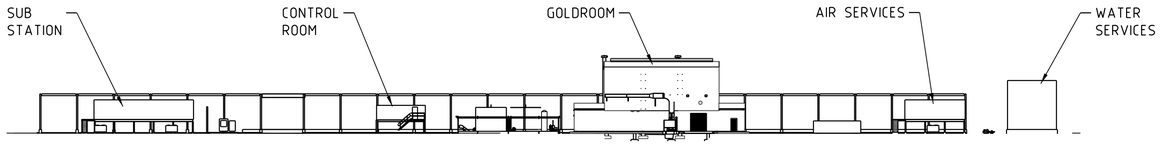
DRAWN	DATE
MFJ	20MAY14



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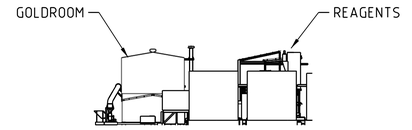

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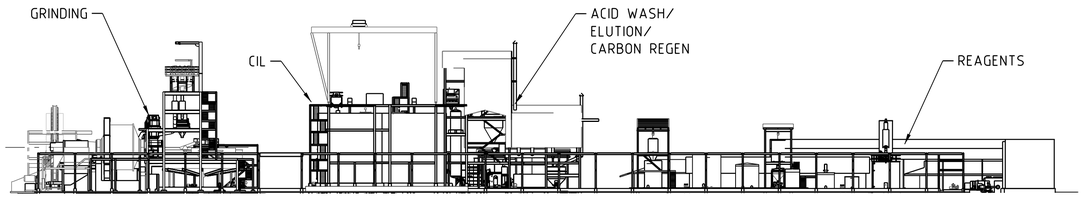

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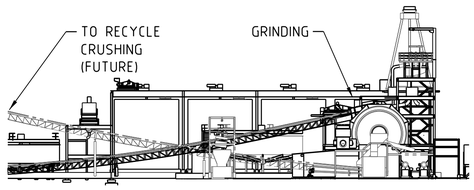

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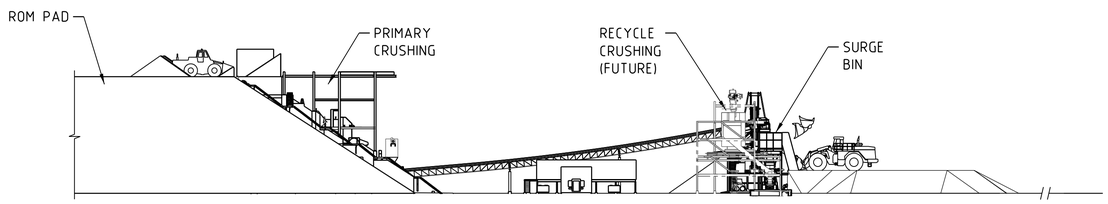

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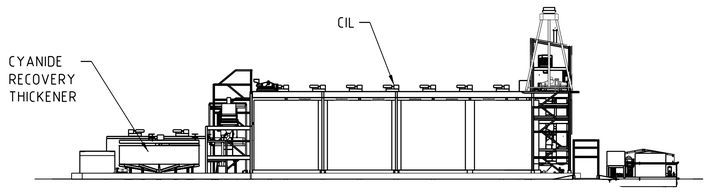

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000-G-001	PLANT SITE GENERAL ARRANGEMENT	A	18JUL14	ISSUED FOR STUDY	SH				IM	DM	

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DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
TREATMENT PLANT
GENERAL ARRANGEMENT
ELEVATIONS

SCALE	JOB No.	DRG No.	REV.
1:500	5032	000-G-003	B

DRAWN SH DATE 20MAY14

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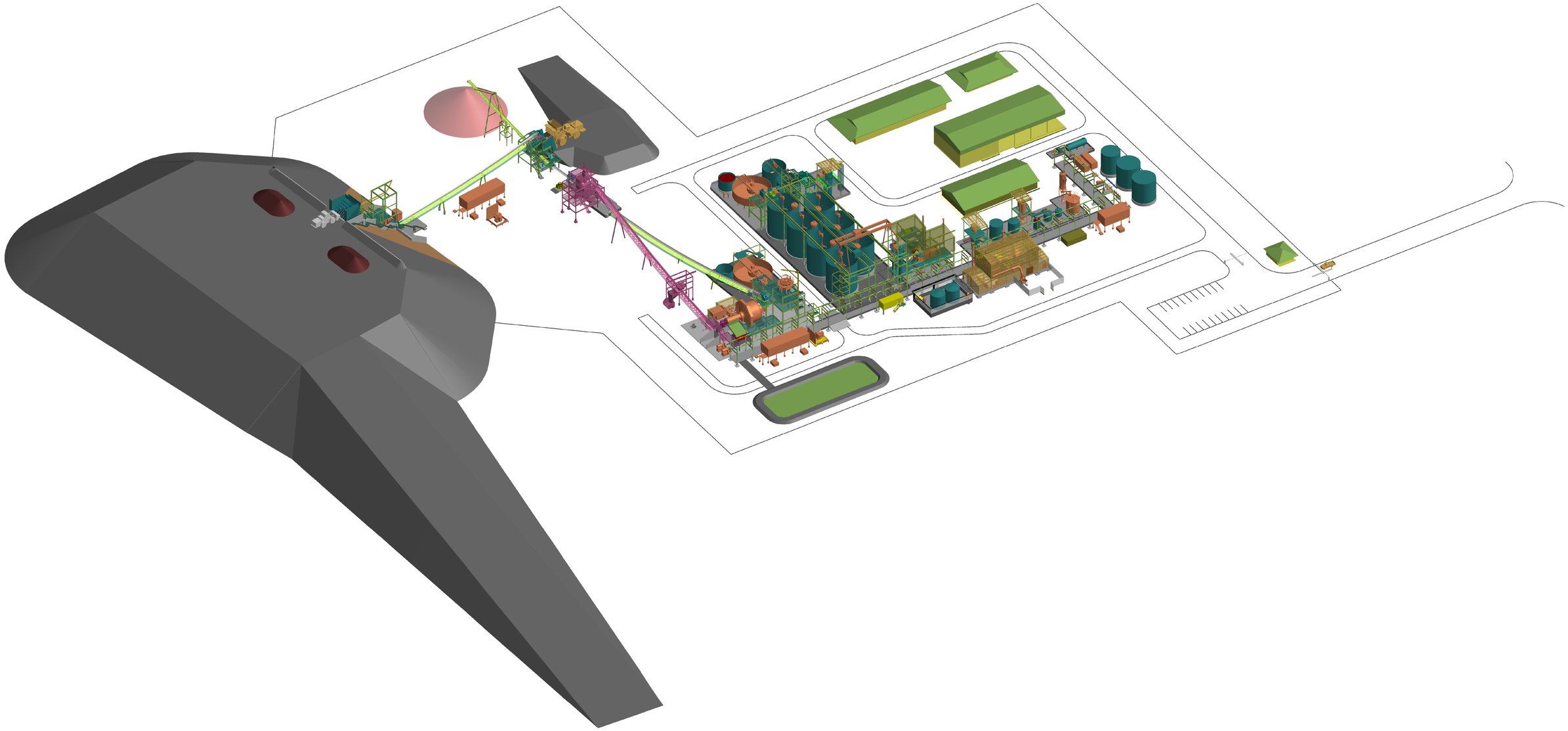

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		A	18JUL14	ISSUED FOR STUDY	SH				IM	DM	

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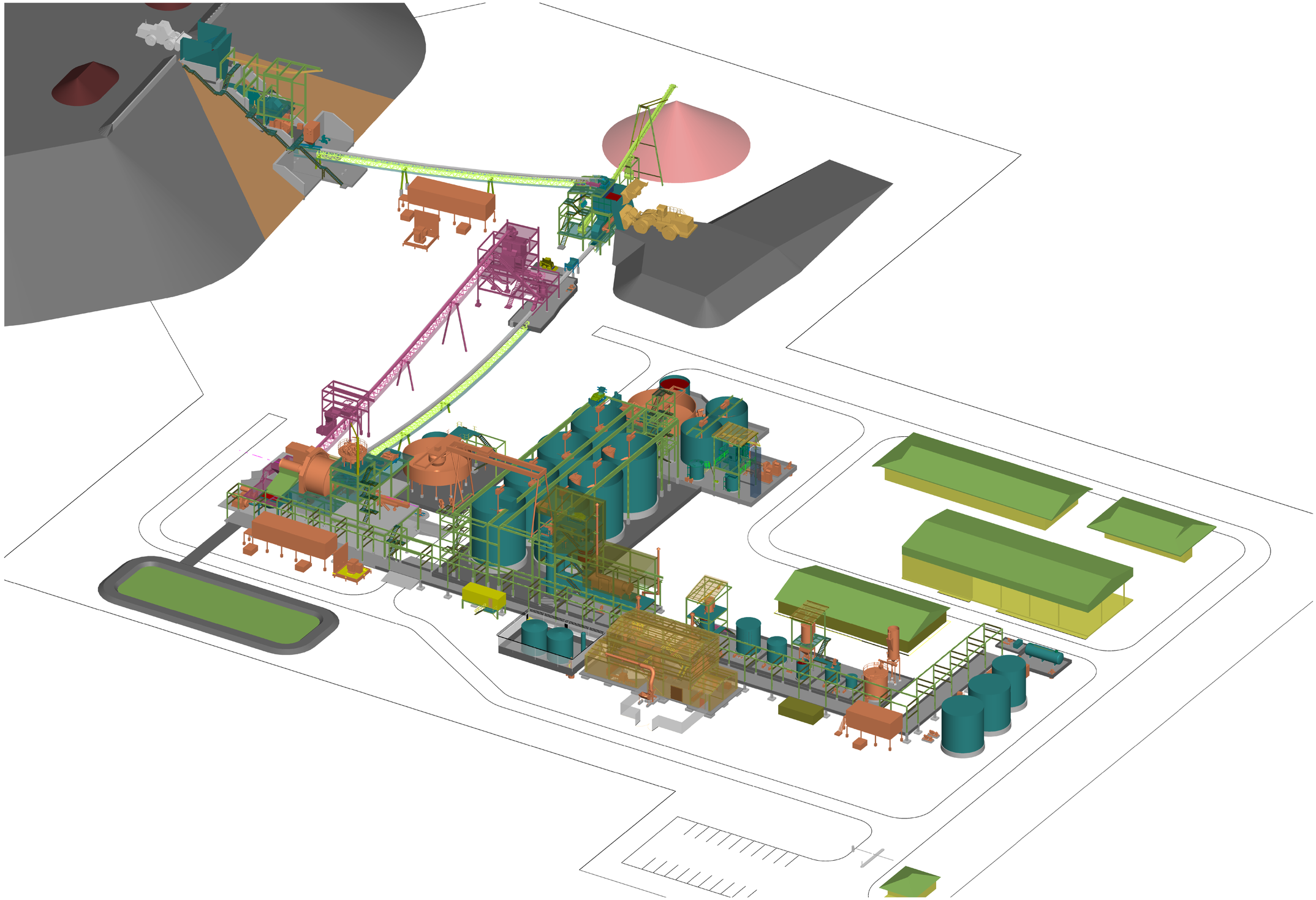
DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
TREATMENT PLANT
GENERAL ARRANGEMENT
PICTORIAL VIEWS SHEET 1

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-W-001	B

DRAWN	DATE
SH	20MAY14



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		B	17OCT14	REISSUED FOR STUDY	SH				IM	DM	
		A	18JUL14	ISSUED FOR STUDY	SH				IM	DM	

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DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
TREATMENT PLANT
GENERAL ARRANGEMENT
PICTORIAL VIEWS SHEET 2

SCALE	JOB NO.	DRG NO.	REV.
NTS	5032	000-W-002	B

DRAWN	DATE
SH	20MAY14

APPENDIX 4

MECHANICAL EQUIPMENT LIST

Rev	Status	Flow Sheet	Equipment Identifier	Numerical Identifier	Equipment Number	Duty Qty	S/By Qty	Equipment Name	Generic Type 1	Generic Type 2	Generic Type 3	Matl of Constr. (incl. Lining)	Process Duty Point	Design Duty Point	Size	Notes/Comments	Spec / Data Sheet No	BQR Package No.	BQR Package Name	Recommended Supplier	Manufacturer	Model No.	Detail Dwg No.	Fixed/ Variable Speed	FUTURE kW Inst.	kW Inst.
AREA NO. 120 - FEED PREPARATION																										**261.91**
A	New	F-101	BN	01	121-BN-01	1		ROM BIN	E Platework	Bin	Bin	Mild Steel (16 mm bisalloy lined)			50m3 live, 80t (dry)											
A	New	F-101	SC	01	121-SC-01	1		ROM BIN STATIC GRIZZLY BARS	E Platework	Frame	Frame				600 x 600mm slot											
C	New	F-101	FE	01	121-FE-01	1		PRIMARY APRON FEEDER	F Mechanical	Feeder	Apron	Various	135 wtph, 1.6 t/m3 bulk density	161 wtph, 1.6 t/m3 bulk density	1524mm width x 9144mm length	1500mm i/s pan Metso AF5 (D4) Apron Feeder, 9m centres, Lift = 2.3m, c/w 19kW electromechanical drive	MS-32	1020	APRON FEEDERS	METSO	METSO	AF5-D4		Variable		19.00
A	New	F-101	CH	01	121-CH-01	1		ROM BIN APRON FEEDER DISCHARGE CHUTE & CHAIN CURTAIN	E Platework	Chute	Chute	Mild Steel (10 mm bisalloy lined)														
A	New	F-101	CH	02	121-CH-02	1		ROM BIN APRON FEEDER DRIBBLE CHUTE	E Platework	Chute	Chute	Mild Steel														
A	New	F-101	CH	04	121-CH-04	1		PRIMARY JAW CRUSHER FEED CHUTE	E Platework	Chute																
D	New	F-101	CR	01	121-CR-01	1		PRIMARY JAW CRUSHER	F Mechanical	Crusher	Jaw (Single Toggle)	Various	135 wtph, 1.6 t/m3 bulk density	161 wtph, 1.6 t/m3 bulk density, P_{80} 150mm	1000 x 760 feed opening	Metso C100 c/w manual CSS adjustment and lubrication	MS-033	1230	JAW CRUSHER	TEREX	TEREX	JS3042		Fixed		112.00
D	New	F-101	HX	01	121-HX-01	1		PRIMARY JAW CRUSHER HYDRAULIC OIL HEATER	F Mechanical	Heater						incl in Jaw Crusher package	MS-033	1230	JAW CRUSHER	TEREX	TEREX			Fixed		1.50
D	New	F-101	PP	01	121-PP-01	1		PRIMARY JAW CRUSHER HYDRAULIC OIL PUMP	F Mechanical	Pump						incl in Jaw Crusher package	MS-033	1230	JAW CRUSHER	TEREX	TEREX			Fixed		2.20
D	New	F-101	PP	02	121-PP-02	1		PRIMARY JAW CRUSHER LUBE OIL PUMP	F Mechanical	Pump						incl in Jaw Crusher package	MS-033	1230	JAW CRUSHER	TEREX	TEREX			Fixed		2.20
A	New	F-101	CH	05	121-CH-05	1		PRIMARY JAW CRUSHER DISCHARGE CHUTE	E Platework	Chute		Mild Steel (10 mm bisalloy lined)														
C	New	F-101	RB	01	121-RB-01	1		ROCK BREAKER	F Mechanical	Rock Breaker		Manufacturer's Standard	UCS Range: TBA			Transmin 100 30/20 Rockbreaker Boom c/w Sandvik BR1229 Hammer and Hydraulic Power Pack 55kW Hydraulic Pump c/w 0.75kW Oil cooling fan & 3kW oil heater				TRANSMIN	TRANSMIN			Fixed		59.00
C	New	F-101	CV	01	121-CV-01	1		PRIMARY JAW CRUSHER DISCHARGE CONVEYOR	F Mechanical	Conveyor	Belt	Various	135 wtph, 1.6 t/m3 bulk density, 5% moisture	160 wtph, 1.6 t/m3 bulk density, 250mm max lump size	1000mm belt width; 70m long, 10.2m lift	1000mm wide belt conveyor, Series 15 idlers, 0.5m/s design speed c/w 11kW drive								Fixed		11.00
C	New	F-101	CN	01	121-CN-01	1		CRUSHER SERVICE HOIST	F Mechanical	Crane/Hoist	Electric Hoist	Mild Steel	-	-	5t			1090	CRANES & HOISTS	KONE	KONE			Fixed		10.50
C	New	F-101	WE	01	121-WE-01	1		PRIMARY JAW CRUSHER DISCHARGE CONVEYOR WEIGHTOMETER	F Mechanical	Weigher	Single Idler	Various	-		to suit 1000mm width, 268 wet tph	-		1500	WEIGHTOMETERS					Fixed		0.01
C	New	F-101	DC	01	121-DC-01	1		PRIMARY CRUSHER DISCHARGE CONVEYOR DUST COLLECTOR & FAN	F Mechanical	Dust Collector	Insertable			15,000 Am^3/h @ 1.6 kPa			MS-036	1540	SCRUBBERS	MARC	FKI	MS-500		Fixed		22.00
A	New	F-101	CH	06	121-CH-06	1		PRIMARY JAW CRUSHER DISCHARGE CONVEYOR HEAD CHUTE	E Platework	Chute		Mild Steel (10 mm bisalloy lined)														
C	New	F-101	BN	02	121-BN-02	1		SURGE BIN	E Platework	Bin	Bin				35m3, 55 dry tonne capacity											
C	New	F-101	CH	07	121-CH-07	1		SURGE BIN OVERFLOW CHUTE	E Platework	Chute																
C	New	F-101	FE	02	121-FE-02	1		SURGE BIN APRON FEEDER	F Mechanical	Feeder	Apron	Various	135 wtph, 1.6 t/m3 bulk density	161 wtph, 1.6 t/m3 bulk density	914mm width x 7620m length	900mm i/s pan Metso AF5 (D4) Apron Feeder, 7.5m centres, Lift = 0m, c/w 11kW electromechanical drive	MS-32	1020	APRON FEEDERS	METSO	METSO	AF5-D4, 914 x 7620		Variable		7.50
C	New	F-101	CH	08	121-CH-08	1		SURGE BIN APRON FEEDER DISCHARGE CHUTE	E Platework	Chute																
C	New	F-101	CV	02	121-CV-02	1		STOCKPILE FEED CONVEYOR	F Mechanical	Conveyor	Belt	Various	135 wtph, 1.6 t/m3 bulk density, 5% moisture	160 wtph, 1.6 t/m3 bulk density, 250mm max lump size	750mm belt width; 50m long, 12.5m lift	750mm wide belt conveyor, Series 15 idlers, 1.0m/s design speed c/w 15kW drive								Fixed		15.00
A	New	F-101	CH	09	121-CH-09	1		STOCKPILE FEED CONVEYOR HEAD CHUTE	E Platework	Chute	Chute															
AREA NO. 130 - MILLING																									**122.02**	**4,717.71**
C	New	F-101	CV	01	132-CV-01	1		SAG MILL FEED CONVEYOR	F Mechanical	Conveyor	Belt	Various	111 wtph, 1.6 t/m3 bulk density, 5% moisture	132 wtph, 1.6 t/m3 bulk density, 250mm max lump size	1000mm belt width; 70m long, 10.5m lift	1000mm wide belt conveyor, Series 15 idlers, 0.5m/s design speed c/w 11kW drive								Fixed		11.00
C	New	F-101	WE	02	132-WE-02	1		SAG MILL FEED CONVEYOR WEIGHTOMETER	F Mechanical	Weightometer	Single Idler	Various			To suit 1000mm width, 132 wtph			1500	WEIGHTOMETERS					Fixed		0.01
B	New	F-102	CH	02	132-CH-02	1		SAG MILL FEED CONVEYOR HEAD CHUTE	E Platework	Chute		Mild Steel (6 mm bisalloy lined)														
B	New	F-102	CH	03	132-CH-03	1		SAG MILL FEED CHUTE	E Platework	Spout	Spout					incl with SAG Mill package	MS-034	1420	SAG MILL	OUTOTEC	OUTOTEC					
C	New	F-102	ZM	03	132-ZM-03	1		SAG MILL LINER HANDLER	F Mechanical	Liner Handler	-					7 axis McLellan 1500kg Reline Machine c/w 29.8kW hydraulic drive		1260	MILL RE-LINING EQUIPMENT	MCLELLAN	MCLELLAN	2.Ot, 7 Axis Liner Handler cw/ Hydraulic Manipulator				
B	New	F-102	ZM	04	132-ZM-04	1		SAG MILL LINER HANDLER HYDRAULIC POWER PACK	F Mechanical	Packaged Equipment	-					incl with SAG Mill Liner Handler package		1260	MILL RE-LINING EQUIPMENT	MCLELLAN				Fixed		30.00
B	New	F-102	ZM	05	132-ZM-05	1		SAG MILL LINER BOLT REMOVAL TOOL	F Mechanical	Misc	-					Air Driven 41.5" Stroke Bolt Buster c/w Air Prep Assembly , 3200J Blow Energy		1260	MILL RE-LINING EQUIPMENT							
B	New	F-102	CN	01	132-CN-01	1		SAG MILL LINER BOLT REMOVAL TOOL SUPPORT MONORAILS 1	F Mechanical	Crane/Hoist	Monorail		-	-												
C	New	F-102	ML	01	132-ML-01	1		SAG MILL	F Mechanical	Mill	SAG	Manufacturer's Standard	104.9tph	127.8 dry (fresh) tph	Ø 6.71m x 5.9m EGL	Outotec 6.71m dia x 5.9m EGL, Grate Discharge SAG, 4,000kW installed power	MS-034A	1420	SAG MILL	OUTOTEC	OUTOTEC			Variable		4,000.00
C	New	F-102	ZM	06	132-ZM-06	1		SAG MILL JACKING SYSTEM HYDRAULIC POWER PACK	F Mechanical	Packaged Equipment	-						MS-034A	1420	SAG MILL	OUTOTEC	OUTOTEC			Fixed		2.20
C	New	F-102	ZM	07	132-ZM-07	1		SAG MILL MOTOR BEARING LUBRICATION SYSTEM	F Mechanical	Misc	-					2.0 + (2x5.5) + (2x3)	MS-034A	1420	SAG MILL	OUTOTEC	OUTOTEC			Fixed		19.00
C	New	F-102	ZM	08	132-ZM-08	1		SAG MILL TRUNNION BEARING LUBRICATION SYSTEM	F Mechanical	Misc	-					(3x2) + (2x15) + (2x3)	MS-034A	1420	SAG MILL	OUTOTEC	OUTOTEC			Fixed		45.00
C	New	F-102	ZM	09	132-ZM-09	1		SAG MILL MOTORS HEATING/ COOLING ANCILLIARIES	F Mechanical	Fan	-					(4x15) + (2x4) + (4x11) + (2x1.2)	MS-034A	1420	SAG MILL	OUTOTEC	OUTOTEC			Fixed		85.00
C	New	F-102	ZM	10	132-ZM-10	1		SAG MILL REDUCER/ PINION BEARING LUBRICATION SYSTEM	F Mechanical	Misc	-					(2x2) + (2x2.2) + (3x11)	MS-034A	1420	SAG MILL	OUTOTEC	OUTOTEC			Fixed		45.00
C	New	F-102	ZM	11	132-ZM-11	1		SAG MILL INCHING DRIVE HYDRAULIC POWER PACK	F Mechanical	Packaged Equipment	-					200 + 5.5 + 0.1	MS-034A	1420	SAG MILL	OUTOTEC	OUTOTEC			Fixed		205.50
C	New	F-102	ZM	12	132-ZM-12	1		SAG MILL GEAR GUARDS	E Platework	Misc.	-						MS-034A	1420	SAG MILL	OUTOTEC	OUTOTEC			-		-
C	New	F-102	ST	01	132-ST-01	1		SAG MILL TROMMEL COVER	E Platework	Cover	-													-		-
B	New	F-102	CH	04	132-CH-04	1		SAG MILL TROMMEL DISCHARGE CHUTE	E Platework	Chute	Chute													-		-
B	New	F-102	CH	05	132-CH-05	1		PEBBLE DISCHARGE BYPASS CHUTE	E Platework	Chute	Chute															
B	New	F-102	ZM	13	132-ZM-13	1		PEBBLE DISCHARGE SCATS BUNKER	C Concrete	Bunker																
B	New	F-102	HP	01	132-HP-01	1		MILL DISCHARGE PUMP BOX	E Platework	Hopper	Hopper		525 m3/h @ 1.58 SG		13m3 - 90 sec retention											
C	New	F-102	PP	03	132-PP-03	1		CYCLONE FEED PUMP 1	F Mechanical	Pump	Centrifugal Slurry	Various	437 m3/h @ 29mTDH water	524 m3/h @ 31.5mTDH water	8/6AH	436m³/hr @ 29m TDH water Warman 8/6 AH c/w 132kW motor		1320	PUMPS - CENTRIFUGAL SLURRY	Warman	Warman	8/6 AH		Variable		132.00
C	New	F-102	PP	04	132-PP-04		1	CYCLONE FEED PUMP 2	F Mechanical	Pump	Centrifugal Slurry	Various	437 m3/h @ 29mTDH water	524 m3/h @ 31.5mTDH water	8/6AH	436m³/hr @ 29m TDH water Warman 8/6 AH c/w 132kW motor		1320	PUMPS - CENTRIFUGAL SLURRY	Warman	Warman	8/6 AH		Variable		132.00
C	New	F-102	CY	01	132-CY-01	1		CLASSIFYING CYCLONES	F Mechanical	Classifier	Cyclone Wet		437 m3/h @ 29mTDH water	524 m3/h @ 31.5mTDH water	gMax 10-20 10total, 8 Duty, 2 Spare	c/w manually actuated knifegate valves	MS-010	1100	CYCLONES	FLSMIDTH (KREBS)	FLSMIDTH (KREBS)	gMax10-20				
C	New	F-102	LA	01	132-LA-01	1		CYCLONE UNDERFLOW LAUNDER	E Platework	Launder	Launder	Mild Steel (12 mm rubber lined)				400NB Pipe launder 12mm rubber lined										
C	New	F-102	LA	02	132-LA-02	1		CYCLONE OVERFLOW LAUNDER	E Platework	Launder	Launder	Mild Steel (6 mm rubber lined)				250NB Pipe launder 6mm rubber lined										
C	New	F-102	PP	05	132-PP-05	1		SAG MILL AREA SUMP PUMP	F Mechanical	Pump	Vertical Spindle	Various		50 m3/hr @ 10m TDH	65 SPR	Spindle Length 1800mm		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	65SPR		Fixed		11.00
C	Fut.	F-101	CV	02	132-CV-02	1		PEBBLE TRANSFER CONVEYOR	F Mechanical	Conveyor	Belt	Various		33 dtph/ 35 wtph, 1.6 t/m3 bulk density, 5% moisture, 70 mm max lump size	600mm belt width; 83m long, 12.0m lift								Fixed	5.60	
D	Fut.	F-101	MA	02	132-MA-02	1		PEBBLE TRANSFER CONVEYOR TRAMP MAGNET	F Mechanical	Magnet	Fixed	Various	-		Manually cleaned, to suit 600mm width, 35 wet tph, 70 mm lump	cross-belt magnet	MS-028	1240	MAGNETS	WPE	ERIEZ	SE750 MC1		Fixed	11.00	
B	Fut.	F-101	CH	06	132-CH-06	1		PEBBLE TRANSFER CONVEYOR TRAMP MAGNET DISCHARGE CHUTE	E Platework	Chute	Chute	Mild Steel	-			-										
B	Fut.	F-101	ZM	14	132-ZM-14	1		PEBBLE TRANSFER CONVEYOR TRAMP METAL BUNKER	C Concrete	Bunker	-	Concrete	-			-										
D	Fut.	F-101	MD	02	132-MD-02	1		PEBBLE TRANSFER CONVEYOR METAL DETECTOR	F Mechanical	Metal Detector	-	Various	-		To suit 600mm width, 35 wet tph	-		1250	METAL DETECTORS					Fixed	0.01	
B	Fut.	F-101	CH	07	132-CH-07	1		PEBBLE TRANSFER CONVEYOR DISCHARGE CHUTE	E Platework	Chute	Chute	Mild Steel (12 mm bisalloy lined)	-			-										

Rev	Status	Flow Sheet	Equipment Identifier	Numerical Identifier	Equipment Number	Duty Qty	S/By Qty	Equipment Name	Generic Type 1	Generic Type 2	Generic Type 3	Matl of Constr. (incl. Lining)	Process Duty Point	Design Duty Point	Size	Notes/Comments	Spec / Data Sheet No	BQR Package No.	BQR Package Name	Recommended Supplier	Manufacturer	Model No.	Detail Dwg No.	Fixed/ Variable Speed	FUTURE kW Inst.	kW Inst.
B	Fut.	F-101	CH	08	132-CH-08	1		PEBBLE CRUSHER SURGE BIN FEED CHUTE	E Platework	Chute	Chute	Mild Steel (12 mm bisalloy lined)				-										
B	Fut.	F-101	BN	01	132-BN-01	1		PEBBLE CRUSHER SURGE BIN	E Platework	Bin	Bin	Mild Steel (12 mm bisalloy lined)	-		10m3 live, 16 dry tonne capacity	-										
B	Fut.	F-101	CH	09	132-CH-09	1		PEBBLE CRUSHERS SURGE BIN OVERFLOW CHUTE	E Platework	Chute	Chute	Mild Steel (12 mm bisalloy lined)	-			-										
B	Fut.	F-101	CH	10	132-CH-10	1		PEBBLE CRUSHER BYPASS CHUTE	E Platework	Chute	Chute	Mild Steel (12 mm bisalloy lined)	-			-										
B	Fut.	F-101	FE	01	132-FE-01	1		PEBBLE CRUSHER FEEDER	F Mechanical	Feeder	Vibrating	Various		33dtph/ 35 wtph, 1.6 t/m3 bulk density, 5% moisture, 60mm max lump size		Vibrating Feeder c/w 2 x 1.5kW vibrating motors								Variable	3.00	
B	Fut.	F-101	CH	11	132-CH-11	1		PEBBLE CRUSHER FEED CHUTE	E Platework	Chute	Chute	Mild Steel (12 mm bisalloy lined)	-			-										
D	Fut.	F-101	CR	01	132-CR-01	1		PEBBLE CRUSHER	F Mechanical	Crusher	Cone	Various		25 (wet) t/hr capacity, 1.6 t/m3 bulk density, F80 = 40mm, P80 = 10mm	CH420 MF HC	-	MDS-058	1080	CONE CRUSHER	SANDVIK	SANDVIK	CH420 MF HC		Fixed	90.00	
C	Fut.	F-101	ZM	15	132-ZM-15	1		PEBBLE CRUSHER HYDRAULIC POWER PACK	F Mechanical	Packaged Equipment	-	Various	-			incl in Pebble Crusher package, c/w 1.6kW heater, 2.2kW cooling fan	MDS-059	1080	CONE CRUSHER	SANDVIK	SANDVIK			Fixed	3.80	
C	Fut.	F-101	ZM	16	132-ZM-16	1		PEBBLE CRUSHER LUBRICATION PACKAGE	F Mechanical	Packaged Equipment	-	-	-			incl in Pebble Crusher package	MDS-060	1080	CONE CRUSHER	SANDVIK	SANDVIK			Fixed	1.10	
B	Fut.	F-101	CH	12	132-CH-12	1		PEBBLE CRUSHER DISCHARGE CHUTE	E Platework	Chute	Chute	Mild Steel (16 mm bisalloy lined)	-			-										
C	Fut.	F-101	CV	03	132-CV-03	1		PEBBLE CRUSHER DISCHARGE CONVEYOR	F Mechanical	Conveyor	Belt	Various		90 dtph/ 10 wtph, 1.6 t/m3 bulk density, 5% moisture, 60mm max lump size	600mm belt width; 40m long, 4.0m lift								Fixed	7.50	
D	Fut.	F-101	WE	03	132-WE-03	1		PEBBLE CRUSHER DISCHARGE CONVEYOR WEIGHTOMETER	F Mechanical	Weigher	Single Idler	Various	-		To suit 600mm width, 35 wet tph	-		1500	WEIGHTOMETERS					Fixed	0.01	
B	Fut.	F-101	CH	13	132-CH-13	1		PEBBLE CRUSHER DISCHARGE CONVEYOR DISCHARGE CHUTE	E Platework	Chute	Chute	Mild Steel (12 mm bisalloy lined)	-			-										
AREA NO. 140 - SCREENING / THICKENER																										**70.50**
A	New	F-102	CH	01	141-CH-01	1		TRASH SCREEN FEED BOX	E Platework	Chute	Chute	Mild Steel (6 mm rubber lined)	-	255m3/h, 38% w/w, 1.30 t/m3	0.6m³	0.6m³ 6 sec residence time c/w weir										
D	New	F-102	SC	01	141-SC-01	1		TRASH SCREEN	F Mechanical	Screen	Vibratory (Wet)	Various	212m3/h, 38% w/w, 1.30 t/m3	255m3/h, 38% w/w, 1.30 t/m3	1.2 x 3.6m	min 4.25m², 1.2 x 3.6m vibrating screen c/w 2x3kW motors	MS-002	1480	VIBRATING SCREENS & GRIZZLY	JOEST	JOEST			Fixed		6.00
A	New	F-102	ST	01	141-ST-01	1		TRASH SCREEN ISOLATION FRAME	E Platework	Frame	Isolation	Mild Steel	-			Fitted with vibration isolation springs refer to MDS-061										
A	New	F-102	CH	02	141-CH-02	1		TRASH SCREEN O/S CHUTE	E Platework	Chute	Chute	Mild Steel (6 mm rubber lined)	-			-										
A	New	F-102	CH	03	141-CH-03	1		TRASH SCREEN U/S CHUTE	E Platework	Chute	Chute	Mild Steel (6 mm rubber lined)	-			-										
A	New	F-102	LA	01	141-LA-01	1		TRASH SCREEN U/F LAUNDER	E Platework	Launder	Launder	Mild Steel (6 mm rubber lined)	-			3 parts A,B,C										
C	New	F-102	ZM	01	142-ZM-01	1		PRE-LEACH THICKENER FLOCCULANT STATIC MIXER	F Mechanical	Static Mixer	Static Mixer	Various	-			-										
A	New	F-102	BX	01	142-BX-01	1		PRE-LEACH THICKENER FEED BOX	E Platework	Box	-	Mild Steel (6 mm rubber lined)	-	255m3/h, 38% w/w, 1.30 t/m3	0.6m³	0.6m³ 6 sec residence time c/w weir										
C	New	F-102	TM	01	142-TM-01	1		PRE-LEACH THICKENER	F Mechanical	Classifier	Thickener	Various	feed: 105dtph, 212m3/h, 38% sol, 48% solids underflow	-	12.2 m diameter		MS-013	1460	THICKENERS	TENOVA DELKOR	TENOVA DELKOR	12.2m dia.				
C	New	F-102	ZM	02	142-ZM-02	1		PRE-LEACH THICKENER HYDRAULIC POWER PACK	F Mechanical	Packaged Equipment	-	Various	-			incl with Thickeners package	MS-013	1460	THICKENERS	TENOVA DELKOR	TENOVA DELKOR			Fixed		5.50
A	New	F-102	LA	01	142-LA-01	1		PRE-LEACH THICKENER O/F LAUNDER	E Platework	Launder	Launder	Mild Steel	-			-										
C	New	F-102	PP	06	142-PP-06	1		PRE-LEACH THICKENER U/F PUMP No.1	F Mechanical	Pump	Centrifugal Slurry	Various	155 m3/hr @ 12.8 m TDH Water	186 m3/hr @ 13.8 m TDH Water	6/4 AH	155m³/hr @ 12.8m TDH water Warman 6/4 AH c/w 18.5kW motor		1320	PUMPS - CENTRIFUGAL SLURRY	Warman	Warman	6/4 AH		Variable		18.50
C	New	F-102	PP	07	142-PP-07		1	PRE-LEACH THICKENER U/F PUMP No.2	F Mechanical	Pump	Centrifugal Slurry	Various	155 m3/hr @ 12.8 m TDH Water	186 m3/hr @ 13.8 m TDH Water	6/4 AH	155m³/hr @ 12.8m TDH water Warman 6/4 AH c/w 18.5kW motor		1320	PUMPS - CENTRIFUGAL SLURRY	Warman	Warman	6/4 AH		Variable		18.50
C	New	-	TK	01	142-TK-01	1		PRE-LEACH THICKENER O/F TANK	Tankage	Tank	Vertical Open	Mild Steel	Residence 25min (of thickener o/f)	76 m³ / tank live volume	Diameter 4.8m x 5.4 m O/A	Open roof										
C	New	-	PP	08	142-PP-08	1		PRE-LEACH THICKENER O/F WATER PUMP	F Mechanical	Pump	Centrifugal Solution	Various	184 m3/h @ 1.0 S.G., 100g/m3 sols, 27 m TDH	225 m3/h @ 1.01 S.G., 30 m TDH	6X4	-		1320	PUMPS - CENTRIFUGAL SLURRY	Warman	Warman			Fixed		22.00
AREA NO. 145 - DETOXIFICATION / TAILINGS																										**293.00**
B	New	F-105	BX	04	145-BX-04	1		CYANIDE RECOVERY THICKENER FEED BOX	E Platework	Box	-	Mild Steel (6 mm rubber lined)	-	255m3/h, 38% w/w, 1.30 t/m3	0.6m³	0.6m³ 6 sec residence time c/w weir										
C	New	F-105	TM	03	145-TM-03	1		CYANIDE RECOVERY THICKENER	F Mechanical	Classifier	Thickener	Various	feed: 105dtph, 212m3/h, 38% sol, 48% solids underflow		12.2 m diameter		MS-013	1460	THICKENERS	TENOVA DELKOR	TENOVA DELKOR	12.2m dia.				
C	New	F-105	ZM	02	145-ZM-02	1		CYANIDE RECOVERY THICKENER HYDRAULIC POWER PACK	F Mechanical	Packaged Equipment	-	Various	-			incl with Thickeners package	MS-013	1460	THICKENERS	TENOVA DELKOR	TENOVA DELKOR			Fixed		5.50
C	New	F-105	PP	01	145-PP-01	1		CYANIDE RECOVERY THICKENER U/F PUMP No.1	F Mechanical	Pump	Centrifugal Slurry	Various	155 m3/hr @ 12.8 m TDH Water	186 m3/hr @ 13.8 m TDH Water	6/4 AH	155m³/hr @ 12.8m TDH water Warman 6/4 AH c/w 18.5kW motor		1320	PUMPS - CENTRIFUGAL SLURRY	Warman	Warman	6/4 AH		Variable		18.50
C	New	F-105	PP	00	145-PP-00		1	CYANIDE RECOVERY THICKENER U/F PUMP No.2	F Mechanical	Pump	Centrifugal Slurry	Various	155 m3/hr @ 12.8 m TDH Water	186 m3/hr @ 13.8 m TDH Water	6/4 AH	155m³/hr @ 12.8m TDH water Warman 6/4 AH c/w 18.5kW motor		1320	PUMPS - CENTRIFUGAL SLURRY	Warman	Warman	6/4 AH		Variable		18.50
B	New	F-105	TK	01	145-TK-01	1		CYANIDE RECOVERY THICKENER O/F TANK	Tankage	Tank	Vertical Open	Mild Steel	Residence 25min (of thickener o/f)	76 m³ / tank live volume	Diameter 4.8m x 5.4 m O/A	Open roof										
C	New	F-105	PP	08	145-PP-08	1		CYANIDE RECOVERY THICKENER O/F WATER PUMP	F Mechanical	Pump	Centrifugal Solution	Various	184 m3/h @ 1.0 S.G., 100g/m3 sols, 27 m TDH	225 m3/h @ 1.01 S.G., 30 m TDH	6X4	-		1320	PUMPS - CENTRIFUGAL SLURRY	Warman	Warman	MillMAX 6x4-16		Fixed		22.00
B	New	F-105	TK	01	145-TK-01	1		DETOX TANK No. 1	Tankage	Tank		Mild Steel (6 mm rubber lined)	-	178 m³ / tank live volume	Diameter 6.1 m x 7.2 m O/A	Without roof, c/w internal O/F box										
C	New	F-105	TK	01	145-TK-01	1		DETOX TANK No. 2	Tankage	Tank		Mild Steel (6 mm rubber lined)	-	178 m³ / tank live volume	Diameter 6.1 m x 7.2 m O/A	Without roof, c/w internal O/F box										
D	New	F-105	AG	07	145-AG-07	1		DETOX AGITATOR No. 1	F Mechanical	Mixer	Agitator - Slurry, Axial flow	Mild Steel (6mm rubber lined)			Impeller dia. 2.9m x 8.0m shaft length	Dual stage, RL impellers c/w gearbox drive	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		30.00
D	New	F-105	AG	08	145-AG-08	1		DETOX AGITATOR No. 2	F Mechanical	Mixer	Agitator - Slurry, Axial flow	Mild Steel (6mm rubber lined)			Impeller dia. 2.9m x 8.0m shaft length	Dual stage, RL impellers c/w gearbox drive	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		30.00
B	New	F-105	BX	05	145-BX-05	1		DETOX FEED BOX	E Platework	Box		Mild Steel (6mm rubber lined)														
C	New	F-105	PP	17	145-PP-17	1		DETOX AREA SUMP PUMP	F Mechanical	Pump	Vertical Spindle	Various	-	50 m3/hr @ 16m TDH	6S SPR	Vertical cantilever, 1800 mm spindle		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	6SSPR		Fixed		11.00
B	New	F-106	HP	21	146-HP-21		1	TAILINGS HOPPER	E Platework	Hopper																
C	New	F-106	PP	22	146-PP-22	1		TAILINGS PUMP 1	F Mechanical	Pump	Centrifugal Slurry	Various		230m3/h, 60% solids w/w, 1.66 SG, 45.2m TDH	6X4	Single stage pumping		1320	PUMPS - CENTRIFUGAL SLURRY	WARMAN	WARMAN	6/4 AH		Variable		75.00
C	New	F-106	PP	23	146-PP-23		1	TAILINGS PUMP 2	F Mechanical	Pump	Centrifugal Slurry	Various		230m3/h, 60% solids w/w, 1.66 SG, 45.2m TDH	6X4	Single stage pumping		1320	PUMPS - CENTRIFUGAL SLURRY	WARMAN	WARMAN	6/4 AH		Variable		75.00
D	Fut.	F-106	PP	22	146-PP-22	1		TAILINGS PUMP 1	F Mechanical	Pump	Centrifugal Slurry	Various		230m3/h, 60% solids w/w, 1.66 SG, 45.2m TDH	6X4	Single stage pumping		1320	PUMPS - CENTRIFUGAL SLURRY	WARMAN	WARMAN	6/4 AH		Variable	75.00	
D	Fut.	F-106	PP	23	146-PP-23		1	TAILINGS PUMP 2	F Mechanical	Pump	Centrifugal Slurry	Various		230m3/h, 60% solids w/w, 1.66 SG, 45.2m TDH	6X4	Single stage pumping		1320	PUMPS - CENTRIFUGAL SLURRY	WARMAN	WARMAN	6/4 AH		Variable	75.00	
C	New	F-106	PP	24	146-PP-24	1		TAILINGS AREA SUMP PUMP	F Mechanical	Pump	Vertical Spindle	Various	-	50m³/hr @ 12m TDH Water	6S SPR	50m³/hr @ 12m TDH water Warman 6SSPR c/w 7.5kW motor		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	6SSPR		Fixed		7.50
AREA NO.160 - LEACHING																										**364.91**
C	New	F-103	CN	01	161-CN-01	1		CIL AREA CRANE	F Mechanical	Crane/Hoist	Bridge Crane w/ Auxiliary Hoists	Mild Steel	-	-	10t			1090	CRANES & HOISTS	KONE	KONE			Fixed		12.91
B	New	F-103	BX	01	161-BX-01	1		CIL FEED BOX	E Platework	Box	-	Mild Steel (6 mm nat. rubber lined)	-	186m³/hr	0.5m³	0.5m³ approx 8 secs residence time										
D	Fut.	F-103	SA	01	161-SA-01	1		LEACH FEED SAMPLER	F Mechanical	Sampler	Cross Cut (2 in 1)	Mild Steel	-		Diameter 10.00 m x 11.0 m O/A	Without roof, c/w internal O/F box										
C	New	F-103	TK	01	161-TK-01	1		LEACH TANK	E Platework	Tank	Vertical Open	Mild Steel	-	790 m³ / tank live volume	Diameter 10.00 m x 11.0 m O/A	Without roof, c/w internal O/F box						10m dia. x 10m H				
C	New	F-103	TK	01	161-TK-01	1		CIL TANK 1	E Platework	Tank	Vertical Open	Mild Steel	-	790 m³ / tank live volume	Diameter 10.00 m x 11.0 m O/A	Without roof, c/w internal O/F box						10m dia. x 10m H				
C	New	F-103	TK	02	161-TK-02	1		CIL TANK 2	E Platework	Tank	Vertical Open	Mild Steel	-	790 m³ / tank live volume	Diameter 10.00 m x 11.0 m O/A	Without roof, c/w internal O/F box						10m dia. x 10m H				
C	New	F-103	TK	03	161-TK-03	1		CIL TANK 3	E Platework	Tank	Vertical Open	Mild Steel	-	790 m³ / tank live volume	Diameter 10.00 m x 11.0 m O/A	Without roof, c/w internal O/F box						10m dia. x 10m H				
C	New	F-104	TK	04	161-TK-04	1		CIL TANK 4	E Platework	Tank	Vertical Open	Mild Steel	-	790 m³ / tank live volume	Diameter 10.00 m x 11.0 m O/A	Without roof, c/w internal O/F box						10m dia. x 10m H				

Rev	Status	Flow Sheet	Equipment Identifier	Numerical Identifier	Equipment Number	Duty Qty	S/By Qty	Equipment Name	Generic Type 1	Generic Type 2	Generic Type 3	Matl of Constr. (incl. Lining)	Process Duty Point	Design Duty Point	Size	Notes/Comments	Spec / Data Sheet No	BQR Package No.	BQR Package Name	Recommended Supplier	Manufacturer	Model No.	Detail Dwg No.	Fixed/ Variable Speed	FUTURE kW Inst.	kW Inst.
C	New	F-104	TK	05	161-TK-05	1		CIL TANK 5	E Platework	Tank	Vertical Open	Mild Steel	-	790 m³ / tank live volume	Diameter 10.00 m x 11.0 m O/A	Without roof, c/w internal O/F box						10m dia. x 10m H				
C	New	F-104	TK	06	161-TK-06	1		CIL TANK 6	E Platework	Tank	Vertical Open	Mild Steel	-	790 m³ / tank live volume	Diameter 10.00 m x 11.0 m O/A	Without roof, c/w internal O/F box						10m dia. x 10m H				
B	New	F-103	LA	01	161-LA-01	1		INTERTANK LAUNDER 1	E Platework	Launder	Launder	Mild Steel	-	-	Included in tank	Incldude 2 x launder gates										
B	New	F-103	LA	02	161-LA-02	1		INTERTANK LAUNDER 2	E Platework	Launder	Launder	Mild Steel	-	-	Included in tank	Incldude 2 x launder gates										
B	New	F-103	LA	03	161-LA-03	1		INTERTANK LAUNDER 3	E Platework	Launder	Launder	Mild Steel	-	-	Included in tank	Incldude 2 x launder gates										
B	New	F-103	LA	04	161-LA-04	1		INTERTANK LAUNDER 4	E Platework	Launder	Launder	Mild Steel	-	-	Included in tank	Incldude 2 x launder gates										
B	New	F-104	LA	05	161-LA-05	1		INTERTANK LAUNDER 5	E Platework	Launder	Launder	Mild Steel	-	-	Included in tank	Incldude 2 x launder gates										
B	New	F-104	LA	05	161-LA-05	1		INTERTANK LAUNDER 6	E Platework	Launder	Launder	Mild Steel	-	-	Included in tank	Incldude 2 x launder gates										
B	New	F-104	LA	06	161-LA-06	1		CIL DISCHARGE LAUNDER	E Platework	Launder	Launder	Mild Steel	-		Included in tank	-										
C	New	F-103	SC	01	161-SC-01	1		INTERTANK SCREEN 1	F Mechanical	Screen	Intertank	Various	-	186m³/hr	1.6 m dia x 6.080 m O/A length,	MPS 350 3.5m² Vertical Mechanically swept Screen		1220	INTERTANK SCREENS					Fixed		5.60
C	New	F-103	SC	02	161-SC-02	1		INTERTANK SCREEN 2	F Mechanical	Screen	Intertank	Various	-	186m³/hr	1.6 m dia x 6.080 m O/A length,	MPS 350 3.5m² Vertical Mechanically swept Screen		1220	INTERTANK SCREENS					Fixed		5.60
C	New	F-103	SC	03	161-SC-03	1		INTERTANK SCREEN 3	F Mechanical	Screen	Intertank	Various	-	186m³/hr	1.6 m dia x 6.080 m O/A length,	MPS 350 3.5m² Vertical Mechanically swept Screen		1220	INTERTANK SCREENS					Fixed		5.60
C	New	F-104	SC	04	161-SC-04	1		INTERTANK SCREEN 4	F Mechanical	Screen	Intertank	Various	-	186m³/hr	1.6 m dia x 6.080 m O/A length,	MPS 350 3.5m² Vertical Mechanically swept Screen		1220	INTERTANK SCREENS					Fixed		5.60
C	New	F-104	SC	05	161-SC-05	1		INTERTANK SCREEN 5	F Mechanical	Screen	Intertank	Various	-	186m³/hr	1.6 m dia x 6.080 m O/A length,	MPS 350 3.5m² Vertical Mechanically swept Screen		1220	INTERTANK SCREENS					Fixed		5.60
C	New	F-104	SC	06	161-SC-06	1		INTERTANK SCREEN 6	F Mechanical	Screen	Intertank	Various	-	186m³/hr	1.6 m dia x 6.080 m O/A length,	MPS 350 3.5m² Vertical Mechanically swept Screen		1220	INTERTANK SCREENS					Fixed		5.60
C	New	F-103	AL	11	161-AL-11	1		AIR LIFT No 1	E Platework							Ø 150 MS pipe construction.										
C	New	F-103	AL	12	161-AL-12	1		AIR LIFT No 2	E Platework							Ø 150 MS pipe construction.										
C	New	F-104	AL	13	161-AL-13	1		AIR LIFT No 3	E Platework							Ø 150 MS pipe construction.										
C	New	F-104	AL	14	161-AL-14	1		AIR LIFT No 4	E Platework							Ø 150 MS pipe construction.										
C	New	F-104	AL	15	161-AL-15	1		AIR LIFT No 5	E Platework							Ø 150 MS pipe construction.										
C	New	F-103	PP	16	161-PP-16	1		LOADED CARBON RECOVERY PUMP	F Mechanical	Pump	Vertical Recessed Impeller	Various		67 m3/hr @ 3.5m TDH	4/4 TC	Based on 6hr/day advance		1370	PUMPS - VERTICAL CANTILEVER	Warman	Warman	4/4 TC		Fixed		11.00
B	New	F-103	CH	01	161-CH-01	1		CARBON RECOVERY SCREEN FEED CHUTE	E Platework	Chute	Chute	Mild Steel (6 mm rubber lined)	-	-	-	-										
C	New	F-103	SC	07	161-SC-07	1		CARBON RECOVERY SCREEN	F Mechanical	Screen	Vibratory (Wet)	Various		67m3/h total flow rate, 0.7 x 18.5 mm aperture, polyurethane deck material	0.915 x 1.83mm, Aperture size 0.8 mm x 18.5 mm c/w 2 x 1.6	0.915 x 1.83mm, Aperture size 0.8 mm x 18.5 mm c/w 2 x 1.6	MS-002	1480	VIBRATING SCREENS & GRIZZLY	JOEST	JOEST			Fixed		3.20
B	New	F-103	ST	01	161-ST-01	1		CARBON RECOVERY SCREEN ISOLATION FRAME	E Platework	Frame	Isolation	Mild Steel	-	-	-	incl with screen										
B	New	F-103	CH	02	161-CH-02	1		LOADED CARBON RECOVERY SCREEN O/S CHUTE	E Platework	Chute	Chute	Mild Steel (6 mm rubber lined)	-	-	-	-										
B	New	F-103	CH	03	161-CH-03	1		LOADED CARBON RECOVERY SCREEN UNDERSIZE CHUTE	E Platework	Chute	Chute	Mild Steel (6 mm rubber lined)	-	-	-	-										
C	New	F-103	AG	01	161-AG-01	1		CIL TANK 1 AGITATOR	F Mechanical	Mixer	Agitator - Slurry, Axial flow	Mild Steel (6mm rubber lined)			Impeller dia. 3.9m x 9.5m shaft length	Dual stage, RL impellers c/w gearbox drive	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		45.00
C	New	F-103	AG	02	161-AG-02	1		CIL TANK 2 AGITATOR	F Mechanical	Mixer	Agitator - Slurry, Axial flow	Mild Steel (6mm rubber lined)			Impeller dia. 3.9m x 9.5m shaft length	Dual stage, RL impellers c/w gearbox drive	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		45.00
C	New	F-103	AG	03	161-AG-03	1		CIL TANK 3 AGITATOR	F Mechanical	Mixer	Agitator - Slurry, Axial flow	Mild Steel (6mm rubber lined)			Impeller dia. 3.9m x 9.5m shaft length	Dual stage, RL impellers c/w gearbox drive	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		45.00
C	New	F-104	AG	04	161-AG-04	1		CIL TANK 4 AGITATOR	F Mechanical	Mixer	Agitator - Slurry, Axial flow	Mild Steel (6mm rubber lined)			Impeller dia. 3.9m x 9.5m shaft length	Dual stage, RL impellers c/w gearbox drive	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		45.00
C	New	F-104	AG	05	161-AG-05	1		CIL TANK 5 AGITATOR	F Mechanical	Mixer	Agitator - Slurry, Axial flow	Mild Steel (6mm rubber lined)			Impeller dia. 3.9m x 9.5m shaft length	Dual stage, RL impellers c/w gearbox drive	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		45.00
C	New	F-104	AG	06	161-AG-06	1		CIL TANK 6 AGITATOR	F Mechanical	Mixer	Agitator - Slurry, Axial flow	Mild Steel (6mm rubber lined)			Impeller dia. 3.9m x 9.5m shaft length	Dual stage, RL impellers c/w gearbox drive	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		45.00
B	New	F-104	CH	05	161-CH-05	1		CARBON SIZING SCREEN FEED CHUTE	E Platework	Chute	Chute	Mild Steel	-	-	-	-										
C	New	F-104	SC	08	161-SC-08	1		CARBON SIZING SCREEN	F Mechanical	Screen	Vibratory (Wet)	Various		67m3/h total flow rate, 0.7 x 18.5 mm aperture, polyurethane deck material	0.915 x 1.83mm, Aperture size 0.8 mm x 18.5 mm c/w 2 x 1.6	0.915 x 1.83mm, Aperture size 0.8 mm x 18.5 mm c/w 2 x 1.6	MS-002	1480	VIBRATING SCREENS & GRIZZLY	JOEST	JOEST			Fixed		3.20
B	New	F-104	ST	03	161-ST-03	1		CARBON SIZING SCREEN ISOLATION FRAME	E Platework	Frame	Isolation	Mild Steel	-	-	1280 mm x 2400 mm	Fitted with vibration isolation springs, refer to MDS-061										
B	New	F-104	CH	06	161-CH-06	1		CARBON SIZING SCREEN O/S CHUTE	E Platework	Chute	Chute	Mild Steel	-	-	-	-										
B	New	F-104	CH	07	161-CH-07	1		CARBON SIZING SCREEN U/S CHUTE	E Platework	Chute	Chute	Mild Steel	-	-	-	-										
B	New	F-104	LA	07	161-LA-07	1		CARBON SIZING SCREEN OVERFLOW LAUNDER	E Platework	Launder	Launder	Mild Steel	-	-	-	-										
C	New	F-103	PP	17	161-PP-17	1		CIL AREA SUMP PUMP 1	F Mechanical	Pump	Vertical Spindle	Various	-	50 m3/hr @ 16m TDH	65 SPR	Vertical cantilever, 1800 mm spindle		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	65SPR		Fixed		11.00
C	New	F-104	PP	18	161-PP-18	1		CIL AREA SUMP PUMP 2	F Mechanical	Pump	Vertical Spindle	Various	-	50 m3/hr @ 16m TDH	65 SPR	Vertical cantilever, 1800 mm spindle		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	65SPR		Fixed		11.00
D	Fut.	F-103	SA	02	161-SA-02	1		CIL TAILS SAMPLER	F Mechanical	Sampler	Cross Cut (2 in 1)	Mild Steel	-		Diameter 10.00 m x 11.0 m O/A	Without roof, c/w internal O/F box										
B	New	F-104	CH	08	161-CH-08	1		CARBON SAFETY SCREEN FEED BOX	E Platework	Chute	Chute	Mild Steel (6 mm nat. rubber lined)	-	-	-	-										
D	New	F-104	SC	09	161-SC-09	1		CARBON SAFETY SCREEN	F Mechanical	Screen	Vibratory (Wet)	Various		186 m3/h total flow rate, 1.0 x 18.0 mm aperture, polyurethane deck material	1.20 x 3.60m	Vibrating Horizontal 2 x 3kW vibrating motors	MS-002	1480	VIBRATING SCREENS & GRIZZLY	JOEST	JOEST			Fixed		6.00
B	New	F-104	ST	04	161-ST-04	1		CARBON SAFETY SCREEN ISOLATION FRAME	E Platework	Frame	Isolation	Mild Steel	-	-	4450 mm W x 7035 mm L	Fitted with vibration isolation springs refer to MDS-061.										
B	New	F-104	CH	09	161-CH-09	1		CARBON SAFETY SCREEN O/S CHUTE	E Platework	Chute	Chute	Mild Steel (plastic lined/epoxy painted)	-	-	-	-										
B	New	F-104	BN	01	161-BN-01	1		FINE CARBON COLLECTION BIN	E Platework	Bin	Bin	Mild Steel	-	-	-	Forkliftable Skip bin										
B	New	F-104	CH	10	161-CH-10	1		CARBON SAFETY SCREEN U/S CHUTE	E Platework	Chute	Chute	Mild Steel (6 mm nat. rubber lined)	-	-	-	-										
B	New	F-104	LA	08	161-LA-08	1		CARBON SAFETY SCREEN U/S LAUNDER	E Platework	Launder	Launder	Mild Steel (6 mm nat. rubber lined)	-	-	-	Parts A,B,C,D										
D	New	F-104	ZM	04	161-ZM-04	1		CYANIDE ANALYSER	J Instrumentation & Control	Ore Size Analyser			-	-	-	Parts A,B,C,D								Fixed		3.00
AREA NO. 170 - DESORPTION																										**121.83**
A	New	F-109	CH	01	171-CH-01	1		CARBON DEWATERING SCREEN FEED CHUTE	E Platework	Chute	Chute	Mild Steel (rubber lined)	-	-	-	-										
C	New	F-109	SC	01	171-SC-01	1		CARBON DEWATERING SCREEN	F Mechanical	Screen	Vibratory (Wet)	Various	50 m3/h total flow rate, 0.7 x 18.0 mm aperture, polyurethane deck material	60 m3/h total flow rate, 0.7 x 18.0 mm aperture, polyurethane deck material	1.22 x 2.45 Aperture size 0.7 x 18mm	Vibrating Horizontal 2 x 2.4kW vibrating motors	MS-002	1480	VIBRATING SCREENS & GRIZZLY	JOEST	JOEST			Fixed		4.80
A	New	F-109	ST	01	171-ST-01	1		CARBON DEWATERING SCREEN ISOLATION FRAME	E Platework	Frame	Isolation	Mild Steel	-	-	1696 mm W x 4460 mm L	-										
A	New	F-109	CH	02	171-CH-02	1		CARBON DEWATERING SCREEN O/S CHUTE	E Platework	Chute	Chute	Mild Steel	-	-	-	-										
A	New	F-109	CH	03	171-CH-03	1		CARBON DEWATERING SCREEN U/S CHUTE	E Platework	Chute	Chute	Mild Steel	-	-	-	-										
C	New	F-109	HP	01	171-HP-01	1		CARBON REGENERATION KILN FEED HOPPER	E Platework	Hopper	Hopper	Mild Steel			18m3	part of Regen Kiln package	MDS-53	1050	CARBON REGEN KILN	ANSAC	ANSAC	18m3				
C	New	F-109	RO	01	171-RO-01	1		CARBON REGENERATION KILN	F Mechanical	Kiln	Regeneration	Various		140 kg/h, horizontal, Diesel fired	HK510D	c/w burner, fan, diesel filters, drip tray, exhaust stack, control panel, 304 S/S exhaust stack, c/w control panel and motor starters	MDS-53	1050	CARBON REGEN KILN	ANSAC	ANSAC	HK510D		Variable		1.63
D	Fut.	F-109	ZM	01	171-ZM-01	1		REGEN KILN SCRUBBER	F Mechanical	Scrubber	-	Various		-	-	3,200 m³/hr @ 500 Pa centrifugal fan fitted with stainless steel case, fan impeller -								Fixed	2.20	
D	Fut.	F-109	PP	02	171-PP-02	1		REGEN KILN SCRUBBER PUMP	F Mechanical	Pump	Centrifugal Solution													Fixed	5.50	
C	New	F-109	TK	01	171-TK-01	1		CARBON QUENCH TANK	F Mechanical	Pressure Vessel	-	Mild Steel	-		3.5 m dia x 2.6m H, 60 deg conical bottom	Conical base vessel c/w internal screens, float valve & lid									2.20	

Rev	Status	Flow Sheet	Equipment Identifier	Numerical Identifier	Equipment Number	Duty Qty	S/By Qty	Equipment Name	Generic Type 1	Generic Type 2	Generic Type 3	Matl of Constr. (incl. Lining)	Process Duty Point	Design Duty Point	Size	Notes/Comments	Spec / Data Sheet No	BQR Package No.	BQR Package Name	Recommended Supplier	Manufacturer	Model No.	Detail Dwg No.	Fixed/ Variable Speed	FUTURE kW Inst.	kW Inst.
C	New	F-109	PP	19	171-PP-19	1		CARBON TRANSFER PUMP	F Mechanical	Pump	Centrifugal Slurry	Various		30m³/h @ 14.5 m TDH, 1.02 SG	2/2 TC	Centrifugal horizontal vortex impeller Warman TC pump		1320	PUMPS - CENTRIFUGAL SLURRY	Warman	Warman	2/2 TC		Fixed	5.50	7.50
C	New	F-109	CN	01	171-CN-01	1		CARBON LOADING HOIST	F Mechanical	Crane/Hoist	Electric Hoist	Mild Steel	-	-	1.5 tonne, 12m lift, 14.5m travel			1090	CRANES & HOISTS	KONE	KONE			Fixed	5.50	3.70
C	New	F-109	PP	17	171-PP-17	1		CARBON REGEN AREA SUMP PUMP	F Mechanical	Pump	Vertical Spindle	Various	-	50 m3/hr @ 16m TDH	65 SPR	Vertical cantilever, 1800 mm spindle		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	65SPR		Fixed	24.50	11.00
C	New	F-107	CM	01	171-CM-01	1		ACID WASH COLUMN	E Platework	Vessel	Pressure	Mild Steel (6 mm nat. rubber lined)	4.5 tonne carbon capacity, 10.86 m^3 total volume.	4.5 tonne carbon capacity, 10.86 m^3 total volume.	1.219 ID x 9.5.m	Rubber Lined Mild Steel		1000	ACID WASH & ELUTION COLUMNS	ALLOYTECH	ALLOYTECH				4.00	
C	New	F-107	FL	01	171-FL-01	1		ACID WASH FILTER 1	F Mechanical	Filter	Cartridge	Polypropylene		18.2 m3/h, 560 micron aperture, 600 kPa	80 mm NB			1550	FILTERS						5.60	
C	New	F-107	FL	02	171-FL-02		1	ACID WASH FILTER 2	F Mechanical	Filter	-	Polypropylene		18.2 m3/h, 560 micron aperture, 600 kPa	80 mm NB			1550	FILTERS						37.00	
C	New	F-107	CM	02	171-CM-02	1		ELUTION COLUMN	E Platework	Vessel	Pressure	SS304L	4.5 tonne carbon capacity, 10.83 m^3 total volume.	4.5 tonne carbon capacity, 10.83 m^3 total volume.	1.219 ID x 8.70 m tan to tan	Insulated for Personnel Protection		1000	ACID WASH & ELUTION COLUMNS	ALLOYTECH	ALLOYTECH					
C	New	F-107	FL	03	171-FL-03	1		ELUATE FILTER 1	F Mechanical	Filter	Cartridge	SS316		18.2 m3/h capacity, 8 bar TDH, 1 SG, aperture 500 µm @ 140 °deg C	DN 80 x 1000 L	Insulated for Personnel Protection		1550	FILTERS							
C	New	F-107	FL	04	171-FL-04		1	ELUATE FILTER 2	F Mechanical	Filter	-	SS316		18.2 m3/h capacity, 8 bar TDH, 1 SG, aperture 500 µm @ 140 °deg C	DN 80 x 1000 L	Insulated for Personnel Protection		1550	FILTERS							
C	New	F-107	TK	02	171-TK-02	1		TRANSFER WATER TANK	E Platework	Tank	Vertical Closed	Mild Steel	30m3	30m3 Live capacity	2.68m dia x 2.87 O/A	30m³ industrial poly tank										
C	New	F-107	PP	25	171-PP-25	1		TRANSFER WATER PUMP	F Mechanical	Pump	Helical Rotor	Various	-	18.2 m3/h @ 25 m TDH, 1.0 SG	-	Helical Rotor pump		1330	PUMPS - SOLUTION	DYNAPUMPS	NETZSCH			Fixed		3.00
B	New		VS	01	171-VS-01	1		ELUATE EXPANSION TANK	F Mechanical	Pressure Vessel	-	SS 304	3.7 m3 live capacity	3.7 m3 live capacity	0.9 m dia, 5.9 m O/A	AS 1210 pressure vessel										
C	New	F-107	HX	01	171-HX-01	1		STRIP SOLUTION HEATER	F Mechanical	Heater	Diesel Fuel Fired	Various	Elution - 900kW / Preheat - 1400kW (90mins)	1750kW design	1750kW rating, 135°C	Diesel fired oil heaters c/w modulating controller. Installed power shown includes for all ancillaries		1300	PROCESS HEATING SYSTEM	CUSTOM FURNACES	CUSTOM FURNACES	TM1750		Fixed		37.00
C	New	F-107	FA	01	171-FA-01	1		STRIP SOLUTION HEATER BURNER FAN	F Mechanical	Fan	-	Various	-	-	-	included in Strip Solution Heater package		1300	PROCESS HEATING SYSTEM	CUSTOM FURNACES	CUSTOM FURNACES					
C	New	F-107	PP	26	171-PP-26	1		STRIP SOLUTION HEATER DIESEL PUMP	F Mechanical	Pump	-	Various	-	-	-	-										
C	New	F-107	SX	01	171-SX-01	1		STRIP SOLUTION HEATER STACK	E Platework	Misc.	Fume Hood	Mild Steel (Galvanised)	-	-	Dia 450mm	-										
C	New	F-107	PP	27	171-PP-27	1		HEATER OIL RECIRCULATION PUMP	F Mechanical	Pump	Centrifugal Solution	Various	60m3/h		-	included in Strip Solution Heater package		1300	PROCESS HEATING SYSTEM	CUSTOM FURNACES	CUSTOM FURNACES			Fixed		
C	New	F-107	HX	02	171-HX-02	1		PRIMARY HEAT EXCHANGER NO.1	F Mechanical	Heat Exchanger	Plate and frame	SS 316 L	Eluant - 17m3/h / Oil - 60m3/h	-	1126 x 440 x 1712 mm	Plate Type, included in Strip Solution Heater package		1300	PROCESS HEATING SYSTEM	CUSTOM FURNACES	CUSTOM FURNACES					
C	New	F-107	HX	03	171-HX-03	1	1	RECOVERY HEAT EXCHANGER NO.1	F Mechanical	Heat Exchanger	Plate and frame	SS 316 L	Eluant - 17m3/h	-	621 x 440 x 1712 mm	Plate Type, included in Strip Solution Heater package		1300	PROCESS HEATING SYSTEM	CUSTOM FURNACES	CUSTOM FURNACES					
C	New	F-107	HX	04	171-HX-04	1		PRIMARY HEAT EXCHANGER NO.2	F Mechanical	Heat Exchanger	Plate and frame	SS 316 L	Eluant - 17m3/h / Oil - 60m3/h	-	1126 x 440 x 1712 mm	Plate Type, included in Strip Solution Heater package		1300	PROCESS HEATING SYSTEM	CUSTOM FURNACES	CUSTOM FURNACES					
C	New	F-107	HX	05	171-HX-05	1	1	RECOVERY HEAT EXCHANGER NO.2	F Mechanical	Heat Exchanger	Plate and frame	SS 316 L	Eluant - 17m3/h	-	621 x 440 x 1712 mm	Plate Type, included in Strip Solution Heater package		1300	PROCESS HEATING SYSTEM	CUSTOM FURNACES	CUSTOM FURNACES					
C	New	F-107	TK	03	171-TK-03	1		STRIP SOLUTION TANK	E Platework	Tank	Vertical Closed	Mild Steel	78 m3 (8.6 BV)	78 m3 (8.6 BV)	Dia 4.6m x 5.5m O/A	c/w roof, full wall insulated and clad										
D	New	F-107	PP	28	171-PP-28	1		STRIP SOLUTION PUMP 1	F Mechanical	Pump	Helical Rotor	Grey Cast Iron with 316SS Rotor	18.2 m3/h capacity, 75 m TDH, 1 SG	18.2 m3/h capacity, 75 m TDH, 1 SG		2% w/v NaOH and 2% CN, solution @ 100°C, 316 SS rotor and EPDM stator required.		1330	PUMPS - SOLUTION	DYNAPUMPS	NETZSCH			Fixed		5.50
C	New	F-107	TK	04	171-TK-04	1		PREGNANT SOLUTION TANK	E Platework	Tank	Vertical Closed	Mild Steel	78 m3 (8.6 BV)	78 m3 (8.6 BV)	Dia 4.6m x 5.5m O/A	C/w roof, full wall insulated and clad										
C	New	F-107	PP	30	171-PP-30	1		PREGNANT SOLUTION PUMP No.1	F Mechanical	Pump	Centrifugal Solution	Various	18.2m3/h @ 34 m TDH, 1.0 SG	18.2m3/h @ 34 m TDH, 1.0 SG	100 mm suction, 65 mm discharge	2% w/v NaCN, 3% w/v NaOH @ 70°C, 316 SS impeller required		1330	PUMPS - SOLUTION	DYNAPUMPS	SULZER			Fixed		11.00
C	New	F-107	PP	35	171-PP-35	1		PREGNANT SOLUTION PUMP No.2	F Mechanical	Pump	Centrifugal Solution	Various	18.2m3/h @ 34 m TDH, 1.0 SG	18.2m3/h @ 34 m TDH, 1.0 SG	100 mm suction, 65 mm discharge	2% w/v NaCN, 3% w/v NaOH @ 70°C, 316 SS impeller required		1330	PUMPS - SOLUTION	DYNAPUMPS	SULZER			Fixed		11.00
C	New	F-107	PP	31	171-PP-31	1		STRIPPING WATER/ TREATED WATER TANK ANTI-SCALANT PUMP	F Mechanical	Pump	Diaphragm/Peristaltic	Various	30 m3/hr @ 10 m TDH	-	Dia 4.6m x 5.5m O/A	Diaphragm pump 220 v, owner supply		1330	PUMPS - SOLUTION					Fixed		2.20
C	New	F-107	PP	32	171-PP-32	1		SULPHAMIC ACID PUMP	F Mechanical	Pump	Peristaltic	Various	-	1.8 m3/hr @ 8 m TDH	Suction / Discharge 25 NB BS4505 PN16	Peristaltic pump - part of strip solution heater package							Fixed		1.50
C	New	F-107	PP	33	171-PP-33	1		ACID WASH COLUMN AREA SUMP PUMP	F Mechanical	Pump	Vertical Spindle	Various	-		40SPR	Vertical cantilever, 1200 mm spindle		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	40SPR		Fixed		11.00
C	New	F-107	PP	34	171-PP-34	1		PREGNANT SOLUTION AREA SUMP PUMP	F Mechanical	Pump	Vertical Spindle	Various	-		40SPR	Vertical cantilever, 1200 mm spindle		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	40SPR		Fixed		11.00
AREA NO. 180 - REFINING																										**95.15**
A	New	F-107	BX	01	181-BX-01	1		ELECTROWINNING CELL FEED DISTRIBUTOR	E Platework	Distributor	Solution	Mild Steel	-	-	Dia 0.7 m x 1 m O/A	2 way distributor.										
D	New	F-107	CL	01	181-CL-01	1		ELECTROWINNING CELL 1	F Mechanical	Cell	Electrowinning	SS 304 / Poly lined	-	12 cathodes per cell	-	c/w lid anode baskets & facility for fume extraction		1120	ELECTROWINNING CELLS & RECTIFIER	KEMIX	KEMIX					
D	New	F-107	RC	01	181-RC-01	1		ELECTROWINNING CELL 1 RECTIFIER	F Mechanical	Rectifier	Electrowinning		-		1500A			1120	ELECTROWINNING CELLS & RECTIFIER	KEMIX	KEMIX			Fixed		16.00
D	New	F-107	CL	02	181-CL-02	1		ELECTROWINNING CELL 2	F Mechanical	Cell	Electrowinning	SS 304 / Poly lined	-	12 cathodes per cell	-	c/w lid anode baskets & facility for fume extraction		1120	ELECTROWINNING CELLS & RECTIFIER	KEMIX	KEMIX					
D	New	F-107	RC	02	181-RC-02	1		ELECTROWINNING CELL 2 RECTIFIER	F Mechanical	Rectifier	Electrowinning		-		1500A			1120	ELECTROWINNING CELLS & RECTIFIER	KEMIX	KEMIX			Fixed		16.00
D	New	F-107	CL	02	181-CL-02	1		ELECTROWINNING CELL 3	F Mechanical	Cell	Electrowinning	SS 304 / Poly lined	-	12 cathodes per cell	-	c/w lid anode baskets & facility for fume extraction		1120	ELECTROWINNING CELLS & RECTIFIER	KEMIX	KEMIX					
D	New	F-107	RC	02	181-RC-02	1		ELECTROWINNING CELL 3 RECTIFIER	F Mechanical	Rectifier	Electrowinning		-		1500A			1120	ELECTROWINNING CELLS & RECTIFIER	KEMIX	KEMIX			Fixed		16.00
B	New	F-107	DU	01	181-DU-01	1		ELECTROWINNING CELL FUME DUCTING	E Platework	Ducting	Circular	SS 316	-	-	-	Also services drying ovens										
D	Fut.	F-107	ZM	01	181-ZM-01	1		ELECTROWINNING SCRUBBER	F Mechanical	Scrubber	Wet	Various		-	-	1,500 m³/hr @ 500 Pa centrifugal fan fitted with stainless steel case, fan impeller								Fixed	2.20	
D	Fut.	F-107	PP	01	181-PP-01	1		ELECTROWINNING SCRUBBER PUMP	F Mechanical	Pump	Centrifugal Solution					-								Fixed	5.50	
D	Fut.	F-107	FA	01	181-FA-01	1		ELECTROWINNING FAN	F Mechanical	Fan	Centrifugal (Single Stage)													Fixed	5.50	
C	New	F-107	ZM	01	181-ZM-01	1		CATHODE WASH HP SPRAY MACHINE	F Mechanical	Water Monitor	Water Monitor	Various	-	25000 kPa @ 550 L/h	-	-		1060	CATHODE SPRAYING MACHINE					Fixed	24.50	3.70
A	New	F-108	HP	01	181-HP-01	1		GOLDROOM SLUDGE FILTER HOPPER	E Platework	Hopper	Hopper					1 m3 capacity.1.15m dia x 1.2m h O/A MS construction epoxy lined,40mm top wash bar									4.00	
C	New	F-108	FL	01	181-FL-01	1		GOLDROOM SLUDGE FILTER NO.1	F Mechanical	Filter		Various	20L cake volume/ batch			20L Pressure Filter		1190	GOLDROOM SLUDGE FILTER						5.60	
C	New	F-108	FL	01	181-FL-01	1		GOLDROOM SLUDGE FILTER NO.2	F Mechanical	Filter		Various	20 cake volume/ batch			20L Pressure Filter		1190	GOLDROOM SLUDGE FILTER						37.00	
C	New	F-108	DR	01	181-DR-01	1		DRYING OVEN	F Mechanical	Drier	Electric oven	Various	-		1045 x 1275 x 1310 mm (internal) x 9 trays	Electric, calcine		1170	GOLDROOM DRYING OVEN	ANSAC				Fixed		19.00
A	New	F-108	ZM	03	181-ZM-03	1		DRYING OVEN TRAYS AND RACK	E Platework	Misc.	-	SS 316	-	-	-	9 S/S trays per oven 800x800x75		1170	GOLDROOM DRYING OVEN	ANSAC						
C	New	F-108	FC	01	181-FC-01	1		BARRING FURNACE	F Mechanical	Furnace	Bullion Smelting	Various	316 kg brass, Fuel fired	-	319 kg brass	Diesel fired		1180	GOLDROOM FURNACE	ANSAC	ANSAC	TA300		Fixed		0.55
C	New	F-108	ST	04	181-ST-04	1		BARRING FURNACE FUME HOOD	E Platework	Hood	-	SS 316	-	-	-	-										
A	New	F-108	ZM	04	181-ZM-04	5		POURING MOULDS	F Mechanical	Misc	-	Carbon	-	-	800 oz	Cascade Type		1180	GOLDROOM FURNACE	ANSAC						
A	New	F-108	HP	02	181-HP-02	1		FLUX STORAGE HOPPER	E Platework	Hopper	Hopper	SS 304	-	-	-	-										
C	New	F-108	SL	01	181-SL-01	1		BULLION BALANCE	F Mechanical	Weigher	Balance scale	Various	-	-	-	34kg electronic balance										
C	New	F-108	ZM	05	181-ZM-05	1		GOLDROOM SAFE	F Mechanical	Safe	Safe	Various	-	-	0.6m³	TDR resistant, key and combination		1200	GOLDROOM SAFE & DOOR							
C	New	F-108	ZM	06	181-ZM-06	1		STRONG ROOM DOOR	F Mechanical	Misc		Mild Steel		-	1950 x 860 mm	-		1200	GOLDROOM SAFE & DOOR							
C	New	F-108	FA	05	181-FA-05	1		SMELTING FURNACE EXTRACTION FAN	E Platework	Hood	-	Mild Steel	-	-	-	15000 m³/hr @ 1000 Pa centrifugal fan fitted with stainless steel case, fan impeller										5.50
C	New	F-108	PP	36	181-PP-36	1		GOLDROOM AREA SUMP PUMP	F Mechanical	Pump	Vertical Spindle	Various	-		40SPR	Vertical cantilever, 1200mm spindle		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	40SPR		Fixed		11.00
C	New	F-107	FA	02	181-FA-02	1		GOLDROOM VENTILATION FAN No 1	F Mechanical	Fan	Centrifugal	Various	-	10000 Am3/h @ 500 Pa	-	roof vent fan c/w weather cowal		1140	FANS					Fixed		3.70
C	New	F-107	FA	03	181-FA-03	1		GOLDROOM VENTILATION FAN No2	F Mechanical	Fan	Centrifugal	Various	-	10000 Am3/h @ 500 Pa	-	roof vent fan c/w weather cowal		1140	FANS					Fixed		3.70

Rev	Status	Flow Sheet	Equipment Identifier	Numerical Identifier	Equipment Number	Duty Qty	S/By Qty	Equipment Name	Generic Type 1	Generic Type 2	Generic Type 3	Matl of Constr. (incl. Lining)	Process Duty Point	Design Duty Point	Size	Notes/Comments	Spec / Data Sheet No	BQR Package No.	BQR Package Name	Recommended Supplier	Manufacturer	Model No.	Detail Dwg No.	Fixed/ Variable Speed	FUTURE kW Inst.	kW Inst.
AREA NO. 340 - TAILINGS DAM																										**46.60**
D	New	F-110	PP	37	344-PP-37	1		DECANT RETURN PUMP	F Mechanical	Pump	Submersible	Various	98 m3/hr @ 30m TDH	118m3/hr @ 34m TDH	DN100 Discharge	Submersible, c/w 30 cable		1330	PUMPS - SOLUTION	DYNAPUMPS				Fixed		30.00
D	New	F-110	PP	38	344-PP-38	1		UNDERDRAINAGE PUMP	F Mechanical	Pump	Submersible	Various	-	50 m3/hr @ 40m TDH	150mm	Submersible / Bore, c/w 60m cable		1330	PUMPS - SOLUTION	DYNAPUMPS				Fixed		11.00
D	New	F-110	PP	39	344-PP-39	1		SEEPAGE PUMP	F Mechanical	Pump	Submersible	Various	-	15 m3/hr @ 40m TDH	80mm	Submersible / Bore, c/w 60m cable		1330	PUMPS - SOLUTION	DYNAPUMPS				Fixed		5.60
D	New	F-110	PP	40	344-PP-40	1		PORTABLE MONITORING BORE PUMP	F Mechanical	Pump	Submersible	Various	-	sample only, 30 m TDH	-	Portable submersible bore sampling pump c/w diesel power supply, c/w 30m cable		1330	PUMPS - SOLUTION	DYNAPUMPS						
AREA NO.230 - WATER SERVICES																										**264.40**
C	New	F-111	TK	01	232-TK-01	1		RAW WATER TANK	Tankage	Tank	Vertical Open	Mild Steel	-	-	9m dia. x 8m H											
C	New	F-111	PP	41	232-PP-41	1		RAW WATER PUMP 1	F Mechanical	Pump	Centrifugal Solution	Various	-	100 m3/hr @ 50 m TDH	Suction 150 NB ANSI, Discharge 100 NB ANSI	Centrifugal		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		30.00
C	New	F-111	PP	42	232-PP-42		1	RAW WATER PUMP 2	F Mechanical	Pump	Centrifugal Solution	Various	-	100 m3/hr @ 50 m TDH	Suction 150 NB ANSI, Discharge 100 NB ANSI	Centrifugal		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		30.00
D	Fut.	F-115	ZM	01	232-ZM-01	1		MILL WATER CHILLER SYSTEM	F Mechanical	Chiller		Various				Chiller System. 2 x 9.5kW Compressors, 2 x 2.2kW Pump, 2 x 0.55kW Fans.								Fixed	24.50	
C	New	F-111	PP	48	235-PP-48	1		GLAND WATER PUMP 1	F Mechanical	Pump	Multi stage centrifugal vertical	Various	-	15 m3/hr @ 90m TDH	Suction 65 NB ANSI, Discharge 40 ANSI	Centrifugal		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		11.00
C	New	F-111	PP	49	235-PP-49		1	GLAND WATER PUMP 2	F Mechanical	Pump	Multi stage centrifugal vertical	Various	-	15 m3/hr @ 90m TDH	Suction 65 NB ANSI, Discharge 40 ANSI	Centrifugal		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		11.00
D	New	F-111	PP	50	238-PP-50		1	FIREWATER PUMP - DIESEL	F Mechanical	Pump	Centrifugal Solution	Various	-	72 m3/hr @ 70 m TDH	-	mounted on a common skid with control system etc.		1330	PUMPS - SOLUTION	DYNAPUMPS	DYNAPUMPS					
C	New	F-111	PP	51	238-PP-51	1		FIREWATER PUMP - JOCKEY	F Mechanical	Pump	Centrifugal Solution	Various	-	1 m3/hr @ 70 m TDH	-	mounted on a common skid with control system etc.		1330	PUMPS - SOLUTION	DYNAPUMPS	DYNAPUMPS			Fixed		1.10
C	New	F-111	PP	52	238-PP-52	1		FIREWATER PUMP - ELECTRICAL	F Mechanical	Pump	Centrifugal Solution	Various	-	72 m3/hr @ 70 m TDH	-	mounted on a common skid with control system etc.		1330	PUMPS - SOLUTION	DYNAPUMPS	DYNAPUMPS			Fixed		37.00
C	New	F-111	FH	01	238-FH-01	16		FIRE HYDRANTS	F Mechanical	Misc	Fire Hydrant	Various	-	-	-			1150	FIRE FIGHTING EQUIPMENT							
C	New	F-111	HR	01	238-HR-01	20		HOSE REELS	F Mechanical	Misc	Fire Hose Reel	Various	-	-	-			1150	FIRE FIGHTING EQUIPMENT							
D	Fut.	F-011	ZM	02	234-ZM-02	1		WATER TREATMENT PLANT	F Mechanical	Safety Shower	-	SS 316	-	-	-	Operated by compressed air cylinder-Standby								Fixed	4.00	
C	New	F-114	TK	01	233-TK-01	1		PROCESS WATER TANK	Tankage	Tank	Vertical Open	Mild steel	-	-	9m dia. x 8m H											
C	New	F-114	PP	53	233-PP-53	1		PROCESS WATER PUMP 1	F Mechanical	Pump	Centrifugal Solution	Various	125 m3/hr capacity, 40 m TDH	150 m3/hr @ 45 m TDH	Suction 125 NB ANSI, Discharge 80 NB ANSI	Centrifugal		1330	PUMPS - SOLUTION	DYNAPUMPS	SULZER			Fixed		30.00
C	New	F-114	PP	54	233-PP-54		1	PROCESS WATER PUMP 2	F Mechanical	Pump	Centrifugal Solution	Various	125 m3/hr capacity, 40 m TDH	150 m3/hr @ 45 m TDH	Suction 125 NB ANSI, Discharge 80 NB ANSI	Centrifugal		1330	PUMPS - SOLUTION	DYNAPUMPS	SULZER			Fixed		30.00
A	New		PO	01	312-PO-01	1		EVENT POND	B Earthworks	Pond	-	HDPE	-	-	800 m3	Double HDPE liner 1.5/1.0 mm										
C	New		PP	57	312-PP-57		1	EVENT POND SUBMERSIBLE PUMP	F Mechanical	Pump	Submersible	Various	-	110 m3/hr @ 35 m TDH, 1.3 SG	150mm discharge	Submersible, 20mm max particle size		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		30.00
D	New	F-112	CO	03	251-CO-03	1		MINE AIR COMPRESSOR	F Mechanical	Compressor	Rotary screw	Various	-	300m3/min @ 700 kPag	-	BY OTHERS - MINING	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	INGERSOL RAND	ML 30		Fixed		37.00
D	New	F-112	FL	01	251-FL-01	1		MINE AIR DRYER PRE FILTER	F Mechanical	Filter	-	Various	-	-	-	BY OTHERS - MINING	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	CONQUEST	G220U				
D	New	F-112	FL	02	251-FL-02	1		MINE AIR DRYER PRE FILTER	F Mechanical	Filter	-	Various	-	-	-	BY OTHERS - MINING	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	CONQUEST	G220U				
D	New	F-112	DR	01	251-DR-01	1		MINE AIR DRYER	F Mechanical	Drier	Dessicant	Various	-	-	-	BY OTHERS - MINING	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	CONQUEST	HX1050K		Fixed		6.10
D	New	F-112	VS	01	251-VS-01	1		MINE PLANT AIR RECEIVER	F Mechanical	Pressure Vessel	-	Mild Steel	-		3 m3	BY OTHERS - MINING	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	CAPS	VR5000				
D	New	F-113	TK	01	234-TK-01	1		MINE RAW WATER TANK	E Platework	Tank	Vertical Closed	Mild Steel (Galvanised)	-	46m3	46m3 - dia. 2.95 m x 3.16m	BY OTHERS - MINING										
D	New	F-113	PP	58	234-PP-58	1		MINE RAW WATER DISTRIBUTION PUMP 1	F Mechanical	Pump	Centrifugal Solution	Various	-	15 m3/hr @ 50m TDH		BY OTHERS - MINING		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		5.60
D	New	F-113	PP	59	234-PP-59		1	MINE RAW WATER DISTRIBUTION PUMP 2	F Mechanical	Pump	Centrifugal Solution	Various	-	15 m3/hr @ 50m TDH		BY OTHERS - MINING		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		5.60
A	New	F-113	ZM	01	234-ZM-01	1		MINE RAW WATER U/V STERILISER	F Mechanical	Misc						BY OTHERS - MINING										
C	New	F-115/116	ES	01	234-ES-01	18		SAFETY SHOWERS	F Mechanical	Safety Shower	-	SS 316	-	-	-											
C	New		ES	02	234-ES-02	2		PORTABLE SAFETY SHOWERS	F Mechanical	Safety Shower	-	SS 316	-	-	-	Operated by compressed air cylinder-Standby										
AREA NO. 250 - AIR SERVICES																mounted on a common skid with control system etc. VSD by others										**680.10**
D	New	F-112	CO	01	251-CO-01	1		AIR COMPRESSOR 1	F Mechanical	Compressor	Rotary screw	Various	-	600m3/min @ 700 kPag	-	Packaged rotary screw c/w all instruments, filters and controls.	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	INGERSOL RAND	ML 37		Fixed		37.00
D	New	F-112	CO	02	251-CO-02		1	AIR COMPRESSOR 2	F Mechanical	Compressor	Rotary screw	Various	-	600m3/min @ 700 kPag	-	Packaged rotary screw c/w all instruments, filters and controls.	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	INGERSOL RAND	ML 37		Fixed		37.00
C	New	F-112	FL	01	251-FL-01	1		AIR DRYER PRE FILTER	F Mechanical	Filter	-	Various	-	-	-	-	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	CONQUEST	G220U				
C	New	F-112	FL	02	251-FL-02	1		AIR DRYER PRE FILTER	F Mechanical	Filter	-	Various	-	-	-	-	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	CONQUEST	G220U				
C	New	F-112	DR	01	251-DR-01	1		AIR DRYER	F Mechanical	Drier	Dessicant	Various	-	-	-	To suit above compressor	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	CONQUEST	HX1050K		Fixed		6.10
D	New	F-112	VS	01	251-VS-01	1		PLANT AIR RECEIVER	F Mechanical	Pressure Vessel	-	Mild Steel	-		3 m3		MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	CAPS	VR5000				
C	New	F-105	BL	01	252-BL-01	1		CYANIDE DETOX BLOWER 1	F Mechanical	Compressor	Rotary			1200 Nm3/h air @255kPag		w/ aftercooler	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	INGERSOL RAND	C400-C50MX2		Fixed		150.00
C	New	F-105	BL	02	252-BL-02		1	CYANIDE DETOX BLOWER 2	F Mechanical	Compressor	Rotary			1200 Nm3/h air @255kPag		w/ aftercooler	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	INGERSOL RAND	C400-C50MX2		Fixed		150.00
C	New	F-112	BL	01	252-BL-01	1		CIL LOW PRESSURE AIR BLOWER 1	F Mechanical	Compressor	Rotary			900 Nm3/h air @255kPag		w/ aftercooler	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	INGERSOL RAND	C400-C50MX2		Fixed		150.00
C	New	F-112	BL	02	252-BL-02		1	CIL LOW PRESSUREAIR BLOWER 2	F Mechanical	Compressor	Rotary			900 Nm3/h air @255kPag		w/ aftercooler	MS-005	1070	COMPRESSED AIR & LP BLOWERS	CAPS	INGERSOL RAND	C400-C50MX2		Fixed		150.00
AREA NO. 210 - REAGENTS																										**111.71**
C	New	F-110	PP	67	216-PP-67	1		HCL ACID DRUM PUMP	F Mechanical	Pump	Peristaltic	Various	-	5 m3/hr @ 10m TDH, 1.16 SG	Suction/ Discharge 50 NB BS4504 PN16	Peristaltic pump, EDPM hose, 32% HCl solution		1330	PUMPS - SOLUTION	DYNAPUMPS	ASCO			Fixed		0.75
D	New	F-110	TK	01	216-TK-01	1		HCL ACID MIXING AND STORAGE TANK	E Platework	Tank	Vertical Closed	HDPE		10 m3 Live capacity	3.1m dia x 2.7 m high	c/w roof		1210	HDPE TANKS							
C	New	F-110	PP	68	216-PP-68	1		HCL ACID WASH PUMP	F Mechanical	Pump	Centrifugal Solution	Various	-	18.2m3/h @ 25m TDH, 1.16 SG		Magdrive pump, PVDF construction, 32% HCl solution		1330	PUMPS - SOLUTION	DYNAPUMPS	ARGAL			Fixed		2.20
C	New	F-110	PP	69	216-PP-69	1		ACID AREA SUMP PUMP	F Mechanical	Pump	Air Op Diaphragm	Various	-		-	Air operated polyethylene/polypropylene pump, air supply 560 kPa instrument quality air.		1370								
C	New	F-110	TK	01	214-TK-01	1		CAUSTIC MIXING AND STORAGE TANK	E Platework	Tank	Vertical Closed	Mild Steel	-	14 m3 Live capacity	2.86m dia x 2.7 m high	c/w roof, baffles										
C	New	F-110	AG	01	214-AG-01	1		CAUSTIC MIXING TANK AGITATOR	F Mechanical	Agitator	Top Entry	Wet End: 316 SS Drive End Casing: Mild Steel	-	Batch size 8 t	Impeller dia.0.94m x 1.93m shaft length	-	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		1.50
C	New	F-110	PP	70	214-PP-70	1		CAUSTIC DOSING PUMP	F Mechanical	Pump	Helical Rotor	Various	-	10 m3/hr @ 20 m TDH, 1.1 SG	-	20% w/v NaOH solution		1330	PUMPS - SOLUTION	DYNAPUMPS	NETZSCH			Variable		1.10
C	New	F-110	CN	02	211-CN-02	1		CYANIDE BAG LIFTING HOIST	F Mechanical	Crane/Hoist	Electric Hoist	Mild Steel	-	-	2.5t			1090	CRANES & HOISTS	KONE	KONE			Fixed		4.40
D	New	F-110	ST	01	211-ST-01	1		CYANIDE BAG BREAKER	E Platework	Bag Breaker		Mild Steel														
C	New	F-110	TK	01	211-TK-01	1		CYANIDE MIXING TANK	E Platework	Tank	Vertical Closed	Mild Steel	-	10 m3 live capacity	dia. 2.5 x 2.7m O/A	c/w roof.										
C	New	F-110	AG	01	211-AG-01	1		CYANIDE MIXING TANK AGITATOR	F Mechanical	Agitator	Top Entry	Wet End: 316 SS Drive End Casing: Mild Steel	-	-	Impeller dia 0.75m x 2.2m shaft length	-	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		2.20

Rev	Status	Flow Sheet	Equipment Identifier	Numerical Identifier	Equipment Number	Duty Qty	S/By Qty	Equipment Name	Generic Type 1	Generic Type 2	Generic Type 3	Matl of Constr. (incl. Lining)	Process Duty Point	Design Duty Point	Size	Notes/Comments	Spec / Data Sheet No	BQR Package No.	BQR Package Name	Recommended Supplier	Manufacturer	Model No.	Detail Dwg No.	Fixed/ Variable Speed	FUTURE kW Inst.	kW Inst.
C	New	F-110	PP	71	211-PP-71	1		CYANIDE TRANSFER PUMP	F Mechanical	Pump	Centrifugal Solution	Various		50 m3/hr @ 20m TDH, 1.1 SG	Suction 125 NB ANSI, Discharge 100 NB ANSI	20% w/v NaCN solution		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		5.60
C	New	F-110	TK	02	211-TK-02	1		CYANIDE STORAGE TANK	E Platework	Tank	Vertical Closed	Mild Steel	-	15 m3 live capacity	dia. 2.8m x 3.0 m H	c/w roof.										
C	New	F-110	PP	72	211-PP-72	1		CYANIDE DOSING PUMP	F Mechanical	Pump	Helical Rotor	Various	-	1.5 m3/hr @ 25m TDH, 1.1 SG	Suction, Discharge 50 NB	Progressive cavity c/w EPDM stator, 316 ss rotor. 20% w/v NaOH solution		1330	PUMPS - SOLUTION	DYNAPUMPS	NETZSCH			Variable		0.37
C	New	F-110	PP	73	211-PP-73	1		CYANIDE RECIRCULATION PUMP 1	F Mechanical	Pump	Centrifugal Solution	Various	-	5m3/hr @ 42m TDH, 1.1 SG	Suction 50 NB ANSI, Discharge 32 NB ANSI	20% w/v NaCN solution		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		2.20
C	New	F-110	PP	74	211-PP-74		1	CYANIDE RECIRCULATION PUMP 2	F Mechanical	Pump	Centrifugal Solution	Various	-	5m3/hr @ 42m TDH, 1.1 SG	Suction 50 NB ANSI, Discharge 32 NB ANSI	20% w/v NaCN solution		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		2.20
C	New	F-110	PP	75	211-PP-75	1		CYANIDE AREA SUMP PUMP	F Mechanical	Pump	Vertical Spindle	Various	-		40SPR	Vertical cantilever, 1200mm spindle		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	40SPR		Fixed		11.00
D	New	F-110	TK	01	211-TK-01	1		COPPER SULPHATE MIXING TANK	E Platework	Tank	Vertical Closed	SS316	-	7.5 m3 live capacity	dia. 2.2 x 2.5m O/A	c/w roof.										
D	New	F-105	CN	02	215-CN-02	1		COPPER SULPHATE BAG LIFTING HOIST	F Mechanical	Crane/Hoist	Electric Hoist	Mild Steel	-	-	1.5t			1090	CRANES & HOISTS	KONE	KONE			Fixed		3.70
C	New	F-110	AG	02	211-AG-02	1		COPPER SULPHATE MIXING TANK AGITATOR	F Mechanical	Agitator	Top Entry	Wet End: 316 SS Drive End Casing: Mild Steel	-		Impeller dia 0.7m x 2.0m shaft length	,	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		2.20
C	New	F-110	PP	71	211-PP-71	1		COPPER SULPHATE TRANSFER PUMP	F Mechanical	Pump	Centrifugal Solution	Various		50 m3/hr @ 20m TDH, 1.1 SG	Suction 125 NB ANSI, Discharge 100 NB ANSI	20% w/v NaCN solution		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		5.60
D	New	F-110	TK	02	211-TK-02	1		COPPER SULPHATE STORAGE TANK	E Platework	Tank	Vertical Closed	SS316	-	10 m3 live capacity	dia. 2.5 x 2.7m O/A	c/w roof.										
C	New	F-110	PP	72	211-PP-72	1		COPPER SULPHATE DOSING PUMP	F Mechanical	Pump	Helical Rotor	Various	-	1.5 m3/hr @ 25m TDH, 1.1 SG	Suction, Discharge 50 NB	Progressive cavity c/w EPDM stator, 316 ss rotor. 20% w/v NaOH solution		1330	PUMPS - SOLUTION	DYNAPUMPS	NETZSCH			Variable		0.37
C	New	F-105	CN	02	215-CN-02	1		SMBS BAG LIFTING HOIST	F Mechanical	Crane/Hoist	Electric Hoist	Mild Steel	-	-	1.5t			1090	CRANES & HOISTS	KONE	KONE			Fixed		3.70
C	New	F-105	ST	01	215-ST-01	1		SMBS BAG BREAKER	E Platework	Bag Breaker		SS316													
C	New	F-105	TK	01	215-TK-01	1		SMBS MIXING TANK	E Platework	Tank	Vertical Closed	SS304	-	10 m3 live capacity	dia. 2.5 x 2.7m O/A	c/w roof.										
C	New	F-105	AG	01	215-AG-01	1		SMBS MIXING TANK AGITATOR	F Mechanical	Agitator	Top Entry	Wet End: 316 SS Drive End Casing: Mild Steel	-		Impeller dia 0.75m x 2.2m shaft length	,	MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		2.20
C	New	F-105	PP	71	215-PP-71	1		SMBS TRANSFER PUMP	F Mechanical	Pump	Centrifugal Solution	Various		50 m3/hr @ 20m TDH, 1.1 SG	Suction 125 NB ANSI, Discharge 100 NB ANSI	20% w/v solution		1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		5.60
C	New	F-105	TK	02	215-TK-02	1		SMBS STORAGE TANK	E Platework	Tank	Vertical Closed	Mild Steel	-	15 m3 live capacity	dia. 2.8m x 3.0 m H	c/w roof.										
C	New	F-105	PP	72	215-PP-72	1		SMBS DOSING PUMP No.1	F Mechanical	Pump	Diaphragm/Peristaltic	Various	-	-	0.9 m3/hr @ 60m TDH	Iwaki LK-B65, mechanical diaphragm metering		1330	PUMPS - SOLUTION	IWAKI	IWAKI	LK-B65		Variable		0.75
C	New	F-105	PP	73	215-PP-73		1	SMBS DOSING PUMP No.2	F Mechanical	Pump	Diaphragm/Peristaltic	Various	-	-	0.9 m3/hr @ 60m TDH	Iwaki LK-B65, mechanical diaphragm metering		1330	PUMPS - SOLUTION	IWAKI	IWAKI	LK-B65		Variable		0.75
C	New	F-105	PP	75	215-PP-75	1		SMBS AREA SUMP PUMP	F Mechanical	Pump	Vertical Spindle	Various	-		40 SPR	Vertical cantilever, 1200mm spindle		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	40SPR		Fixed		11.00
C	New	F-105	FA	04	215-FA-04	1		SMBS EXTRACTION FAN	F Mechanical	Fan				300m³/hr @ 0.5kPa										Fixed		3.00
D	New	F-113	ZM	01	213-ZM-01	1		FLOCCULANT MIXING PACKAGE	F Mechanical	Packaged Equipment	-	-	-	20kg (dry) / hr, 8m3/h dosage rate @ 0.25%	-		MS-051	1160	FLOCCULANT MIXING SYSTEM	ROYMEC						
A	New	F-113	HP	01	213-HP-01	1		FLOCCULANT HOPPER	E Platework	Hopper	Hopper	Mild Steel	-	-	-		MS-051	1160	FLOCCULANT MIXING SYSTEM	ROYMEC						
C	New	F-113	FE	01	213-FE-01	1		FLOCCULANT SCREW FEEDER	F Mechanical	Conveyor	Screw	Various	-	200kg/hr	-		MS-051	1160	FLOCCULANT MIXING SYSTEM	ROYMEC				Fixed		1.10
C	New	F-113	BL	01	213-BL-01	1		FLOCCULANT BLOWER	F Mechanical	Blower	Centrifugal	Various	-	200m³/hr FAD	-		MS-051	1160	FLOCCULANT MIXING SYSTEM	ROYMEC				Fixed		7.50
C	New	F-113	ZM	03	213-ZM-03	1		FLOCCULANT WETTING HEAD	F Mechanical	Mixer	-	Various	-	45m³/hr @ 300kPa(g)	-		MS-051	1160	FLOCCULANT MIXING SYSTEM	ROYMEC						
C	New	F-113	TK	01	213-TK-01	1		FLOCCULANT MIXING & STORAGE TANK	E Platework	Tank	Vertical Open	Mild Steel	-	10 m3 live capacity	dia. 2.4m x 3 m H	Without roof. Design (only) by flocculant mixing package vendor										
C	New	F-113	AG	01	213-AG-01	1		FLOCCULANT MIXING & STORAGE TANK AGITATOR	F Mechanical	Agitator	Top Entry	Wet End: 316 SS Drive End Casing: Mild Steel	-	-	to suit		MS-051	1160	FLOCCULANT MIXING SYSTEM	ROYMEC				Fixed		1.50
C	New	F-113	PP	77	213-PP-77	1		PRE-LEACH THICKENER FLOCCULANT DOSING PUMP	F Mechanical	Pump	Helical Rotor	Various	-	1.5-5 m3/hr capacity, 30 m TDH, 1.0 SG	Suction, Discharge 80 NB	Progressive cavity c/w EPDM stator, 316 ss rotor, 0.25% w/v conc		1330	PUMPS - SOLUTION	DYNAPUMPS	NETZSCH			Variable		1.50
C	New	F-113	PP	78	213-PP-78	1		CYANIDE RECOVERY THICKENER FLOCCULANT DOSING PUMP	F Mechanical	Pump	Helical Rotor	Various	-	1.5-5 m3/hr capacity, 30 m TDH, 1.0 SG	Suction, Discharge 80 NB	Progressive cavity c/w EPDM stator, 316 ss rotor, 0.25% w/v conc		1330	PUMPS - SOLUTION	DYNAPUMPS	NETZSCH			Variable		1.50
C	New	F-113	HP	01	212-HP-01	1		LIME SILO	E Platework	Hopper	Hopper	Mild Steel			65 t	65 tonne live capacity via Bulk Loader										
C	New	F-113	DC	01	212-DC-01	1		LIME DUST COLLECTOR	F Mechanical	Dust Collector	Insertable													Fixed		2.20
C	New	F-113	FE	01	212-FE-01	1		LIME ROTARY FEEDER	F Mechanical	Rotary Valve	Rotary Valve													Fixed		0.75
C	New	F-113	VB	01	212-VB-01	1		LIME BIN ACTIVATOR	F Mechanical	Bin Activator	Bin Activator													Fixed		0.40
C	New	F-113	FE	02	212-FE-02	1		LIME SCREW FEEDER	F Mechanical	Conveyor	Screw					2.64 - 9.9 tph								Variable		0.37
C	New	F-113	TK	01	212-TK-01	1		LIME MIXING & STORAGE TANK	E Platework	Tank	Vertical Closed	Mild Steel	-		dia. 4.5m x 4.57m H	45m3 live volume mixing tank										
C	New	F-113	AG	01	212-AG-01	1		LIME MIXING & STORAGE TANK AGITATOR	F Mechanical	Agitator	Top Entry	Mild Steel					MS-004	1280	AGITATORS	MIXTEC	MIXTEC			Fixed		7.50
C	New	F-113	PP	02	212-PP-02	1		LIME PUMP	F Mechanical	Pump		Various				22.58m³/hr @78.5m TDH Water Warman 1.5/1AH c/w 15kW motor								Fixed		15.00
AREA NO. 260 - FUELS																										**2.20**
C	New	F-110	TK	01	261-TK-01	1		PLANT DIESEL STORAGE TANK	F Mechanical	Tank	Horizontal Bullet	Various	-	10 m3	10m3 capacity	Self-bunded, horizontal tank with self contained fuel dispensing/management system and light vehicle bowser										
C	New	F-110	PP	80	261-PP-80	1		PLANT DIESEL DISTRIBUTION PUMP No.1	F Mechanical	Pump		Various		2 m3/hr @ 25m TDH, 0.85 SG	Suction/ Discharge 32 NB AS2129 ANSI			1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		1.10
C	New	F-110	PP	81	261-PP-81		1	PLANT DIESEL DISTRIBUTION PUMP No.2	F Mechanical	Pump		Various		2 m3/hr @ 25m TDH, 0.85 SG	Suction/ Discharge 32 NB AS2129 ANSI			1330	PUMPS - SOLUTION	DYNAPUMPS	GRUNDFOS			Fixed		1.10
C	New	F-110	FL	01	261-FL-01	1		PLANT DIESEL DISTRIBUTION FILTER 1	F Mechanical	Filter		Various		23.16 l/min												
C	New	F-110	FL	02	261-FL-02		1	PLANT DIESEL DISTRIBUTION FILTER 2	F Mechanical	Filter		Various		23.16 l/min												
AREA NO. 320 - UTILITIES & SERVICES (CONTINUED)																										**7.40**
D	New	F-114	TK	01	324-TK-01	1		MSA SEWAGE SEPTIC PIT	F Mechanical	Misc		Various	-		1200L	Plastic tank, c/w 2 pumps and level instruments.		1430	SEWAGE FORWARDING PUMP STATIONS							
C	New	F-114	PP	83	324-PP-83	1		LABORATORY ACID WASTE PUMP	F Mechanical	Pump	Submersible	Various						1330	PUMPS - SOLUTION					Fixed		3.70
C	New	F-114	PP	84	324-PP-84	1		LABORATORY GENERAL WASTE PUMP	F Mechanical	Pump	Submersible	Various						1330	PUMPS - SOLUTION					Fixed		3.70
D	New	F-114	TK	02	324-TK-02	1		PLANT ADMIN OFFICE AREA SEWAGE SEPTIC PIT	F Mechanical	Misc		Various	-		1200L	Plastic tank, c/w 2 pumps and level instruments.		1430	SEWAGE FORWARDING PUMP STATIONS							
D	New	F-114	TK	03	324-TK-03	1		PROCESS PLANT SEWAGE SEPTIC PIT	F Mechanical	Misc		Various	-		1200L	Plastic tank, c/w 2 pumps and level instruments.		1430	SEWAGE FORWARDING PUMP STATIONS							
C	Fut.	F-114	PP	86	324-PP-86		1	PROCESS PLANT SEWAGE FORWARDING PUMPS	F Mechanical	Pump	Submersible	Various	1 m3/ hr @ 12 m	10 m3/ hr @ 15 m				1430	SEWAGE FORWARDING PUMP STATIONS					Fixed	5.60	
D	Fut.	F-114	TE	02	324-TE-02	1		PROCESS PLANT SEWAGE TREATMENT PLANT (STP)	F Mechanical	Sewage Treatment Plant	-	Various	-	50 m3/ day each	-	Containerised design		1440	SEWAGE TREATMENT PLANTS					Fixed	37.00	
AREA NO. 360 - BUILDINGS - PLANT																										**10.50**
C	New	F-XXX	CN	01	360-CN-01	1		WAREHOUSE/ WORKSHOP CRANE	F Mechanical	Crane/Hoist	Electric Hoist	Mild Steel	-	5t, 7m Lift, 50 m travel, 28m Span	5t, 7m Lift, 50 m travel, 28m Span			1090	CRANES & HOISTS	KONE	KONE			Fixed		10.50
AREA NO. 450 - MINING FACILITIES - GENERAL																										**29.50**

Rev	Status	Flow Sheet	Equipment Identifier	Numerical Identifier	Equipment Number	Duty Qty	S/By Qty	Equipment Name	Generic Type 1	Generic Type 2	Generic Type 3	Matl of Constr. (incl. Lining)	Process Duty Point	Design Duty Point	Size	Notes/Comments	Spec / Data Sheet No	BQR Package No.	BQR Package Name	Recommended Supplier	Manufacturer	Model No.	Detail Dwg No.	Fixed/ Variable Speed	FUTURE kW Inst.	kW Inst.
D	New	F-017	TK	01	451-TK-01	1		TRUCK WASH WATER TANK	F Mechanical	Tank	Vertical Open	Poly	-	10 m³ live capacity, 15 m³ total capacity	2.5m dia. x 3m H	BY OTHERS - MINING										
D	New	F-017	PP	01	451-PP-01	1		TRUCK WASH PUMP	F Mechanical	Pump	Centrifugal Solution	Cast Iron	-	48m³/hr @ 63m TDH	80-50-250	BY OTHERS - MINING		1330	PUMPS - SOLUTION	DYNAPUMPS	GOULDS	IC 80-50-250		Fixed		18.50
D	New	F-017	ZM	01	451-ZM-01	1		TRUCK WASH HIGH PRESSURE WASHER	F Mechanical	Misc		Manufacturer's Standard	-			BY OTHERS - MINING										
D	New	F-017	PP	01	451-PP-01	1		TRUCK WASH SUMP PUMP	F Mechanical	Pump	Vertical Spindle	Various	-	48.6m³/hr @ 17.6m TDH water	6SSPR	BY OTHERS - MINING		1370	PUMPS - VERTICAL CANTILEVER	WARMAN	WARMAN	6SSPR		Fixed		11.00
D	New	F-017	ZM	01	451-ZM-01	1		TRUCK WASH WATER MONITOR NO.1	F Mechanical	Misc						BY OTHERS - MINING										
D	New	F-017	ZM	01	451-ZM-01	1		TRUCK WASH WATER MONITOR NO.2	F Mechanical	Misc						BY OTHERS - MINING										
D	New	F-017	ZM	01	451-ZM-01	1		TRUCK WASH WATER MONITOR NO.3	F Mechanical	Misc						BY OTHERS - MINING										
D	New	F-017	ZM	01	451-ZM-01	1		TRUCK WASH WATER MONITOR NO.4	F Mechanical	Misc						BY OTHERS - MINING										
D	New	F-017	ZM	01	451-ZM-01	1		OILY/WATER SEPARATOR	F Mechanical							BY OTHERS - MINING										
																									519.42	**7,077.42**

APPENDIX 5

ELECTRICAL SINGLE LINE DIAGRAM

138kV OVERHEAD POWERLINE
FROM POWER SUBSTATION

330-LA-001

330-SS-001
OUTDOOR SWITCHYARD

330-DS-001
600A

330-ES-001

PT
330-PT-001
138kV/120VAC

52-XX
1200A

330-LA-002

330-GE-001
480V
600kVA
3Ph, 60Hz

330-CB-XXX
xA

330-SG-002
GENERATOR PANEL

330-TX-001
138kV/4.16kV
7.5MVA/10MVA
ONAN/ONAF
55°/65° RISE
3Ph, 60Hz
Z = 7.6%

330-GR-001

330-TX-003
480V/4.16kV
1MVA
ONAN
3Ph, 60Hz

330-SG-001
5kV SWITCHGEAR

52-M1
2000A

PROTECTION & METERING

52-M2
1200A

PROTECTION & METERING

4.16kV 2000A 60Hz 40KAIC

CONTINUED ON DRG. 330-E-301

52-F1
1200A
PROTECTION & METERING

52-F2
1200A
PROTECTION & METERING

52-F3
1200A
PROTECTION & METERING

SPARE

52-F4
1200A
PROTECTION & METERING

52-F5
1200A
PROTECTION & METERING

52-F6
1200A
PROTECTION & METERING

270-DS-002
600A

270-ES-XXX

270-TX-002
4.16kV/480V
1000kVA
3Ph, 60Hz

270-DS-001
600A

270-ES-XXX

270-TX-001
4.16kV/480V
2MVA/2.5MVA
ONAN/ONAF
3Ph, 60Hz

270-BD-001
480V, 3200A
3Ph, 3WIRE

350-FS-001

350-TX-001
4.16kV/480V
200kVA
3Ph, 60Hz

350-DB-001
WORKSHOP/WAREHOUSE
AND STORAGE DB

VSD

M
3~
SAG MILL
3.9MW

350-FS-002

350-TX-002
4.16kV/480V
200kVA
3Ph, 60Hz

350-DB-002
ADMIN OFFICES/
SECURITY GATE DB

270-SG-002
480V SWITCHGEAR

270-CB-002
1200A

480V 1200A 60Hz 65KAIC

xA

EQUIPPED SPACE

SPARE

120-MC-001
PRIMARY CRUSHING
MCC

130-MC-002
PEBBLE CRUSHING
MCC

270-SG-001
480V SWITCHGEAR

270-CB-001
3200A

480V 3200A 60Hz 65KAIC

SPARE

130-MC-001
MILLING AREA
MCC

140-MC-001
PRE-LEACH
MCC

160-MC-001
CIL & TAILINGS
MCC

LEGEND

- XA or XA/XA — CIRCUIT BREAKER
- CBX XA — WITHDRAWABLE CIRCUIT BREAKER
- 52X XA — MEDIUM VOLTAGE WITHDRAWABLE CIRCUIT BREAKER
- XA — ISOLATOR
- XA — ISOLATING FUSE SWITCH
- M 3~ xxkW — MOTOR OR GENERATOR
- VARIABLE SPEED DRIVE
- xkV/xV yA — STAR/DELTA TRANSFORMER
- xkV/yV yA — STAR/DELTA TRANSFORMER WITH TAP CHANGE
- x — METAL ENCLOSED BUS DUCT
- CABLE GLAND SEAL
- SURGE/LIGHTNING ARRESTOR
- OVERHEAD POWER LINE

DRG No	REFERENCE DRAWINGS
330-E-301	5kV AND 480V SWITCHGEAR SLD SHEET 2 OF 2

REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
B	11JUL14	ISSUED FOR STUDY	AO						
A	09JUL14	ISSUED FOR REVIEW	AO						

CLIENT: CONDOR GOLD PLC

PROJECT: LA INDIA PROJECT

Lycopodium
Lycopodium Minerals Canada Ltd Corp. No: 767 852-5
5060 Spectrum Way, Suite 302, Mississauga, Ontario L4W 5N5
Phone: (905) 206 2600 www.lycopodium.com.au

DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
PLANT SERVICES
5kV AND 480V SWITCHGEAR
SINGLE LINE DIAGRAM SHEET 1 OF 2

SCALE	JOB No.	DRG No.	REV.
NTS	5032	330-E-300	B

DRAWN: AO
DATE: 08JUL14

CONTINUED FROM DRG. 330-E-300

330-SG-001
5kV SWITCHGEAR

4.16kV 2000A 60Hz 40KAIC

52-F7
1200A
PROTECTION & METERING

52-F8
1200A
PROTECTION & METERING

52-F9
1200A
PROTECTION & METERING

270-DS-003
600A

270-ES-XXX

270-TX-003
4.16kV/480V
2MVA/2.5MVA
ONAN/ONAF
3Ph, 60Hz

270-BD-002
480V, 3200A
3Ph, 3WIRE

270-SG-003
480V SWITCHGEAR

270-CB-003
3200A

480V 3200A 60Hz 65KAIC

xA

SPARE

170-MC-001
DESORPTION AND REFINING MCC
(645/387)

200-MC-001
REAGENTS MCC
(284/224)

230-MC-001
PLANT WATER & AIR SERVICES MCC
(645/387)

4.16kV OVERHEAD LINE TO TAILINGS DAM & DECANT RETURN

330-PF-001
PF CORRECTION

2x300kVAR

LEGEND

- XA or XA/XA — CIRCUIT BREAKER
- CBX XA — WITHDRAWABLE CIRCUIT BREAKER
- 52X XA — MEDIUM VOLTAGE WITHDRAWABLE CIRCUIT BREAKER
- XA — ISOLATOR
- XA — ISOLATING FUSE SWITCH
- M 3~ xxkW — MOTOR OR GENERATOR
- VARIABLE SPEED DRIVE
- xkV/xV yA — STAR/DELTA TRANSFORMER
- xkV/yV yA — STAR/DELTA TRANSFORMER WITH TAP CHANGE
- x — METAL ENCLOSED BUS DUCT
- CABLE GLAND SEAL
- SURGE/LIGHTNING ARRESTOR
- OVERHEAD POWER LINE

DRG No	REFERENCE DRAWINGS	REV	DATE	DESCRIPTION	DRN	CHK'D	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D
		B	11JUL14	ISSUED FOR STUDY	AO						
330-E-300	5kV AND 480V SWITCHGEAR SLD SHEET 1 OF 2	A	09JUL14	ISSUED FOR REVIEW	AO						

CLIENT: CONDOR GOLD PLC

PROJECT: LA INDIA PROJECT

Lycopodium

Lycopodium Minerals Canada Ltd Corp. No: 767 852-5
5060 Spectrum Way, Suite 302, Mississauga, Ontario L4W 5N5
Phone: (905) 206 2600 www.lycopodium.com.au

DRAWN	CHECKED	DESIGN ENG.	LEAD ENG.	DESIGN APP'D	PROJ. APP'D	CLIENT APP'D

DRAWING TITLE
PLANT SERVICES
5kV AND 480V SWITCHGEAR
SINGLE LINE DIAGRAM SHEET 2 OF 2

SCALE	JOB No.	DRG No.	REV.
NTS	5032	330-E-301	B

DRAWN: AO DATE: 08JUL14

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A1

APPENDIX 6

CAPITAL COST ESTIMATE

Prepared by : RJO
Print Date : 30/10/2014 9:25 AM
Period : 2Q14
Currency : USD
Accuracy : +/-% 25%

CAPITAL COST ESTIMATE
Rev A

Summ Prim Disc

Condor Gold
La India Gold Project
5032

Scope	Main Area CCC Code	PDisc. Prelim.	Supply Cost	Installation Hours	Labour Installation Cost	Freight Cost	Sub-Totals USD	Contingency USD	Total Project USD
Lyco Indirects	000 Construction Indirects	A General	561,059	400	173,078	508,000	1,242,137	124,214	1,366,350
		B Earthworks	-	-	189,000	-	189,000	47,250	236,250
		C Concrete	299,000	-	-	-	299,000	32,890	331,890
		D Steelwork	-	-	670,000	-	670,000	73,700	743,700
		E Tankage	-	-	298,154	-	298,154	26,834	324,987
		F Mechanical	-	-	312,500	-	312,500	34,375	346,875
		P EPCM	-	-	542,850	-	542,850	54,285	597,135
		M Buildings	165,000	-	-	-	165,000	16,500	181,500
	500 Management Costs	P EPCM	4,170,000	28,920	3,158,000	-	7,328,000	732,800	8,060,800
Lyco Directs	100 Treatment Plant	A General	40,000	240	5,346	-	45,346	4,535	49,881
		B Earthworks	99,000	2,250	592,760	-	691,760	172,940	864,701
		C Concrete	1,341,923	66,517	731,684	-	2,073,608	228,097	2,301,705
		D Steelwork	2,183,110	49,179	1,229,469	249,466	3,662,045	402,825	4,064,870
		E Platework	768,171	16,620	415,502	79,299	1,262,972	137,939	1,400,912
		E Tankage	1,000,601	22,576	965,470	66,492	2,032,563	182,931	2,215,494
		F Mechanical	10,830,618	48,709	1,500,540	882,049	13,213,207	938,575	14,151,782
		G Piping	2,051,386	36,498	1,094,955	164,111	3,310,452	662,090	3,972,542
		H Electrical & Inst	4,246,793	36,734	918,361	192,856	5,358,011	1,171,602	6,529,613
	200 Reagents & Plant Services	A General	-	-	-	-	-	-	-
		C Concrete	202,701	8,847	97,318	-	300,019	33,002	333,021
		D Steelwork	394,375	8,409	210,234	43,056	647,665	71,243	718,909
		E Tankage	326,290	5,533	220,452	31,150	577,892	52,745	630,637
		F Mechanical	1,124,713	8,781	263,439	89,977	1,478,129	103,469	1,581,599
	300 Infrastructure	A General	-	-	-	-	-	-	-
		B Earthworks	6,432	-	21,742	-	28,174	7,043	35,217
		C Concrete	3,752	27	295	-	4,047	445	4,492
		F Mechanical	81,638	872	26,145	6,531	114,314	8,002	122,316
		G Piping	129,000	7,785	233,550	10,320	372,870	74,574	447,444
		M Buildings	986,872	32,014	606,821	246,286	1,839,979	183,998	2,023,977
Grand Total			**31,012,436**	**380,911**	**14,477,665**	**2,569,594**	**48,059,694**	**5,578,903**	**53,638,597**

Exclusions
Mining Costs and mine service buildings
Tailings Dam
Surface Water Management System
Owners Costs
Road Diversion
HV Power Line Relocation
HV Sub-Station
Import Duties and Taxes
Construction Camp
Sunk Costs
Pre-Production Costs
Mobile Plant and Light Vehicles
Maintenance Equipment

Village Relocation
Operations Accommodation
Geotechncial, Tailings, other EPCM costs

Prepared by : RJO
Print Date : 30/10/2014 9:26 AM
Period : 2Q14
Currency : USD
Accuracy : +/-% 25%

CAPITAL COST ESTIMATE
Rev A

Summary Plant Area

Condor Gold
La India Gold Project
5032

Scope	Main Area	Plant Area CCC Code	Supply Cost	Installation Hours	Labour Installation Cost	Freight Cost	Project Totals USD	Contingency USD	Total Project USD
Lyco Directs	100 Treatment Plant	101 Treatment Plant - General	6,242,180	75,723	2,585,712	356,967	9,184,859	2,004,740	11,189,598
		120 Feed Preparation	2,090,203	37,730	819,481	173,123	3,082,807	282,920	3,365,727
		130 Milling	8,292,703	54,414	1,216,846	660,162	10,169,711	812,093	10,981,804
		140 Tailings	1,711,186	33,695	805,586	108,536	2,625,308	223,264	2,848,572
		160 Leaching	2,649,295	54,935	1,413,391	205,331	4,268,017	383,314	4,651,331
		170 Desorption	758,640	4,199	111,767	61,979	932,386	69,509	1,001,896
		180 Refining	809,996	18,592	500,225	67,585	1,377,805	125,058	1,502,864
		190 Other Plant Areas	7,400	36	1,080	592	9,072	635	9,707
	100 Treatment Plant Total		**22,561,603**	**279,323**	**7,454,088**	**1,634,274**	**31,649,965**	**3,901,534**	**35,551,499**
	200 Reagents & Plant Services	210 Reagents	797,546	11,154	283,989	63,922	1,145,457	100,708	1,246,165
		230 Water Services	660,269	12,966	335,587	51,598	1,047,454	92,173	1,139,628
		250 Air Services	440,414	2,597	62,763	35,465	538,642	41,110	579,752
		260 Fuels	47,050	1,068	22,894	4,340	74,284	6,497	80,780
		270 Electrical Services	102,800	3,787	86,211	8,858	197,869	19,970	217,839
	200 Reagents & Plant Services Total		**2,048,079**	**31,570**	**791,444**	**164,183**	**3,003,706**	**260,459**	**3,264,165**
	300 Infrastructure	310 Environmental	11,432	36	22,822	400	34,654	7,497	42,150
		320 Utilities & Services	80,000	3,675	110,250	6,400	196,650	33,948	230,598
		340 Tailings Dam	79,000	4,410	132,300	6,320	217,620	43,524	261,144
		350 Plant Buildings	1,037,262	32,576	623,181	250,017	1,910,460	189,093	2,099,553
	300 Infrastructure Total		**1,207,694**	**40,697**	**888,552**	**263,137**	**2,359,383**	**274,062**	**2,633,446**
Lyco Directs Total			**25,817,377**	**351,591**	**9,134,084**	**2,061,594**	**37,013,054**	**4,436,055**	**41,449,109**
Lyco Indirects	000 Construction Indirects	001 Construction Indirects - Contractors	464,000	-	1,469,654	-	1,933,654	231,549	2,165,202
		010 Construction Indirects - General	205,000	-	542,850	500,000	1,247,850	124,785	1,372,635
		020 Site Construction Facilities	29,500	400	9,092	8,000	46,592	4,659	51,251
		040 Construction Operations	326,559	-	163,986	-	490,545	49,054	539,599
	000 Construction Indirects Total		**1,025,059**	**400**	**2,185,581**	**508,000**	**3,718,640**	**410,047**	**4,128,687**
	500 Management Costs	510 EPCM - Home Office	4,000,000	-	-	-	4,000,000	400,000	4,400,000
		520 EPCM - Site	150,000	28,920	3,158,000	-	3,308,000	330,800	3,638,800
		540 Specialist Consultants	20,000	-	-	-	20,000	2,000	22,000
	500 Management Costs Total		**4,170,000**	**28,920**	**3,158,000**	**-**	**7,328,000**	**732,800**	**8,060,800**
Lyco Indirects Total			**5,195,059**	**29,320**	**5,343,581**	**508,000**	**11,046,640**	**1,142,847**	**12,189,487**
Grand Total			**31,012,436**	**380,911**	**14,477,665**	**2,569,594**	**48,059,694**	**5,578,903**	**53,638,597**
			64.5%	0.8%	30.1%	5.3%	100.0%	11.6%	

Exclusions
Mining Costs and mine service buildings
Tailings Dam
Surface Water Management System
Owners Costs
Road Diversion

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CAPITAL COST ESTIMATE
Rev A

Summary Plant Area

Condor Gold
La India Gold Project
5032

HV Power Line Relocation
HV Sub-Station
Import Duties and Taxes
Construction Camp
Sunk Costs
Pre-Production Costs
Mobile Plant and Light Vehicles
Maintenance Equipment
Village Relocation
Operations Accommodation
Geotechncial, Tailings, other EPCM costs

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CAPITAL COST ESTIMATE
Rev A

Summary Plant Area & Facility

Condor Gold
La India Gold Project
5032

Scope	Main Area	Plant Area	Facility	Supply Cost	Installation Hours	Labour Installation Cost	Freight Cost	Project Totals USD	Contingency USD	Sum Total USD
Lyco Directs	100 Treatment Plant	101 Treatment Plant - General	110 Treatment Plant - General	- 195,000	-	-	-	- 195,000	-	- 195,000
			112 Bulk Site Earthworks	99,000	2,250	567,050	-	666,050	166,513	832,563
			117 Site Security Fencing	40,000	240	5,346	-	45,346	4,535	49,881
			118 Plant Piping	2,051,386	36,498	1,094,955	164,111	3,310,452	662,090	3,972,542
			119 Plant Electrical & Instrumentation	4,246,793	36,734	918,361	192,856	5,358,011	1,171,602	6,529,613
		101 Treatment Plant - General Total		**6,242,180**	**75,723**	**2,585,712**	**356,967**	**9,184,859**	**2,004,740**	**11,189,598**
		120 Feed Preparation	121 Primary Crushing	1,689,353	31,309	645,773	137,295	2,472,421	231,902	2,704,323
			125 Stockpiling	400,850	6,420	173,708	35,828	610,386	51,018	661,405
		120 Feed Preparation Total		**2,090,203**	**37,730**	**819,481**	**173,123**	**3,082,807**	**282,920**	**3,365,727**
		130 Milling	131 Reclaim	1,007,823	16,103	370,198	84,846	1,462,868	131,830	1,594,698
			132 Grinding	7,080,511	37,447	821,572	558,979	8,461,061	662,555	9,123,616
			133 Classification	204,369	864	25,076	16,337	245,782	17,709	263,491
		130 Milling Total		**8,292,703**	**54,414**	**1,216,846**	**660,162**	**10,169,711**	**812,093**	**10,981,804**
		140 Tailings	142 Pre-Leach Thickening	654,885	12,369	314,285	50,108	1,019,278	85,130	1,104,408
			144 Carbon Safety Screening	19,036	450	11,250	1,836	32,122	3,533	35,656
			145 Cyanide Detoxification	964,370	20,201	461,151	51,176	1,476,697	126,780	1,603,478
			146 Thickening	-	-	-	-	-	-	-
			147 Tails Pumping	72,895	675	18,900	5,416	97,211	7,820	105,031
		140 Tailings Total		**1,711,186**	**33,695**	**805,586**	**108,536**	**2,625,308**	**223,264**	**2,848,572**
		160 Leaching	161 CIL	2,465,424	54,031	1,388,303	190,879	4,044,605	366,331	4,410,936
			162 Carbon Recovery	31,937	410	11,588	2,507	46,032	3,659	49,691
			163 Trash Screening	151,935	495	13,500	11,945	177,380	13,323	190,703
		160 Leaching Total		**2,649,295**	**54,935**	**1,413,391**	**205,331**	**4,268,017**	**383,314**	**4,651,331**
		170 Desorption	171 Acid Wash / Elution	521,946	3,596	94,127	42,934	659,006	50,160	709,165
			172 Carbon Regeneration	236,695	603	17,640	19,046	273,380	19,350	292,730
		170 Desorption Total		**758,640**	**4,199**	**111,767**	**61,979**	**932,386**	**69,509**	**1,001,896**
		180 Refining	181 Goldroom	413,220	11,198	251,611	34,123	698,954	69,204	768,158
			183 Electrowinning	287,936	6,863	233,044	24,665	545,646	46,359	592,004
			185 Smelting	108,840	531	15,570	8,796	133,205	9,495	142,701
		180 Refining Total		**809,996**	**18,592**	**500,225**	**67,585**	**1,377,805**	**125,058**	**1,502,864**
		190 Other Plant Areas	191 Other Plant Areas	7,400	36	1,080	592	9,072	635	9,707
		190 Other Plant Areas Total		**7,400**	**36**	**1,080**	**592**	**9,072**	**635**	**9,707**
	100 Treatment Plant Total			**22,561,603**	**279,323**	**7,454,088**	**1,634,274**	**31,649,965**	**3,901,534**	**35,551,499**
	200 Reagents & Plant Services	210 Reagents	211 Cyanide	118,082	2,307	54,172	7,835	180,090	15,850	195,940
			212 Lime	101,549	1,296	46,944	8,124	156,617	11,956	168,573
			213 Flocculants	102,325	804	23,730	7,960	134,015	9,896	143,911
			214 Caustic	62,892	1,125	26,319	3,793	93,004	7,743	100,747
			216 Acid	51,916	671	20,299	3,781	75,996	6,677	82,674
			217 Sodium Metabisulphite	193,161	2,332	46,420	16,159	255,741	23,358	279,098
			218 Copper Sulphate	59,096	445	12,339	6,024	77,459	6,249	83,708
			220 Reagents Store	108,525	2,173	53,765	10,246	172,536	18,979	191,515
		210 Reagents Total		**797,546**	**11,154**	**283,989**	**63,922**	**1,145,457**	**100,708**	**1,246,165**
		230 Water Services	231 Water Services - General	12,000	720	7,920	-	19,920	2,191	22,111
			232 Raw Water	93,112	1,929	73,655	8,009	174,776	15,277	190,053
			234 Potable Water	40,300	1,327	30,514	2,160	72,974	6,642	79,615
			235 Gland Seal Water	8,000	144	4,320	640	12,960	907	13,867
			238 Fire Water	166,000	1,431	42,930	13,280	222,210	15,555	237,765
			240 Piperacks	174,746	5,279	94,920	14,220	283,887	31,228	315,114
			242 Water Treatment Plant	70,000	563	16,875	5,600	92,475	6,473	98,948
			232 Raw Water	12,000	72	2,160	960	15,120	1,058	16,178
			233 Process Water	84,112	1,502	62,293	6,729	153,133	12,842	165,976
		230 Water Services Total		**660,269**	**12,966**	**335,587**	**51,598**	**1,047,454**	**92,173**	**1,139,628**
		250 Air Services	251 Compressed Air	440,414	2,597	62,763	35,465	538,642	41,110	579,752
		250 Air Services Total		**440,414**	**2,597**	**62,763**	**35,465**	**538,642**	**41,110**	**579,752**
		260 Fuels	261 Fuel Storage & Distribution	47,050	1,068	22,894	4,340	74,284	6,497	80,780
		260 Fuels Total		**47,050**	**1,068**	**22,894**	**4,340**	**74,284**	**6,497**	**80,780**
		270 Electrical Services	272 Plant Sub Stations	102,800	3,787	86,211	8,858	197,869	19,970	217,839
		270 Electrical Services Total		**102,800**	**3,787**	**86,211**	**8,858**	**197,869**	**19,970**	**217,839**
	200 Reagents & Plant Services Total			**2,048,079**	**31,570**	**791,444**	**164,183**	**3,003,706**	**260,459**	**3,264,165**
	300 Infrastructure	310 Environmental	312 Event Pond	11,432	36	22,822	400	34,654	7,497	42,150
		310 Environmental Total		**11,432**	**36**	**22,822**	**400**	**34,654**	**7,497**	**42,150**
		320 Utilities & Services	323 Water Bores	-	-	-	-	-	-	-
			324 Sewage Treatment	80,000	3,675	110,250	6,400	196,650	33,948	230,598
		320 Utilities & Services Total		**80,000**	**3,675**	**110,250**	**6,400**	**196,650**	**33,948**	**230,598**
		340 Tailings Dam	342 Tailings Pipeline	47,000	2,430	72,900	3,760	123,660	24,732	148,392
			345 Decant Return Pipeline	32,000	1,980	59,400	2,560	93,960	18,792	112,752
		340 Tailings Dam Total		**79,000**	**4,410**	**132,300**	**6,320**	**217,620**	**43,524**	**261,144**
		350 Plant Buildings	359 Crusher MCC	12,000	480	9,600	2,880	24,480	2,448	26,928
			360 Main MCC	12,000	480	9,600	2,880	24,480	2,448	26,928
			367 Primary Crusher Control Room	25,000	100	2,000	2,000	29,000	2,900	31,900
			368 Main Control Room	22,060	682	10,733	3,014	35,807	3,581	39,388
			369 Control/Titration Room	7,200	288	5,760	1,728	14,688	1,469	16,157
			370 Mine Security Gatehouse	-	-	-	-	-	-	-
			371 Plant Training Building	14,050	790	15,800	4,712	34,562	3,456	38,018
			372 Mining Shift Change Room	-	-	-	-	-	-	-

Prepared by : RJO
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CAPITAL COST ESTIMATE
Rev A

Summary Plant Area & Facility

Condor Gold
La India Gold Project
5032

Scope	Main Area	Plant Area	Facility	Supply Cost	Installation Hours	Labour Installation Cost	Freight Cost	Project Totals USD	Contingency USD	Sum Total USD
			373 Mining Administration Office	-	-	-	-	-	-	-
			374 Laboratory & Plant Office	250,474	5,369	79,453	119,000	448,927	44,577	493,504
			375 Plant Change House	-	-	-	-	-	-	-
			376 Plant Chop Kitchen & Dining	39,488	1,614	32,272	8,282	80,042	8,004	88,046
			377 Plant First Aid Clinic	24,790	1,240	24,790	7,437	57,017	5,702	62,719
			378 Plant Administration Building	139,675	7,610	152,200	45,460	337,335	33,734	371,069
			379 Plant Gatehouse	15,962	726	13,113	5,258	34,333	3,433	37,767
			380 Plant Security Gatehouse	-	-	-	-	-	-	-
			382 Emergency Response Vehicle Building	29,400	1,680	33,600	2,352	65,352	6,535	71,887
			383 Core Shed	60,000	1,500	30,000	4,800	94,800	9,480	104,280
			384 Mine Warehouse Buliding	-	-	-	-	-	-	-
			385 Mine Heavy Vehicle Workshop	-	-	-	-	-	-	-
			386 Reagents Permanent Store	112,000	2,754	55,620	8,960	176,580	17,480	194,060
			387 Plant Workshop, Main Warehouse & Offices	273,163	7,263	148,640	31,253	453,056	43,847	496,903
		350 Plant Buildings Total		**1,037,262**	**32,576**	**623,181**	**250,017**	**1,910,460**	**189,093**	**2,099,553**
	300 Infrastructure Total			**1,207,694**	**40,697**	**888,552**	**263,137**	**2,359,383**	**274,062**	**2,633,446**
Lyco Directs Total				**25,817,377**	**351,591**	**9,134,084**	**2,061,594**	**37,013,054**	**4,436,055**	**41,449,109**
Lyco Indirects	000 Construction Indirects	001 Construction Indirects - Contractors	002 Earthworks	-	-	189,000	-	189,000	47,250	236,250
			003 Concrete	299,000	-	-	-	299,000	32,890	331,890
			004 SMP	-	-	982,500	-	982,500	108,075	1,090,575
			005 Field Erected Tankage	-	-	298,154	-	298,154	26,834	324,987
			008 Buildings	165,000	-	-	-	165,000	16,500	181,500
		001 Construction Indirects - Contractors Total		**464,000**	**-**	**1,469,654**	**-**	**1,933,654**	**231,549**	**2,165,202**
		010 Construction Indirects - General	011 Construction Equipment	105,000	-	-	-	105,000	10,500	115,500
			013 General Freight & Transport	100,000	-	-	500,000	600,000	60,000	660,000
			015 Vendor Representatives	-	-	542,850	-	542,850	54,285	597,135
		010 Construction Indirects - General Total		**205,000**	**-**	**542,850**	**500,000**	**1,247,850**	**124,785**	**1,372,635**
		020 Site Construction Facilities	023 Laydown Areas (Hardstand)	17,500	240	5,892	-	23,392	2,339	25,731
			024 Construction Site Offices	12,000	160	3,200	8,000	23,200	2,320	25,520
		020 Site Construction Facilities Total		**29,500**	**400**	**9,092**	**8,000**	**46,592**	**4,659**	**51,251**
		040 Construction Operations	041 Construction Operating Costs	326,559	-	163,986	-	490,545	49,054	539,599
		040 Construction Operations Total		**326,559**	**-**	**163,986**	**-**	**490,545**	**49,054**	**539,599**
	000 Construction Indirects Total			**1,025,059**	**400**	**2,185,581**	**508,000**	**3,718,640**	**410,047**	**4,128,687**
	500 Management Costs	510 EPCM - Home Office	512 Process / Engineering	750,000	-	-	-	750,000	75,000	825,000
			513 Drafting	1,200,000	-	-	-	1,200,000	120,000	1,320,000
			514 Projects	850,000	-	-	-	850,000	85,000	935,000
			515 Project Services	600,000	-	-	-	600,000	60,000	660,000
			517 Home Office Expenses	600,000	-	-	-	600,000	60,000	660,000
		510 EPCM - Home Office Total		**4,000,000**	**-**	**-**	**-**	**4,000,000**	**400,000**	**4,400,000**
		520 EPCM - Site	519 Site Support	150,000	-	-	-	150,000	15,000	165,000
			522 Construction Services	-	25,000	2,500,000	-	2,500,000	250,000	2,750,000
			527 Commissioning	-	3,920	658,000	-	658,000	65,800	723,800
		520 EPCM - Site Total		**150,000**	**28,920**	**3,158,000**	**-**	**3,308,000**	**330,800**	**3,638,800**
		540 Specialist Consultants	549 Hazop	20,000	-	-	-	20,000	2,000	22,000
		540 Specialist Consultants Total		**20,000**	**-**	**-**	**-**	**20,000**	**2,000**	**22,000**
	500 Management Costs Total			**4,170,000**	**28,920**	**3,158,000**	**-**	**7,328,000**	**732,800**	**8,060,800**
Lyco Indirects Total				**5,195,059**	**29,320**	**5,343,581**	**508,000**	**11,046,640**	**1,142,847**	**12,189,487**
Grand Total				**31,012,436**	**380,911**	**14,477,665**	**2,569,594**	**48,059,694**	**5,578,903**	**53,638,597**

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CAPITAL COST ESTIMATE
Rev A

Summary Plant Area & Disc

Condor Gold
La India Gold Project
5032

Scope	Main Area	Plant Area CCC Code	PDisc. Prelim.	Supply Cost	Installation Hours	Labour Installation Cost	Freight Cost	Project Totals USD	Contingency USD	Total Project USD
Lyco Directs	100 Treatment Plant	101 Treatment Plant - General	A General	40,000	240	5,346	-	45,346	4,535	49,881
			B Earthworks	99,000	2,250	567,050	-	666,050	166,513	832,563
			F Mechanical	- 195,000	-	-	-	- 195,000	-	- 195,000
			G Piping	2,051,386	36,498	1,094,955	164,111	3,310,452	662,090	3,972,542
			H Electrical & Inst	4,246,793	36,734	918,361	192,856	5,358,011	1,171,602	6,529,613
		120 Feed Preparation	B Earthworks	-	-	16,034	-	16,034	4,009	20,043
			C Concrete	276,745	13,338	146,719	-	423,464	46,581	470,045
			D Steelwork	404,960	9,218	230,441	46,862	682,263	75,049	757,312
			E Platework	339,516	5,786	144,647	40,742	524,906	56,752	581,658
			F Mechanical	1,068,982	9,388	281,640	85,519	1,436,140	100,530	1,536,670
		130 Milling	B Earthworks	-	-	9,676	-	9,676	2,419	12,095
			C Concrete	456,990	18,621	204,832	-	661,821	72,800	734,622
			D Steelwork	857,625	18,553	463,823	98,652	1,420,100	156,211	1,576,311
			E Platework	265,623	3,589	89,730	24,513	379,866	41,785	421,652
			F Mechanical	6,712,465	13,651	448,785	536,997	7,698,247	538,877	8,237,125
		140 Tailings	A General	-	-	-	-	-	-	-
			C Concrete	233,538	11,152	122,670	-	356,208	39,183	395,391
			D Steelwork	180,475	4,332	108,295	20,096	308,866	33,975	342,842
			E Platework	55,215	1,080	27,000	4,159	86,374	9,501	95,876
			E Tankage	325,618	3,382	135,128	10,974	471,720	42,455	514,175
			F Mechanical	916,340	13,750	412,493	73,307	1,402,139	98,150	1,500,289
		160 Leaching	C Concrete	313,676	20,531	225,844	-	539,519	59,347	598,866
			D Steelwork	498,650	10,755	268,875	57,570	825,095	90,760	915,855
			E Platework	48,390	1,292	32,288	4,674	85,352	9,389	94,741
			E Tankage	601,748	15,405	677,809	48,140	1,327,698	119,493	1,447,191
			F Mechanical	1,186,831	6,953	208,575	94,946	1,490,353	104,325	1,594,677
		170 Desorption	C Concrete	7,975	414	4,554	-	12,529	1,378	13,907
			D Steelwork	50,900	1,157	28,913	5,812	85,625	9,419	95,043
			E Platework	4,649	108	2,700	558	7,907	870	8,777
			E Tankage	-	-	-	-	-	-	-
			F Mechanical	695,116	2,520	75,600	55,609	826,325	57,843	884,168
		180 Refining	C Concrete	53,000	2,461	27,067	-	80,067	8,807	88,874
			D Steelwork	190,500	5,165	129,122	20,474	340,096	37,411	377,506
			E Platework	54,776	4,766	119,138	4,653	178,567	19,642	198,209
			E Tankage	73,235	3,789	152,532	7,379	233,145	20,983	254,128
			F Mechanical	438,485	2,412	72,367	35,079	545,931	38,215	584,146
		190 Other Plant Areas	A General	-	-	-	-	-	-	-
			F Mechanical	7,400	36	1,080	592	9,072	635	9,707
	100 Treatment Plant Total			**22,561,603**	**279,323**	**7,454,088**	**1,634,274**	**31,649,965**	**3,901,534**	**35,551,499**
	200 Reagents & Plant Services	201 Reagents & Plant Services - Ger	A General	-	-	-	-	-	-	-
		210 Reagents	C Concrete	87,255	2,773	30,505	-	117,760	12,954	130,714
			D Steelwork	142,175	3,050	76,247	14,526	232,948	25,624	258,572
			E Tankage	187,567	2,145	81,671	18,952	288,189	26,671	314,861
			F Mechanical	380,549	3,186	95,567	30,444	506,559	35,459	542,019
		230 Water Services	A General	-	-	-	-	-	-	-
			C Concrete	78,546	4,138	45,516	-	124,062	13,647	137,709
			D Steelwork	135,500	2,925	73,125	15,900	224,525	24,698	249,223
			E Tankage	111,223	2,847	125,282	8,898	245,403	22,086	267,489
			F Mechanical	335,000	3,056	91,665	26,800	453,465	31,743	485,208
		250 Air Services	C Concrete	11,400	572	6,288	-	17,688	1,946	19,633
			D Steelwork	41,600	855	21,375	4,472	67,447	7,419	74,866
			F Mechanical	387,414	1,170	35,100	30,993	453,508	31,746	485,253

Prepared by : RJO
Print Date : 30/10/2014 9:27 AM
Period : 2Q14
Currency : USD
Accuracy : +/-% 25%

CAPITAL COST ESTIMATE
Rev A

Summary Plant Area & Disc

Condor Gold
La India Gold Project
5032

Scope	Main Area	Plant Area CCC Code	PDisc. Prelim.	Supply Cost	Installation Hours	Labour Installation Cost	Freight Cost	Project Totals USD	Contingency USD	Total Project USD
		260 Fuels	C Concrete	6,550	339	3,724	-	10,274	1,130	11,404
			E Tankage	27,500	540	13,500	3,300	44,300	3,987	48,287
			F Mechanical	13,000	189	5,670	1,040	19,710	1,380	21,090
		270 Electrical Services	C Concrete	18,950	1,026	11,286	-	30,236	3,326	33,562
			D Steelwork	75,100	1,580	39,488	8,158	122,746	13,502	136,248
			F Mechanical	8,750	1,181	35,438	700	44,888	3,142	48,030
	200 Reagents & Plant Services Total			**2,048,079**	**31,570**	**791,444**	**164,183**	**3,003,706**	**260,459**	**3,264,165**
	300 Infrastructure	301 Infrastructure - General	A General	-	-	-	-	-	-	-
		310 Environmental	B Earthworks	6,432	-	21,742	-	28,174	7,043	35,217
			F Mechanical	5,000	36	1,080	400	6,480	454	6,934
		320 Utilities & Services	A General	-	-	-	-	-	-	-
			F Mechanical	30,000	300	9,000	2,400	41,400	2,898	44,298
			G Piping	50,000	3,375	101,250	4,000	155,250	31,050	186,300
		340 Tailings Dam	G Piping	79,000	4,410	132,300	6,320	217,620	43,524	261,144
		350 Plant Buildings	C Concrete	3,752	27	295	-	4,047	445	4,492
			F Mechanical	46,638	536	16,065	3,731	66,434	4,650	71,084
			M Buildings	986,872	32,014	606,821	246,286	1,839,979	183,998	2,023,977
	300 Infrastructure Total			**1,207,694**	**40,697**	**888,552**	**263,137**	**2,359,383**	**274,062**	**2,633,446**
Lyco Directs Total				**25,817,377**	**351,591**	**9,134,084**	**2,061,594**	**37,013,054**	**4,436,055**	**41,449,109**
Lyco Indirects	000 Construction Indirects	001 Construction Indirects - Contract	B Earthworks	-	-	189,000	-	189,000	47,250	236,250
			C Concrete	299,000	-	-	-	299,000	32,890	331,890
			D Steelwork	-	-	670,000	-	670,000	73,700	743,700
			E Tankage	-	-	298,154	-	298,154	26,834	324,987
			F Mechanical	-	-	312,500	-	312,500	34,375	346,875
			M Buildings	165,000	-	-	-	165,000	16,500	181,500
		010 Construction Indirects - General	A General	205,000	-	-	500,000	705,000	70,500	775,500
			P EPCM	-	-	542,850	-	542,850	54,285	597,135
		020 Site Construction Facilities	A General	29,500	400	9,092	8,000	46,592	4,659	51,251
		040 Construction Operations	A General	326,559	-	163,986	-	490,545	49,054	539,599
	000 Construction Indirects Total			**1,025,059**	**400**	**2,185,581**	**508,000**	**3,718,640**	**410,047**	**4,128,687**
	500 Management Costs	510 EPCM - Home Office	P EPCM	4,000,000	-	-	-	4,000,000	400,000	4,400,000
		520 EPCM - Site	P EPCM	150,000	28,920	3,158,000	-	3,308,000	330,800	3,638,800
		540 Specialist Consultants	P EPCM	20,000	-	-	-	20,000	2,000	22,000
	500 Management Costs Total			**4,170,000**	**28,920**	**3,158,000**	**-**	**7,328,000**	**732,800**	**8,060,800**
Lyco Indirects Total				**5,195,059**	**29,320**	**5,343,581**	**508,000**	**11,046,640**	**1,142,847**	**12,189,487**
Grand Total				**31,012,436**	**380,911**	**14,477,665**	**2,569,594**	**48,059,694**	**5,578,903**	**53,638,597**

Exclusions
Mining Costs and mine service buildings
Tailings Dam
Surface Water Management System
Owners Costs
Road Diversion
HV Power Line Relocation
HV Sub-Station
Import Duties and Taxes
Construction Camp
Sunk Costs
Pre-Production Costs
Mobile Plant and Light Vehicles
Maintenance Equipment
Village Relocation

Prepared by : RJO
Print Date : 30/10/2014 9:27 AM
Period : 2Q14
Currency : USD
Accuracy : +/-% 25%

CAPITAL COST ESTIMATE
Rev A

Summary Plant Area & Disc

Condor Gold
La India Gold Project
5032

Scope	Main Area	Plant Area CCC Code	PDisc. Prelim.	Supply Cost	Installation Hours	Labour Installation Cost	Freight Cost	Project Totals USD	Contingency USD	Total Project USD
Operations Accommodation										
Geotechncial, Tailings, other EPCM costs										

Prepared by : RJO
Print Date : 30/10/2014 9:24 AM
Period : 2Q14
Currency : USD
Accuracy : +/-% 25%

CAPITAL COST ESTIMATE
Rev A

Summary Main Area

Condor Gold
La India Gold Project
5032

Scope	Main Area	Supply Cost	Installation Hours	Labour Installation Cost	Freight Cost	Project Totals USD	Contingency USD	Total Project USD	%
Lyco Directs	100 Treatment Plant	22,561,603	279,323	7,454,088	1,634,274	31,649,965	3,901,534	35,551,499	66.3%
	200 Reagents & Plant Services	2,048,079	31,570	791,444	164,183	3,003,706	260,459	3,264,165	6.1%
	300 Infrastructure	1,207,694	40,697	888,552	263,137	2,359,383	274,062	2,633,446	4.9%
Lyco Directs Total		**25,817,377**	**351,591**	**9,134,084**	**2,061,594**	**37,013,054**	**4,436,055**	**41,449,109**	77.3%
Lyco Indirects	000 Construction Indirects	1,025,059	400	2,185,581	508,000	3,718,640	410,047	4,128,687	7.7%
	500 Management Costs	4,170,000	28,920	3,158,000	-	7,328,000	732,800	8,060,800	15.0%
Lyco Indirects Total		**5,195,059**	**29,320**	**5,343,581**	**508,000**	**11,046,640**	**1,142,847**	**12,189,487**	22.7%
Grand Total		**31,012,436**	**380,911**	**14,477,665**	**2,569,594**	**48,059,694**	**5,578,903**	**53,638,597**	100.0%
		64.5%	0.8%	30.1%	5.3%	100.0%	11.6%		

Exclusions
Mining Costs and mine service buildings
Tailings Dam
Surface Water Management System
Owners Costs
Road Diversion
HV Power Line Relocation
HV Sub-Station
Import Duties and Taxes
Construction Camp
Sunk Costs
Pre-Production Costs
Mobile Plant and Light Vehicles
Maintenance Equipment
Village Relocation
Operations Accommodation
Geotechncial, Tailings, other EPCM costs

Orginal Cost Estimate	**58,247,162**	**Saving**
Fab steel in Thailand	57,569,804	677,358
Fab Platework in Indonesia	57,281,805	287,999
Use flat pack buildings	56,878,226	403,579
Field Erected Tankage Savings	56,590,208	288,018
General Plant Site Reductions	54,717,091	1,873,117
Potential Savings in E&I (10% of Direct Costs)		500,000
Bundle Major Mech Equipment (3% saving)		195,000
	54,022,090	
Delete Mining Buildings covered by SRK		383,493
		4,608,564

APPENDIX 7

OPERATING COST ESTIMATE

Condor Gold PLC

La India Gold Project

2300 TPD PRIMARY THROUGHPUT

PLANT OPERATING COSTS

01-Aug-14

Prepared By:

Lycopodium

REV. NO.	DATE	DESCRIPTION OF REVISION	BY	DESIGN APPROVAL	PROJECT APPROVAL
E	01-Aug-14	Re-Issued for Study	AC		
D	17-Jul-14	Re-Issued for Study	AC		
C	09-Jul-14	Issued for Study	AC		
B	26-Jun-14	Issued for Final Review	AF		
A	17-Jun-14	Issued for Review	AC		

La India Gold Project
Condor Gold PLC
Pre Feasibility Study
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Rev E

REVISION RECORD

Date	Revision	Description	Reason	Initials
17-Jun-14	A	Issued for Review		AC
26-Jun-14	B	Issued for Final Review		AF
		Review of maintenance and labour costs to fit to shift schedule		AF
		Fixed vs variable power calculation - set mill to 0%, adjusted some of the other usage factors.		AF
		Average continous power draw in crushing and grinding estimate based on operating hours.		AF
		Cyanide cost from $3,400 to $2,700 based on new quote from Cyanco.		AF
		Liner wear consumable reduced to 55% of the amount calculated by Bond.		AF
		Equipment list power total, removed duplicates and non continuous items.		AF
09-Jul-14	C	Issued for Study		AC
		Diesel price down to $1.00 from $1.20 per Dan M		AC
		Grinding power calculation corrected from availability to continuous load factor		AC
		SBMS consumption rate reduced from 10kg/kg CN to 8kg/kg CN to account for increase discharge of 30ppm CN from 1ppm		AC
		Power cost reduced from $0.20/kWh to $0.18/kWh per Dan M		AC
		Labour Rates Increased per Dan M based on data reported from B2		AC
		Equipment Capital Cost updated per estimate to correct maintenance cost		AC
		Abrasion index reduced from 1.13 to 1.08 to represent a weighted average		AC
		Cyanide cost from $2,700 to $2,620 based on new quote from Dupont		AC
		Concentrate assay costs removed		AC
17-Jul-14	D	Revised diesel price to $0.85 per email from Condor and completed elution, goldroom, and regeneration energy requirements utilizing new diesel price		AC
		SBMS unit cost lowered to reflect flottec quote and lime unit cost raised to include freight		AC
		Added costs associated with FEL operation for reclaiming the crushed ore stockpile		AC
01-Aug-14	E	Updated power consumption to reflect latest load list and corrected mill average draw		AC

La India Gold Project
Condor Gold PLC
Pre Feasibility Study
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Rev E

QUALIFICATIONS

The operating cost estimate presented here includes all direct costs associated with the Project to allow production of Gold dorè. The operating cost estimate is presented with the following qualifications and exclusions:

1 Exclusions Summary

1.1 General
- 1.1.1 All costs associated with areas beyond the battery limits of the study.
- 1.1.2 Import duties
- 1.1.3 All taxes (GST and/or VAT, etc.)
- 1.1.4 Any impact of foreign exchange rate fluctuations, other than Cordoba to USD
- 1.1.6 Any escalation from the date of the estimate
- 1.1.7 Project finance costs
- 1.1.8 Interest charges
- 1.1.9 Corporate Overheads
- 1.1.10 Political risk insurance
- 1.1.11 Plant rehabilitation costs
- 1.1.12 Any land or crop compensation costs
- 1.1.13 Licence fees
- 1.1.14 Royalties
- 1.1.15 General and Administration Costs (G&A)

1.2 Contingency
- 1.2.1 No allowance for contingency

1.3 Mining
- 1.3.1 ROM Stockpile rehandling costs
- 1.3.2 All mining and exploration costs, including mining services
- 1.3.3 Maintenance cost of all mine, haul and plant access roads.

1.4 Product
- 1.4.1 Products transport costs
- 1.4.2 Products marketing costs
- 1.4.3 Products insurance costs

1.5 Tailings
- 1.5.1 Tailings storage costs, including future lifts and rehabilitation
- 1.5.2 External Goverment required monitoring costs

1.6 Environmental
- 1.6.1 Any rehabilitation or closure costs

1.7 Laboratory
- 1.7.1 Grade control and exploration analytical costs
- 1.7.2 Contract labour

2 Estimate Basis

2.1 All costs and exchange rates are as at 2Q 2014
2.2 Currency of Estimate: US$
2.3 Accuracy: ± 25 %
2.4 Exchange rate - US$ 1.00 = Cordoba 25
2.5 Fuel costs have been based on a diesel price of US$ 0.86 /L
2.6 Power unit costs have been based on grid supply, with an electricity cost of US$ 0.18 /kWh
2.7 Consumables costs have been based on data from the Lycopodium database of recent projects as well as vendor pricing.
2.8 Grinding media consumption rates have been based on Lycopodium Modelling
2.9 Reagent consumption rates have been based on preliminary testwork and the Lycopodium database of projects
2.10 Power consumption has been based on data from the Lycopodium database of recent projects
2.11 Maintenance costs have been factored from the capital cost estimate for similar sized plants, using factors from the Lycopodium database
2.12 Labour unit costs have been taken from client supplied data.
2.13 Mobile equipment cost provides for fuel and maintenance, not for purchase or vehicle lease
2.14 The pebble crusher circuit is not included in the operating cost.

3 Battery Limits

3.1 Feed into ROM bin. Loader to crusher excluded.
3.2 Tails in tailings dam
3.3 Gold bullion in safe on site. No transport or refining charge included

Project Name: La India Gold Project
Client: Condor Gold PLC
Project Description: Pre Feasibility Study
Job No.: 5032
Option:
Revision: E

Annual Throughput		**805,000**	tpa	Design Basis
		CR, SS-SAG, CIL		
Operating Basis				
Hours per day		**24**		
Days per yer		**350**		
Operating Hours				
Crushing Plant		**6300**	h/y	5027-PDC-001
Milling		**7728**	h/y	5027-PDC-001
Crusher Throughput		135	dtph	Calculated
Mill Throughput		2,300	dry t/d	Calculated
Mill Throughput		2,300	tph	Calculated
Estimate Period		**2Q 2014**		Design Basis
Estimate Accuracy		**± 25%**		Design Basis
Estimate Currency		**US$**		Design Basis
Labour Cost Basis		**NON-EXPAT**		
Exchange Rate:				
US$ 1.00		**1.000**	US$	20-month average
Cordoba		**25.000**	Cordoba	
Fuel Price				
Diesel price		**$ 0.86**	US$/L	Email from Client
Power Supply		**GRID**		Client
Power Cost - Diesel				
Operating Cost		**$ 0.036**	US$/kWh	Assumption
Diesel Consumption		**0.26**	L/kWh	Assumption
Total Cost		0.26	US$/kWh	
Power Cost - Grid				
Demand charge		**$ -**	US$/month	Assumption
Local		**$ 0.18000**	US$/kWh	Design Basis
		$ -	US$/kWh	
Unit Rate		$ 0.180	US$/kWh	Calc
Total Cost		$ 0.180	US$/kWh	
Ore Properties				
Au		**3.400**	g Au/t	5032-PDC-001
Ag		**5.800**	g Ag/t	5032-PDC-001
Specific Gravity (SG)		**2.54**		5032-PDC-001
Axb		**40.0**		AG-SAG Design 2013 La India
Bond BWI		**21.9**		AG-SAG Design 2013 La India
Bond AI		**1.1300**		AG-SAG Design 2013 La India
Bond CWI		**19.5**		Assumption
Recovery				
Gravity Circuit Recovery				
Au		**0.0%**		5032-PDC-001
Ag		**0.0%**		5032-PDC-001
Flotation Circuit Recovery				
Au		**0.0%**		5032-PDC-001
Ag		**0.0%**		5032-PDC-001
Intense Cyanidation Recovery				
Au		-		5032-PDC-001
Ag		-		5032-PDC-001
CIL Leach Recovery				
Au		**90.2%**		5032-PDC-001
Ag		**69.9%**		5032-PDC-001
Overall Recovery w/ Gravity				
Au		**90.2%**		5032-PDC-001
Ag		**69.9%**		5032-PDC-001
Overall Recovery w/o Gravity				
Au				5032-PDC-001
Ag				5032-PDC-001
Annual Gold Production	-	79,382	- oz/year	Calc
Annual Silver Production	-	104,940	- oz/year	Calc

Project Name: La India Gold Project
Client: Condor Gold PLC
Project Description: Pre Feasibility Study
Job No.: 5032
Option:
Revision: E

Annual Metal Production	-	184,322	-	oz/year	Calc
Annual Equivalent Gold Production	-	81,006	-	oz/year	Calc
NY Spot price, Au (Jun 17th 2014)		1,264		$/oz	http://www.kitco.com
NY Spot price, Ag (Jun 17th 2014)		19.56		$/oz	http://www.kitco.com
Au/Ag Ratio		65			
Crushing					
Crusher throughput		805,000		tpa	
Annual Operating Hours		6,300		h/y	
Availability		**75.0%**			Calc
SAG Mill					
SAG Mill throughput		805,000		tpa	
		104		tph	
Annual Operating Hours		7,728		h/y	
Availability		**92.0%**			Calc
Specific Energy		**28.4**		kWh/t	5032-PDC-001
Pre-Leach Thickener					
Concentrate Thickener Feed	-	805,000	-	tpa	
	-	104.17	-	tph	
Flocculant addition	-	**48.0**		g/t thickener feed	5032-PDC-001
Cyanide Thickener					
Tailings Thickener Feed	-	805,000	-	tpa	Calculated
	-	104.2	-	tph	
Flocculant addition	-	**48.0**		g/t thickener feed	5032-PDC-001
CIL					
Number of Tanks		**6**	**-**	tanks	5032-PDC-001
%Solids		**48%**	**-**		5032-PDC-001
CIL Feed		805,000	**-**	tpa	5032-PDC-001
		104	**-**		
Annual Operating Hours		7,728	**-**	h/y	
Availability		**92.0%**	**-**		
Elution					
Number of Strips		**6**	**-**	strips / week	5032-PDC-001
Carbon		**5.0**	**-**	t/strip	5032-PDC-001
Strip Time		**2.5**	**-**	h/strip	Assumed
Strip Heater Operating Time		**2.5**	**-**	h/strip	
Annual Operating Hours		**780**	**-**	h/yr	
Availability		8.9%	**-**	%	
Gold Room					
Number of Smelts		**2**		smelt / week	Assumed
Smelt time		**4**		h / smelt	Assumed
Cyanide Detoxification		**SO2 / Air**			
Tailings %Solids		**50%**		% solids	5032-PDC-001
Tailings Slurry		1,610,000		tpa slurry	
Tailings Solution		805,000		m3/y solution	
WAD Cyanide in Reactor Feed		**150**		g/m^3	
WAD Cyanide in Reactor Discharge		**1**		g/m^3	
WAD Cyanide Load		120,750		kg/year	
WAD Cyanide Discharge		805		kg/year	
WAD Cyanide Destroyed		119,945		kg/year	
Reagents					
Activated Carbon					
(Pica G210-AS or equivalent)					
CIL Carbon in circuit		**60.0**	-	t	5032-PDC-001
CIL Carbon consumption per day		**40.0**	-	g/t ore	5032-PDC-001
Total Annual Consumption		32.2	0.0	tpa	Calc
Lime					
(Quicklime - CaO 90% w/w)					
CIL		**0.93**	-	kg/t ore	5032-PDC-001
		748.7	-	tpa	Calc
Cyanide treatment (destruction)		**4**	**0**	kg/kg CN	5032-PDC-001
		531.3	0.0	tpa	Calc
Flotation		-	-	kg/h	5032-PDC-001
		-	-	tpa	Calc
Total		1,280.0	-	tpa	Calc
Cyanide					
(NaCN 20% w/w)					

Project Name: La India Gold Project
Client: Condor Gold PLC
Project Description: Pre Feasibility Study
Job No.: 5032
Option:
Revision: E

CIL Solid NaCN		**0.65**	-	kg/t ore	5032-PDC-001
		523.3		tpa	Calc
Elution Solid NaCN		**128**		kg/strip	5032-PDC-001
		39.9		tpa	Calc
ILR Solid NaCN		**0**		kg/d	5032-PDC-001
		-		tpa	Calc
Total Solid NaCN		563.2		tpa	Calc
Sodium Hydroxide (NaOH 20% w/w)					
Elution Solid NaOH		**365**	-	kg/strip	5032-PDC-001
		113.9	-	tpa	
ILR Solid NaOH		**0**		kg/d	5032-PDC-001
		-	-	tpa	
Total Solid NaOH			-		
		113.9	-	tpa	Calc
Hydrochloric Acid (HCl 32%)					
Elution / Gold Room HCl		**598**	**-**	kg/strip	5032-PDC-001
Total		186.6	-	tpa	Calc
Smelting Flux					
Silica	**10**	**10**	**10**	kg/1000oz	5032-PDC-001
Borax	**15**	**15**	**15**	kg/1000oz	5032-PDC-001
Sodium Nitrate	**15**	**15**	**15**	kg/1000oz	5032-PDC-001
Fluorspar	**5**	**5**	**5**	kg/1000oz	5032-PDC-001
Silica	-	1.843	-	tpa	Calc
Borax	-	2.765	-	tpa	Calc
Sodium Nitrate	-	2.765	-	tpa	Calc
Fluorspar	-	0.922	-	tpa	Calc
	-	8.294	-	tpa	Calc
Sodium Metabisulphite (NaS2O5)					
Detox Area		**8.0**		kg/kg CN	5032-PDC-001 revised in Rev C from 10
Total		966.0	-	tpa	to account for 30ppm discharge
Copper Sulphate Pentahydrate					
Detox Area		**0.87**		kg/kg CN	5032-PDC-001
		105.1	-	tpa	Calc
Total		105.1	-	tpa	Calc
PAX Collector					
Flotation	-			kg/h	Calc
Total	-	0.0	-	tpa	Calc
MIBC Frother					
Flotation	-			kg/h	Calc
Total	-	0.0	-	tpa	Calc
Flocculant					
Pre-Leach Thickener	-	**48**	0.0	g/t	5032-PDC-001
Total	-	38.6	-	tpa	Calc
Cyanide Thickener	-	**48**	0.0	kg/t	Calc
Total	-	38.6	-	tpa	5032-PDC-001
Water					
Process Water		**113**	**122**	m3/h	5032-PDC-001
Raw Water		**11**	**10**	m3/h	5032-PDC-001
Potable Water		**0.0**	**0.2**	m3/d/person	5032-PDC-001
Process Water	-	949,200	1,024,800	m3/y	Calc
Raw Water	-	92,400	84,000	m3/y	Calc
Potable Water	-	-	446	m3/y	Calc

La India Gold Project
Condor Gold PLC
Pre Feasibility Study
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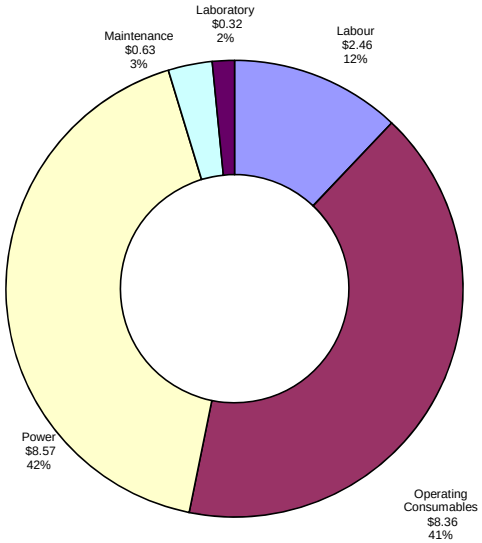
Rev E

SUMMARY OF OPERATING COSTS

Annual throughput **805,000** tpa ore

Cost Category	Total Cost					Distribution		Fixed Cost	Variable Cost	
	US$/year	US$/t ore	US$/oz Au	US$/oz Ag	US$/oz Au (Equiv.)		% Fixed	US$/year	US$/year	US$/t ore
Labour	$ 1,977,072	$ 2.46	$ 24.91	$ 18.84	$ 24.41	12.1%	100%	$ 1,977,072	$ -	$ -
Operating Consumables	$ 6,730,133	$ 8.36	$ 84.78	$ 64.13	$ 83.08	41.1%	8%	$ 567,311	$ 6,162,822	$ 7.656
Power	$ 6,897,275	$ 8.57	$ 86.89	$ 65.73	$ 85.14	42.1%	13%	$ 874,216	$ 6,023,060	$ 7.482
Maintenance	$ 509,837	$ 0.63	$ 6.42	$ 4.86	$ 6.29	3.1%	100%	$ 509,837	$ -	$ -
Laboratory	$ 256,135	$ 0.32	$ 3.23	$ 2.44	$ 3.16	1.6%	100%	$ 256,135	$ -	$ -
TOTAL	**$16,370,452**	**$ 20.34**	**$ 206.22**	**$ 156.00**	**$ 202.09**	**100%**		**$ 4,184,571**	**$ 12,185,882**	**$ 15.14**



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LABOUR COSTS

Basis	12	hours per day
Shift Roster	2	shifts per day
	4	shifts in total
Panel Rotation	4 days on, 4 days off	

0

	Employees per Team	Number of Teams	Number of Employees	Classification	Base Annual Salary/Wage US$	Overhead Costs %	Overhead Costs US$	Annual Labour Costs US$	Total Annual Labour Costs US$
Administration Department									
Management									
Site Manager	1	1	0	M 6	$ 160,000	24%	$ 38,800	$ 198,800	$ -
Office Manager	0	1	0	M 2	$ 18,288	24%	$ 4,435	$ 22,723	$ -
Secretary	1	4	0	AC 1	$ 4,140	24%	$ 1,004	$ 5,144	$ -
Safety, Health & Environment									
SHE Manager	1	1	0	M 1	$ 18,288	24%	$ 4,435	$ 22,723	$ -
OH&S Officer	1	1	0	SD 6	$ 16,296	23%	$ 3,789	$ 20,085	$ -
Environmental Monitoring Officer	1	1	0	SD 4	$ 10,000	23%	$ 2,325	$ 12,325	$ -
Environmental Technicians	1	1	0	SD 1	$ 4,140	23%	$ 963	$ 5,103	$ -
First Aid Officer	0	1	0	SD 2	$ 16,296	23%	$ 3,789	$ 20,085	$ -
Human Resources									
HR Manager	1	1	0	SD 7	$ 18,288	23%	$ 4,252	$ 22,540	$ -
Senior HR Officer	0	1	0	SD 3	$ 18,288	23%	$ 4,252	$ 22,540	$ -
HR Officer	0	1	0	SD 3	$ 18,288	23%	$ 4,252	$ 22,540	$ -
Training Superintendent	1	1	0	SD 5	$ 18,288	23%	$ 4,252	$ 22,540	$ -
Security									
Manager Security	1	1	0	SD 7	$ 18,288	23%	$ 4,252	$ 22,540	$ -
Security Supervisors	1	4	0	SS 5	$ 16,296	33%	$ 5,418	$ 21,714	$ -
Security Staff	2	4	0	SS 3	$ 5,000	33%	$ 1,663	$ 6,663	$ -
Finance & Administration									
Administration Manager	1	1	0	M 2	$ 100,000	24%	$ 24,250	$ 124,250	$ -
Senior Accountant	0	1	0	SD 7	$ 85,000	23%	$ 19,763	$ 104,763	$ -
Accountant	1	1	0	SD 6	$ 70,000	23%	$ 16,275	$ 86,275	$ -
Accounts Clerk	0	1	0	SD 2	$ 50,000	23%	$ 11,625	$ 61,625	$ -
Payroll Clerk	0	1	0	SD 2	$ 50,000	23%	$ 11,625	$ 61,625	$ -
Purchasing Officer	1	1	0	SD 3	$ 55,000	23%	$ 12,788	$ 67,788	$ -
Warehouse Officer	1	1	0	SD 3	$ 55,000	23%	$ 12,788	$ 67,788	$ -
Warehouse Labour	1	1	0	SD 2	$ 3,024	23%	$ 703	$ 3,727	$ -
Expediter Clerk	0	1	0	SD 2	$ 50,000	23%	$ 11,625	$ 61,625	$ -
IT									
Communications / IT Technician	1	1	0	SD 4	$ 16,296	23%	$ 3,789	$ 20,085	$ -
Community Relations									
Community Relations Manager	1	1	0	SD 6	$ 16,296	23%	$ 3,789	$ 20,085	$ -
Administration Subtotal			0						$ -
Process Plant									
Process Plant Manager	1	1	1	M 1	$ 143,000	24%	$ 34,678	$ 177,678	$ 177,678
Secretary	0	1	1	SD 1	$ 3,000	23%	$ 698	$ 3,698	$ 3,698
Operations									
Plant Superintendent	1	1	1	M 1	$ 137,500	24%	$ 33,344	$ 170,844	$ 170,844
General Foreman / Process Trainer	0	1	0	M 1	$ 54,000	24%	$ 13,095	$ 67,095	$ -
Shift Supervisors	1	4	4	SS 1	$ 37,500	33.3%	$ 12,469	$ 49,969	$ 199,875
Control Room Operators	1	4	4	SS 1	$ 21,000	33%	$ 6,983	$ 27,983	$ 111,930
Crushing Operators	1	4	4	SS 1	$ 18,600	33%	$ 6,185	$ 24,785	$ 99,138
Milling Operators	1	4	4	SS 1	$ 21,000	33%	$ 6,983	$ 27,983	$ 111,930
CIL Operators	1	4	4	SS 1	$ 18,600	33%	$ 6,185	$ 24,785	$ 99,138
Flotation Operators	0	4	0	SS 1	$ 18,600	33%	$ 6,185	$ 24,785	$ -
Relief/Daycrew Operators	1	4	4	SS 1	$ 18,600	33%	$ 6,185	$ 24,785	$ 99,138
Goldroom Supervisors	2	1	2	SD 1	$ 37,500	23%	$ 8,719	$ 46,219	$ 92,438
Goldroom Operators	2	1	2	SD 1	$ 18,600	23%	$ 4,325	$ 22,925	$ 45,849
Senior Metallurgist	1	1	1	SD 1	$ 54,000	23%	$ 12,555	$ 66,555	$ 66,555
Plant Metallurgist	1	1	1	SD 1	$ 23,400	23%	$ 5,441	$ 28,841	$ 28,841
Lab Analyst	1	1	2	SD 6	$ 16,296	23%	$ 3,789	$ 20,085	$ 40,170
Lab Technicians	2	1	2	SD 2	$ 10,800	23%	$ 2,511	$ 13,311	$ 26,622
Met Technician	0	1	4	SD 2	$ 10,800	23%	$ 2,511	$ 13,311	$ 53,244
Maintenance									
Maintenance Manager	1	1	1	M 1	$ 42,000	24%	$ 10,185	$ 52,185	$ 52,185
Maintenance Supervisor	1	4	4	SD 1	$ 42,000	23%	$ 9,765	$ 51,765	$ 207,060
Maintenance Planner/Trainer	1	1	1	SD 1	$ 42,000	23%	$ 9,765	$ 51,765	$ 51,765
Mechanical Engineer	0	1	0	SD 1	$ 54,000	23%	$ 12,555	$ 66,555	$ -
Electrical Engineer	0	1	0	SD 1	$ 54,000	23%	$ 12,555	$ 66,555	$ -
Mechanical Supervisor	0	1	0	SD 1	$ 37,500	23%	$ 8,719	$ 46,219	$ -
Electrical Supervisor	0	1	0	SD 1	$ 37,500	23%	$ 8,719	$ 46,219	$ -
Boilermakers	1	4	4	SD 1	$ 7,800	23%	$ 1,814	$ 9,614	$ 38,454
Millwright	1	4	4	SD 1	$ 7,800	23%	$ 1,814	$ 9,614	$ 38,454
Trades Assistants	1	4	4	SD 1	$ 6,600	23%	$ 1,535	$ 8,135	$ 32,538
Electricians	1	4	4	SD 1	$ 11,400	23%	$ 2,651	$ 14,051	$ 56,202
Instrument Technicians	1	4	4	SD 1	$ 10,800	23%	$ 2,511	$ 13,311	$ 53,244
Warehouse Manager	1	1	1	SD 4	$ 16,296	23%	$ 3,789	$ 20,085	$ 20,085
Process Subtotal			68						$ 1,977,072
Total			68						$ 1,977,072

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LABOUR COST SUMMARY

Basis	12	hours per day
Shift Roster	2	shifts per day
	4	shifts in total
Panel Rotation	4 days on, 4 days off	

0

Area	Employees	Labour US$/year	Camp US$/year	Transport US$/year	Housing US$/year	FIFO US$/year	Travel US$/year	Total US$/year
Administration	0	$ -						$ -
	41	$ 1,427,085						$ 1,427,085
Process Plant Maintenance	27	$ 549,987						$ 549,987
Mining Operations	0	$ -						$ -
Mining Maintenance	0	$ -						$ -
Total	**68**	**$ 1,977,072**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ 1,977,072**

NOTES
1. Direct Labour Costs include Oncosts, refer to "*Labour Costs*" based on the selected rates.
2. Camp Costs include all costs associated with the accommodation camp, as calculated here.
3. Transport Costs include the cost of transport between the camp/village and the plant (e.g. bussing)
4. Housing Costs include any additional housing assistance to senior staff that have not been included in the Labour costs
5. FIFO Costs include all expenses relating to a fly-in-fly-out operation
6. Travel Costs include all travel costs for senior staff that have not been included in the Labour costs (e.g. Expat travel to home country)

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OPERATING CONSUMABLES COST

Throughput 805,000 t ore/year

Operating Consumable			Unit Cost (Total on site) US$/unit	Unit	Consumption Rate			Total Cost US$	Total Cost US$/t ore	% Fixed %	Fixed US$/y	Variable US$/y	Variable US$/t ore
Crusher Liners													
Jaw Crusher Fixed	Fixed Jaw	Metso C100	$ 7,500	ea.			8.9 set(s)/y	$ 66,780	$ 0.083	0%	$ -	$ 66,780	$ 0.083
Jaw Crusher Moveable	Swing Jaw	Metso C100	$ 6,200	ea.			7.0 set(s)/y	$ 43,400	$ 0.054	0%	$ -	$ 43,400	$ 0.054
SAG Mill	100 mm thickness	Steel	$ 2,564	/tonne		0.188 kg/t milled	151 t/y	$ 387,688	$ 0.482	0%	$ -	$ 387,688	$ 0.482
Grinding Media													
SAG Mill Balls	125 mm	Steel	$ 1,600	/ t			0 t/y	$ -	$ -	0%	$ -	$ -	$ -
SAG Mill Balls	105 mm	Steel	$ 1,600	/ t		1.842 kg/t milled	1,483 t/y	$ 2,373,049	$ 2.948	0%	$ -	$ 2,373,049	$ 2.948
SAG Mill Balls	94 mm	Steel	$ 1,600	AC			0 t/y	$ -	$ -	0%	$ -	$ -	$ -
SAG Mill Balls	80 mm	Steel	$ 1,600	/ t			0 t/y	$ -	$ -	0%	$ -	$ -	$ -
SAG Mill Balls	65 mm	Steel	$ 1,600	/ t			0 t/y	$ -	$ -	0%	$ -	$ -	$ -
SAG Mill Balls	50 mm	Steel	$ 1,600	/ t			0 t/y	$ -	$ -	0%	$ -	$ -	$ -
Screen Consumables													
Gravity Circuit Screen	1.2 m x 2.4 m	Polyurethane	$ 5,000	set			1.0 set(s)/y	$ 5,000	$ 0.006	0%	$ -	$ 5,000	$ 0.006
Cyclone O/F Trash Screen	0.63 x 18 mm	Polyurethane	$ 5,000	set			1.0 set(s)/y	$ 5,000	$ 0.006	0%	$ -	$ 5,000	$ 0.006
Loaded Carbon Recovery Sc	0.7 x 18 mm	Polyurethane	$ 5,000	set			0.0 set(s)/y	$ -	$ -	0%	$ -	$ -	$ -
Carbon Sizing Screen	0.83 x 18 mm	Polyurethane	$ 5,000	set			0.0 set(s)/y	$ -	$ -	0%	$ -	$ -	$ -
CIL Intertank Screen	1.6 m x 6 m	Polyurethane	$ 5,000	set			0.0 set(s)/y	$ -	$ -	0%	$ -	$ -	$ -
Carbon Safety Screen	1 x 18 mm	Polyurethane	$ 5,000	set			0.0 set(s)/y	$ -	$ -	0%	$ -	$ -	$ -
Carbon Dewatering Screen	0.83 x 18 mm	Polyurethane	$ 5,000	set			0.0 set(s)/y	$ -	$ -	0%	$ -	$ -	$ -
Reagents - Carbon													
Activated Carbon	(Pica G210-AS or equivalent)	1.68 x 2.39 mm	$ 3,910	/ t			32.2 t/y	$ 125,902	$ 0.156	50%	$ 62,951	$ 62,951	$ 0.078
Reagents - ILR, CIL, Elution													
Lime	(Quicklime - CaO 90% w/w)		$ 210	/ t			1,280.0 t/y	$ 268,790	$ 0.334	0%	$ -	$ 268,790	$ 0.334
Cyanide	(NaCN 20% w/w)	Dry briquettes	$ 2,620	/ t			563.2 t/y	$ 1,475,547	$ 1.833	0%	$ -	$ 1,475,547	$ 1.833
Sodium Hydroxide	(NaOH 20% w/w)	Pearls	$ 1,150	/ t			113.9 t/y	$ 130,962	$ 0.163	0%	$ -	$ 130,962	$ 0.163
Hydrochloric Acid	(HCl 32%)	IBC	$ 900	/ t			186.6 t/y	$ 167,918	$ 0.209	0%	$ -	$ 167,918	$ 0.209
Sodium Metabisulphite	(NaS2O5)		$ 496	/ t			966.0 t/y	$ 479,136	$ 0.595	0%	$ -	$ 479,136	$ 0.595
Copper Sulphate Pentahydrate			$ 2,382	/ t			105.1 t/y	$ 250,235	$ 0.311	100%	$ 250,235	$ -	$ -
Reagents - Smelting Flux													
Silica			$ 900	/ t			1.8 t/y	$ 1,659	$ 0.002	100%	$ 1,659	$ -	$ -
Borax			$ 1,275	/ t			2.8 t/y	$ 3,525	$ 0.004	100%	$ 3,525	$ -	$ -
Sodium Nitrate			$ 1,660	/ t			2.8 t/y	$ 4,590	$ 0.006	100%	$ 4,590	$ -	$ -
Fluorspar			$ 900	/ t			0.9 t/y	$ 829	$ 0.001	100%	$ 829	$ -	$ -
Reagents - Gold Room													
Crucibles			$ 1,623	ea.			0.0 /y	$ -	$ -	100%	$ -	$ -	$ -
Electrowinning - CIL													
Electrodes			$ -	ea.			0.0 /y	$ -	$ -	0%	$ -	$ -	$ -
Replacement Anodes			$ -	ea.			0.0 /y	$ -	$ -	0%	$ -	$ -	$ -
Replacement Cathodes			$ -	ea.			0.0 /y	$ -	$ -	0%	$ -	$ -	$ -
Stainless Steel Stocking			$ 72	kg			0.0 kg/y	$ -	$ -	0%	$ -	$ -	$ -
Stainless Steel Wool Mats			$ -	set			0.0 set(s)/y	$ -	$ -	0%	$ -	$ -	$ -
Stainless Steel Wool			$ -	set			0.0 set(s)/y	$ -	$ -	0%	$ -	$ -	$ -
Electrowinning - Intense Cyanidation													

Electrodes			$	-	ea.			0.0 /y	$	-	$	-	0%	$	-	$	-	$	-
Replacement Anodes			$	-	ea.			0.0 /y	$	-	$	-	0%	$	-	$	-	$	-
Replacement Cathodes			$	-	ea.			0.0 /y	$	-	$	-	0%	$	-	$	-	$	-
Stainless Steel Stocking			$	72	kg			0.0 kg/y	$	-	$	-	0%	$	-	$	-	$	-
Stainless Steel Wool Mats			$	-	set			0.0 set(s)/y	$	-	$	-	0%	$	-	$	-	$	-
Stainless Steel Wool			$	-	set			0.0 set(s)/y	$	-	$	-	0%	$	-	$	-	$	-
Filter Consumables																			
Filter Cloths			$	152	/ t			0.0 set(s)/y	$	-	$	-	0%	$	-	$	-	$	-
Filter Plates	19 m x 1 m		$	6,000	/ t			0.0 set(s)/y	$	-	$	-	0%	$	-	$	-	$	-
Reagents - Thickening																			
Flocculant - Pre-Leach Thic	Superflow C-496		$	3,960	/ t			38.6 t/y	$	153,014	$	0.190	0%	$	-	$	153,014	$	0.190
Flocculant - Cyanide Thicke	Superflow C-496		$	3,960	/ t			38.6 t/y	$	153,014	$	0.190	0%	$	-	$	153,014	$	0.190
Fuel																			
Diesel		Mobile Equipment	$	858	/kL			273 kL/y	$	234,423	$	0.291	70%	$	164,096	$	70,327	$	0.087
Natural Gas (Utilities)		Utilities	$	0.15	/m3			0 m3/y	$	-	$	-	0%	$	-	$	-	$	-
Diesel		Smelting Furnace	$	858	/kL			9 kL/y	$	7,651.190	$	0.010	0%	$	-	$	7,651	$	0.010
Diesel		Carbon Regen.	$	858	/kL			179 kL/y	$	153,707	$	0.191	0%	$	-	$	153,707	$	0.191
Diesel		Elution	$	858	/kL			66 kL/y	$	56,523	$	0.070	0%	$	-	$	56,523	$	0.070
Reagents - Water																			
Antiscalant		Lime slaking	$	1,380	/ t	50.0 kg/week		2.60 t/y	$	3,588	$	0.004	0%	$	-	$	3,588	$	0.004
Antiscalant		Decant return water	$	2,600	/ t	0.0 kg/week		0.00 t/y	$	-	$	-	100%	$	-	$	-	$	-
Antiscalant		Elution and ILR	$	2,600	/ t	0.0 kg/week		0.00 t/y	$	-	$	-	0%	$	-	$	-	$	-
Antiscalant		Cooling Tower	$	2,600	/ t	0.0 kg/week		0.00 t/y	$	-	$	-	100%	$	-	$	-	$	-
Sulphamic Acid		Cleaning	$	765	/ t	50.0 kg/week		2.6 t/y	$	1,988	$	0.002	20%	$	398	$	1,591	$	0.002
Water Treatment and Supply																			
Water Supply Cost	Fixed Component		$	5,000	/year				$	5,000	$	0.006	100%	$	5,000	$	-	$	-
	Variable Component		$	2.000	kL			57,207 kL/y	$	114,413	$	0.142	15%	$	17,228	$	97,185	$	0.121
General																			
Mill Lubricants	Allowance		$	40,000	lot			1.0 lot/y	$	40,000	$	0.050	100%	$	40,000	$	-	$	-
General supplies	Allowance		$	10,000	lot			1.0 lot/y	$	10,000	$	0.012	100%	$	10,000	$	-	$	-
Operator Supplies	Allowance		$	100	pp/yr			68 people	$	6,800	$	0.008	100%	$	6,800	$	-	$	-
TOTAL									**$**	**6,730,133**	**$**	**8.360**	**8%**	**$**	**567,311**	**$**	**6,162,822**	**$**	**7.656**

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POWER CONSUMPTION COSTS

Power Supply **GRID**

Power Unit Cost **$ 0.180** US$/kWh

0

Area	Description	Installed Power kW	Peak Power Draw kW	Average Continuous Draw kW	Total Annual Power Consumption kWh/year	Total Annual Power Cost US$/year	Total Annual Power Cost US$/t ore	% Fixed %	Annual Fixed Cost US$/year	Annual Variable Cost US$/year	Annual Variable Cost US$/t ore
121	CRUSHING AND SCREENING	268	-	120	756,000	$ 136,080	$ 0.169	10%	$ 13,608	$ 122,472	$ 0.152
120	CRUSHING AND SCREENING SWITCHROOM L&SP, AIR-CON LO	182	-	39	245,700	$ 44,226	$ 0.055	10%	$ 4,423	$ 39,803	$ 0.049
132	GRINDING	5,184	-	3,507	27,102,096	$ 4,878,377	$ 6.060	0%	-$ 20,170	$ 4,898,547	$ 6.085
130	MILLING SWITCHROOM L&SP, AIR-CON LOADS	192	-	41	344,400	$ 61,992	$ 0.077	20%	$ 12,398	$ 49,594	$ 0.062
160	CIL AND TAILINGS	387		241	2,024,400	$ 364,392	$ 0.453	20%	$ 72,878	$ 291,514	$ 0.362
170	DESORPTION	130		50	420,000	$ 75,600	$ 0.094	20%	$ 15,120	$ 60,480	$ 0.075
180	REFINING/ GOLDROOM	199	-	81	680,400	$ 122,472	$ 0.152	20%	$ 24,494	$ 97,978	$ 0.122
180	CIL SWITCHROOM L&SP, AIR-CON LOADS	162	-	35	294,000	$ 52,920	$ 0.066	20%	$ 10,584	$ 42,336	$ 0.053
145	DETOX	207	-	121	1,016,400	$ 182,952	$ 0.227		$ -	$ 182,952	$ 0.227
142	THICKENING AND SCREENING	424	-	157	1,318,800	$ 237,384	$ 0.295		$ -	$ 237,384	$ 0.295
210	REAGENTS	171	-	47	394,800	$ 71,064	$ 0.088	100%	$ 71,064	$ -	$ -
232	PLANT WATER SYSTEMS	241	-	84	705,600	$ 127,008	$ 0.158	100%	$ 127,008	$ -	$ -
251	COMPRESSED AIR	754	-	260	2,184,000	$ 393,120	$ 0.488	100%	$ 393,120	$ -	$ -
100	MISCELLANEOUS FACILITIES AND BUILDINGS	278	-	99	831,600	$ 149,688	$ 0.186	100%	$ 149,688	$ -	$ -
	Contingency	-	-	-	-	$ -	$ -		$ -	$ -	$ -
	Sub Total Unit Rate	**8,779**	**-**	**4,882**	**38,318,196**	**$ 6,897,275**	**$ 8.568**	**13%**	**$ 874,216**	**$ 6,023,060**	**$ 7.482**
	Power Demand Cost					$ -	$ -		$ -	$ -	$ -
	Service Charge					$ -	$ -		$ -	$ -	$ -
	TOTAL					**$ 6,897,275**	**$ 8.568**	**13%**	**$ 874,216**	**$ 6,023,060**	**$ 7.482**

NOTES
1. Power taken from the detailed Equipment List (5032-LST-006-RevC)
2. Peak Power Draw = Installed Power x Load Factor (kW)
3. Average Continuous Power Draw = Peak Power Draw x %Utilisation (kW)
4. Total Annual Consumption = Average Continuous Power Draw x 350 x 24 (kWh), for Area 120, 121,132 = operating hours x Average Continuous power draw
5. Utilisation is calculated from the annual operating hours
6. Mill Motor Power Draw = Mill Pinion Power / Mill Power Factor (default 0.95)

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MAINTENANCE MATERIAL COSTS

Area	Capital Cost (Installed) US$	Maintenance factor %	Maintenance Cost US$/year	Maintenance Cost US$/t ore	% Fixed	Fixed Maintenance Cost US$/year	Variable Maintenance Cost US$/year	Variable Maintenance Cost US$/t ore
Plant Maintenance								
Crushing, Stockpile, Reclaim		2.9%	$ -	$ -	60%	$ -	$ -	$ -
Milling, Classification, Gravity		3.6%	$ -	$ -	70%	$ -	$ -	$ -
Flotation/CIL/Goldroom		2.3%	$ -	$ -	100%	$ -	$ -	$ -
Reagents		1.2%	$ -	$ -	100%	$ -	$ -	$ -
Services		0.0%	$ -	$ -	100%	$ -	$ -	$ -
Tailings		2.0%	$ -	$ -	80%	$ -	$ -	$ -
Infrastructure		1.0%	$ -	$ -	100%	$ -	$ -	$ -
Plant Sub Total	$ 12,700,000	3.0%	$ 381,000	$ 0.473	100%	$ 381,000	$ -	$ -
Mobile Equipment			$ 108,837	$ 0.135	100%	$ 108,837	$ -	$ -
Maintenance General								
Maintenance software (SAP etc)			$ 5,000	$ 0.006	100%	$ 5,000	$ -	$ -
Maintenance manuals			$ 5,000	$ 0.006	100%	$ 5,000	$ -	$ -
Maintenance training			$ 10,000	$ 0.012	100%	$ 10,000	$ -	$ -
TOTAL		**3.0%**	**$ 509,837**	**$ 0.633**		**$ 509,837**	**$ -**	**$ -**

La India Gold Project
Condor Gold PLC
Pre Feasibility Study
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Rev E

LIGHT VEHICLES, MOBILE EQUIPMENT, GENERATORS AND SMALL ENGINES

Equipment	Number of units	Treatment Plant	Admin	Make	Daily Operating hours	Annual Operating hours	Total Annual hours	Annual Diesel Consumption L/h	Annual Diesel Consumption L/y	Maintenance (A$ per annum) Tyres US$ per Unit	Drive Train US$ per Unit	Brakes US$ per Unit	2700 Oils/Lub US$ per Unit	2700 General US$ per Unit	General US$/h	Total Maintenance Cost US$ per Unit	Total Maintenance Cost US$/year	US$/year
Light Equipment																		
4WD Single Cab Ute	2	2	0	Toyota	3.0	1,095	2,190	6	13,140	$ 960	$ 1,200	$ 150	$ 200	$ 2,000		$ 4,510	$ 9,020	$ 9,020
4WD Maintenance Truck	1	1		Toyota	3.0	1,095	1,095	8	8,760	$ 960	$ 1,200	$ 150	$ 200	$ 2,000		$ 4,510	$ 4,510	$ 4,510
4WD Cargon Van	0		0		3.0	1,095	-	9	-	$ 1,200	$ 1,600	$ 200	$ 200	$ 2,000		$ 5,200	$ -	$ -
Personnel Carrier	0		0		8.0	2,920	-	10	-	$ 1,200	$ 1,600	$ 200	$ 200	$ 2,000		$ 5,200	$ -	$ -
Subtotal	**3**								**21,900**								**$ 13,530**	**$ 13,530**
Medium/Heavy Equipment																		
8t Twincab 4WD Hiab Truck	1			Isuzu FER500	2.0	730	730	12	8,760	$ 1,600	$ 2,000	$ 240	$ 200	$ 2,500		$ 6,540	$ 6,540	$ 6,540
Warehouse Delivery Truck w/Boom	1																	$ -
5t Tip truck				Isuzu FVZ1400	3.0	1,095	-	12	-	$ 1,600	$ 2,000	$ 240	$ 200	$ 2,500		$ 6,540	$ -	$ -
Service/Lube Truck				Isuzu FVZ1400	4.0	1,460	-	12	-	$ 1,600	$ 2,000	$ 240	$ 200	$ 2,500		$ 6,540	$ -	$ -
Fuel Truck				AC	4.0	1,460	-	12	-	$ 1,600	$ 2,000	$ 240	$ 200	$ 2,500		$ 6,540	$ -	$ -
All Terrain Forklift - Propane	1			Bobcat 753	3.0	1,095	1,095	6	6,570	$ 800	$ 1,200	$ 150	$ 200	$ 1,500		$ 3,850	$ 3,850	$ 3,850
Warehouse Forklift - Propane	1			Bobcat 753	4.3	1,570	1,570	6	9,417	$ 800	$ 1,200	$ 150	$ 200	$ 1,500		$ 3,850	$ 3,850	$ 3,850
Bobcat	1			Bobcat 753	5.0	1,825	1,825	6	10,950	$ 800	$ 1,200	$ 150	$ 200	$ 1,500		$ 3,850	$ 3,850	$ 3,850
Integrated Tool Carrier	0			Cat IT28G	6.0	2,190	-	12	-						$ 11	$ 24,090	$ -	$ -
Telescopic Handler CAT TH 62	1			Cat TH62	3.6	1,314	1,314	6	7,884						$ 8	$ 10,512	$ 10,512	$ 10,512
Mac 14 14t Franna Crane	0				2.0	730	-	10	-						$ 10	$ 7,300	$ -	$ -
50 t All terrain Crane	1				2.0	730	730	10	7,300						$ 10	$ 7,300	$ 7,300	$ 7,300
150 t Crawler Crane	0				0.5	183	-	12	-						$ 10	$ 1,825	$ -	$ -
Backhoe/FEL	1			Cat 446B	3.6	1,314	1,314	10	13,140						$ 10	$ 13,140	$ 13,140	$ 13,140
Loader (ROM) Reclaim	1			950	3.3	1,166	1,166	18	20,979						$ 30	$ 34,965	$ 34,965	$ 34,965
18 t Grader				Cat 14H	5.0	1,825	-	20	-						$ 16	$ 28,288	$ -	$ -
Subtotal	**9**								**85,000**								**$ 84,007**	**$ 84,007**
Equipment																		
Emergency Generator (2,000 kVA)	1				0.6	219	219	500	109,500				$ 500	$ 3,000		$ 3,500	$ 3,500	$ 3,500
Stand-by Generator (800 kVA)	1				0.4	131	131	200	26,280				$ 500	$ 2,000		$ 2,500	$ 2,500	$ 2,500
Portable Pumps Generator (200 kVA)	1				1.2	438	438	50	21,900				$ 500	$ 1,000		$ 1,500	$ 1,500	$ 1,500
Generator (5 kVA)	1				2.2	800	800	2	1,600				$ 500	$ 500		$ 1,000	$ 1,000	$ 1,000
Portable Compressor	1				2.2	800	800	4	3,200				$ 500	$ 500		$ 1,000	$ 1,000	$ 1,000
Diesel Welder	2			Lincoln	1.8	640	1,280	2	2,560				$ 100	$ 500		$ 600	$ 1,200	$ 1,200
Fusion Butt Welder Damos 90/315	1			Damoss 90/315	1.8	640	640	2	1,280				$ 100	$ 500		$ 600	$ 600	$ 600
Subtotal	**8**								**166,320**								**$ 11,300**	**$ 11,300**
TOTAL	**20**								**273,220**								**$ 108,837**	**$ 108,837**

Mobile Equipment Cost Summary		US$/year	US$/t ore
Fuel	273,220 L/y	$ 234,423	$ 0.291
Maintenance and Repairs		$ 108,837	$ 0.135
Total Mobile Equipment Cost		$ 343,260	$ 0.426

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NOTES
1. Maintenance cost for mobile equipment in US$ per unit.
4. ROM loader annual operating hours equal to crusher operating hours per year

La India Gold Project
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Rev E

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LABORATORY

Assay Costs	Internal	External	Source / Comment
Solids Preparation	$ -		
Solids Moisture	$ -		
Solids Sizing	$ -	$ 95	
Solids Fire Assay		$ 25	
Solids ICP			
Solution Assay	$ -	$ 12	
Carbon Assay		$ 20	
Bullion		$ 100	
Concentrate TML	$ -		
Environmental (WAD CN, As)		$ 70	
Water Quality (potable)		$ 180	
Sample Pick Up/Courier		$ 1	

Number of shifts per day 2

			0					
Assay Requirement	**Shiftly**	**Daily**	**Weekly**	**Monthly**	**Assays per year**	**Int or Ext**	**Cost/sample US$**	**TOTAL US$/year**
Solids								
Mill Feed		1			365	External	$ 25.00	$ 9,125
Leach Feed	1				730	External	$ 25.00	$ 18,250
Leach Tanks			6	6	384	External	$ 25.00	$ 9,600
Leach Tails	1		1		782	External	$ 25.00	$ 19,550
Tails bottle roll		1	1		417	External	$ 25.00	$ 10,425
Float Feed					-	External	$ 25.00	$ -
Rougher Concentrate					-	External	$ 25.00	$ -
Scavenger Concentrate					-	External	$ 25.00	$ -
Scavenger Tail					-	External	$ 25.00	$ -
Final Concentrate					-	External	$ 25.00	$ -
Final Tails					-	External	$ 25.00	$ -
Metallurgical Testing				50	600	External	$ 25.00	$ 15,000
Solutions (AAS)								
Leach Feed	1				730	Internal	$ -	$ -
Leach Tanks			7	7	448	Internal	$ -	$ -
Leach Tail	1				730	Internal	$ -	$ -
Pregnant Eluate			7		364	Internal	$ -	$ -
Barren Eluate			7		364	Internal	$ -	$ -
ICR Pregnant Eluate		1			365	Internal	$ -	$ -
ICR Barren Eluate		1			365	Internal	$ -	$ -
Thickener Overflow					-	Internal	$ -	$ -
Process Water Pond					-	Internal	$ -	$ -
Tails bottle roll		1	1		417	Internal	$ -	$ -
Metallurgical Testing				50	600	Internal	$ -	$ -
Carbon								
Loaded		2			730	External	$ 20.00	$ 14,600
Barren		2			730	External	$ 20.00	$ 14,600
Regen		2			730	External	$ 20.00	$ 14,600
CIL Tanks			12	12	768	External	$ 20.00	$ 15,360
Bullion								
Bars			5		260	External	$ 100.00	$ 26,000
Concentrate								
TML	1				730	Internal	$ -	$ -
Shipment Assay				4	48	External	$ -	$ -
Miscellaneous								
Mill Feed Moisture	1			10	850	Internal	$ -	$ -
Mill Feed Sizing	1			10	850	Internal	$ -	$ -
Leach Feed Sizing	1			10	850	Internal	$ -	$ -
Environmental Samples			2	10	224	External	$ 70.00	$ 15,680
Water Quality Sample			2	2	128	External	$ 180.00	$ 23,040
Subtotal					**14,559**			**$ 205,830**
Sample Pick Up/Courier					6,896	External	$ 1.00	$ 6,896
								$ 10,000
Contingency for duplicates, checks, etc				15%				$ 33,409
TOTAL								**$ 256,135**

NOTE:
1. Grade Control Costs excluded

APPENDIX 8

ELECTRICAL LOAD LIST

CONDOR GOLD PLC

LA INDIA PROJECT
ELECTRICAL LOAD LIST

5032-LST-006

August 2014

Prepared by:

Lycopodium

REV NO.	DATE	DESCRIPTION OF REVISION	BY	DESIGN APPROVED	PROJECT APPROVED	CLIENT APPROVED
C	01/08/14	ISSUED FOR STUDY – MILL CONSUMED POWER UPDATED	AC		DM	
B	25/07/14	ISSUED FOR STUDY				
A	2/07/14	ISSUED FOR REVIEW	ES			

Lycopodium Minerals Canada Ltd. 5060 Spectrum Way, Mississauga, ON Canada L4W 5N5

CONDOR - LA INDIA GOLD
ELECTRICAL LOAD LIST
5032-LST-006

ELEC. REV	SWBD/ MCC No	EQUIPMENT NUMBER	DUTY	STDBY	EQUIPMENT NAME	EQUIP. TYPE	FIXED/ VARIABLE	START METHOD	MOTOR / LOAD SPECIFICATION				INSTALLED LOAD			DEMAND (PEAK) LOAD				AVERAGE (RUNNING) LOAD				
									NAMEPLATE (kW)	VOLTAGE (V)	EFFICIENCY	PF	kW	kVAR	kVA	LOAD FACTOR	kW	kVAR	kVA	UTILIZATION FACTOR	LOAD FACTOR	kW	kVAR	kVA
PLANT TOTAL									**8,356**			**0.94**	**8,779**	**3,067**	**9,300**		**6,571**	**2,087**	**6,894**			**4,882**	**1,347**	**5,065**
PLANT SWITCHBOARD LOADS 21-SB-001																								
4.16KV SUPPLY LOADS																								
A	21-VS-001	20-ML-001	1	0	SAG MILL	ML	Variable	VSD	4,000	4,160	0.93	1.00	4,292	431	4,313	0.90	3,876	389	3,895	0.913	0.80	3,135	315	3,150
					SUBTOTAL - 4.16KV SUPPLY LOADS				**4,000**			**1.00**	**4,292**	**431**	**4,313**		**3,876**	**389**	**3,895**			**3,135**	**315**	**3,150**
460V SUPPLY LOADS																								
AREA 120 FEED PREPARATION																								
AREA 120 -CRUSHING																								
A	120-MC-001	121-FE-01	1	0	PRIMARY APRON FEEDER	FE	Variable	VSD	15.22	460	0.90	0.994	16.9	1.9	17.0	0.75	12.7	1.4	12.7	0.750	0.75	9.5	1.0	9.6
A	120-MC-001	121-RB-001	1	0	ROCK BREAKER	RB	Fixed	DOL	65.00	460	0.94	0.830	68.9	46.3	83.0	0.75	51.6	34.7	62.2	0.100	0.75	5.2	3.5	6.2
A	210-MC-001	121-CN-01	1	0	CRUSHER SERVICE HOIST	CN	-	FDR	4.00	460	1.00	0.800	4.0	3.0	5.0	0.75	3.0	2.3	3.8	0.500	0.75	1.5	1.1	1.9
A	120-MC-001	121-CR-01	1	0	PRIMARY JAW CRUSHER	CR	Fixed	DOL	112.00	460	0.95	0.910	117.5	53.5	129.1	0.75	88.1	40.2	96.9	0.750	0.75	66.1	30.1	72.6
A	120-MC-001	121-HX-01	1	0	PRIMARY JAW CRUSHER HYDRAULIC OIL HEATER	HX	Fixed	DOL	1.50	460	0.86	0.740	1.7	1.6	2.4	0.75	1.3	1.2	1.8	0.650	0.75	0.8	0.8	1.1
A	120-MC-001	121-PP-01	1	0	PRIMARY JAW CRUSHER HYDRAULIC OIL PUMP	PP	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	1.9	1.4	2.3	0.750	0.75	1.4	1.0	1.8
A	120-MC-001	121-PP-02	1	0	PRIMARY JAW CRUSHER LUBE OIL PUMP	PP	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	1.9	1.4	2.3	0.750	0.75	1.4	1.0	1.8
A	120-MC-001	121-CV-01	1	0	PRIMARY JAW CRUSHER DISCHARGE CONVEYOR	CV	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.750	0.75	6.7	4.9	8.3
A	120-MC-001	121-MA-01	1	0	PRIMARY JAW CRUSHER DISCHARGE CONVEYOR TRAMP MAGNET	MA	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.750	0.75	6.7	4.9	8.3
A	120-MC-001	121-WE-01	1	0	PRIMARY JAW CRUSHER DISCHARGE CONVEYOR WEIGHTOMETER	WE	Fixed	DOL	0.01	460	1.00	0.800	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.750	0.75	0.0	0.0	0.0
A	120-MC-001	121-DC-01	1	0	PRIMARY CRUSHER DISCHARGE CONVEYOR DUST COLLECTOR & FAN	DC	Fixed	DOL	22.00	460	0.94	0.790	23.4	18.1	29.6	0.75	17.5	13.6	22.2	0.750	0.75	13.2	10.2	16.6
A	120-MC-001	121-FE-02	1	0	SURGE BIN APRON FEEDER	FE	Variable	VSD	11.22	460	0.90	0.995	12.5	1.3	12.6	0.75	9.4	0.9	9.4	0.750	0.75	7.0	0.7	7.1
A	120-MC-001	121-CV-02	1	0	STOCKPILE FEED CONVEYOR	CV	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.750	0.75	6.7	4.9	8.3
					SUBTOTAL - AREA 120 -CRUSHING				**268**			**0.88**	**274**	**147**	**311**		**205**	**110**	**233**			**120**	**59**	**133**
AREA 120 CRUSHING SWITCHROOM L&SP, AIR-CON LOADS																								
A	120-MC-001	120-AC-001	1	0	SWITCHROOM AIR CONDITIONERS 1	ELEC	-	FDR	25	460	1.00	0.800	25.0	18.8	31.3	0.75	18.8	14.1	23.4	0.500	0.75	9.4	7.0	11.7
A	120-MC-001	120-AC-002	0	1	SWITCHROOM AIR CONDITIONERS 2	ELEC	-	FDR	25	460	1.00	0.800	25.0	18.8	31.3	0.75	0.0	0.0	0.0	0.500	0.00	0.0	0.0	0.0
A	120-MC-001	120-DB-001	1	0	LIGHTING AND SMALL POWER	ELEC	-	FDR	30	460	1.00	0.800	30.0	22.5	37.5	1.00	30.0	22.5	37.5	0.500	0.80	12.0	9.0	15.0
A	120-MC-001	120-DB-002	1	0	LIGHTING AND SMALL POWER	ELEC	-	FDR	30	460	1.00	0.800	30.0	22.5	37.5	1.00	30.0	22.5	37.5	0.500	0.80	12.0	9.0	15.0
A	120-MC-001	120-WO-001	1	0	WELDING OUTLETS	ELEC	-	FDR	36	460	1.00	0.800	36.2	27.2	45.3	0.75	27.2	20.4	33.9	0.100	0.75	2.7	2.0	3.4
A	120-MC-001	120-WO-002	1	0	WELDING OUTLETS	ELEC	-	FDR	36	460	1.00	0.800	36.2	27.2	45.3	0.75	27.2	20.4	33.9	0.100	0.75	2.7	2.0	3.4
					SUBTOTAL - AREA 120 CRUSHING SWITCHROOM L&SP, AIR-CON LOADS				**182**			**0.80**	**182**	**137**	**228**		**133**	**100**	**166**			**39**	**29**	**49**
					TOTAL AREA 120 FEED PREPARATION				**451**			**0.85**	**468**	**292**	**552**		**347**	**216**	**409**			**165**	**93**	**190**
AREA 130 - MILLING																								
AREA 130-RECLAIM & GRINDING																								
A	130-MC-001	132-CV-01	1	0	SAG MILL FEED CONVEYOR	CV	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.913	0.75	8.2	5.9	10.1
A	130-MC-001	132-WE-02	1	0	SAG MILL FEED CONVEYOR WEIGHTOMETER	WE	Fixed	DOL	0.01	460	1.00	0.800	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.913	0.75	0.0	0.0	0.0

CONDOR - LA INDIA GOLD
ELECTRICAL LOAD LIST
5032-LST-006

ELEC. REV	SWBD/ MCC No	EQUIPMENT NUMBER	DUTY	STDBY	EQUIPMENT NAME	EQUIP. TYPE	FIXED/ VARIABLE	START METHOD	MOTOR / LOAD SPECIFICATION				INSTALLED LOAD			DEMAND (PEAK) LOAD				AVERAGE (RUNNING) LOAD				
									NAMEPLATE (kW)	VOLTAGE (V)	EFFICIENCY	PF	kW	kVAR	kVA	LOAD FACTOR	kW	kVAR	kVA	UTILIZATION FACTOR	LOAD FACTOR	kW	kVAR	kVA
A	130-MC-001	132-ZM-04	1	0	SAG MILL LINER HANDLER HYDRAULIC POWER PACK	ZM	-	FDR	30	460	1.00	0.800	30.0	22.5	37.5	0.75	22.5	16.9	28.1	0.913	0.75	20.5	15.4	25.7
A	130-MC-001	132-ZM-06	1	0	SAG MILL JACKING SYSTEM HYDRAULIC POWER PACK	ZM	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	1.9	1.4	2.3	0.913	0.75	1.7	1.3	2.1
A	130-MC-001	132-ZM-07	1	0	SAG MILL MOTOR BEARING LUBRICATION SYSTEM	ZM	-	FDR	19.00	460	1.00	0.800	19.0	14.3	23.8	0.75	14.3	10.7	17.8	0.913	0.75	13.0	9.8	16.3
A	130-MC-001	132-ZM-08	1	0	SAG MILL TRUNNION BEARING LUBRICATION SYSTEM	ZM	-	FDR	45.00	460	1.00	0.800	45.0	33.8	56.3	0.75	33.8	25.3	42.2	0.913	0.75	30.8	23.1	38.5
A	130-MC-001	132-ZM-09	1	0	SAG MILL MOTORS HEATING/ COOLING ANCILLIARIES	ZM	-	FDR	85.00	460	1.00	0.800	85.0	63.8	106.3	0.75	63.8	47.8	79.7	0.913	0.75	58.2	43.7	72.8
A	130-MC-001	132-ZM-10	1	0	SAG MILL REDUCER/ PINION BEARING LUBRICATION SYSTEM	ZM	-	FDR	45.00	460	1.00	0.800	45.0	33.8	56.3	0.75	33.8	25.3	42.2	0.913	0.75	30.8	23.1	38.5
A	130-MC-001	132-ZM-11	1	0	SAG MILL INCHING DRIVE HYDRAULIC POWER PACK	ZM	-	FDR	205.50	460	1.00	0.800	205.5	154.1	256.9	0.75	154.1	115.6	192.7	0.100	0.75	15.4	11.6	19.3
A	130-MC-001	132-PP-03	1	0	CYCLONE FEED PUMP 1	PP	Variable	VSD	132.00	460	0.93	0.999	141.6	6.3	141.8	0.75	106.2	4.8	106.3	0.913	0.75	97.0	4.3	97.1
A	130-MC-001	132-PP-04	0	1	CYCLONE FEED PUMP 2	PP	Variable	VSD	132.00	460	0.93	0.999	141.6	6.3	141.8	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	130-MC-001	132-CN-04	1	0	CYCLONE AREA PORTAL CRANE	CN	-	FDR	3.70	460	1.00	0.800	3.7	2.8	4.6	0.75	2.8	2.1	3.5	0.100	0.75	0.3	0.2	0.3
A	130-MC-001	132-PP-05	1	0	SAG MILL FEED END SUMP PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
A	130-MC-002	132-CV-02	1	0	PEBBLE TRANSFER CONVEYOR	CV	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.80	5.0	3.3	6.0	0.913	0.80	4.5	3.0	5.4
A	130-MC-002	132-MA-02	1	0	PEBBLE TRANSFER CONVEYOR TRAMP MAGNET	MA	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.80	9.5	6.9	11.8	0.913	0.80	8.7	6.3	10.7
A	130-MC-002	132-WE-03	1	0	PEBBLE TRANSFER CONVEYOR WEIGHTOMETER	WE	Fixed	DOL	0.01	460	1.00	0.800	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.913	0.80	0.0	0.0	0.0
A	130-MC-002	132-MD-02	1	0	PEBBLE TRANSFER CONVEYOR METAL DETECTOR	MD	Fixed	DOL	0.01	460	1.00	0.800	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.913	0.80	0.0	0.0	0.0
A	130-MC-002	132-FE-01	1	0	PEBBLE CRUSHER FEEDER	FE	Variable	VSD	3.00	460	0.84	0.997	3.6	0.3	3.6	0.80	2.9	0.2	2.9	0.750	0.80	2.1	0.2	2.1
A	130-MC-002	132-CR-01	1	0	PEBBLE CRUSHER	CR	Fixed	DOL	93.00	460	0.96	0.870	97.3	55.1	111.8	0.80	77.8	44.1	89.5	0.750	0.80	58.4	33.1	67.1
A	130-MC-002	132-ZM-15	1	0	PEBBLE CRUSHER HYDRAULIC POWER PACK	ZM	-	FDR	11.00	460	1.00	0.800	11.0	8.3	13.8	0.80	8.8	6.6	11.0	0.913	0.80	8.0	6.0	10.0
A	130-MC-002	132-ZM-16	1	0	PEBBLE CRUSHER LUBRICATION PACKAGE	ZM	-	FDR	11.00	460	1.00	0.800	11.0	8.3	13.8	0.80	8.8	6.6	11.0	0.913	0.80	8.0	6.0	10.0
A	130-MC-002	132-CV-03	1	0	PEBBLE CRUSHER DISCHARGE CONVEYOR	CV	Fixed	DOL	7.50	460	0.91	0.780	8.2	6.6	10.6	0.80	6.6	5.3	8.4	0.750	0.80	4.9	4.0	6.3
					SUBTOTAL - AREA 130-RECLAIM & GRINDING				**864**			**0.89**	**892**	**448**	**998**		**570**	**86**	**577**			**372**	**198**	**421**
AREA 130 - MILLING SWITCHROOM L&SP, AIR-CON LOADS																								
A	130-MC-001	130-AC-001	1	0	SWITCHROOM AIR CONDITIONERS 1	ELEC	-	FDR	30	460	1.00	0.800	30.0	22.5	37.5	0.75	22.5	16.9	28.1	0.500	0.75	11.3	8.4	14.1
A	130-MC-001	130-AC-002	0	1	SWITCHROOM AIR CONDITIONERS 2	ELEC	-	FDR	30	460	1.00	0.800	30.0	22.5	37.5	0.75	0.0	0.0	0.0	0.500	0.00	0.0	0.0	0.0
A	130-MC-001	130-DB-001	1	0	LIGHTING AND SMALL POWER	ELEC	-	FDR	30	460	1.00	0.800	30.0	22.5	37.5	1.00	30.0	22.5	37.5	0.500	0.80	12.0	9.0	15.0
A	130-MC-001	130-DB-002	1	0	LIGHTING AND SMALL POWER	ELEC	-	FDR	30	460	1.00	0.800	30.0	22.5	37.5	1.00	30.0	22.5	37.5	0.500	0.80	12.0	9.0	15.0
A	130-MC-001	130-WO-001	1	0	WELDING OUTLETS	ELEC	-	FDR	36	460	1.00	0.800	36.2	27.2	45.3	0.75	27.2	20.4	33.9	0.100	0.75	2.7	2.0	3.4
A	130-MC-001	130-WO-002	1	0	WELDING OUTLETS	ELEC	-	FDR	36	460	1.00	0.800	36.2	27.2	45.3	0.75	27.2	20.4	33.9	0.100	0.75	2.7	2.0	3.4
					SUBTOTAL - AREA 130 - MILLING SWITCHROOM L&SP, AIR-CON LOADS				**192**			**0.80**	**192**	**144**	**241**		**137**	**103**	**171**			**41**	**31**	**51**
					TOTAL AREA 130 - MILLING				**1,056**			**0.88**	**1,084**	**592**	**1,236**		**707**	**438**	**832**			**412**	**228**	**471**
AREA 140 - SCREENING/TAILING/DESORPTION																								
SUB AREA 142 - TRASH SCREEN/TAILINGS																								
A	140-MC-001	141-SC-01	1	0	TRASH SCREEN	SC	Fixed	DOL	6.00	460	0.91	0.830	6.6	4.5	8.0	0.75	5.0	3.3	6.0	0.913	0.75	4.5	3.1	5.5
A	140-MC-001	142-ZM-02	1	0	PRE-LEACH THICKENER HYDRAULIC POWER PACK	ZM	Fixed	DOL	15.00	460	0.93	0.810	16.2	11.7	20.0	0.75	12.2	8.8	15.0	0.913	0.75	11.1	8.0	13.7
A	140-MC-001	142-PP-06	1	0	PRE-LEACH THICKENER U/F PUMP No.1	PP	Variable	VSD	18.50	460	0.91	0.997	20.3	1.6	20.4	0.75	15.2	1.2	15.3	0.913	0.75	13.9	1.1	13.9
A	140-MC-001	142-PP-07	0	1	PRE-LEACH THICKENER U/F PUMP No.2	PP	Variable	VSD	18.50	460	0.91	0.997	20.3	1.6	20.4	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0

CONDOR - LA INDIA GOLD
ELECTRICAL LOAD LIST
5032-LST-006

ELEC. REV	SWBD/ MCC No	EQUIPMENT NUMBER	DUTY	STDBY	EQUIPMENT NAME	EQUIP. TYPE	FIXED/ VARIABLE	START METHOD	MOTOR / LOAD SPECIFICATION				INSTALLED LOAD			DEMAND (PEAK) LOAD				AVERAGE (RUNNING) LOAD				
									NAMEPLATE (kW)	VOLTAGE (V)	EFFICIENCY	PF	kW	kVAR	kVA	LOAD FACTOR	kW	kVAR	kVA	UTILIZATION FACTOR	LOAD FACTOR	kW	kVAR	kVA
A	140-MC-001	142-SA-01	1	0	CIL FEED PRIMARY SAMPLER	AG	Fixed	DOL	0.75	460	0.82	0.730	0.9	0.9	1.2	0.75	0.7	0.6	0.9	0.913	0.75	0.6	0.6	0.9
A	140-MC-001	142-SA-02	1	0	CIL FEED SECONDARY SAMPLER	AG	Fixed	DOL	0.37	460	0.76	0.650	0.5	0.6	0.8	0.75	0.4	0.4	0.6	0.913	0.75	0.3	0.4	0.5
A	140-MC-001	142-PP-08	1	0	PRE-LEACH THICKENER O/F WATER PUMP No.1	PP	Fixed	DOL	22.00	460	0.94	0.790	23.4	18.1	29.6	0.75	17.5	13.6	22.2	0.913	0.75	16.0	12.4	20.3
A	140-MC-001	142-PP-09	0	1	PRE-LEACH THICKENER O/F WATER PUMP No.2	PP	Fixed	DOL	22.00	460	0.94	0.790	23.4	18.1	29.6	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	140-MC-001	146-SA-01	1	0	TAILINGS PRIMARY SAMPLER	SA	Fixed	DOL	0.75	460	0.82	0.730	0.9	0.9	1.2	0.75	0.7	0.6	0.9	0.913	0.75	0.6	0.6	0.9
A	140-MC-001	146-SA-02	1	0	TAILINGS SECONDARY SAMPLER	SA	Fixed	DOL	0.37	460	0.76	0.650	0.5	0.6	0.8	0.75	0.4	0.4	0.6	0.913	0.75	0.3	0.4	0.5
A	140-MC-001	146-ZM-02	1	0	TAILINGS THICKENER HYDRAULIC POWER PACK	ZM	-	FDR	15.00	460	1.00	0.800	15.0	11.3	18.8	0.75	11.3	8.4	14.1	0.913	0.75	10.3	7.7	12.8
A	140-MC-001	146-PP-20	1	0	TAILINGS THICKENER OVERFLOW PUMP 1	PP	Fixed	DOL	22.00	460	0.94	0.790	23.4	18.1	29.6	0.75	17.5	13.6	22.2	0.913	0.75	16.0	12.4	20.3
A	140-MC-001	146-PP-21	0	1	TAILINGS THICKENER OVERFLOW PUMP 2	PP	Fixed	DOL	22.00	460	0.94	0.790	23.4	18.1	29.6	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	140-MC-001	146-PP-22	1	0	TAILINGS PUMP 1	PP	Variable	VSD	112.00	460	0.93	0.999	120.4	5.4	120.5	0.75	90.3	4.0	90.4	0.913	0.75	82.5	3.7	82.5
A	140-MC-001	146-PP-23	0	1	TAILINGS PUMP 2	PP	Variable	VSD	112.00	460	0.93	0.999	120.4	5.4	120.5	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	140-MC-001	146-PP-24	1	0	TAILINGS AREA SUMP PUMP	PP	Fixed	DOL	7.50	460	0.91	0.780	8.2	6.6	10.6	0.75	6.2	5.0	7.9	0.100	0.75	0.6	0.5	0.8
					SUBTOTAL - SUB AREA 142 - TRASH SCREEN/TAILINGS				**395**			**0.96**	**424**	**123**	**441**		**177**	**60**	**187**			**157**	**51**	**165**
SUB AREA 145 - DETOXIFICATION																								
A	140-MC-001	145-AG-07	1	0	DETOX AGITATOR 1	AG	Fixed	DOL	55.00	460	0.94	0.830	58.3	39.2	70.2	0.75	43.7	29.4	52.6	0.913	0.75	39.9	26.8	48.1
A	140-MC-001	145-AG-08	1	0	DETOX AGITATOR 2	AG	Fixed	DOL	55.00	460	0.94	0.830	58.3	39.2	70.2	0.75	43.7	29.4	52.6	0.913	0.75	39.9	26.8	48.1
A	140-MC-001	145-ZM-02	1	0	CYANIDE RECOVERY THICKENER HYDRAULIC POWER PACK	ZM	-	FDR	15.00	460	1.00	0.800	15.0	11.3	18.8	0.75	11.3	8.4	14.1	0.913	0.75	10.3	7.7	12.8
A	140-MC-001	145-PP-01	1	0	CYANIDE RECOVERY THICKENER U/F PUMP 1	PP	Variable	VSD	18.50	460	0.91	0.997	20.3	1.6	20.4	0.75	15.2	1.2	15.3	0.913	0.75	13.9	1.1	13.9
A	140-MC-001	145-PP-00	0	1	CYANIDE RECOVERY THICKENER U/F PUMP 2	PP	Variable	VSD	18.50	460	0.91	0.997	20.3	1.6	20.4	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	140-MC-001	145-PP-08	1	0	CYANIDE RECOVERY THICKENER O/F PUMP 1	PP	Fixed	DOL	22.00	460	0.94	0.790	23.4	18.1	29.6	0.75	17.5	13.6	22.2	0.913	0.75	16.0	12.4	20.3
A	140-MC-001	145-PP-17	1	0	DETOX AREA SUMP PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
					SUBTOTAL - SUB AREA 145 - DETOXIFICATION				**195**			**0.87**	**207**	**119**	**239**		**140**	**88**	**166**			**121**	**75**	**142**
AREA 160 - CIL/TAILING																								
A	160-MC-001	161-CN-01	1	0	CIL AREA CRANE	CN	Fixed	DOL	15.00	460	0.93	0.810	16.2	11.7	20.0	0.75	12.2	8.8	15.0	0.100	0.75	1.2	0.9	1.5
A	160-MC-001	161-SC-01	1	0	INTERTANK SCREEN 1	SC	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.913	0.75	4.2	2.8	5.1
A	160-MC-001	161-SC-02	1	0	INTERTANK SCREEN 2	SC	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.913	0.75	4.2	2.8	5.1
A	160-MC-001	161-SC-03	1	0	INTERTANK SCREEN 3	SC	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.913	0.75	4.2	2.8	5.1
A	160-MC-001	161-SC-04	1	0	INTERTANK SCREEN 4	SC	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.913	0.75	4.2	2.8	5.1
A	160-MC-001	161-SC-05	1	0	INTERTANK SCREEN 5	SC	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.913	0.75	4.2	2.8	5.1
A	160-MC-001	161-SC-06	1	0	INTERTANK SCREEN 6	SC	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.913	0.75	4.2	2.8	5.1
A	160-MC-001	161-PP-16	1	0	LOADED CARBON RECOVERY PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.913	0.75	8.2	5.9	10.1
A	160-MC-001	161-SC-07	1	0	CARBON RECOVERY SCREEN	SC	Fixed	DOL	3.20	460	0.87	0.810	3.7	2.7	4.5	0.75	2.8	2.0	3.4	0.913	0.75	2.5	1.8	3.1
A	160-MC-001	161-AG-01	1	0	CIL TANK 1 AGITATOR	AG	Fixed	DOL	45.00	460	0.95	0.820	47.3	33.0	57.7	0.75	35.5	24.8	43.3	0.913	0.75	32.4	22.6	39.5
A	160-MC-001	161-AG-02	1	0	CIL TANK 2 AGITATOR	AG	Fixed	DOL	45.00	460	0.95	0.820	47.3	33.0	57.7	0.75	35.5	24.8	43.3	0.913	0.75	32.4	22.6	39.5
A	160-MC-001	161-AG-03	1	0	CIL TANK 3 AGITATOR	AG	Fixed	DOL	45.00	460	0.95	0.820	47.3	33.0	57.7	0.75	35.5	24.8	43.3	0.913	0.75	32.4	22.6	39.5
A	160-MC-001	161-AG-04	1	0	CIL TANK 4 AGITATOR	AG	Fixed	DOL	45.00	460	0.95	0.820	47.3	33.0	57.7	0.75	35.5	24.8	43.3	0.913	0.75	32.4	22.6	39.5
A	160-MC-001	161-AG-05	1	0	CIL TANK 5 AGITATOR	AG	Fixed	DOL	45.00	460	0.95	0.820	47.3	33.0	57.7	0.75	35.5	24.8	43.3	0.913	0.75	32.4	22.6	39.5
A	160-MC-001	161-AG-06	1	0	CIL TANK 6 AGITATOR	AG	Fixed	DOL	45.00	460	0.95	0.820	47.3	33.0	57.7	0.75	35.5	24.8	43.3	0.913	0.75	32.4	22.6	39.5

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ELEC. REV	SWBD/ MCC No	EQUIPMENT NUMBER	DUTY	STDBY	EQUIPMENT NAME	EQUIP. TYPE	FIXED/ VARIABLE	START METHOD	MOTOR / LOAD SPECIFICATION				INSTALLED LOAD			DEMAND (PEAK) LOAD				AVERAGE (RUNNING) LOAD				
									NAMEPLATE (kW)	VOLTAGE (V)	EFFICIENCY	PF	kW	kVAR	kVA	LOAD FACTOR	kW	kVAR	kVA	UTILIZATION FACTOR	LOAD FACTOR	kW	kVAR	kVA
A	160-MC-001	161-SC-08	1	0	CARBON SIZING SCREEN	SC	Fixed	DOL	3.20	460	0.87	0.810	3.7	2.7	4.5	0.75	2.8	2.0	3.4	0.913	0.75	2.5	1.8	3.1
A	160-MC-001	161-PP-17	1	0	CIL AREA SUMP PUMP 1	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
A	160-MC-001	161-PP-18	1	0	CIL AREA SUMP PUMP 2	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
A	160-MC-001	161-SC-09	1	0	CARBON SAFETY SCREEN	SC	Fixed	DOL	6.00	460	0.91	0.830	6.6	4.5	8.0	0.75	5.0	3.3	6.0	0.913	0.75	4.5	3.1	5.5
					SUBTOTAL - AREA 160 - CIL/TAILING				**364**			**0.82**	**387**	**271**	**472**		**290**	**203**	**354**			**241**	**168**	**293**
AREA 170 - DESORPTION																								
A	170-MC-001	171-ZM-01	1	0	REGEN KILN SCRUBER	ZM	-	FDR	2.20	460	1.00	0.800	2.2	1.7	2.8	0.75	1.7	1.2	2.1	0.830	0.75	1.4	1.0	1.7
A	170-MC-001	171-PP-02	1	0	REGEN KILN SCRUBER PUMP	PP	Fixed	DOL	5.50	460	0.91	0.830	6.1	4.1	7.3	0.75	4.6	3.1	5.5	0.830	0.75	3.8	2.5	4.6
A	170-MC-001	171-RO-01	1	0	CARBON REGENERATION KILN	RO	Variable	VSD	5.60	460	0.88	0.998	6.4	0.4	6.4	0.75	4.8	0.3	4.8	0.830	0.75	4.0	0.3	4.0
A	170-MC-001	171-PP-17	1	0	CARBON REGEN AREA SUMP PUMP	PP	Fixed	DOL	7.50	460	0.91	0.780	8.2	6.6	10.6	0.75	6.2	5.0	7.9	0.100	0.75	0.6	0.5	0.8
A	170-MC-001	171-PP-20	1	0	CARBON TRANSFER PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.830	0.75	7.4	5.4	9.2
A	170-MC-001	171-CN-01	1	0	CARBON LOADING HOIST	CN	Fixed	DOL	3.70	460	0.87	0.810	4.2	3.1	5.2	0.75	3.2	2.3	3.9	0.100	0.75	0.3	0.2	0.4
A	170-MC-001	171-PP-25	1	0	TRANSFER WATER PUMP	PP	Fixed	DOL	3.00	460	0.87	0.810	3.4	2.5	4.2	0.75	2.6	1.9	3.2	0.913	0.75	2.4	1.7	2.9
A	170-MC-001	171-HX-01	1	0	STRIP SOLUTION HEATER	HX	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.670	0.75	3.1	2.1	3.7
A	170-MC-001	171-PP-27	1	0	HEATER OIL RECIRCULATION PUMP	PP	Fixed	DOL	22.00	460	0.94	0.790	23.4	18.1	29.6	0.75	17.5	13.6	22.2	0.670	0.75	11.7	9.1	14.9
A	170-MC-001	171-PP-28	1	0	STRIP SOLUTION PUMP 1	PP	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.670	0.75	3.1	2.1	3.7
A	170-MC-001	171-PP-30	1	0	PREGNANT SOLUTION PUMP 1	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.913	0.75	8.2	5.9	10.1
A	170-MC-001	171-PP-35	0	1	PREGNANT SOLUTION PUMP 2	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	170-MC-001	171-PP-31	1	0	STRIPPING WATER/ TREATED WATER TANK ANTI-SCALANT PUMP	PP	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	1.9	1.4	2.3	0.913	0.75	1.7	1.3	2.1
A	170-MC-001	171-PP-32	1	0	SULPHAMIC ACID PUMP	PP	Fixed	DOL	1.50	460	0.86	0.740	1.7	1.6	2.4	0.75	1.3	1.2	1.8	0.100	0.75	0.1	0.1	0.2
A	170-MC-001	171-PP-33	1	0	ACID WASH COLUMN AREA SUMP PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
A	170-MC-001	171-PP-34	1	0	PREGNANT SOLUTION AREA SUMP PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
					SUBTOTAL - AREA 170 - DESORPTION				**119**			**0.82**	**130**	**91**	**159**		**89**	**62**	**108**			**50**	**33**	**60**
					TOTAL AREA 140 - SCREENING/TAILING/DESORPTION				**1,073**			**0.88**	**1,148**	**605**	**1,298**		**697**	**413**	**810**			**568**	**327**	**655**
AREA 180-210 - REFINING & REAGENT																								
AREA 180 - REFINING																								
A	180-MC-001	181-RC-01	1	0	ELECTROWINNING CELL 1 RECTIFIER	RC	-	FDR	45.00	460	1.00	0.800	45.0	33.8	56.3	0.75	33.8	25.3	42.2	0.913	0.75	30.8	23.1	38.5
A	180-MC-001	181-RC-02	1	0	ELECTROWINNING CELL 2 RECTIFIER	RC	-	FDR	45.00	460	1.00	0.800	45.0	33.8	56.3	0.75	33.8	25.3	42.2	0.913	0.75	30.8	23.1	38.5
A	180-MC-001	181-RC-03		1	ELECTROWINNING CELL 3 RECTIFIER	RC	-	FDR	45.00	460	1.00	0.800	45.0	33.8	56.3	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	180-MC-001	181-ZM-01	1	0	ELECTROWINNING SCRUBBER	ZM	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	1.9	1.4	2.3	0.100	0.75	0.2	0.1	0.2
A	180-MC-001	181-PP-01	1	0	ELECTROWINNING SCRUBBER PUMP	PP	Fixed	DOL	5.50	460	0.91	0.830	6.1	4.1	7.3	0.75	4.6	3.1	5.5	0.913	0.75	4.2	2.8	5.0
A	180-MC-001	181-CN-01	1	0	GOLD ROOM CRANE	VL	Fixed	DOL	3.70	460	0.87	0.810	4.2	3.1	5.2	0.75	3.2	2.3	3.9	0.100	0.75	0.3	0.2	0.4
A	180-MC-001	181-ZM-02	1	0	CATHODE WASH HP SPRAY MACHINE	ZM	Fixed	DOL	3.70	460	0.87	0.810	4.2	3.1	5.2	0.75	3.2	2.3	3.9	0.100	0.75	0.3	0.2	0.4
A	180-MC-001	181-DR-01	1	0	DRYING OVEN	AG	Fixed	DOL	19.00	460	0.94	0.800	20.3	15.2	25.4	0.75	15.2	11.4	19.0	0.500	0.75	7.6	5.7	9.5
A	180-MC-001	181-FC-01	1	0	BARRING FURNACE	PP	Fixed	DOL	0.56	460	0.81	0.720	0.7	0.7	1.0	0.75	0.5	0.5	0.7	0.100	0.75	0.1	0.1	0.1
A	180-MC-001	181-FA-05	1	0	SMELTING FURNACE EXTRACTION FAN	FA	-	FDR	5.50	460	1.00	0.800	5.5	4.1	6.9	0.75	4.1	3.1	5.2	0.100	0.75	0.4	0.3	0.5
A	180-MC-001	181-PP-02	1	0	GOLDROOM AREA SUMP PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
A	180-MC-001	181-FA-02	1	0	GOLDROOM VENTILATION FAN No 1	FA	Fixed	DOL	3.70	460	0.87	0.810	4.2	3.1	5.2	0.75	3.2	2.3	3.9	0.913	0.75	2.9	2.1	3.6

CONDOR - LA INDIA GOLD
ELECTRICAL LOAD LIST
5032-LST-006

ELEC. REV	SWBD/ MCC No	EQUIPMENT NUMBER	DUTY	STDBY	EQUIPMENT NAME	EQUIP. TYPE	FIXED/ VARIABLE	START METHOD	MOTOR / LOAD SPECIFICATION				INSTALLED LOAD			DEMAND (PEAK) LOAD				AVERAGE (RUNNING) LOAD				
									NAMEPLATE (kW)	VOLTAGE (V)	EFFICIENCY	PF	kW	kVAR	kVA	LOAD FACTOR	kW	kVAR	kVA	UTILIZATION FACTOR	LOAD FACTOR	kW	kVAR	kVA
A	180-MC-001	181-FA-03	1	0	GOLDROOM VENTILATION FAN No2	PP	Fixed	DOL	3.70	460	0.87	0.810	4.2	3.1	5.2	0.75	3.2	2.3	3.9	0.913	0.75	2.9	2.1	3.6
					SUBTOTAL - AREA 180 - REFINING				**194**			**0.80**	**199**	**148**	**248**		**115**	**86**	**144**			**81**	**61**	**101**
AREA 210 -REAGENT																								
A	210-MC-001	216-PP-67	1	0	HCL ACID DRUM PUMP	PP	Fixed	DOL	0.75	460	0.82	0.730	0.9	0.9	1.2	0.75	0.7	0.6	0.9	0.100	0.75	0.1	0.1	0.1
A	210-MC-001	216-PP-68	1	0	HCL ACID WASH PUMP	PP	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	1.9	1.4	2.3	0.100	0.75	0.2	0.1	0.2
A	210-MC-001	211-CN-01	1	0	CAUSTIC BAG LIFTING HOIST	CN	Fixed	DOL	3.70	460	0.87	0.810	4.2	3.1	5.2	0.75	3.2	2.3	3.9	0.100	0.75	0.3	0.2	0.4
A	210-MC-001	214-AG-01	1	0	CAUSTIC MIXING TANK AGITATOR	AG	Fixed	DOL	1.50	460	0.86	0.740	1.7	1.6	2.4	0.75	1.3	1.2	1.8	0.913	0.75	1.2	1.1	1.6
A	210-MC-001	214-PP-70	1	0	CAUSTIC DOSING PUMP	PP	Variable	VSD	1.10	460	0.80	0.996	1.4	0.1	1.4	0.75	1.0	0.1	1.0	0.913	0.75	0.9	0.1	0.9
A	210-MC-001	211-CN-02	1	0	CYANIDE BAG LIFTING HOIST	CN	Fixed	DOL	3.70	460	0.87	0.810	4.2	3.1	5.2	0.75	3.2	2.3	3.9	0.100	0.75	0.3	0.2	0.4
A	210-MC-001	211-AG-01	1	0	CYANIDE MIXING TANK AGITATOR	AG	Variable	VSD	2.20	460	0.84	0.995	2.6	0.3	2.6	0.75	2.0	0.2	2.0	0.913	0.75	1.8	0.2	1.8
A	210-MC-001	211-PP-71	1	0	CYANIDE TRANSFER PUMP	PP	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.100	0.75	0.5	0.3	0.6
A	210-MC-001	211-PP-72	1	0	CYANIDE DOSING PUMP	PP	Variable	VSD	0.37	460	0.71	0.996	0.5	0.0	0.5	0.75	0.4	0.0	0.4	0.913	0.75	0.4	0.0	0.4
A	210-MC-001	211-PP-73	1	0	CYANIDE RECIRCULATION PUMP 1	PP	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	1.9	1.4	2.3	0.913	0.75	1.7	1.3	2.1
A	210-MC-001	211-PP-74	0	1	CYANIDE RECIRCULATION PUMP 2	PP	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	210-MC-001	211-PP-75	1	0	CYANIDE AREA SUMP PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
A	210-MC-001	212-AG-01	1	0	LIME MIXING & STORAGE TANK AGITATOR	AG	Fixed	DOL	5.50	460	0.91	0.830	6.1	4.1	7.3	0.75	4.6	3.1	5.5	0.913	0.75	4.2	2.8	5.0
A	210-MC-001	212-PP-01	1	0	LIME TRANSFER PUMP	PP	Fixed	DOL	7.50	460	0.91	0.780	8.2	6.6	10.6	0.75	6.2	5.0	7.9	0.913	0.75	5.6	4.5	7.2
A	210-MC-001	212-PP-02	1	0	LIME DOSING PUMP	PP	Fixed	DOL	15.00	460	0.93	0.810	16.2	11.7	20.0	0.75	12.2	8.8	15.0	0.913	0.75	11.1	8.0	13.7
A	210-MC-001	212-PP-03	1	0	LIME AREA SUMP PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
A	210-MC-001	450-PP-01	1	0	TRUCK WASH SUMP PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
A	210-MC-001	213-CN-01	1	0	FLOCCULANT AREA HOIST	CN	Fixed	DOL	3.70	460	0.87	0.810	4.2	3.1	5.2	0.75	3.2	2.3	3.9	0.100	0.75	0.3	0.2	0.4
A	210-MC-001	213-FE-01	1	0	FLOCCULANT SCREW FEEDER	FE	Fixed	DOL	1.10	460	0.85	0.770	1.3	1.1	1.7	0.75	1.0	0.8	1.3	0.400	0.75	0.4	0.3	0.5
A	210-MC-001	213-BL-01	1	0	FLOCCULANT BLOWER	BL	Fixed	DOL	7.50	460	0.91	0.780	8.2	6.6	10.6	0.75	6.2	5.0	7.9	0.400	0.75	2.5	2.0	3.2
A	210-MC-001	213-AG-01	1	0	FLOCCULANT MIXING TANK AGITATOR	AG	Fixed	DOL	1.50	460	0.86	0.740	1.7	1.6	2.4	0.75	1.3	1.2	1.8	0.913	0.75	1.2	1.1	1.6
A	210-MC-001	213-PP-76	1	0	FLOCCULANT TRANSFER PUMP	PP	Fixed	DOL	18.50	460	0.94	0.800	19.8	14.8	24.7	0.75	14.8	11.1	18.5	0.100	0.75	1.5	1.1	1.9
A	210-MC-001	213-PP-77	1	0	PRE-LEACH THICKENER FLOCCULANT DOSING PUMP	PP	Variable	VSD	1.50	460	0.83	0.995	1.8	0.2	1.8	0.75	1.4	0.1	1.4	0.913	0.75	1.2	0.1	1.2
A	210-MC-001	213-PP-78	1	0	TAILINGS THICKENER FLOCCULANT DOSING PUMP	PP	Variable	VSD	1.50	460	0.83	0.995	1.8	0.2	1.8	0.75	1.4	0.1	1.4	0.100	0.75	0.1	0.0	0.1
0.1	210-MC-001	215-CN-02	1	0	SMBS BAG LIFTING HOIST	CN	-	FDR	3.70	460	1.00	0.800	3.7	2.8	4.6	0.75	2.8	2.1	3.5	0.100	0.75	0.3	0.2	0.3
A	210-MC-001	215-AG-01	1	0	SMBS MIXING TANK AGITATOR	AG	~~Fixed~~	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	1.9	1.4	2.3	0.913	0.75	1.7	1.3	2.1
A	210-MC-001	215-PP-71	1	0	SMBS TRANSFER PUMP	PP	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.100	0.75	0.5	0.3	0.6
A	210-MC-001	215-PP-72	1	0	SMBS DOSING PUMP 1	PP	Variable	VSD	0.37	460	0.71	0.996	0.5	0.0	0.5	0.75	0.4	0.0	0.4	0.913	0.75	0.4	0.0	0.4
A	210-MC-001	215-PP-73	0	1	SMBS DOSING PUMP 2	PP	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	210-MC-001	215-PP-75	1	0	SMBS AREA SUMP PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
A	210-MC-001	215-FA-XX	1	0	SMBS EXTRACTION FAN	FA	Fixed	DOL	3.00	460	0.87	0.810	3.4	2.5	4.2	0.75	2.6	1.9	3.2	0.913	0.75	2.4	1.7	2.9
B	210-MC-001	217-AG-02	1	0	COPPER SULPHATE AGITATOR	AG	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	1.9	1.4	2.3	0.913	0.75	1.7	1.3	2.1
B	210-MC-001	217-PP-71	1	0	COPPER SULPHATE TRANSFER PUMP	FA	Fixed	DOL	2.20	460	0.87	0.810	2.5	1.8	3.1	0.75	1.9	1.4	2.3	0.100	0.75	0.2	0.1	0.2
B	210-MC-001	217-PP-72	1	0	COPPER SULPHATE DOSING PUMP	FA	Variable	VSD	0.37	460	0.71	0.996	0.5	0.0	0.5	0.75	0.4	0.0	0.4	0.913	0.75	0.4	0.0	0.4
					SUBTOTAL - AREA 210 -REAGENT				**155**			**0.82**	**171**	**120**	**209**		**124**	**87**	**152**			**47**	**31**	**56**

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ELEC. REV	SWBD/ MCC No	EQUIPMENT NUMBER	DUTY	STDBY	EQUIPMENT NAME	EQUIP. TYPE	FIXED/ VARIABLE	START METHOD	MOTOR / LOAD SPECIFICATION				INSTALLED LOAD			DEMAND (PEAK) LOAD				AVERAGE (RUNNING) LOAD				
									NAMEPLATE (kW)	VOLTAGE (V)	EFFICIENCY	PF	kW	kVAR	kVA	LOAD FACTOR	kW	kVAR	kVA	UTILIZATION FACTOR	LOAD FACTOR	kW	kVAR	kVA
AREA 180-210-230 SWITCHROOM L&SP, AIR-CON LOADS																								
A	210-MC-001	210-AC-001	1	0	SWITCHROOM AIR CONDITIONERS 1	ELEC	-	FDR	15	460	1.00	0.800	15.0	11.3	18.8	0.75	11.3	8.4	14.1	0.500	0.75	5.6	4.2	7.0
A	210-MC-001	210-AC-002	0	1	SWITCHROOM AIR CONDITIONERS 2	ELEC	-	FDR	15	460	1.00	0.800	15.0	11.3	18.8	0.75	0.0	0.0	0.0	0.500	0.00	0.0	0.0	0.0
A	210-MC-001	210-DB-001	1	0	LIGHTING AND SMALL POWER	ELEC	-	FDR	30	460	1.00	0.800	30.0	22.5	37.5	0.75	22.5	16.9	28.1	0.500	0.80	12.0	9.0	15.0
A	210-MC-001	210-DB-002	1	0	LIGHTING AND SMALL POWER	ELEC	-	FDR	30	460	1.00	0.800	30.0	22.5	37.5	0.75	22.5	16.9	28.1	0.500	0.80	12.0	9.0	15.0
A	210-MC-001	210-WO-001	1	0	WELDING OUTLETS	ELEC	-	FDR	36	460	1.00	0.800	36.2	27.2	45.3	0.75	27.2	20.4	33.9	0.100	0.75	2.7	2.0	3.4
A	210-MC-001	210-WO-002	1	0	WELDING OUTLETS	ELEC	-	FDR	36	460	1.00	0.800	36.2	27.2	45.3	0.75	27.2	20.4	33.9	0.100	0.75	2.7	2.0	3.4
					SUBTOTAL - AREA 180-210-230 SWITCHROOM L&SP, AIR-CON LOADS				**162**			**0.80**	**162**	**122**	**203**		**111**	**83**	**138**			**35**	**26**	**44**
					TOTAL AREA 180-210 - REFINING & REAGENT				**511**			**0.81**	**532**	**390**	**660**		**350**	**256**	**434**			**163**	**118**	**201**
AREA 230 - WATER & AIR SERVICES																								
SUB AREA230 - PLANT WATER SYSTEM																								
A	230-MC-001	232-PP-41	1	0	RAW WATER PUMP 1	PP	Fixed	DOL	30.00	460	0.94	0.850	31.9	19.8	37.5	0.75	23.9	14.8	28.1	0.913	0.75	21.8	13.5	25.7
A	230-MC-001	232-PP-42	0	1	RAW WATER PUMP 2	PP	Fixed	DOL	30.00	460	0.94	0.850	31.9	19.8	37.5	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	230-MC-001	232-ZM-01	1	0	MILL WATER CHILLER SYSTEM	ZM	-	FDR	24.50	460	1.00	0.800	24.5	18.4	30.6	0.75	18.4	13.8	23.0	0.913	0.75	16.8	12.6	21.0
A	230-MC-001	235-PP-48	1	0	GLAND WATER PUMP 1	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.913	0.75	8.2	5.9	10.1
A	230-MC-001	235-PP-49	0	1	GLAND WATER PUMP 2	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	230-MC-001	238-PP-51	1	0	FIREWATER PUMP - JOCKEY	PP	Fixed	DOL	1.10	460	0.85	0.770	1.3	1.1	1.7	0.75	1.0	0.8	1.3	0.100	0.75	0.1	0.1	0.1
A	230-MC-001	238-PP-52	1	0	FIREWATER PUMP - ELECTRICAL	PP	Fixed	DOL	37.00	460	0.95	0.800	39.1	29.3	48.9	0.75	29.3	22.0	36.7	0.100	0.75	2.9	2.2	3.7
A	230-MC-001	238-PP-53	1	0	PROCESS WATER PUMP 1	PP	Fixed	DOL	30.00	460	0.94	0.850	31.9	19.8	37.5	0.75	23.9	14.8	28.1	0.913	0.75	21.8	13.5	25.7
A	230-MC-001	238-PP-54	0	1	PROCESS WATER PUMP 2	PP	Fixed	DOL	30.00	460	0.94	0.850	31.9	19.8	37.5	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	230-MC-001	233-PP-57	0		EVENT POND SUBMERSIBLE PUMP	PP	Fixed	DOL	30.00	460	0.94	0.850	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	230-MC-001	234-TE-01	1	0	PROCESS PLANT POTABLE WATER TREATMENT PLANT (PWTP) - FUTURE	TE	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.913	0.75	8.2	5.9	10.1
A	230-MC-001	234-PP-58	1	0	PLANT POTABLE WATER DISTRIBUTION PUMP 1	PP	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.913	0.75	4.2	2.8	5.1
A	230-MC-001	234-PP-59	0	1	PLANT POTABLE WATER DISTRIBUTION PUMP 2	PP	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
					SUBTOTAL - SUB AREA230 - PLANT WATER SYSTEM				**257**			**0.83**	**241**	**162**	**290**		**119**	**82**	**145**			**84**	**57**	**101**
SUB AREA 250 - COMPRESSED AIR																								
A	230-MC-001	251-CO-01	1	0	PLANT AIR COMPRESSOR NO 1	CO	Fixed	DOL	56	460	0.94	0.830	59.3	39.9	71.5	0.75	44.5	29.9	53.6	0.913	0.75	40.6	27.3	48.9
A	230-MC-001	251-CO-02	0	1	PLANT AIR COMPRESSOR NO 2	CO	Fixed	DOL	56	460	0.94	0.830	59.3	39.9	71.5	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	230-MC-001	251-DR-01	1	0	AIR DRYER	AD	Fixed	DOL	6.1	460	0.91	0.830	6.7	4.5	8.1	0.75	5.1	3.4	6.1	0.913	0.75	4.6	3.1	5.6
A	230-MC-001	252-BL-01	1	0	CIL BLOWER 1	BL	Fixed	DOL	150	460	0.96	0.890	157.1	80.5	176.5	0.75	117.8	60.4	132.4	0.913	0.75	107.6	55.1	120.8
A	230-MC-001	252-BL-02	0	1	CIL BLOWER 2	BL	Fixed	DOL	150	460	0.96	0.890	157.1	80.5	176.5	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	230-MC-001	252-BL-03	1	0	DETOX BLOWER 1	BL	Fixed	DOL	150	460	0.96	0.890	157.1	80.5	176.5	0.75	117.8	60.4	132.4	0.913	0.75	107.6	55.1	120.8
A	230-MC-001	252-BL-04	0	1	DETOX BLOWER 2	BL	Fixed	DOL	150	460	0.96	0.890	157.1	80.5	176.5	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
					SUBTOTAL - SUB AREA 250 - COMPRESSED AIR				**718**			**0.88**	**754**	**406**	**856**		**285**	**154**	**324**			**260**	**141**	**296**
SUB AREA 260 - PLANT FUEL DISTRIBUTION																								
A	230-MC-001	261-PP-80	1	0	PLANT DIESEL FUEL DISTRIBUTION PUMP 1	PP	Fixed	DOL	1.1	460	0.85	0.770	1.3	1.1	1.7	0.75	1.0	0.8	1.3	0.913	0.75	0.9	0.7	1.2

CONDOR - LA INDIA GOLD
ELECTRICAL LOAD LIST
5032-LST-006

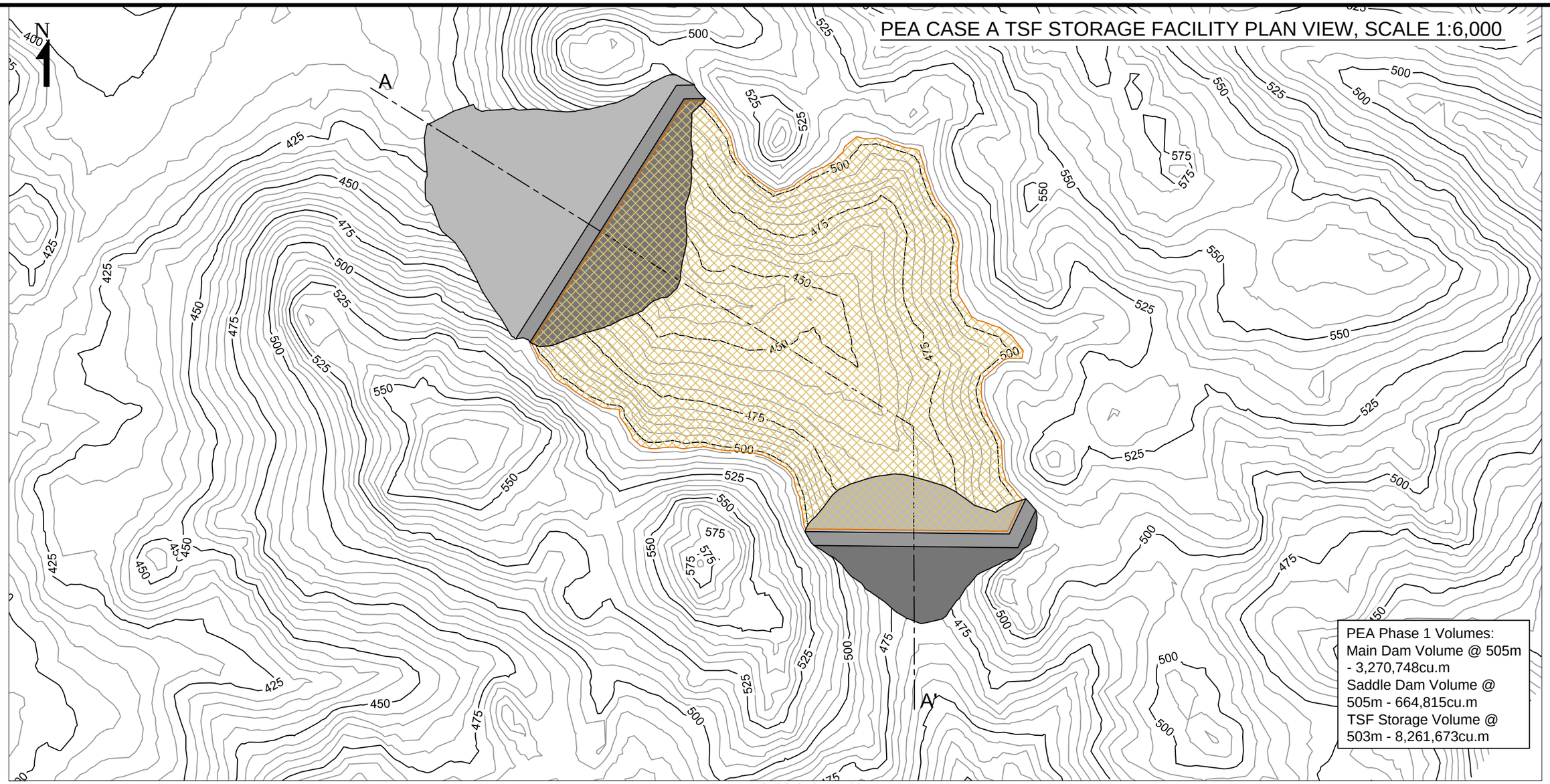
ELEC. REV	SWBD/ MCC No	EQUIPMENT NUMBER	DUTY	STDBY	EQUIPMENT NAME	EQUIP. TYPE	FIXED/ VARIABLE	START METHOD	MOTOR / LOAD SPECIFICATION				INSTALLED LOAD			DEMAND (PEAK) LOAD				AVERAGE (RUNNING) LOAD				
									NAMEPLATE (kW)	VOLTAGE (V)	EFFICIENCY	PF	kW	kVAR	kVA	LOAD FACTOR	kW	kVAR	kVA	UTILIZATION FACTOR	LOAD FACTOR	kW	kVAR	kVA
A	230-MC-001	261-PP-81	0	1	PLANT DIESEL FUEL DISTRIBUTION PUMP 2	PP	Fixed	DOL	1.1	460	0.85	0.770	1.3	1.1	1.7	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
					SUBTOTAL - SUB AREA 260 - PLANT FUEL DISTRIBUTION				**2**			**0.77**	**3**	**2**	**3**		**1**	**1**	**1**			**1**	**1**	**1**
					TOTAL AREA 230 - WATER & AIR SERVICES				**977**			**0.87**	**997**	**570**	**1,148**		**405**	**237**	**469**			**345**	**198**	**398**
AREA 300 - INFRASTRUCTURE																								
AREA 340 - TAILING DAM & MICELLANEOUS FACILITIES																								
B	340-MC-001	344-PP-37	1	0	DECANT RETURN PUMP	PP	Fixed	DOL	30.00	460	0.94	0.850	31.9	19.8	37.5	0.75	23.9	14.8	28.1	0.913	0.75	21.8	13.5	25.7
B	340-MC-001	344-PP-38	1	0	UNDERDRAINAGE PUMP	PP	Fixed	DOL	11.00	460	0.92	0.810	11.9	8.6	14.7	0.75	8.9	6.5	11.0	0.100	0.75	0.9	0.6	1.1
B	340-MC-001	344-PP-39	1	0	SEEPAGE PUMP	PP	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	4.6	3.1	5.6	0.100	0.75	0.5	0.3	0.6
AREA 320 - UTILITIES & SERVICES																								
A	340-MC-001	324-PP-82	0	1	MSA SEWAGE FORWARDING PUMPS	PP	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	230-MC-001	324-PP-83	1	0	LABORATORY ACID WASTE PUMP	PP	Fixed	DOL	3.70	460	0.87	0.810	4.2	3.1	5.2	0.75	3.2	2.3	3.9	0.100	0.75	0.3	0.2	0.4
A	230-MC-001	324-PP-84	1	0	LABORATORY GENERAL WASTE PUMP	PP	Fixed	DOL	3.70	460	0.87	0.810	4.2	3.1	5.2	0.75	3.2	2.3	3.9	0.100	0.75	0.3	0.2	0.4
A	230-MC-001	324-PP-85	0	1	PLANT ADMIN OFFICE AREA SEWAGE FORWARDING PUMPS	PP	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	230-MC-001	324-PP-86	0	1	PROCESS PLANT SEWAGE FORWARDING PUMPS	PP	Fixed	DOL	5.60	460	0.91	0.830	6.2	4.2	7.5	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
A	230-MC-001	324-TE-02		0	PROCESS PLANT SEWAGE TREATMENT PLANT (STP)	TE	-	FDR	37.00	460	1.00	0.800	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.913	0.00	0.0	0.0	0.0
					SUBTOTAL - AREA 320 - UTILITIES & SERVICES				**61**			**0.830**	**27**	**19**	**33**		**6**	**5**	**8**			**1**	**0**	**1**
SUB AREA 360 - PLANT BUILDINGS																								
A	350-MC-001	360-CN-01	1	0	WAREHOUSE/ WORKSHOP CRANE	CN	-	FDR	5.60	460	1.00	0.800	5.6	4.2	7.0	0.75	4.2	3.2	5.3	0.100	0.75	0.4	0.3	0.5
					SUBTOTAL - SUB AREA 360 - PLANT BUILDINGS				**6**			**0.830**	**6**	**4**	**7**		**4**	**3**	**5**			**0**	**0**	**1**
MISCELLANEOUS FACILITIES AND BUILDINGS																								
A	110-SB-001	ZM	1	0	WORKSHOP/WAREHOUSE 25kW	ZM	-	FDR	50	460	1.00	0.800	50.0	37.5	62.5	0.80	40.0	30.0	50.0	0.500	0.80	20.0	15.0	25.0
A	111-SB-001	ZM	1	0	LABORATORY 25KW	ZM	-	FDR	25	460	1.00	0.800	25.0	18.8	31.3	0.80	20.0	15.0	25.0	0.500	0.80	10.0	7.5	12.5
A	112-SB-001	ZM	1	0	ADMIN OFFICES / GATEHOUSE	ZM	-	FDR	50	460	1.00	0.800	50.0	37.5	62.5	0.80	40.0	30.0	50.0	0.500	0.80	20.0	15.0	25.0
A	115-SB-002	ZM	1	0	DRY/WET MESS	ZM	-	FDR	50	460	1.00	0.800	50.0	37.5	62.5	0.80	40.0	30.0	50.0	0.500	0.80	20.0	15.0	25.0
					SUBTOTAL MISCELLANEOUS FACILITIES AND BUILDINGS				**175**			**0.80**	**175**	**131**	**219**		**140**	**105**	**175**			**70**	**53**	**88**
					TOTAL AREA 300 - INFRASTRUCTURE				**288**			**0.81**	**258**	**187**	**318**		**188**	**137**	**233**			**94**	**68**	**116**

NOTES: Per Mechanical Equipment List 5032-LST-001 Rev C

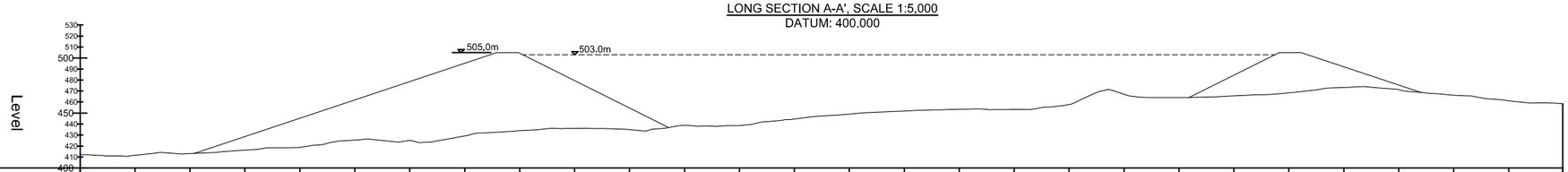
APPENDIX

C PROCESSING WASTE - SCENARIO A AND B TAILINGS STORAGE FACILITY LAYOUT

PEA CASE A TSF STORAGE FACILITY PLAN VIEW, SCALE 1:6,000



LONG SECTION A-A', SCALE 1:5,000
DATUM: 400.000



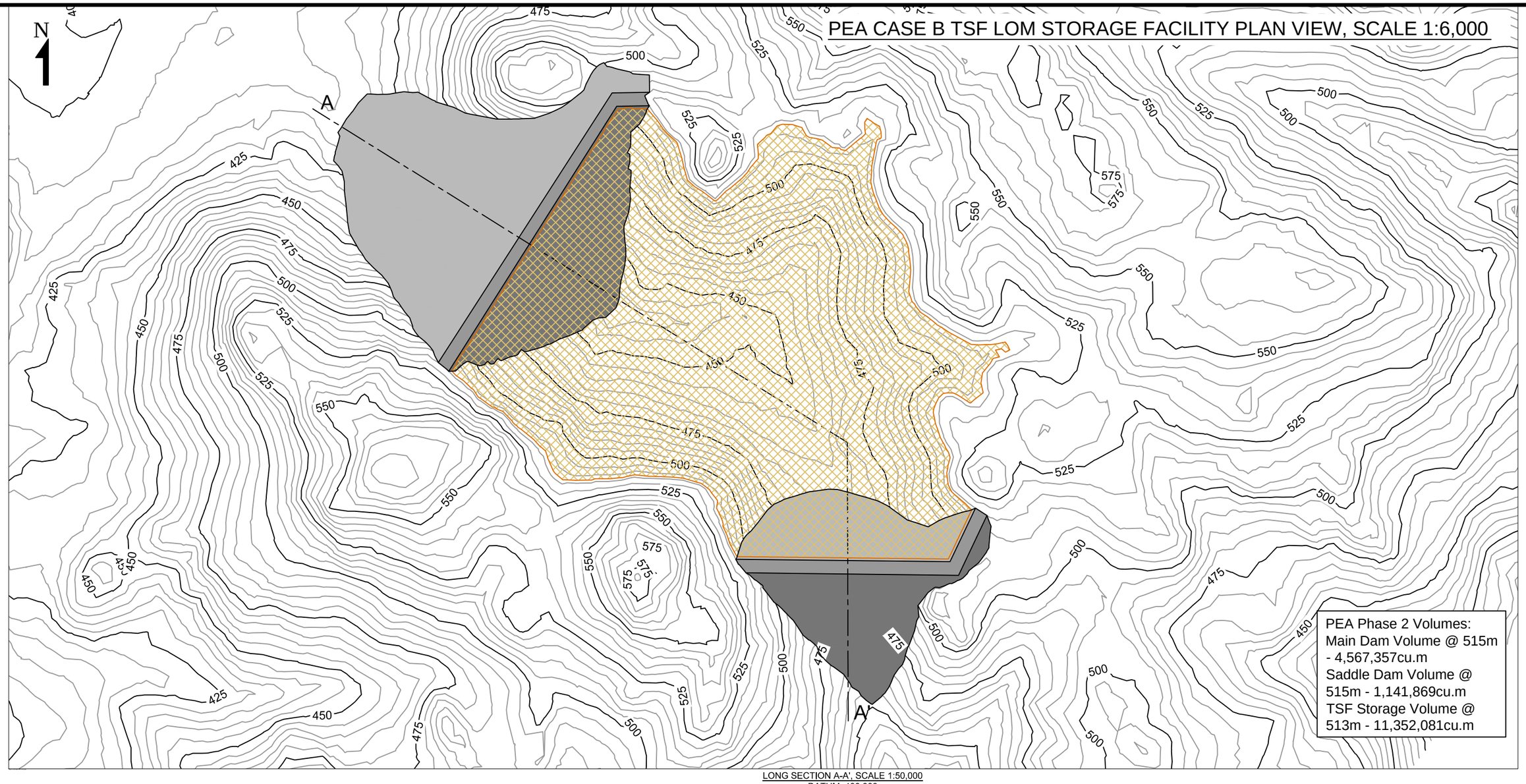
Chainage	00.000	50.000	100.000	150.000	200.000	250.000	300.000	350.000	400.000	450.000	500.000	550.000	600.000	650.000	700.000	750.000	800.000	850.000	900.000	950.000	1000.000	1050.000	1100.000	1150.000	1200.000	1250.000	1300.000	1349.251
Existing Levels	412.108	411.563	413.139	416.321	418.908	425.408	425.261	429.258	433.958	436.073	434.901	438.773	438.507	444.412	449.023	451.817	453.524	453.259	457.787	467.106	464.158	465.646	468.320	473.280	471.295	466.203	461.202	458.454

August 2014	U5693	La India PEA	As Shown @ A3
srk consulting		PEA Case A TSF Layout	Drawing 1

P:\U5693 LA INDIA PFS\PROJECT\CAD\CAD\DRAWING 1 - PEA CASE A TSF LAYOUT - 240914.DWG

N

PEA CASE B TSF LOM STORAGE FACILITY PLAN VIEW, SCALE 1:6,000



LONG SECTION A-A', SCALE 1:50,000
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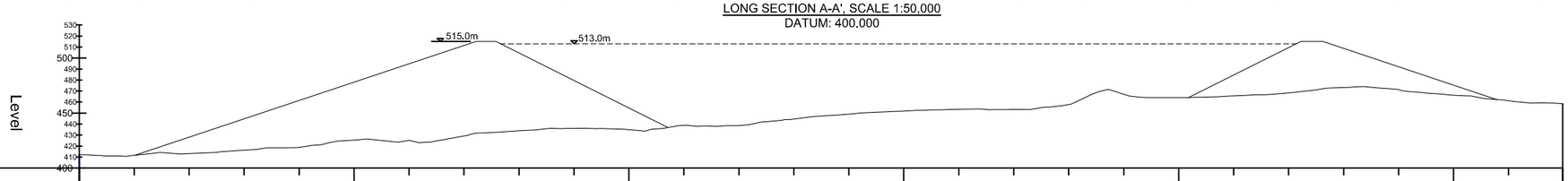

Chainage	00.000	50.000	100.000	150.000	200.000	250.000	300.000	350.000	400.000	450.000	500.000	550.000	600.000	650.000	700.000	750.000	800.000	850.000	900.000	950.000	1000.000	1050.000	1100.000	1150.000	1200.000	1250.000	1300.000	1349.251
Existing Levels	412.108	411.563	413.139	416.321	418.908	425.408	425.261	429.258	433.958	436.073	434.901	438.773	438.507	444.412	449.023	451.817	453.524	453.259	457.787	467.106	464.158	465.646	468.320	473.280	471.295	466.203	461.202	458.454

August 2014	U5693	La India PEA	As Shown @ A3
srk consulting		PEA Case B TSF Layout	Drawing 2

P:\U5693 LA INDIA PFS\PROJECT\CAD\CAD\DRAWING 2 - PEA CASE B TSF LAYOUT - 240914.DWG

APPENDIX

D ECONOMIC ANALYSIS - PFS BASE CASE, SCENARIO A AND SCENARIO B YEAR BY YEAR SUMMARIES

Base Case Annual Results

Year		Units	Totals	-2	-1	1	2	3	4	5	6	7	8	9	10
Production															
Mining															
Open Pit															
Waste Expit		(kt)	94,529	1,500	5,692	7,982	11,489	15,879	16,210	15,767	12,914	6,309	786	-	-
Stripping Ratio		(t:t)	13.62	-	148.33	9.40	10.39	14.16	20.06	15.09	11.37	9.23	5.06	-	-
Ore Expit		(kt)	6,942	-	38	849	1,106	1,121	808	1,045	1,136	683	156	-	-
	Gold	(g/t Au)	3.02	-	2.06	2.38	2.42	2.68	3.48	3.44	3.20	3.89	3.24	-	-
	Silver	(g/t Ag)	5.31	-	2.86	4.75	4.97	5.41	6.02	5.17	4.82	6.63	5.72	-	-
Total Material Mined		(kt)	101,471	1,500	5,730	8,832	12,595	17,000	17,018	16,812	14,050	6,993	942	-	-
Processing															
Mill Feed		(kt)	6,942	-	-	721	800	800	800	800	800	800	800	621	-
Gold		(g/t)	3.02	-	-	2.6	2.9	3.3	3.5	4.1	4.0	3.5	1.6	1.2	-
Silver		(g/t)	5.31	-	-	5.0	5.8	6.5	6.1	6.1	6.0	6.0	3.1	2.5	-
Recovery															
Gold		(%)	91.0%	0.0%	0.0%	91.0%	91.0%	91.0%	91.0%	91.0%	91.0%	91.0%	91.0%	91.0%	0.0%
Silver		(%)	69.9%	0.0%	0.0%	69.9%	69.9%	69.9%	69.9%	69.9%	69.9%	69.9%	69.9%	69.9%	0.0%
Dore Produced															
Gold		(koz)	614	-	-	55.8	68.2	77.0	81.9	96.8	93.8	81.8	36.8	22.0	-
Silver		(koz)	828	-	-	81.1	103.9	117.4	108.9	110.4	107.0	108.4	56.1	35.2	-
Sales Summary															
Produced															
Gold		(koz)	614	-	-	55.8	68.2	77.0	81.9	96.8	93.8	81.8	36.8	22.0	-
Silver		(koz)	828	-	-	81.1	103.9	117.4	108.9	110.4	107.0	108.4	56.1	35.2	-
Payable															
Gold		(koz)	613	-	-	55.7	68.1	76.9	81.8	96.7	93.7	81.7	36.8	22.0	-
Silver		(koz)	820	-	-	80.3	102.9	116.2	107.8	109.3	105.9	107.3	55.6	34.8	-
Product Prices															
Gold		(US$/oz)	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250
Silver		(US$/oz)	19.75	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
Revenue															
Gold		(US$m)	767	-	-	69.6	85.1	96.1	102.3	120.8	117.2	102.1	46.0	27.4	-
Silver		(US$m)	16	-	-	1.6	2.0	2.3	2.1	2.2	2.1	2.1	1.1	0.7	-
Total Revenue		**(US$m)**	**783**	**-**	**-**	**71.2**	**87.2**	**98.4**	**104.4**	**123.0**	**119.3**	**104.2**	**47.1**	**28.1**	**-**
Operating Expenditure															
Mining o/p		(US$m)	(235)	(4.9)	(13.8)	(22.4)	(28.2)	(36.0)	(35.3)	(35.0)	(31.1)	(19.9)	(6.8)	(1.2)	-
Processing		(US$m)	(142)	-	-	(15.1)	(16.3)	(16.3)	(16.3)	(16.3)	(16.3)	(16.3)	(16.3)	(12.9)	-
Tailings		(US$m)	(0)	-	-	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	(0.0)	-
Refinery		(US$m)	(2)	-	-	(0.2)	(0.3)	(0.3)	(0.3)	(0.3)	(0.3)	(0.3)	(0.2)	(0.2)	-
G&A		(US$m)	(38)	-	-	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(3.4)	(2.7)	-
Contingency (Mining o/p only)		(US$m)	(6)	-	-	(0.6)	(0.8)	(1.0)	(0.9)	(0.9)	(0.8)	(0.5)	(0.2)	-	-
Terminal Benefits Liability		(US$m)	(1)	-	-	-	-	-	-	-	-	-	-	(0.9)	-
Subtotal operating costs		**(US$m)**	**(424)**	**(4.9)**	**(13.8)**	**(42.9)**	**(50.2)**	**(58.2)**	**(57.4)**	**(57.2)**	**(53.2)**	**(41.7)**	**(27.0)**	**(17.8)**	**-**
Royalty		(US$m)	(23)	-	-	(2.1)	(2.6)	(3.0)	(3.1)	(3.7)	(3.6)	(3.1)	(1.4)	(0.8)	-
Total operating costs		**(US$m)**	**(448)**	**(4.9)**	**(13.8)**	**(45.1)**	**(52.8)**	**(61.2)**	**(60.5)**	**(60.9)**	**(56.8)**	**(44.8)**	**(28.4)**	**(18.7)**	**-**
Operating Profit - EBITDA		**(US$m)**	**335**	**(4.9)**	**(13.8)**	**26.2**	**34.4**	**37.2**	**43.9**	**62.1**	**62.5**	**59.4**	**18.7**	**9.5**	**-**
Corporate Income Tax															
Profit tax		(US$m)	(63)	-	-	-	(1.1)	(2.7)	(8.6)	(13.7)	(14.2)	(15.0)	(5.0)	(2.3)	-
Net Profit		(US$m)	273	(4.9)	(13.8)	26.2	33.3	34.5	35.3	48.4	48.3	44.4	13.7	7.2	-
Working Capital Movement															
Working Capital		(US$m)	(0)	0.4	0.7	0.1	0.1	0.4	(0.2)	(0.5)	(0.2)	(0.6)	0.3	(0.1)	(0.3)
Capital Expenditure															
Project Capital Expenditure		(US$m)	(108.1)	(24.8)	(66.4)	(0.2)	(4.1)	(0.5)	(0.2)	(0.3)	(0.0)	(0.1)	-	(11.5)	-
Sustaining Capital Expenditure		(US$m)	(10.5)	-	-	-	(4.2)	-	(5.8)	(0.1)	(0.3)	-	-	-	-
Total Capital Expenditure		**(US$m)**	**(118.6)**	**(24.8)**	**(66.4)**	**(0.2)**	**(8.4)**	**(0.5)**	**(6.0)**	**(0.4)**	**(0.4)**	**(0.1)**	**-**	**(11.5)**	**-**
Net Free Cash (Post-tax)		**(US$m)**	**154**	**(29.3)**	**(79.5)**	**26.1**	**25.1**	**34.3**	**29.0**	**47.5**	**47.7**	**43.8**	**14.0**	**(4.5)**	**(0.3)**
Cumulative NFC (Post-tax)		**(US$m)**	**-**	**(29.3)**	**(108.8)**	**(82.7)**	**(57.6)**	**(23.3)**	**5.7**	**53.2**	**100.9**	**144.7**	**158.7**	**154.2**	**153.9**
Net Free Cash (Pre-tax)		**(US$m)**	**216**	**(29.3)**	**(79.5)**	**26.1**	**26.2**	**37.0**	**37.6**	**61.2**	**61.9**	**58.8**	**18.9**	**(2.2)**	**(0.3)**

Scenario A Annual Results

Year		Units	Totals	-2	-1	1	2	3	4	5	6	7	8	9
Mining														
Open Pit														
Waste Expit		(kt)	118,178	1,501	5,651	9,146	12,371	13,384	15,520	15,406	16,932	17,070	11,195	-
Stripping Ratio		(t:t)	12.45	-	117.17	7.99	9.23	10.93	12.84	12.58	13.04	16.84	11.35	-
Ore Expit		(kt)	9,489	-	48	1,144	1,340	1,225	1,209	1,224	1,299	1,013	986	-
	Gold	(g/t Au)	2.79	-	1.66	2.30	2.21	2.44	2.97	3.25	2.67	3.25	3.50	-
	Silver	(g/t Ag)	4.51	-	2.45	4.37	4.18	4.83	5.17	4.98	3.47	4.64	4.68	-
Total Material Mined		(kt)	127,667	1,501	5,699	10,290	13,712	14,609	16,729	16,631	18,231	18,083	12,181	-
Underground														
Ore		(kt)	0	-	-	-	-	-	-	-	-	-	-	-
	Gold	(g/t Au)	0.00	-	-	-	-	-	-	-	-	-	-	-
	Silver	(g/t Ag)	0.00	-	-	-	-	-	-	-	-	-	-	-
Processing														
Mill Feed		(kt)	9,489	-	-	1,135	1,200	1,200	1,200	1,200	1,200	1,200	1,154	-
Gold		(g/t)	2.79	-	-	2.3	2.3	2.5	3.0	3.3	2.8	3.0	3.2	-
Silver		(g/t)	4.51	-	-	4.4	4.7	4.9	5.2	5.1	3.8	3.9	4.1	-
Recovery														
Gold		(%)	91.0%	0.0%	0.0%	90.9%	91.4%	91.2%	91.3%	91.4%	91.3%	90.7%	90.2%	0.0%
Silver		(%)	69.9%	0.0%	0.0%	69.9%	69.9%	69.9%	70.0%	70.0%	70.0%	69.9%	69.9%	0.0%
Dore Produced														
Gold		(koz)	774	-	-	76.4	80.7	86.6	104.9	116.0	97.1	104.2	108.3	-
Silver		(koz)	963	-	-	112.4	126.1	132.9	140.7	137.2	101.3	105.8	106.3	-
Sales Summary														
Produced														
Gold		(koz)	774	-	-	76.4	80.7	86.6	104.9	116.0	97.1	104.2	108.3	-
Silver		(koz)	963	-	-	112.4	126.1	132.9	140.7	137.2	101.3	105.8	106.3	-
Payable														
Gold		(koz)	773	-	-	76.3	80.6	86.5	104.8	115.9	97.0	104.1	108.2	-
Silver		(koz)	953	-	-	111.3	124.8	131.6	139.3	135.9	100.3	104.8	105.2	-
Product Prices														
Gold		(US$/oz)	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250
Silver		(US$/oz)	19.75	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
Revenue														
Gold		(US$m)	967	-	-	95.4	100.8	108.2	131.0	144.9	121.2	130.2	135.3	-
Silver		(US$m)	19	-	-	2.2	2.5	2.6	2.8	2.7	2.0	2.1	2.1	-
Total Revenue		**(US$m)**	**986**	**-**	**-**	**97.6**	**103.2**	**110.8**	**133.8**	**147.6**	**123.2**	**132.2**	**137.4**	**-**
Operating Expenditure														
Mining o/p		(US$m)	(302)	(3.5)	(13.3)	(24.2)	(32.2)	(34.4)	(39.5)	(39.3)	(43.1)	(43.1)	(29.3)	-
Mining u/g		(US$m)	-	-	-	-	-	-	-	-	-	-	-	-
Processing		(US$m)	(175)	-	-	(21.2)	(22.1)	(22.1)	(22.1)	(22.1)	(22.1)	(22.1)	(21.4)	-
Tailings		(US$m)	(0)	-	-	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	-
Refinery		(US$m)	(3)	-	-	(0.3)	(0.3)	(0.3)	(0.4)	(0.4)	(0.3)	(0.3)	(0.3)	-
G&A		(US$m)	(36)	-	-	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.2)	-
Contingency (Mining o/p only)		(US$m)	(4)	-	-	(0.3)	(0.7)	(0.6)	(0.4)	(0.4)	(0.5)	(0.5)	(0.3)	-
Terminal Benefits Liability		(US$m)	(1)	-	-	-	-	-	-	-	-	-	(1.1)	-
Subtotal operating costs		**(US$m)**	**(521)**	**(3.5)**	**(13.3)**	**(50.6)**	**(60.0)**	**(62.0)**	**(67.0)**	**(66.8)**	**(70.7)**	**(70.6)**	**(56.7)**	**-**
Royalty		(US$m)	(30)	-	-	(2.9)	(3.1)	(3.3)	(4.0)	(4.4)	(3.7)	(4.0)	(4.1)	-
Total operating costs		**(US$m)**	**(551)**	**(3.5)**	**(13.3)**	**(53.6)**	**(63.1)**	**(65.4)**	**(71.0)**	**(71.2)**	**(74.4)**	**(74.6)**	**(60.9)**	**-**
Operating Profit - EBITDA		**(US$m)**	**435**	**(3.5)**	**(13.3)**	**44.0**	**40.2**	**45.4**	**62.8**	**76.3**	**48.8**	**57.6**	**76.5**	**-**
Corporate Income Tax														
Profit tax		(US$m)	(86)	-	-	(3.3)	(3.4)	(4.4)	(13.3)	(16.8)	(8.9)	(13.7)	(22.1)	-
Net Profit		(US$m)	349	(3.5)	(13.3)	40.7	36.8	41.0	49.5	59.5	39.8	44.0	54.4	-
Working Capital Movement														
Working Capital		(US$m)	-	0.3	0.8	(0.1)	0.6	(0.0)	(0.2)	(0.4)	0.9	(0.2)	(1.2)	(0.5)
Capital Expenditure														
Project Capital Expenditure		(US$m)	(129.8)	(28.0)	(82.4)	(0.2)	(4.1)	(0.6)	(0.2)	(0.3)	(0.0)	(0.5)	(13.4)	-
Sustaining Capital Expenditure		(US$m)	(15.4)	-	-	-	(6.0)	-	(8.9)	(0.1)	(0.4)	-	-	-
Total Capital Expenditure		**(US$m)**	**(145.1)**	**(28.0)**	**(82.4)**	**(0.2)**	**(10.1)**	**(0.6)**	**(9.2)**	**(0.4)**	**(0.4)**	**(0.5)**	**(13.4)**	**-**
Net Free Cash (Post-tax)		**(US$m)**	**204**	**(31.2)**	**(94.9)**	**40.4**	**27.3**	**40.4**	**40.2**	**58.7**	**40.4**	**43.3**	**39.7**	**(0.5)**
Cumulative NFC (Post-tax)		**(US$m)**	**-**	**(31.2)**	**(126.1)**	**(85.7)**	**(58.4)**	**(18.1)**	**22.1**	**80.8**	**121.2**	**164.5**	**204.2**	**203.7**
Net Free Cash (Pre-tax)		**(US$m)**	**290**	**(31.2)**	**(94.9)**	**43.7**	**30.6**	**44.8**	**53.4**	**75.5**	**49.3**	**56.9**	**61.9**	**(0.5)**

Scenario B Annual Results

Year		Units	Totals	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13
Mining																		
Open Pit																		
Waste Expit		(kt)	118,178	1,501	5,651	9,146	12,371	13,384	15,520	15,406	16,932	17,070	11,195	-	-	-	-	-
Stripping Ratio		(t:t)	12.45	-	117.17	7.99	9.23	10.93	12.84	12.58	13.04	16.84	11.35	-	-	-	-	-
Ore Expit		(kt)	9,489	-	48	1,144	1,340	1,225	1,209	1,224	1,299	1,013	986	-	-	-	-	-
	Gold	(g/t Au)	2.79	-	1.66	2.30	2.21	2.44	2.97	3.25	2.67	3.25	3.50	-	-	-	-	-
	Silver	(g/t Ag)	4.51	-	2.45	4.37	4.18	4.83	5.17	4.98	3.47	4.64	4.68	-	-	-	-	-
Total Material Mined		(kt)	127,667	1,501	5,699	10,290	13,712	14,609	16,729	16,631	18,231	18,083	12,181	-	-	-	-	-
Underground																		
Ore		(kt)	3,520	-	-	185	228	364	388	376	358	371	301	294	273	256	126	-
	Gold	(g/t Au)	4.31	-	-	3.62	4.34	4.71	5.11	4.53	3.67	3.60	4.08	4.57	4.32	4.23	4.91	-
	Silver	(g/t Ag)	5.20	-	-	4.60	3.96	4.03	3.82	4.72	4.26	4.85	6.37	7.21	6.58	6.74	7.60	-
Processing																		
Mill Feed		(kt)	13,009	-	-	1,320	1,425	1,589	1,597	1,600	1,600	1,594	1,336	294	273	256	126	-
Gold		(g/t)	3.20	-	-	2.5	2.6	3.0	3.5	3.6	2.9	3.1	3.6	4.6	4.3	4.2	4.9	-
Silver		(g/t)	4.70	-	-	4.4	4.6	4.6	4.8	4.9	3.8	4.1	5.0	7.2	6.6	6.7	7.6	-
Recovery																		
Gold		(%)	91.6%	0.0%	0.0%	91.3%	91.7%	91.7%	91.7%	91.7%	91.7%	91.2%	90.9%	92.5%	92.7%	93.1%	94.4%	0.0%
Silver		(%)	70.0%	0.0%	0.0%	70.0%	70.0%	69.9%	70.0%	70.0%	70.0%	70.0%	69.9%	70.0%	70.0%	70.2%	70.5%	0.0%
Dore Produced																		
Gold		(koz)	1,226	-	-	96.4	110.0	138.7	164.4	167.7	138.0	145.5	139.2	39.9	35.2	32.3	18.7	-
Silver		(koz)	1,375	-	-	131.6	146.4	165.9	174.1	177.2	135.6	146.4	149.5	47.7	40.4	38.9	21.6	-
Sales Summary																		
Produced																		
Gold		(koz)	1,226	-	-	96.4	110.0	138.7	164.4	167.7	138.0	145.5	139.2	39.9	35.2	32.3	18.7	-
Silver		(koz)	1,375	-	-	131.6	146.4	165.9	174.1	177.2	135.6	146.4	149.5	47.7	40.4	38.9	21.6	-
Payable																		
Gold		(koz)	1,225	-	-	96.3	109.9	138.6	164.2	167.5	137.8	145.3	139.0	39.8	35.1	32.3	18.7	-
Silver		(koz)	1,362	-	-	130.3	145.0	164.2	172.3	175.5	134.2	144.9	148.0	47.2	40.0	38.5	21.4	-
Product Prices																		
Gold		(US$/oz)	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250
Silver		(US$/oz)	19.75	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
Revenue																		
Gold		(US$m)	1,531	-	-	120.4	137.4	173.2	205.3	209.4	172.3	181.7	173.8	49.8	43.9	40.4	23.4	-
Silver		(US$m)	27	-	-	2.6	2.9	3.2	3.4	3.5	2.7	2.9	2.9	0.9	0.8	0.8	0.4	-
Total Revenue		**(US$m)**	**1,558**	**-**	**-**	**122.9**	**140.3**	**176.5**	**208.7**	**212.9**	**174.9**	**184.5**	**176.7**	**50.7**	**44.7**	**41.1**	**23.8**	**-**
Operating Expenditure																		
Mining o/p		(US$m)	(304)	(3.5)	(13.3)	(24.2)	(32.2)	(34.4)	(39.5)	(39.3)	(43.2)	(43.1)	(29.2)	(0.5)	(0.5)	(0.7)	-	-
Mining u/g		(US$m)	(215)	-	-	(11.3)	(13.9)	(22.2)	(23.7)	(22.9)	(21.8)	(22.6)	(18.3)	(17.9)	(16.7)	(15.6)	(7.8)	-
Processing		(US$m)	(241)	-	-	(23.8)	(25.4)	(27.7)	(27.9)	(27.9)	(27.9)	(27.8)	(24.1)	(9.0)	(8.7)	(8.5)	(2.2)	-
Tailings		(US$m)	(1)	-	-	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.1)	(0.0)	-
Refinery		(US$m)	(4)	-	-	(0.3)	(0.4)	(0.4)	(0.4)	(0.5)	(0.4)	(0.4)	(0.4)	(0.2)	(0.2)	(0.2)	(0.1)	-
G&A		(US$m)	(50)	-	-	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(4.6)	(0.4)	-
Contingency (Mining o/p only)		(US$m)	(4)	-	-	(0.3)	(0.7)	(0.6)	(0.4)	(0.4)	(0.6)	(0.5)	(0.3)	-	-	-	-	-
Terminal Benefits Liability		(US$m)	(0)	-	-	-	-	-	-	-	-	-	-	-	-	-	(0.1)	-
Subtotal operating costs		**(US$m)**	**(818)**	**(3.5)**	**(13.3)**	**(64.7)**	**(77.3)**	**(90.0)**	**(96.5)**	**(95.6)**	**(98.5)**	**(99.1)**	**(76.8)**	**(32.2)**	**(30.7)**	**(29.5)**	**(10.6)**	**-**
Royalty		(US$m)	(47)	-	-	(3.7)	(4.2)	(5.3)	(6.3)	(6.4)	(5.2)	(5.5)	(5.3)	(1.5)	(1.3)	(1.2)	(0.7)	-
Total operating costs		**(US$m)**	**(865)**	**(3.5)**	**(13.3)**	**(68.4)**	**(81.5)**	**(95.3)**	**(102.8)**	**(102.0)**	**(103.7)**	**(104.6)**	**(82.1)**	**(33.7)**	**(32.0)**	**(30.8)**	**(11.3)**	**-**
Operating Profit - EBITDA		**(US$m)**	**693**	**(3.5)**	**(13.3)**	**54.5**	**58.8**	**81.2**	**105.9**	**110.8**	**71.2**	**79.9**	**94.6**	**17.0**	**12.6**	**10.4**	**12.5**	**-**
Corporate Income Tax																		
Profit tax		(US$m)	(133)	-	-	(4.5)	(5.8)	(11.3)	(22.3)	(23.3)	(11.8)	(16.6)	(25.5)	(3.3)	(2.9)	(2.2)	(3.3)	-
Net Profit		(US$m)	560	(3.5)	(13.3)	50.1	53.0	69.9	83.6	87.6	59.5	63.3	69.1	13.7	9.8	8.1	9.2	-
Working Capital Movement																		
Working Capital		(US$m)	0	0.3	0.8	0.3	0.5	0.0	(0.3)	(0.2)	1.2	(0.2)	(1.5)	0.1	0.0	(0.0)	(1.0)	(0.2)
Capital Expenditure																		
Project Capital Expenditure		(US$m)	(214.1)	(30.5)	(121.3)	(29.5)	(16.6)	(0.6)	(0.2)	(0.3)	(0.0)	(0.5)	(1.6)	(0.2)	(0.0)	-	(12.7)	-
Sustaining Capital Expenditure		(US$m)	(32.8)	-	-	(0.6)	(8.2)	(1.2)	(8.3)	(1.4)	(8.1)	(1.2)	(1.0)	(1.0)	(0.9)	(0.9)	-	-
Total Capital Expenditure		**(US$m)**	**(246.9)**	**(30.5)**	**(121.3)**	**(30.1)**	**(24.8)**	**(1.8)**	**(8.5)**	**(1.7)**	**(8.1)**	**(1.7)**	**(2.6)**	**(1.1)**	**(0.9)**	**(0.9)**	**(12.7)**	**-**
Net Free Cash (Post-tax)		**(US$m)**	**313**	**(33.8)**	**(133.9)**	**20.3**	**28.8**	**68.2**	**74.8**	**85.7**	**52.5**	**61.4**	**65.0**	**12.7**	**8.9**	**7.3**	**(4.6)**	**(0.2)**
Cumulative NFC (Post-tax)		**(US$m)**	**-**	**(33.8)**	**(167.6)**	**(147.4)**	**(118.5)**	**(50.4)**	**24.5**	**110.2**	**162.7**	**224.0**	**289.0**	**301.8**	**310.6**	**317.9**	**313.3**	**313.2**
Net Free Cash (Pre-tax)		**(US$m)**	**446**	**(33.8)**	**(133.9)**	**24.7**	**34.6**	**79.4**	**97.1**	**109.0**	**64.3**	**78.0**	**90.5**	**16.0**	**11.7**	**9.5**	**(1.3)**	**(0.2)**