



SAN ANTONIO PROJECT

CRUSH SIZE STUDY OPEN CYCLE COLUMN LEACH ON OXIDE COMPOSITE PLMET-12A

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TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 INTRODUCTION.....	1
2.0 SUMMARY.....	2
2.1 Preliminary Bottle Roll Cyanide Leach Tests.....	2
2.2 Open Cycle Crush Size Column Leach Study.....	3
3.0 RESULTS AND DISCUSSIONS.....	4
3.1 Head Assay.....	4
3.2 Preliminary Bottle Roll Cyanide Leach Tests.....	5
3.3 Open Cycle Column Leach Study.....	6
4.0 CONCLUSIONS AND RECOMMENDATIONS.....	9
5.0 APPENDIX	
Appendix 1 - Head Analysis (ICP Scan and Sulfur Speciation Results)	
Appendix 2 - Bottle Roll Cyanide Leach Test Result and ICP Scan on 72 hour Pregnant Solution	
Appendix 3 - Oxide Composite Column Leach Test at P₈₀ 3/8 inch (CL-01)	
Appendix 4 - Oxide Composite Column Leach Test at P₈₀ 1-1/2 inch Crush Size (CL-02)	
Appendix 5 - Column Leach Study Summary of Results	

1.0 INTRODUCTION

Compañía Minera Pitalla S.A. de C.V. (Pitalla) submitted a request for proposal to METCON Research (METCON) to conduct sample preparation, bottle roll and column leach tests on oxide composite samples from the San Antonio mineral resource near La Paz, Baja California, Mexico. A proposal for bench scale and column leach test work was prepared by METCON, submitted and later accepted by Pitalla.

Preliminary bottle roll and column leach tests were conducted on a single oxide drill core composite sample identified by the client as PLMET 12A. This report presents the metallurgical results obtained from bottle roll leach testing conducted at minus 10 mesh and open cycle column leach testing conducted at 80 percent passing 3/8 inch and 1-1/2 inch crush sizes.

The procedures used for the test program as well as assay and detailed test data are appended to this report. The metallurgical test program was outlined by Mr. Chester Millar, client representative.

2.0 SUMMARY

This test program was conducted on one oxide composite sample identified as PLMET-12A. The primary objective of this test program was to generate gold and silver extraction and cyanide and lime consumption data at two different crush sizes. The leach tests were conducted utilizing bottle roll and column leach techniques in open cycle. The leach parameters utilized in this study were specified by the client representative Mr. Chester Millar. The results of the test work are summarized in the following paragraphs.

2.1 Preliminary Bottle Roll Cyanide Leach Test

Prior to conducting the column leach study, an agitated cyanide leach study was conducted on the oxide composite sample at minus 10 mesh. This test provided data relative to expected precious metal extraction and the lime and cyanide consumptions. The agitated cyanide leach test was conducted under the following conditions:

- Leach cycle of 72 hours at a pulp density of 33 percent solids.
- Leach solution containing 1.0 gram per liter cyanide.
- The pH was maintained between 10.5 and 11.5 using lime.

The mass balance and leach kinetics results of this agitated cyanide leach test are presented in Appendix 2. A summary of results is presented in Table 2.1.

Test No.	Sample ID	Crush Size	Calculated Head		Reagent Consumption		Cumulative Extraction	
			Au (g/t)	Ag (g/t)	NaCN (kg/t)	CaO (kg/t)	Au (%)	Ag (%)
BR-01	Oxide	-10 mesh	0.80	0.28	0.06	2.00	80.24	82.42

The agitated cyanide leach data outlined in Table 2.1 indicate the following:

- The gold and silver extractions obtained were 80.24 percent and 82.42 percent respectively.
- The cyanide consumption was 0.06 kilograms per metric ton.
- The lime consumption was 2 kilograms per metric ton.

2.2 Open Cycle Crush Size Column Leach Study

The open cycle column leach tests were conducted at 80 percent passing 3/8 inch and 1-1/2 inch crush sizes. Two test charges from the oxide composite sample were prepared and loaded into 8 inch diameter PVC columns to a height of approximately 3.5 meters. Prior to loading the columns, lime was blended with the test charge of 130 kilograms. The leaching parameters common to all column leach tests are summarized below:

- Lime blended into test charge at a dose of 2.0 kilogram per metric ton.
- Leach solution with 0.5 gram of cyanide per liter at pH 11.5.
- Leach solution application flow rate of 6.0 liters per hour per square meter.

The results obtained after a 111 days leach cycle are presented in Table 2.2.

Table 2.2 San Antonio Project- Oxide Composite Sample (PLMET-12A) Crush Size Open Cycle Column Leach Study Summary of Results										
Sample ID	Test No.	Crush Size	Calculated Head (g/t)		Cumulative				Reagent Consumption (kg/t)	
					Extraction (%)		Extraction (g/t)			
			Au	Ag	Au	Ag	Au	Ag	NaCN	CaO
Oxide	CL-01	P ₈₀ 3/8 inch	0.87	0.31	80.65	64.13	0.70	0.20	0.06	1.80
	CL-02	P ₈₀ 1-1/2 inch	0.81	0.29	75.15	61.39	0.61	0.18	0.06	1.58

The column leach test data outlined in Table 2.2 indicate the following:

- The gold extractions were 75.15 to 80.65 percent. Gold extraction was slightly increased by finer crush size.
- The silver extractions were 61.39 to 64.13 percent. The silver extractions were enhanced by crush size; however the silver extractions remained low and the silver content in the sample is low.
- The sodium cyanide consumptions are low. The crush size did not impact the cyanide consumption.
- The calcium oxide consumptions were 1.58 to 1.80 kilograms per metric ton. The lime consumption was slightly increased by crushing finer.
- In general, a slight variability was observed between calculated heads and head assays.

3.0 RESULTS AND DISCUSSIONS

The results of the head analysis, agitated (bottle roll test) and column leach tests conducted on oxide composite sample are presented in the following paragraphs.

3.1 Head Assay

The oxide composite sample was stage crushed to produce bottle roll and column test charges. The complete particle size analyses are included in Appendix 3 and 4. A representative pulverized composite sample weighing between 500 and 1000 grams was split out for gold and silver analysis by fire assay, ICP scan and sulfur speciation. The results of this analysis are presented below.

Sample ID	Head Assays (g/tonne)		Sulfur Speciation		
	Au	Ag	S _{total}	S ⁻²	SO ₄ ⁻²
Oxide Composite PLMET-12A	0.88	0.29	0.115	0.074	0.040

The head assay results indicate the following:

- The gold and silver assays were 0.88 and 0.29 grams per metric ton respectively.
- The sulfur speciation results revealed a total sulfur of 0.115 percent with a sulfide sulfur content of 0.074 percent. The total sulfur content in the oxide sample is considered low.

The main elements of an ICP scan analysis conducted on the oxide composite are presented below. The complete ICP scan conducted on the head sample is included in Appendix 1.

Element	Symbol	Units	Oxide Composite PLMET-12A Comp.
Aluminum	Al	%	9.15
Arsenic	As	ppm	930
Barium	Ba	ppm	986
Calcium	Ca	%	1.68
Cadmium	Cd	ppm	14
Cobalt	Co	ppm	22
Chromium	Cr	ppm	154
Copper	Cu	ppm	154
Iron	Fe	%	7.19
Mercury	Hg	ppm	<0.001
Magnesium	Mg	ppm	15155
Titanium	Ti	ppm	4115
Vanadium	V	ppm	163
Zinc	Zn	ppm	109

The ICP scan results indicate that arsenic content is high in arsenic and copper is low. Mercury was not detected in the oxide sample.

3.2 Preliminary Bottle Roll Cyanide Leach Tests

Prior to conducting the column leach study, an agitated cyanide leach test was conducted on the oxide composite at minus 10 mesh size. This test provided data relative to expected precious metal extraction and the lime and cyanide consumptions for the oxide composite. The agitated cyanide leach test was conducted for 72 hours at 33 percent solids using a leach solution containing 1.0 gram per liter cyanide with the pH maintained between 10.5 and 11.5 using lime. This information was utilized to select initial leach parameters for the column leach tests conducted on oxide composite. The mass balance and leach kinetics results of these agitated cyanide leach tests are presented in Appendix 2. A summary of results is presented in Table 3.2.

Test No.	Sample ID	Crush Size	Calculated Head		Reagent Consumption		Leach Time (hr)	Cumulative Extraction	
			Au (g/t)	Ag (g/t)	NaCN (kg/t)	CaO (kg/t)		Au (%)	Ag (%)
BR-01	Oxide Composite PLMET-12A	-10 mesh	0.80	9.85	0.06	2.00	0	0.00	0.00
							3	34.91	42.59
							6	48.07	50.54
							24	63.98	58.64
							48	75.20	81.07
							72	80.24	82.42

The agitated cyanide leach data outlined in Table 3.2 indicate the following:

- The cumulative gold extraction was 80.24 percent.
- The cumulative silver extraction was 82.42 percent.
- The cyanide consumption was 0.06 kilogram per metric ton.
- The lime consumption was 2 kilograms per metric ton.

3.3 Open Cycle Crush Size Column Leach Study

The open cycle column leach tests were conducted at 80 percent passing 3/8 inch and 1-1/2 inch crush sizes. Single test charges from oxide composite sample were reconstituted and loaded into 8 inch diameter PVC columns to a height of approximately 3.5 meters. Prior to loading the columns, lime was added to the test charge. Columns were subjected to open cycle leaching using a feed solution containing 0.5 gram per liter sodium cyanide at a pH of approximately 10.5. Throughout the leach cycle, the pH of the feed solution was adjusted using lime in an attempt to maintain an effluent pH between 10.5 and 11.0. The leaching parameters common to the two column leach tests are summarized below:

- Lime blended into test charge at a dosage of 2.0 kilograms per metric ton (100 percent addition of the preliminary bottle roll consumption).
- 0.5 grams per liter sodium cyanide concentration in the leach solution.
- Leach solution application flow rate of 6.0 liters per hour per square meter.
- 111 days of continuous leach cycle.

The results after 111 days of leach in open cycle are presented in Table 3.3.1.

Test No.	Crush Size	Metallurgical Products	Vol/Wt (l/kg)	Assays (ppm - g/t)		Percent Extraction		Reagent Consumption (kg/tonne)	
				Au	Ag	Au	Ag	NaCN	CaO
CL-01	P ₈₀ 3/8 Inch	Feed Soln.	509.46	0	0	80.65	64.13	0.06	1.80
		Preg. Soln.	498.62	0.18	0.05				
		Leach Res.	128.21	0.17	0.11				
		Calc. Head	-	0.87	0.31				
		Assay Head	129.94	0.88	0.29				
CL-02	P ₈₀ 1-1/2 Inch	Feed Soln.	492.33	0	0	75.15	61.39	0.06	1.58
		Preg. Soln.	481.89	0.16	0.05				
		Leach Res.	128.49	0.20	0.11				
		Calc. Head	-	0.81	0.29				
		Assay Head	130.19	0.96	0.18				

The column leach test data outlined in Table 3.3.1 indicate the following:

- The gold extractions were 75.15 and 80.65 percent. The gold extractions are equivalent to 0.61 and 0.70 grams per metric ton. The finest crush size achieved slightly better gold extraction than the coarser crush size.
- The silver extractions were 61.39 and 64.13 percent. The silver extractions are equivalent to 0.18 and 0.20 grams per metric ton. The finest crush size achieved slightly better silver extraction than the coarser crush size.
- The sodium cyanide consumptions for the two tests were 0.06 kilogram per metric ton. The cyanide consumption was not increased by crushing finer.
- The calcium oxide consumptions were 1.58 to 1.80 kilograms per metric ton for the two crush sizes. The lime consumption was increased by crushing finer.
- The column test at $P_{80} 3/8$ did show a good correlation between calculated head and head assay for both gold and silver. The column test at $P_{80} 1-1/2$ did not show a good correlation between calculated head and head assay for both gold and silver. However, the calculated heads for gold and silver on both tests are similar.

The leached residues from the column tests were screened on the same sieves used to prepare the head screen assay analysis. Sample pulps from each leach residue screen fraction were submitted for gold and silver assays. The gold and silver assays were conducted in duplicate pulp samples from the head and column leach residues to determine assay variability. The assays results from the head and leach residue screen analysis are utilized to calculate extraction by screen fraction.

The precious metal extraction by screen fraction generated from the column leach tests conducted is presented in Table 3.3.2.

Screen Fraction	CL-01, P₈₀ 3/8 inch		CL-02, P₈₀ 1-1/2 inch	
	Au Extraction (%)	Degradation Index (%)	Au Extraction (%)	Degradation Index (%)
+1-1/2 inch	-	-	84.73	22.88
+1 inch	-	-	71.14	12.42
+3/4 inch	-	-	74.71	-10.57
+1/2 inch	-	-	78.19	-7.11
+3/8 inch	84.90	17.39	76.91	0.29
+1/4 inch	74.14	2.13	81.83	-10.94
+6 mesh	61.02	2.58	76.40	-5.89
+10 mesh	84.19	-3.08	80.15	-12.98
<10 mesh	91.53	-11.53	90.07	-38.46
Overall	81.00	-	78.97	-

The extraction by screen fraction data outlined in Table 3.3.2 indicate that gold extraction is not sensitive to particle size. Gold assay variability was observed on the individual fractions. Thus, an average of the two assays from each fraction and composites were utilized to calculate assay screen analysis for both head and column leach residues.

The degradation index results indicate that the coarser crush size revealed higher degradation index than the finer crush size, as it is indicated by the increase in weight of the minus 10 mesh fraction. The positive degradation index indicate a weight loss of the respective fraction size and the negative degradation index indicate a weight gain of the respective fraction size.

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are based on the results from bottle roll cyanide leach test and crush size column leach study conducted on oxide composite sample.

Conclusions:

- The gold extractions were 75.15 to 80.65 percent. The column leach studies revealed a low dependency on a fine crush in order to generate high levels of gold extraction. The best results were obtained at P₈₀ 3/8 inch crush size, only 5 percent increase over the results obtained at P₈₀ 1-1/2 inch.
- Degradation of the material was observed during the column leach testing. However, leach solution percolation problems were not identified during the column leaching process.
- The silver extractions were 61.39 to 64.13 percent and showed similar behavior to the gold extractions.
- The agitated bottle roll leach test at minus 10 mesh achieved same levels of gold extractions after 72 hours leach cycle than column leach test at P₈₀ 3/8 inch.
- The sodium cyanide consumptions are below 0.1 kilograms per metric ton and were not impacted by crush size.

Recommendations:

- Conduct a preliminary economic assessment to evaluate the value of crushing finer. In addition, determination of crushability and abrasion indexes on various rock type samples identified in the mineral resource.
- Further leach test work, analytical and mineralogical examination of heads and metallurgical products is recommended to evaluate precious metals liberation at coarser sizes and the association with other minerals present at the San Antonio project mineral resource.
- Optimization of leach process parameters such as: crush size, leach solution application flow rate, cyanide concentration in the leach solution, lift height and lime addition.

5.0 APPENDIX

Appendix 1 - Head Analysis (ICP Scan and Sulfur Speciation Results)

**Appendix 2 - Bottle Roll Cyanide Leach Test Result and ICP Scan on
72 hour Pregnant Solution**

Appendix 3 - Oxide Composite Column Leach Test at P₈₀ 3/8 inch (CL-01)

**Appendix 4 - Oxide Composite Column Leach Test at P₈₀ 1-1/2 inch
Crush Size (CL-02)**

Appendix 5 - Column Leach Study Summary of Results

APPENDIX 1

Head Analysis (ICP Scan and Sulfur Speciation Results)

SUMMARY OF ANALYTICAL RESULTS
Compañía Minera Pitalla S.A. de C.V.
Column Leach Study - San Antonio Project
METCON Research Project No. M-732-01
30 Element ICP Scan on Oxide Composite

Element	Symbol	Unit	Oxide Composite PLMET-12A Comp.
Silver	Ag	ppm	<0.001
Aluminum	Al	ppm	9.15
Arsenic	As	ppm	930
Barium	Ba	ppm	986
Bismuth	Bi	ppm	<0.001
Calcium	Ca	ppm	1.68
Cadmium	Cd	ppm	14
Cobalt	Co	ppm	22
Chromium	Cr	ppm	154
Copper	Cu	ppm	154
Iron	Fe	ppm	7.19
Mercury	Hg	ppm	<0.001
Potassium	K	ppm	3.43
Lanthanum	La	ppm	18
Magnesium	Mg	ppm	15155
Manganese	Mn	ppm	366
Molybdenum	Mo	ppm	4
Sodium	Na	ppm	3.7
Nickel	Ni	ppm	5
Phosphorus	P	ppm	<0.001
Lead	Pb	ppm	3
Antimony	Sb	ppm	11
Scandium	Sc	ppm	80
Strontium	Sr	ppm	345
Titanium	Ti	ppm	4115
Thallium	Tl	ppm	<0.001
Vanadium	V	ppm	163
Tungsten	W	ppm	5
Zinc	Zn	ppm	109
Zirconium	Zr	ppm	27

SUMMARY OF ANALYTICAL RESULTS

Compañía Minera Pitalla S.A. de C.V.
Column Leach Study - San Antonio Project
METCON Research Project No. M-732-01
30 Element ICP Scan on Oxide Composite

Sample ID	S_{Total} (%)	SO₄⁻² (%)	S⁻² (%)
PLMET-12A Comp (Oxide)	0.115	0.04	0.074

APPENDIX 2

Bottle Roll Cyanide Leach Test Result and ICP Scan on 72 hour Pregnant Solution

METCON Research

Bottle Roll Leach Test Data Log

OBJECTIVE : Preliminary metal extraction and reagent consumption

CLIENT : Compania Minera Pitalla S.A. de C.V.
SAMPLE I.D.: PLMET-12A (Oxide Composite)
FEED WEIGHT: 999.60 grams
FEED SIZE : Minus 10 Mesh

PROJECT NO : M-732-01
DATE BEGIN : 10/14/08
DATE END : 10/17/08
TEST No. : BR-01

CONDITION AND REAGENTS

OPERATION	SLURRY CONDITIONS				REAGENT ADDITION			PREGNANT SOLUTION ASSAY						
	Volume (liter)	Percent Solids	Leach Time (hr)	pHi/pHf	NaCN (g)	CaO (g)		NaCN (g/l)	CaO (g/l)	pH				
Leach Solution	2.000	33.32	0	7.85	2.11	0.50		1.06						
Pregnant Solution	2.000	33.32	3	10.15	0.06	0.61		0.97	0.00	10.17				
Pregnant Solution	2.000	33.32	6	10.65	0.00	0.53		1.00	0.03	10.69				
Pregnant Solution	2.000	33.32	24	10.69	0.00	0.16		0.99	0.02	10.63				
Pregnant Solution	2.000	33.32	48	10.56	0.00	0.36		1.00	0.04	10.52				
Pregnant Solution	2.000	33.32	72	10.83	0.00									
Pregnant Solution	1.680							0.97	0.06	10.74				
Wash Solution (2)	0.890							0.36	0.06	10.57				
Cyanide and Lime Consumption (kg/tonne)					0.06	2.00								

REMARKS:
 (1) 40 ml Aliquot sample was removed after 3,6, 24 and 48 hours of leaching
 (2) Three stage water wash (3x300ml)

METALLURGICAL RESULTS

PRODUCT	VOLUME (ml)	WEIGHT (g)	ASSAYS			CUMULATIVE CONTENT				CUMULATIVE EXTRACTION (%)(3)		
			Au (ppm)	Ag (ppm)		Au (mg)	Ag (mg)		Au	Ag		
3 hr. Pregnant Leach	2000		0.14	0.06		0.2800	0.1200		34.91	42.59		
6 hr. Pregnant Leach	2000		0.19	0.07		0.3856	0.1424		48.07	50.54		
24 hr. Pregnant Leach	2000		0.25	0.08		0.5132	0.1652		63.98	58.64		
48 hr. Pregnant Leach	2000		0.29	0.11		0.6032	0.2284		75.20	81.07		
72 hr. Pregnant Leach (4)	1680		0.32	0.12		0.6436	0.2322		80.24	82.42		
Wash Solution	890		0.08	0.02								
Leach Residue		990.80	0.16	0.05		0.1585	0.0495		19.76	17.58		
Calc. Head			0.80	0.28		0.8021	0.2817		19.76	17.58		
Assay Head (5)		999.60	0.87	0.28		0.8656	0.2799					

REMARKS:
 (3) Percent extraction based on calculated head (solutions plus leach residue contents)
 (4) The 72 hr. pregnant solution metal content includes wash solution and aliquot samples contents
 (5) Composite assay head

SUMMARY OF ANALYTICAL RESULTS
Compañía Minera Pitalla S.A. de C.V. - San Antonio Project
Column Leach Study - METCON Research Project No. M-732-01

30 Elements ICP Scan on 72 hour Bottle Roll Pregnant Solution (Oxide Composite Sample)

Element	Symbol	Unit	BR-01 72 Hr. Preg
Silver	Ag	ppm	0.08
Aluminum	Al	ppm	0.42
Arsenic	As	ppm	0.82
Barium	Ba	ppm	0.01
Bismuth	Bi	ppm	<0.001
Calcium	Ca	ppm	201
Cadmium	Cd	ppm	0.01
Cobalt	Co	ppm	0.07
Chromium	Cr	ppm	<0.001
Copper	Cu	ppm	20
Iron	Fe	ppm	8
Mercury	Hg	ppm	<0.001
Potassium	K	ppm	13
Lanthanum	La	ppm	<0.001
Magnesium	Mg	ppm	3
Manganese	Mn	ppm	0.06
Molybdenum	Mo	ppm	0.06
Sodium	Na	ppm	511
Nickel	Ni	ppm	0.1
Phosphorus	P	ppm	<0.001
Lead	Pb	ppm	0.3
Antimony	Sb	ppm	<0.001
Scandium	Sc	ppm	<0.001
Strontium	Sr	ppm	0.6
Titanium	Ti	ppm	0.01
Thallium	Tl	ppm	0.07
Vanadium	V	ppm	0.17
Tungsten	W	ppm	0.6
Zinc	Zn	ppm	0.43
Zirconium	Zr	ppm	<0.001

APPENDIX 3

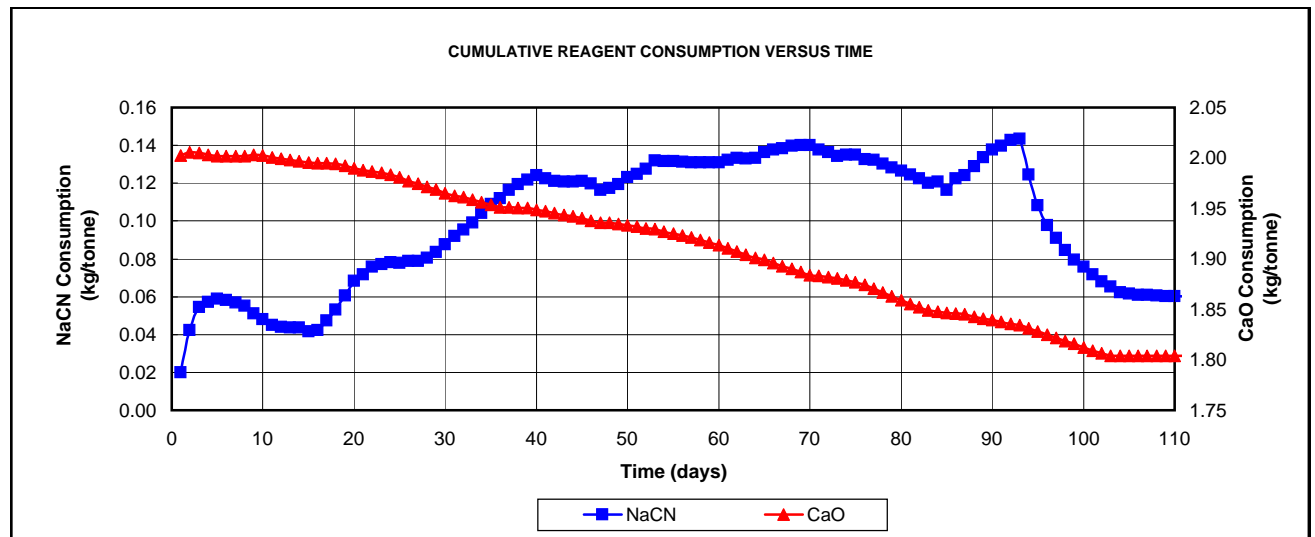
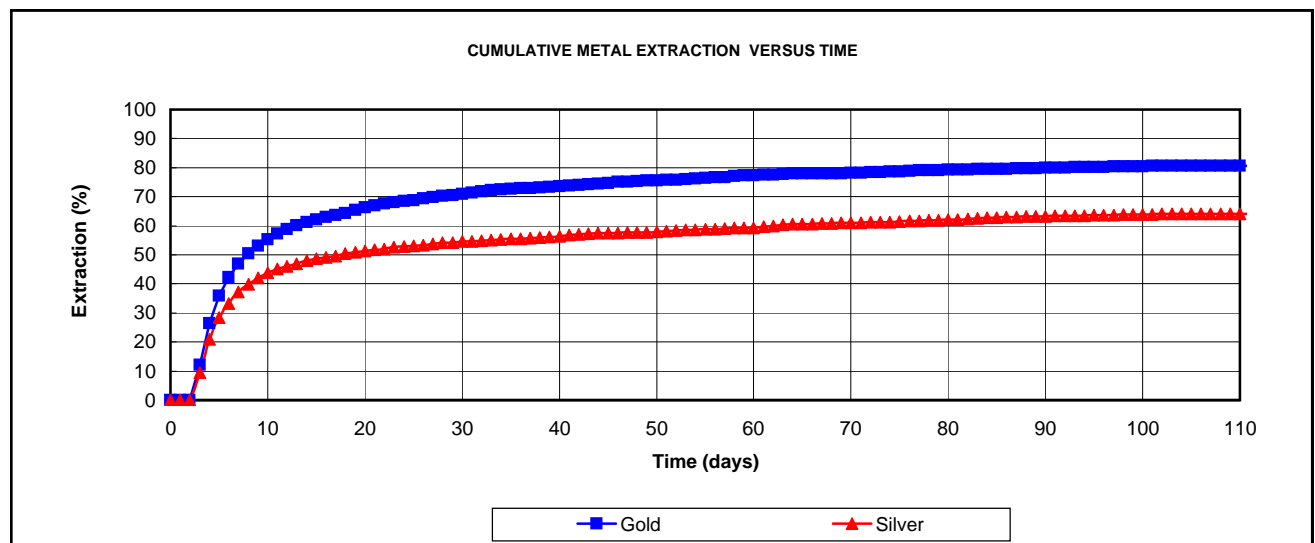
Oxide Composite Column Leach Test at P₈₀ 3/8 inch (CL-01)

METCON Project No.: M-732-01
 Compania Minera Pitalla S.A. de C.V.

TEST No.: CL-01 CRUSH SIZE : 80% Passing 3/8 inch
 SAMPLE : PLMET-12A (Oxide) CURE DOSAGE : 2.00 kg of CaO/tonne of sample

Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching Cure Days None
Leach Days 93
Wash Days 10
Drain Days 8
Total Cycle Days 111

PRODUCTS	Volume (liters)	Weight (kg)	Cumulative												
			Assay (g/tonne)			Contents (mg)			Percent Extraction			Consumption			
			Au	Ag		Au	Ag		Au	Ag		NaCN (kg/tonne)	CaO (kg/tonne)		
Feed Solution	509.46														
Pregnant Solution	498.62		0.18	0.05		90.74	26.06				80.65	64.13		0.06	1.80
Leach Residue		128.21	0.17	0.11		21.77	14.58								
CALCULATIONS															
Metal Extracted			0.70	0.20		90.74	26.06								
Calculated Head			0.87	0.31		112.51	40.64								
Assay Head		129.94	0.88	0.29		114.55	38.33								

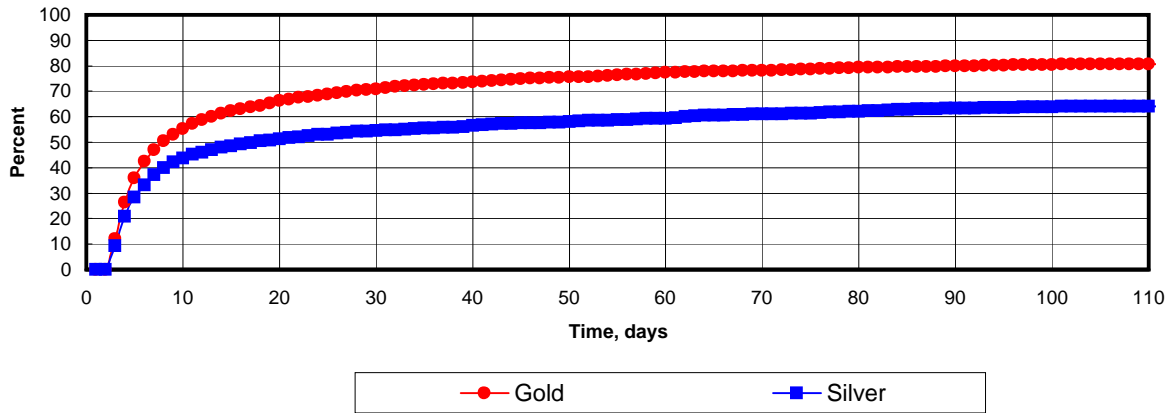


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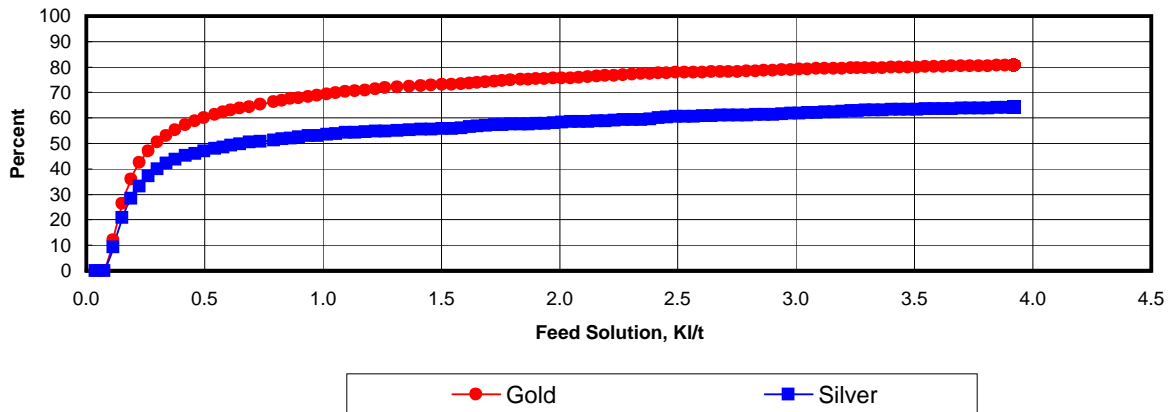
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Sample: PLMET-12A (Oxide)

Compania Minera Pitalla S.A. de C.V.
METCON Project No.: M-732-01

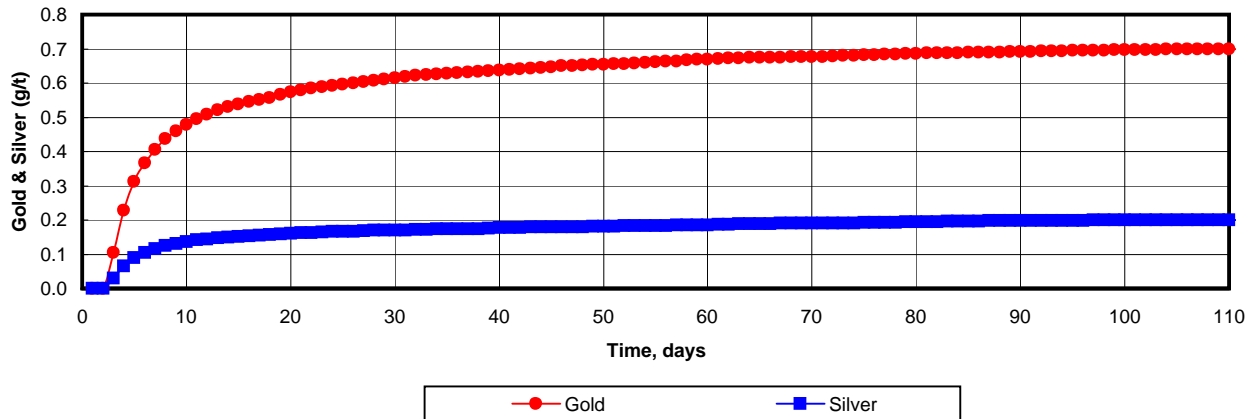
CUMULATIVE METAL EXTRACTION VERSUS TIME



CUMULATIVE METAL EXTRACTION VERSUS FEED SOLUTION (KI/t)



CUMULATIVE METAL EXTRACTION VERSUS TIME

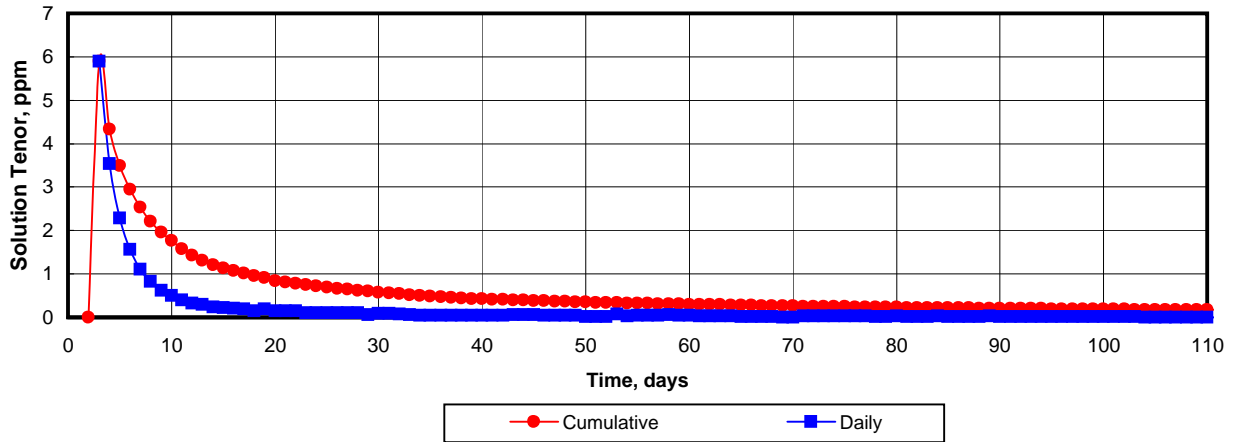


METCON Research

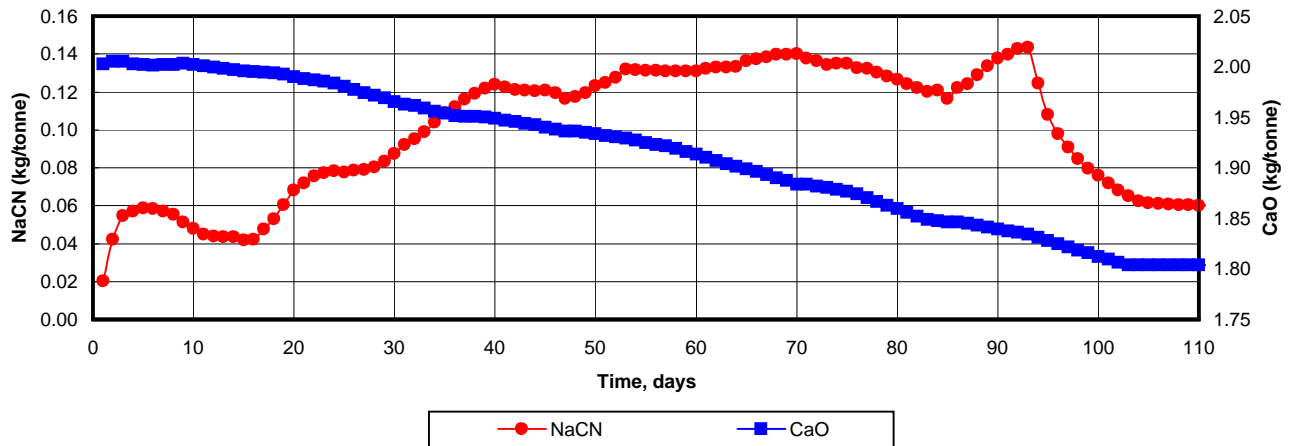
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Sample: PLMET-12A (Oxide)

Compania Minera Pitalla S.A. de C.V.
METCON Project No.: M-732-01

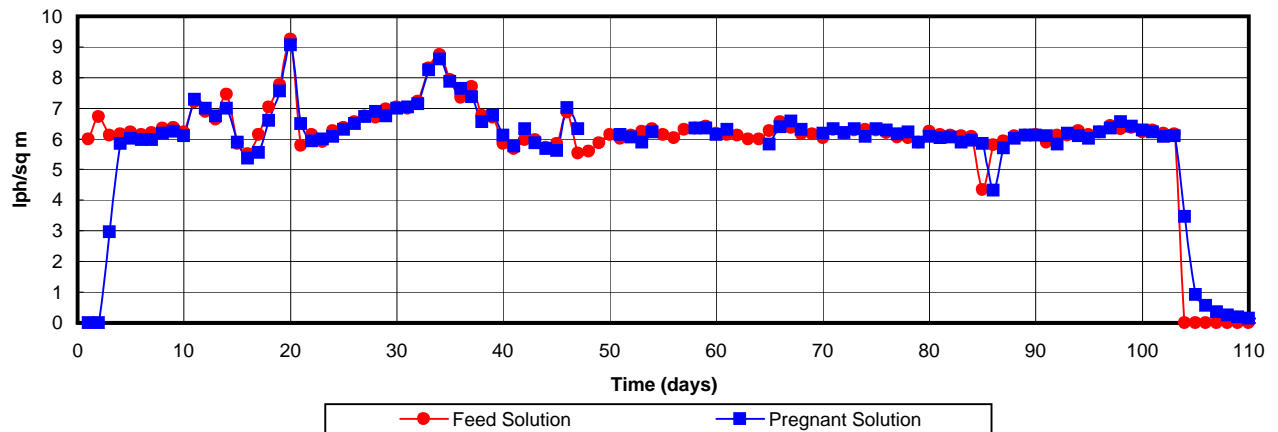
CONCENTRATION OF GOLD IN PREGNANT SOLUTION VERSUS TIME



CUMULATIVE REAGENT CONSUMPTION VERSUS TIME



FLOW RATE VERSUS TIME

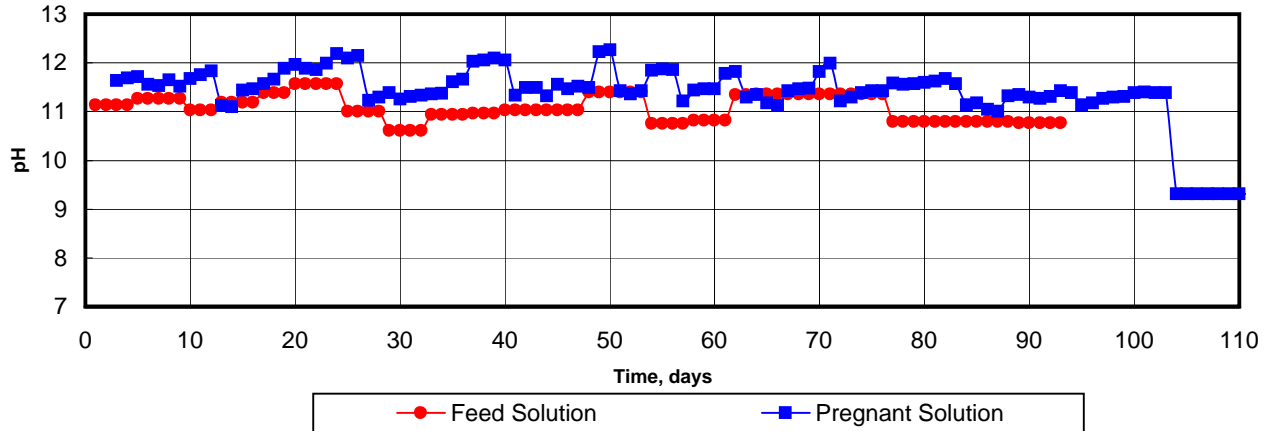


METCON Research

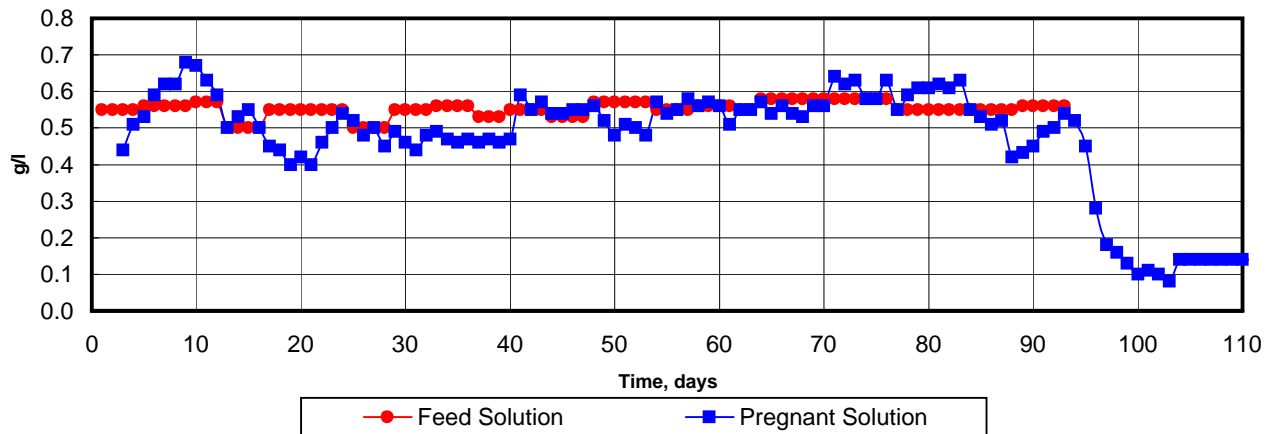
Test: CL-01
Sample: PLMET-12A (Oxide)

Compania Minera Pitalla S.A. de C.V.
METCON Project No.: M-732-01

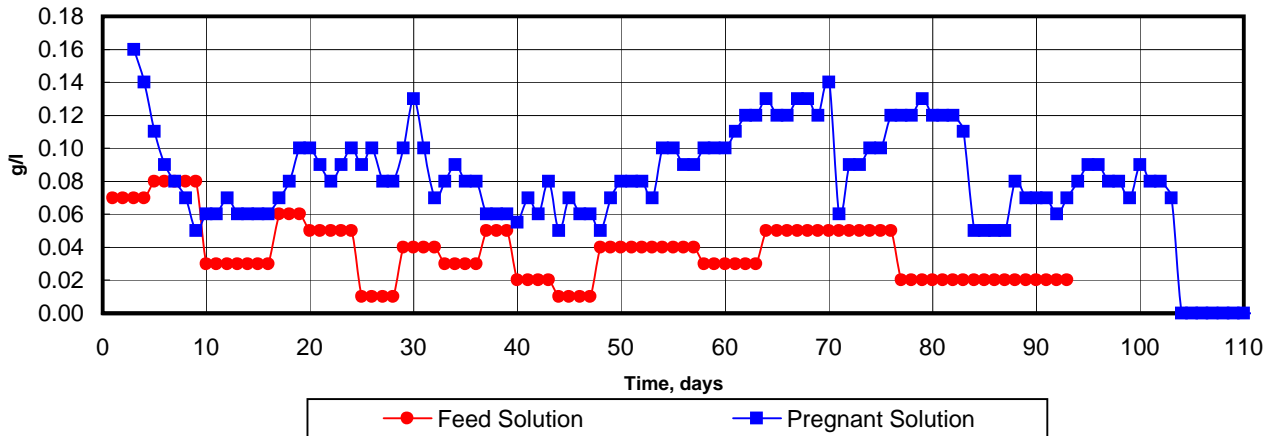
SOLUTION pH VERSUS TIME



SODIUM CYANIDE CONCENTRATION VERSUS TIME



CaO CONCENTRATION VERSUS TIME



METCON Research

TEST No. CL-01

PHYSICAL CHARACTERISTICS SHEET

CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01	TEST CONDITIONS	
		TEST START	10/23/08
SAMPLE	PLMET-12A (Oxide)	COLUMN SIZE	8 inch diameter by 12 feet tall
		CRUSH SIZE	80% Passing 3/8 inch
		LEACH SOLUTION	500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching	CURE DOSAGE	2.00 kg CaO/tonne of ore
		CURE CYCLE	0 days
		FLOWRATE	0.0025 gpm/sq. ft - 6.0 lph/sq.m

FLOWRATE (lph/sq m)			6.00
CURE STAGE (days)			None
COLUMN DIAMETER (mm)			203.20
ELEMENTS ANALYZED	Au	Ag	
HEAD ASSAYS (grams per tonne)	0.88	0.3	
LEACH RESIDUE ASSAYS (grams per tonne)	0.17	0.1	
SAMPLE PERCENT MOISTURE AS RECEIVED (Dry Basis)			0.00
SAMPLE WEIGHT BEFORE AGGLOMERATION (kg)			129.94
AGGLOMERATED SAMPLE WEIGHT (kg)			129.94
INITIAL SAMPLE PERCENT MOISTURE (including agglomeration water)			0.00 (Dry Basis)
INITIAL SAMPLE DRY WEIGHT (kg)			129.94
INITIAL SAMPLE HEIGHT (m)			2.54
INITIAL SAMPLE BULK DENSITY (kg/cu m)			1578 (Dry Basis)
FINAL SAMPLE HEIGHT (m)			2.53
RESIDUE WET WEIGHT (kg)			137.71
RESIDUE DRY WEIGHT (kg)			128.21
VOLUME DRAINED (l)			4.71
SUBSIDENCE (%)			0.44
MOISTURE UNDER LEACH (%)			11.08 (Dry Basis)
MOISTURE RETAINED (%)			7.41 (Dry Basis)
FINAL SAMPLE BULK DENSITY (kg/cu m)			1564 (Dry Basis)

METCON Research

TEST No. CL-01

Data Sheet

CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01	TEST CONDITIONS	
		TEST START	10/23/08
SAMPLE	PLMET-12A (Oxide)	COLUMN SIZE	8 inch diameter by 12 feet tall
		CRUSH SIZE	80% Passing 3/8 inch
		LEACH SOLUTION	500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching	CURE DOSAGE	2.00 kg CaO/tonne of ore
		CURE CYCLE	None Days
		FLOWRATE	6 lph/sq m (0.005 gpm/sq ft)

		Pregnant Leach Solution						Feed Solution							
Time (Days)	Volume (l)	Free		pH	Assays			Volume (l)	Free		pH	NaCN Add/Rem. (grams)	Assays		
		NaCN (g/l)	CaO (g/l)		Au (ppm)	Ag (ppm)	Cu (ppm)		NaCN (g/l)	CaO (g/l)			Au (ppm)	Ag (ppm)	Cu (ppm)
Leach 1								4.75	0.55	0.07	11.13				
2								5.23	0.55	0.07	11.13				
3	2.30	0.44	0.16	11.63	5.90	1.66		4.75	0.55	0.07	11.13				
4	4.55	0.51	0.14	11.69	3.54	1.02		4.80	0.55	0.07	11.13				
5	4.74	0.53	0.11	11.71	2.28	0.65		4.90	0.56	0.08	11.27				
6	4.62	0.59	0.09	11.55	1.56	0.42		4.75	0.56	0.08	11.27				
7	4.62	0.62	0.08	11.53	1.10	0.36		4.80	0.56	0.08	11.27				
8	4.78	0.62	0.07	11.65	0.83	0.23		4.90	0.56	0.08	11.27				
9	4.80	0.68	0.05	11.52	0.62	0.18		4.90	0.56	0.08	11.27				
10	4.82	0.67	0.06	11.67	0.50	0.14		4.92	0.57	0.03	11.03				
11	5.72	0.63	0.06	11.75	0.40	0.10		5.65	0.57	0.03	11.03				
12	5.34	0.59	0.07	11.83	0.32	0.07		5.25	0.57	0.03	11.03				
13	5.28	0.50	0.06	11.12	0.29	0.07		5.20	0.50	0.03	11.19				
14	5.44	0.53	0.06	11.09	0.24	0.07		5.80	0.50	0.03	11.19				
15	4.58	0.55	0.06	11.44	0.22	0.06		4.55	0.50	0.03	11.19				
16	4.20	0.50	0.06	11.47	0.21	0.05		4.30	0.50	0.03	11.19				
17	4.40	0.45	0.07	11.57	0.19	0.05		4.85	0.55	0.06	11.38				
18	5.02	0.44	0.08	11.66	0.15	0.06		5.35	0.55	0.06	11.38				
19	5.88	0.40	0.10	11.89	0.19	0.03		6.05	0.55	0.06	11.38				
20	7.10	0.42	0.10	11.96	0.14	0.03		7.24	0.55	0.05	11.57				
21	5.05	0.40	0.09	11.88	0.15	0.03		4.50	0.55	0.05	11.57				
22	4.56	0.46	0.08	11.86	0.15	0.03		4.73	0.55	0.05	11.57				
23	4.66	0.50	0.09	11.99	0.10	0.04		4.60	0.55	0.05	11.57				
24	4.95	0.54	0.10	12.18	0.10	0.03		5.12	0.55	0.05	11.57				
25	4.80	0.52	0.09	12.10	0.10	0.02		4.85	0.50	0.01	11.00				
26	5.25	0.48	0.10	12.15	0.11	0.02		5.30	0.50	0.01	11.00				
27	4.92	0.50	0.08	11.23	0.10	0.03		4.94	0.50	0.01	11.00				
28	5.34	0.45	0.08	11.29	0.10	0.03		5.20	0.50	0.01	11.00				
29	5.22	0.49	0.10	11.39	0.06	0.01		5.40	0.55	0.04	10.61				
30	5.46	0.46	0.13	11.25	0.09	0.02		5.50	0.55	0.04	10.61				

METCON Research

TEST No. CL-01

Data Sheet

CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01	TEST CONDITIONS	
		TEST START	10/23/08
SAMPLE	PLMET-12A (Oxide)	COLUMN SIZE	8 inch diameter by 12 feet tall
		CRUSH SIZE	80% Passing 3/8 inch
		LEACH SOLUTION	500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching	CURE DOSAGE	2.00 kg CaO/tonne of ore
		CURE CYCLE	None Days
		FLOWRATE	6 lph/sq m (0.005 gpm/sq ft)

Pregnant Leach Solution								Feed Solution							
Time (Days)	Volume (l)	Free		pH	Assays			Volume (l)	Free		pH	NaCN Add/Rem. (grams)	Assays		
		NaCN (g/l)	CaO (g/l)		Au (ppm)	Ag (ppm)	Cu (ppm)		NaCN (g/l)	CaO (g/l)			Au (ppm)	Ag (ppm)	Cu (ppm)
31	5.65	0.44	0.10	11.31	0.09	0.01		5.62	0.55	0.04	10.61				
32	5.50	0.48	0.07	11.33	0.08	0.01		5.56	0.55	0.04	10.61				
33	6.35	0.49	0.08	11.37	0.06	0.01		6.40	0.56	0.03	10.94				
34	6.70	0.47	0.09	11.61	0.04	0.02		6.80	0.56	0.03	10.94				
35	6.10	0.46	0.08	11.66	0.04	0.01		6.15	0.56	0.03	10.94				
36	5.92	0.47	0.08	12.03	0.04	0.01		5.70	0.56	0.03	10.94				
37	5.70	0.46	0.06	12.05	0.04	0.01		5.95	0.53	0.05	10.96				
38	5.25	0.47	0.06	12.09	0.04	0.01		5.42	0.53	0.05	10.96				
39	5.25	0.46	0.06	12.05	0.05	0.02		5.20	0.53	0.05	10.96				
40	4.75	0.47	0.06	11.33	0.05	0.03		4.55	0.55	0.02	11.03				
41	4.42	0.59	0.07	11.49	0.05	0.03		4.35	0.55	0.02	11.03				
42	4.88	0.55	0.06	11.49	0.05	0.02		4.60	0.55	0.02	11.03				
43	4.57	0.57	0.08	11.49	0.06	0.02		4.65	0.55	0.02	11.03				
44	4.47	0.54	0.05	11.32	0.06	0.01		4.50	0.53	0.01	11.03				
45	4.42	0.54	0.07	11.55	0.06	0.01		4.60	0.53	0.01	11.03				
46	5.46	0.55	0.06	11.47	0.05	0.01		5.34	0.53	0.01	11.03				
47	4.85	0.55	0.06	11.52	0.04	0.01		4.25	0.53	0.01	11.03				
48	4.18	0.56	0.05	11.49	0.04	0.01		4.35	0.57	0.04	11.40				
49	4.51	0.52	0.07	12.22	0.04	0.01		4.55	0.57	0.04	11.40				
50	4.66	0.48	0.08	12.27	0.02	0.02		4.75	0.57	0.04	11.40				
51	4.95	0.51	0.08	11.42	0.02	0.02		4.85	0.57	0.04	11.40				
52	4.60	0.50	0.08	11.36	0.01	0.02		4.65	0.57	0.04	11.40				
53	4.58	0.48	0.07	11.43	0.07	0.01		4.85	0.57	0.04	11.40				
54	4.82	0.57	0.10	11.84	0.03	0.01		4.90	0.55	0.04	10.75				
55	4.92	0.54	0.10	11.87	0.05	0.01		4.80	0.55	0.04	10.75				
56	4.68	0.55	0.09	11.86	0.05	0.01		4.65	0.55	0.04	10.75				
57	4.70	0.58	0.09	11.22	0.04	0.01		4.90	0.55	0.04	10.75				
58	4.95	0.56	0.10	11.44	0.06	0.02		4.95	0.56	0.03	10.82				
59	4.95	0.57	0.10	11.46	0.05	0.01		5.00	0.56	0.03	10.82				
60	4.83	0.56	0.10	11.46	0.04	0.01		4.86	0.56	0.03	10.82				

METCON Research

TEST No. CL-01

Data Sheet

CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01	TEST CONDITIONS	
		TEST START	10/23/08
SAMPLE	PLMET-12A (Oxide)	COLUMN SIZE	8 inch diameter by 12 feet tall
		CRUSH SIZE	80% Passing 3/8 inch
		LEACH SOLUTION	500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching	CURE DOSAGE	2.00 kg CaO/tonne of ore
		CURE CYCLE	None Days
		FLOWRATE	6 lph/sq m (0.005 gpm/sq ft)

		Pregnant Leach Solution						Feed Solution							
Time (Days)	Volume (l)	Free		pH	Assays			Volume (l)	Free		pH	NaCN Add/Rem. (grams)	Assays		
		NaCN (g/l)	CaO (g/l)		Au (ppm)	Ag (ppm)	Cu (ppm)		NaCN (g/l)	CaO (g/l)			Au (ppm)	Ag (ppm)	Cu (ppm)
61	4.84	0.51	0.11	11.78	0.03	0.03		4.70	0.56	0.03	10.82				
62	4.60	0.55	0.12	11.82	0.03	0.03		4.80	0.55	0.03	11.35				
63	4.66	0.55	0.12	11.29	0.03	0.03		4.61	0.55	0.03	11.35				
64	4.70	0.57	0.13	11.35	0.03	0.01		4.70	0.58	0.05	11.36				
65	4.56	0.54	0.12	11.18	0.01	0.01		4.90	0.58	0.05	11.36				
66	4.98	0.56	0.12	11.12	0.01	0.01		5.10	0.58	0.05	11.36				
67	5.12	0.54	0.13	11.42	0.01	0.01		4.95	0.58	0.05	11.36				
68	4.90	0.53	0.13	11.46	0.01	0.01		4.80	0.58	0.05	11.36				
69	4.90	0.56	0.12	11.48	0.01	0.01		4.76	0.58	0.05	11.36				
70	4.81	0.56	0.14	11.82	0.01	0.01		4.70	0.58	0.05	11.36				
71	4.91	0.64	0.06	11.99	0.03	0.01		4.90	0.58	0.05	11.36				
72	4.86	0.62	0.09	11.22	0.03	0.01		4.85	0.58	0.05	11.36				
73	4.94	0.63	0.09	11.29	0.03	0.01		4.90	0.58	0.05	11.36				
74	4.68	0.58	0.10	11.39	0.03	0.01		4.85	0.58	0.05	11.36				
75	4.90	0.58	0.10	11.42	0.03	0.01		4.88	0.58	0.05	11.36				
76	4.90	0.63	0.12	11.43	0.03	0.02		4.84	0.58	0.05	11.36				
77	4.78	0.55	0.12	11.58	0.03	0.01		4.70	0.55	0.02	10.80				
78	4.84	0.59	0.12	11.55	0.02	0.01		4.70	0.55	0.02	10.80				
79	4.60	0.61	0.13	11.57	0.02	0.01		4.60	0.55	0.02	10.80				
80	4.72	0.61	0.12	11.59	0.03	0.01		4.85	0.55	0.02	10.80				
81	4.70	0.62	0.12	11.62	0.01	0.01		4.78	0.55	0.02	10.80				
82	4.72	0.61	0.12	11.68	0.01	0.02		4.76	0.55	0.02	10.80				
83	4.58	0.63	0.11	11.57	0.01	0.01		4.74	0.55	0.02	10.80				
84	4.62	0.55	0.05	11.14	0.03	0.02		4.73	0.55	0.02	10.80				
85	4.58	0.53	0.05	11.17	0.01	0.01		3.40	0.55	0.02	10.80				
86	3.35	0.51	0.05	11.04	0.01	0.01		4.50	0.55	0.02	10.80				
87	4.42	0.52	0.05	11.01	0.01	0.01		4.60	0.55	0.02	10.80				
88	4.68	0.42	0.08	11.32	0.01	0.01		4.75	0.55	0.02	10.80				
89	4.76	0.43	0.07	11.34	0.03	0.01		4.76	0.56	0.02	10.77				
90	4.76	0.45	0.07	11.29	0.01	0.01		4.77	0.56	0.02	10.77				

METCON Research					
TEST No.	CL-01				
METALLURGICAL RESULTS					
CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01		TEST CONDITIONS		
			TEST START	10/23/08	
SAMPLE	PLMET-12A (Oxide)		COLUMN SIZE	8 inch diameter by 12 feet tall	
			CRUSH SIZE	80% Passing 3/8 inch	
			LEACH SOLUTION	500 ppm NaCN	
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching		CURE DOSAGE	2.00 kg CaO/tonne of ore	
			CURE CYCLE	None Days	
			FLOWRATE	6.00 lph/sq m (0.005 gpm/sq ft)	

Time (Days)	Feed Solution		Cumulative										
	Application Flow Rate		Extraction (g/tonne)			Solution Grade (ppm)			Extraction (%)			Consumption	
	(lph/sq m)	(KI/t)	Au	Ag		Au	Ag		Au	Ag		NaCN (kg/tonne)	CaO (kg/tonne)
													2.00
Leach 1	6.00	0.04										0.02	2.00
2	6.72	0.08										0.04	2.01
3	6.12	0.11	0.10	0.03		5.90	1.66		12.06	9.40		0.05	2.01
4	6.16	0.15	0.23	0.07		4.33	1.23		26.38	20.82		0.06	2.00
5	6.22	0.19	0.31	0.09		3.49	1.00		35.98	28.40		0.06	2.00
6	6.13	0.22	0.37	0.10		2.94	0.83		42.39	33.17		0.06	2.00
7	6.20	0.26	0.41	0.12		2.53	0.73		46.91	37.27		0.06	2.00
8	6.34	0.30	0.44	0.13		2.22	0.63		50.43	39.97		0.06	2.00
9	6.38	0.34	0.46	0.13		1.96	0.56		53.08	42.10		0.05	2.00
10	6.21	0.37	0.48	0.14		1.76	0.50		55.22	43.76		0.05	2.00
11	7.20	0.42	0.50	0.14		1.57	0.45		57.25	45.17		0.05	2.00
12	6.88	0.46	0.51	0.14		1.43	0.40		58.77	46.09		0.04	2.00
13	6.64	0.50	0.52	0.15		1.31	0.37		60.13	47.00		0.04	2.00
14	7.46	0.54	0.53	0.15		1.21	0.34		61.29	47.93		0.04	2.00
15	5.85	0.58	0.54	0.15		1.14	0.32		62.19	48.61		0.04	2.00
16	5.50	0.61	0.55	0.15		1.08	0.30		62.97	49.13		0.04	1.99
17	6.13	0.65	0.55	0.16		1.02	0.29		63.72	49.67		0.05	1.99
18	7.03	0.69	0.56	0.16		0.96	0.27		64.39	50.41		0.05	1.99
19	7.77	0.74	0.57	0.16		0.91	0.25		65.38	50.84		0.06	1.99
20	9.24	0.79	0.57	0.16		0.85	0.24		66.26	51.37		0.07	1.99
21	5.79	0.83	0.58	0.16		0.81	0.23		66.94	51.74		0.07	1.99
22	6.14	0.86	0.58	0.16		0.78	0.22		67.54	52.08		0.08	1.99
23	5.91	0.90	0.59	0.16		0.75	0.21		67.96	52.53		0.08	1.99
24	6.27	0.94	0.59	0.17		0.72	0.20		68.40	52.90		0.08	1.98
25	6.38	0.98	0.60	0.17		0.69	0.19		68.83	53.14		0.08	1.98
26	6.56	1.02	0.60	0.17		0.66	0.18		69.34	53.39		0.08	1.98
27	6.75	1.05	0.60	0.17		0.64	0.18		69.78	53.76		0.08	1.97
28	6.70	1.09	0.61	0.17		0.62	0.17		70.25	54.15		0.08	1.97
29	6.98	1.14	0.61	0.17		0.60	0.17		70.53	54.28		0.08	1.97
30	7.04	1.18	0.61	0.17		0.58	0.16		70.97	54.55		0.09	1.97

METCON Research			
TEST No.	CL-01		
METALLURGICAL RESULTS			
CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01		TEST CONDITIONS
			TEST START
SAMPLE	PLMET-12A (Oxide)		COLUMN SIZE
			CRUSH SIZE
			LEACH SOLUTION
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching		CURE DOSAGE
			CURE CYCLE
			FLOWRATE
		10/23/08	
		8 inch diameter by 12 feet tall	
		80% Passing 3/8 inch	
		500 ppm NaCN	
		2.00 kg CaO/tonne of ore	
		None Days	
		6.00 lph/sq m (0.005 gpm/sq ft)	

Time (Days)	Feed Solution		Cumulative										
	Application Flow Rate		Extraction (g/tonne)			Solution Grade (ppm)			Extraction (%)			Consumption	
	(lph/sq m)	(KI/t)	Au	Ag		Au	Ag		Au	Ag		NaCN (kg/tonne)	CaO (kg/tonne)
31	6.99	1.22	0.62	0.17		0.56	0.15		71.42	54.69		0.09	1.96
32	7.22	1.26	0.62	0.17		0.54	0.15		71.81	54.82		0.10	1.96
33	8.31	1.31	0.62	0.17		0.52	0.14		72.15	54.98		0.10	1.96
34	8.74	1.37	0.63	0.17		0.50	0.14		72.39	55.31		0.10	1.96
35	7.93	1.41	0.63	0.17		0.48	0.13		72.60	55.46		0.11	1.95
36	7.35	1.46	0.63	0.17		0.47	0.13		72.81	55.61		0.11	1.95
37	7.70	1.50	0.63	0.17		0.46	0.13		73.02	55.75		0.12	1.95
38	6.77	1.54	0.63	0.17		0.44	0.12		73.20	55.88		0.12	1.95
39	6.70	1.58	0.64	0.18		0.43	0.12		73.44	56.13		0.12	1.95
40	5.85	1.62	0.64	0.18		0.42	0.12		73.65	56.48		0.12	1.95
41	5.68	1.65	0.64	0.18		0.42	0.12		73.84	56.81		0.12	1.95
42	5.97	1.69	0.64	0.18		0.41	0.11		74.06	57.05		0.12	1.95
43	5.97	1.72	0.64	0.18		0.40	0.11		74.30	57.28		0.12	1.94
44	5.71	1.76	0.65	0.18		0.39	0.11		74.54	57.39		0.12	1.94
45	5.85	1.79	0.65	0.18		0.39	0.11		74.78	57.49		0.12	1.94
46	6.86	1.84	0.65	0.18		0.38	0.10		75.02	57.56		0.12	1.94
47	5.54	1.87	0.65	0.18		0.37	0.10		75.19	57.62		0.12	1.94
48	5.59	1.90	0.65	0.18		0.36	0.10		75.34	57.67		0.12	1.94
49	5.87	1.94	0.65	0.18		0.36	0.10		75.50	57.73		0.12	1.93
50	6.13	1.97	0.65	0.18		0.35	0.10		75.58	57.96		0.12	1.93
51	6.01	2.01	0.66	0.18		0.34	0.10		75.67	58.20		0.12	1.93
52	6.11	2.05	0.66	0.18		0.34	0.09		75.71	58.43		0.13	1.93
53	6.24	2.08	0.66	0.18		0.33	0.09		76.00	58.54		0.13	1.93
54	6.32	2.12	0.66	0.18		0.33	0.09		76.13	58.60		0.13	1.93
55	6.15	2.16	0.66	0.18		0.32	0.09		76.35	58.72		0.13	1.92
56	6.03	2.19	0.66	0.18		0.32	0.09		76.55	58.84		0.13	1.92
57	6.31	2.23	0.66	0.18		0.31	0.09		76.72	58.95		0.13	1.92
58	6.36	2.27	0.67	0.19		0.31	0.09		76.98	59.20		0.13	1.92
59	6.41	2.31	0.67	0.19		0.30	0.08		77.20	59.26		0.13	1.92
60	6.18	2.35	0.67	0.19		0.30	0.08		77.38	59.32		0.13	1.91

METCON Research			
TEST No.	CL-01		
METALLURGICAL RESULTS			
CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01		TEST CONDITIONS
			TEST START
SAMPLE	PLMET-12A (Oxide)		COLUMN SIZE
			CRUSH SIZE
			LEACH SOLUTION
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching		CURE DOSAGE
			CURE CYCLE
			FLOWRATE
			10/23/08
			8 inch diameter by 12 feet tall
			80% Passing 3/8 inch
			500 ppm NaCN
			2.00 kg CaO/tonne of ore
			None Days
			6.00 lph/sq m (0.005 gpm/sq ft)

Time (Days)	Feed Solution		Cumulative										
	Application Flow Rate		Extraction (g/tonne)			Solution Grade (ppm)			Extraction (%)			Consumption	
	(lph/sq m)	(KI/t)	Au	Ag		Au	Ag		Au	Ag		NaCN (kg/tonne)	CaO (kg/tonne)
61	6.13	2.38	0.67	0.19		0.30	0.08		77.51	59.67		0.13	1.91
62	6.12	2.42	0.67	0.19		0.29	0.08		77.63	60.01		0.13	1.91
63	5.99	2.45	0.67	0.19		0.29	0.08		77.75	60.36		0.13	1.90
64	5.99	2.49	0.67	0.19		0.28	0.08		77.88	60.47		0.13	1.90
65	6.27	2.53	0.67	0.19		0.28	0.08		77.92	60.53		0.14	1.90
66	6.55	2.57	0.68	0.19		0.28	0.08		77.96	60.65		0.14	1.90
67	6.36	2.61	0.68	0.19		0.27	0.08		78.01	60.71		0.14	1.89
68	6.17	2.64	0.68	0.19		0.27	0.08		78.05	60.83		0.14	1.89
69	6.15	2.68	0.68	0.19		0.26	0.07		78.07	60.95		0.14	1.89
70	6.03	2.72	0.68	0.19		0.26	0.07		78.09	61.01		0.14	1.88
71	6.30	2.75	0.68	0.19		0.26	0.07		78.23	61.07		0.14	1.88
72	6.19	2.79	0.68	0.19		0.25	0.07		78.36	61.13		0.14	1.88
73	6.28	2.83	0.68	0.19		0.25	0.07		78.49	61.20		0.13	1.88
74	6.30	2.87	0.68	0.19		0.25	0.07		78.61	61.25		0.13	1.88
75	6.29	2.90	0.68	0.19		0.24	0.07		78.74	61.37		0.13	1.88
76	6.21	2.94	0.68	0.19		0.24	0.07		78.87	61.61		0.13	1.87
77	6.05	2.98	0.68	0.19		0.24	0.07		79.00	61.73		0.13	1.87
78	6.04	3.01	0.68	0.19		0.24	0.07		79.09	61.85		0.13	1.87
79	5.89	3.05	0.69	0.19		0.23	0.07		79.17	61.96		0.13	1.86
80	6.24	3.09	0.69	0.19		0.23	0.07		79.29	62.08		0.13	1.86
81	6.14	3.12	0.69	0.19		0.23	0.06		79.34	62.20		0.12	1.86
82	6.12	3.16	0.69	0.20		0.23	0.06		79.38	62.43		0.12	1.85
83	6.09	3.19	0.69	0.20		0.22	0.06		79.42	62.54		0.12	1.85
84	6.08	3.23	0.69	0.20		0.22	0.06		79.54	62.77		0.12	1.85
85	4.34	3.26	0.69	0.20		0.22	0.06		79.58	62.88		0.12	1.85
86	5.79	3.29	0.69	0.20		0.22	0.06		79.61	62.96		0.12	1.85
87	5.94	3.33	0.69	0.20		0.21	0.06		79.65	63.07		0.12	1.84
88	6.10	3.36	0.69	0.20		0.21	0.06		79.69	63.19		0.13	1.84
89	6.12	3.40	0.69	0.20		0.21	0.06		79.82	63.25		0.13	1.84
90	6.14	3.44	0.69	0.20		0.21	0.06		79.86	63.30		0.14	1.84

METCON Research

TEST No.	CL-01		
METALLURGICAL RESULTS			
CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01		TEST CONDITIONS
			TEST START: 10/23/08
SAMPLE	PLMET-12A (Oxide)		COLUMN SIZE: 8 inch diameter by 12 feet tall
			CRUSH SIZE: 80% Passing 3/8 inch
			LEACH SOLUTION: 500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching		CURE DOSAGE: 2.00 kg CaO/tonne of ore
			CURE CYCLE: None Days
			FLOWRATE: 6.00 lph/sq m (0.005 gpm/sq ft)

Time (Days)	Feed Solution		Cumulative										
	Application Flow Rate		Extraction (g/tonne)			Solution Grade (ppm)			Extraction (%)			Consumption	
	(lph/sq m)	(KI/t)	Au	Ag		Au	Ag		Au	Ag		NaCN (kg/tonne)	CaO (kg/tonne)
91	5.88	3.47	0.69	0.20		0.21	0.06		79.90	63.36		0.14	1.84
92	6.11	3.51	0.69	0.20		0.20	0.06		79.98	63.42		0.14	1.84
93	6.12	3.55	0.69	0.20		0.20	0.06		80.07	63.48		0.14	1.83
Wash 94	6.25	3.58	0.69	0.20		0.20	0.06		80.15	63.54		0.12	1.83
Wash 95	6.15	3.62	0.69	0.20		0.20	0.06		80.24	63.59		0.11	1.83
Wash 96	6.22	3.66	0.70	0.20		0.20	0.06		80.28	63.65		0.10	1.82
Wash 97	6.42	3.70	0.70	0.20		0.19	0.06		80.37	63.71		0.09	1.82
Wash 98	6.33	3.73	0.70	0.20		0.19	0.06		80.41	63.78		0.08	1.82
Wash 99	6.36	3.77	0.70	0.20		0.19	0.05		80.46	63.84		0.08	1.82
Wash 100	6.23	3.81	0.70	0.20		0.19	0.05		80.50	63.90		0.08	1.81
Wash 101	6.28	3.85	0.70	0.20		0.19	0.05		80.54	63.96		0.07	1.81
Wash 102	6.18	3.88	0.70	0.20		0.19	0.05		80.59	64.02		0.07	1.81
Wash 103	6.15	3.92	0.70	0.20		0.18	0.05		80.63	64.07		0.07	1.80
Drain 104		3.92	0.70	0.20		0.18	0.05		80.64	64.11		0.06	1.80
Drain 105		3.92	0.70	0.20		0.18	0.05		80.64	64.12		0.06	1.80
Drain 106		3.92	0.70	0.20		0.18	0.05		80.65	64.12		0.06	1.80
Drain 107		3.92	0.70	0.20		0.18	0.05		80.65	64.13		0.06	1.80
Drain 108		3.92	0.70	0.20		0.18	0.05		80.65	64.13		0.06	1.80
Drain 109		3.92	0.70	0.20		0.18	0.05		80.65	64.13		0.06	1.80
Drain 110		3.92	0.70	0.20		0.18	0.05		80.65	64.13		0.06	1.80
Drain 111		3.92	0.70	0.20		0.18	0.05		80.65	64.13		0.06	1.80

METCON Research
7701 BUSINESS PARK DRIVE
TUCSON , ARIZONA 85743

SCREEN ANALYSIS RESULTS
Compania Minera Pitalla S.A. de C.V.
METCON Project No.: M-732-01

SCREEN ANALYSIS			Sample: Column Leach Head CL-01 PLMET-12A (Oxide) 80% Passing 3/8 inch												
NOMINAL OPENINGS			Sample Weights (kg)	Weight Distribution (%)	Cumulative Weight Retained (%)	Gold (Average)			Gold (1)			Gold (2)			
Millimeters	Inches	Tyler Mesh				Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	
9.5	0.374	3/8	25.99	20.00	20.00	0.93	0.186	21.10	0.66	0.132	15.25	1.20	0.240	26.75	
6.30	0.248	1/4	29.06	22.36	42.37	0.70	0.157	17.76	0.76	0.170	19.63	0.64	0.143	15.95	
3.35	0.132	6	26.58	20.46	62.82	0.73	0.148	16.82	0.73	0.149	17.25	0.72	0.147	16.41	
1.70	0.067	10	17.51	13.48	76.30	0.82	0.110	12.46	0.79	0.106	12.29	0.84	0.113	12.62	
M I N U S		10	30.80	23.70	100.00	1.19	0.281	31.86	1.30	0.308	35.59	1.07	0.254	28.27	
TOTALS			129.94	100.00				100.00			100.00			100.00	
CALCULATED ASSAY						0.88			0.87			0.90			
COMPOSITE ASSAY (Pulv.)						0.72			0.75			0.68			

SCREEN ANALYSIS			Sample: Column Leach Residue CL-01 PLMET-12A (Oxide)												
NOMINAL OPENINGS			Sample Weights (kg)	Weight Distribution (%)	Cumulative Weight Retained (%)	Gold (Average)			Gold (1)			Gold (2)			
Millimeters	Inches	Tyler Mesh				Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	
9.5	0.374	3/8	21.47	16.75	16.75	0.17	0.028	16.77	0.16	0.027	13.71	0.18	0.030	20.90	
6.30	0.248	1/4	28.44	22.18	38.93	0.19	0.041	24.17	0.22	0.049	24.98	0.15	0.033	23.07	
3.35	0.132	6	25.90	20.20	59.13	0.29	0.059	34.50	0.39	0.079	40.32	0.19	0.038	26.61	
1.70	0.067	10	18.05	14.08	73.21	0.13	0.018	10.36	0.12	0.017	8.65	0.13	0.018	12.69	
M I N U S		10	34.35	26.79	100.00	0.09	0.024	14.20	0.09	0.024	12.34	0.09	0.024	16.72	
TOTALS			128.21	100.00				100.00			100.00			100.00	
CALCULATED ASSAY						0.17			0.20			0.14			
COMPOSITE ASSAY (Pulv.)						0.15			0.16			0.14			

METCON Research
 7701 BUSINESS PARK DRIVE
 TUCSON , ARIZONA 85743

SCREEN ANALYSIS RESULTS
 Compania Minera Pitalla S.A. de C.V.
 METCON Project No.: M-732-01

SCREEN ANALYSIS			Sample: Column Leach Head CL-01 PLMET-12A (Oxide) 80% Passing 3/8 inch												
NOMINAL OPENINGS			Sample Weights (kg)	Weight Distribution (%)	Cumulative Weight Retained (%)	Silver (Average)			Silver (1)			Silver (2)			
Millimeters	Inches	Tyler Mesh				Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	
9.5	0.374	3/8	25.99	20.00	20.00	0.18	0.035	11.87	0.05	0.010	3.63	0.30	0.060	19.06	
6.30	0.248	1/4	29.06	22.36	42.37	0.13	0.028	9.48	0.05	0.011	4.06	0.20	0.045	14.21	
3.35	0.132	6	26.58	20.46	62.82	0.13	0.026	8.67	0.05	0.010	3.72	0.20	0.041	13.00	
1.70	0.067	10	17.51	13.48	76.30	0.13	0.017	5.71	0.05	0.007	2.45	0.20	0.027	8.56	
M I N U S		10	30.80	23.70	100.00	0.80	0.190	64.28	1.00	0.237	86.14	0.60	0.142	45.18	
TOTALS			129.94	100.00				100.00			100.00			100.00	
CALCULATED ASSAY						0.29			0.28			0.31			
COMPOSITE ASSAY (Pulv.)						0.18			0.05			0.30			

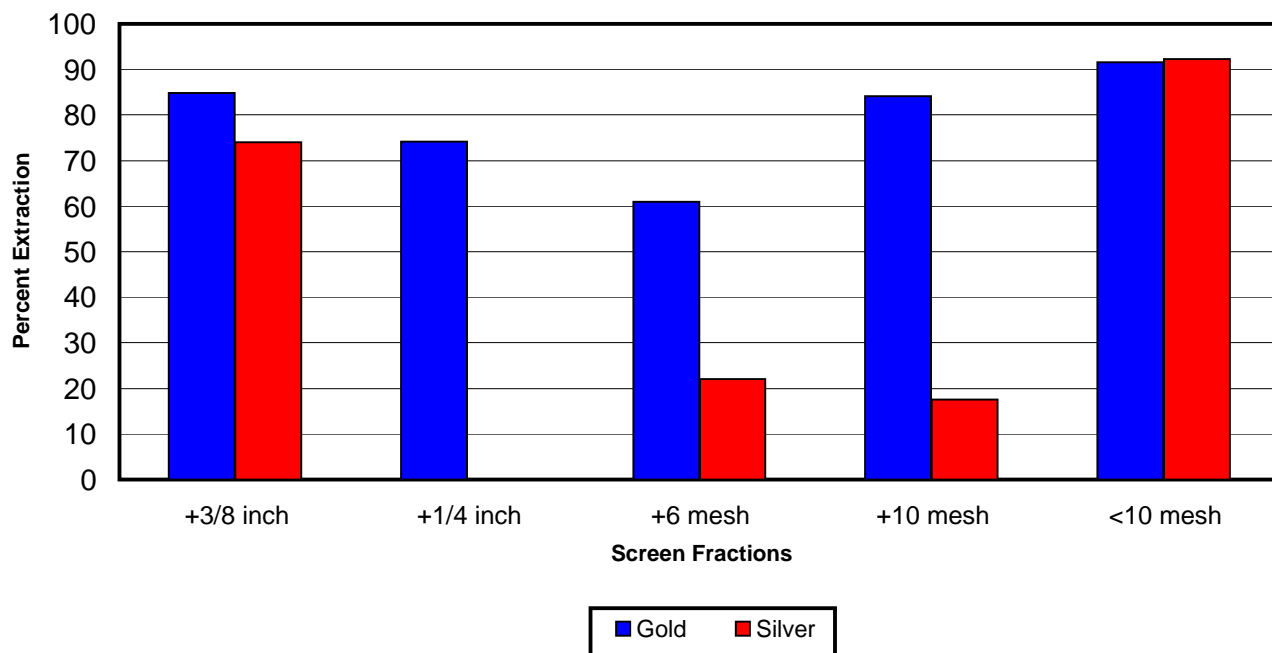
SCREEN ANALYSIS			Sample: Column Leach Residue CL-01 PLMET-12A (Oxide)												
NOMINAL OPENINGS			Sample Weights (kg)	Weight Distribution (%)	Cumulative Weight Retained (%)	Silver (Average)			Silver (1)			Silver (2)			
Millimeters	Inches	Tyler Mesh				Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	
9.5	0.374	3/8	21.47	16.75	16.75	0.06	0.009	8.10	0.01	0.002	1.59	0.10	0.017	13.71	
6.30	0.248	1/4	28.44	22.18	38.93	0.25	0.055	48.78	0.30	0.067	63.27	0.20	0.044	36.31	
3.35	0.132	6	25.90	20.20	59.13	0.10	0.020	17.77	0.10	0.020	19.21	0.10	0.020	16.53	
1.70	0.067	10	18.05	14.08	73.21	0.10	0.014	12.38	0.10	0.014	13.39	0.10	0.014	11.52	
M I N U S		10	34.35	26.79	100.00	0.06	0.015	12.96	0.01	0.003	2.55	0.10	0.027	21.93	
TOTALS			128.21	100.00				100.00			100.00			100.00	
CALCULATED ASSAY						0.11			0.11			0.12			
COMPOSITE ASSAY (Pulv.)						0.11			0.01			0.20			

METCON Research

Test: CL-01
Sample: PLMET-12A (Oxide)

Compania Minera Pitalla S.A. de C.V.
METCON Project No.: M-732-01

Metal Extraction by Screen Fraction



Test No. : CL-01

Screen Fraction	Head			Leach Residue			Percent Extraction		Degradation Index (%)
	Weight (kg)	Assays		Weight (kg)	Assays		Au	Ag	
		Au, ppm	Ag, ppm		Au, ppm	Ag, ppm			
+3/8 inch	25.99	0.93	0.18	21.47	0.17	0.06	84.90	74.04	17.39
+1/4 inch	29.06	0.70	0.13	28.44	0.19	0.25	74.14	-95.73	2.13
+6 mesh	26.58	0.73	0.13	25.90	0.29	0.10	61.02	22.05	2.56
+10 mesh	17.51	0.82	0.13	18.05	0.13	0.10	84.19	17.53	-3.08
<10 mesh	30.80	1.19	0.80	34.35	0.09	0.06	91.53	92.33	-11.53
Total	129.94	0.88	0.29	128.21	0.17	0.11	81.00	61.98	

APPENDIX 4

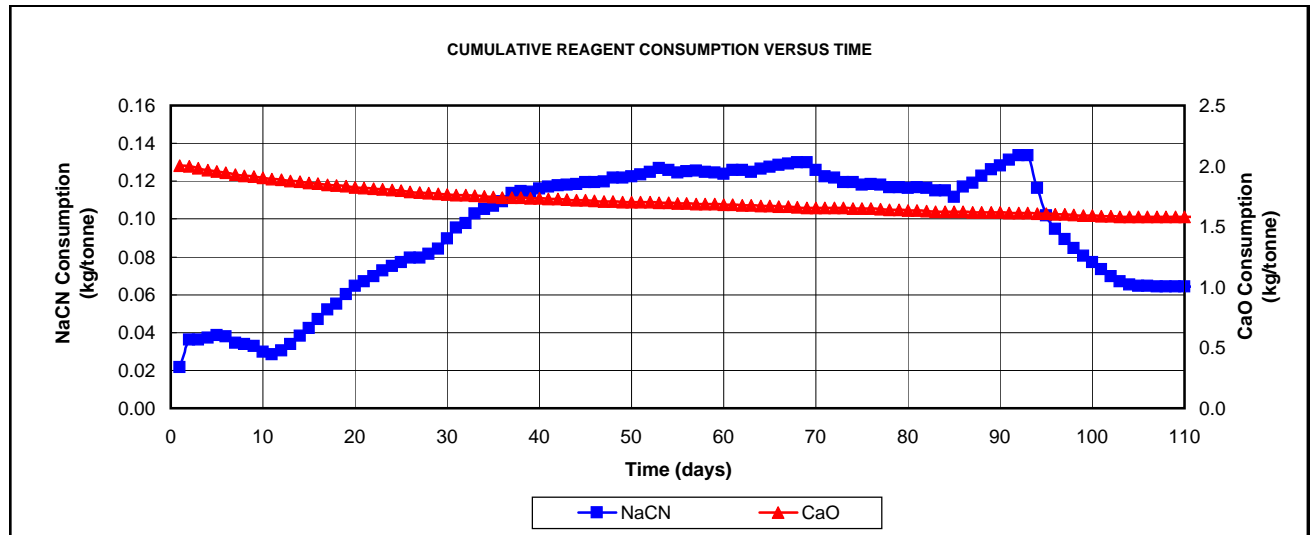
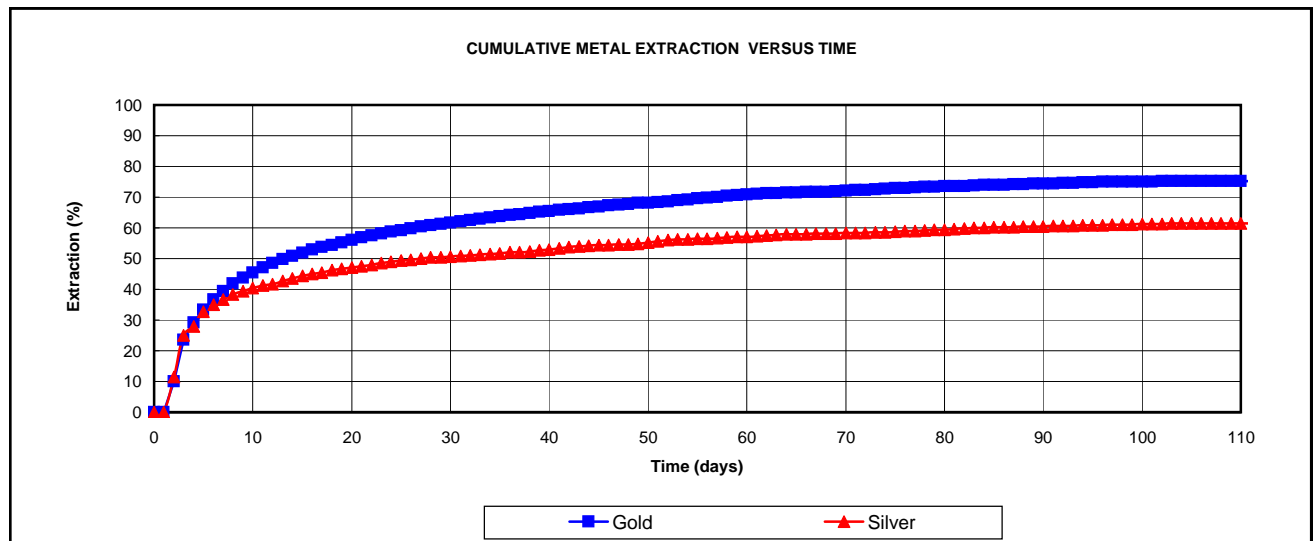
Oxide Composite Column Leach Test at P₈₀ 1-1/2 inch Crush Size (CL-02)

METCON Project No.: M-732-01
 Compania Minera Pitalla S.A. de C.V.

TEST No.: CL-02 CRUSH SIZE : 80% Passing 1-1/2 inch
 SAMPLE : PLMET-12A (Oxide) CURE DOSAGE : 2.00 kg of CaO/tonne of sample

Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching Cure Days : None
Leach Days : 93
Wash Days : 10
Drain Days : 8
Total Cycle Days : 111

PRODUCTS	Volume (liters)	Weight (kg)	Cumulative												
			Assay (g/tonne)			Contents (mg)			Percent Extraction			Consumption			
			Au	Ag		Au	Ag		Au	Ag		NaCN (kg/tonne)	CaO (kg/tonne)		
Feed Solution	492.33														
Pregnant Solution	481.89		0.16	0.05		79.50	22.81				75.15	61.39		0.06	1.58
Leach Residue		128.49	0.20	0.11		26.29	14.34								
CALCULATIONS															
Metal Extracted			0.61	0.18		79.50	22.81								
Calculated Head			0.81	0.29		105.79	37.15								
Assay Head		130.19	0.96	0.18		125.01	24.07								

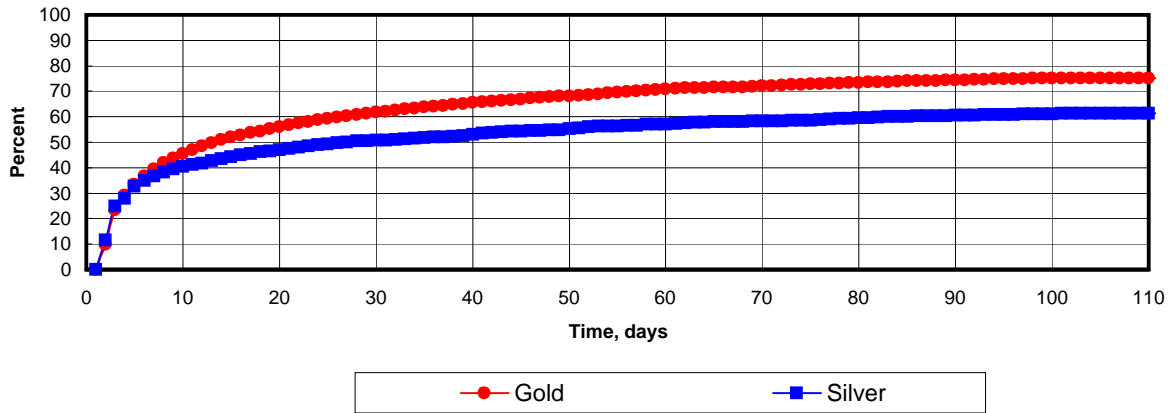


METCON Research

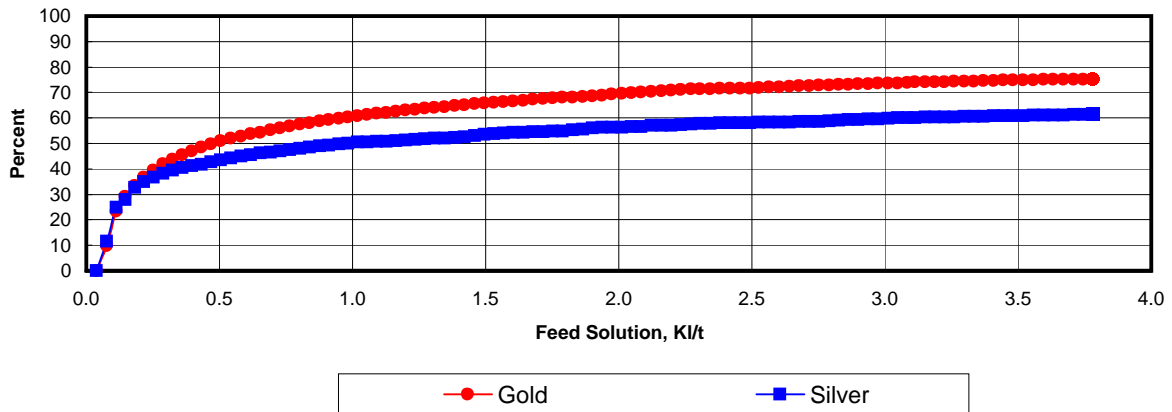
Test: CL-02
Sample: PLMET-12A (Oxide)

Compania Minera Pitalla S.A. de C.V.
METCON Project No.: M-732-01

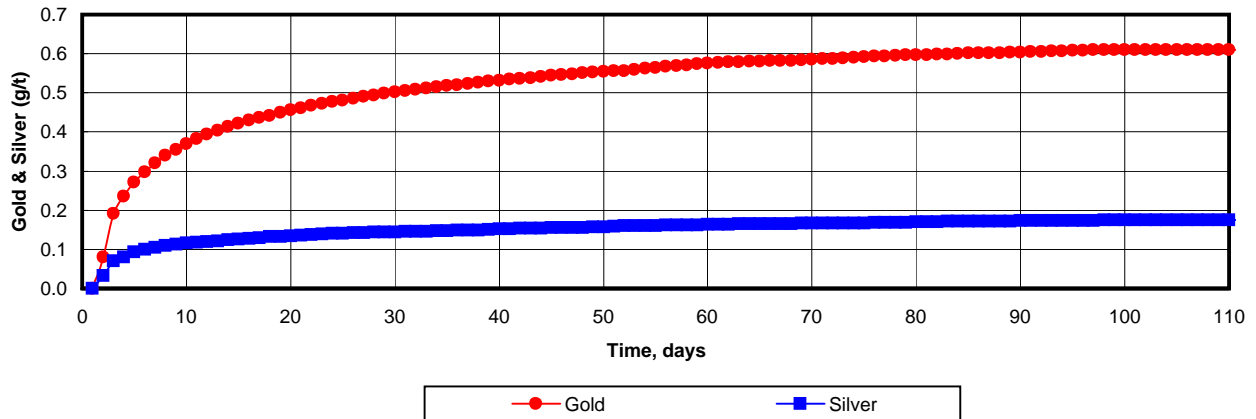
CUMULATIVE METAL EXTRACTION VERSUS TIME



CUMULATIVE METAL EXTRACTION VERSUS FEED SOLUTION (KI/t)



CUMULATIVE METAL EXTRACTION VERSUS TIME

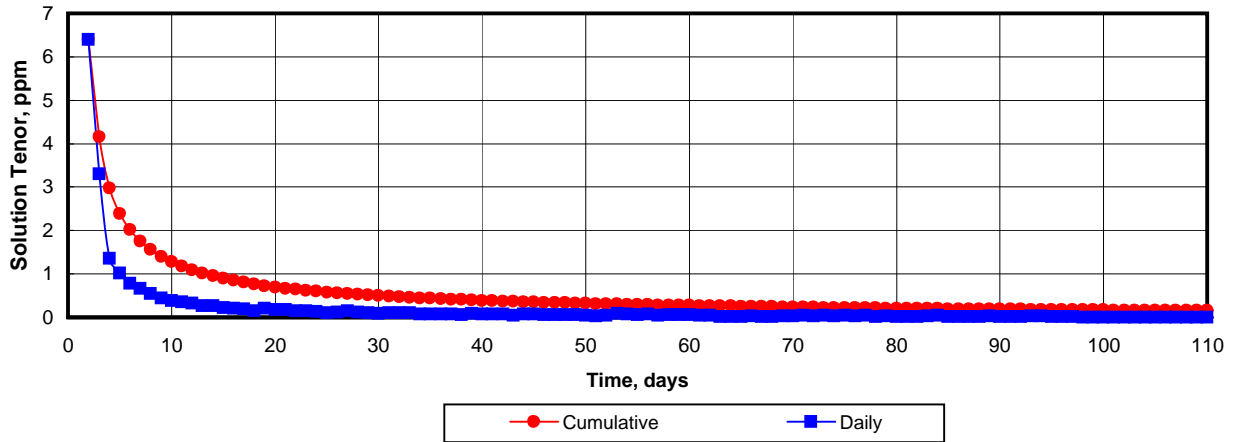


METCON Research

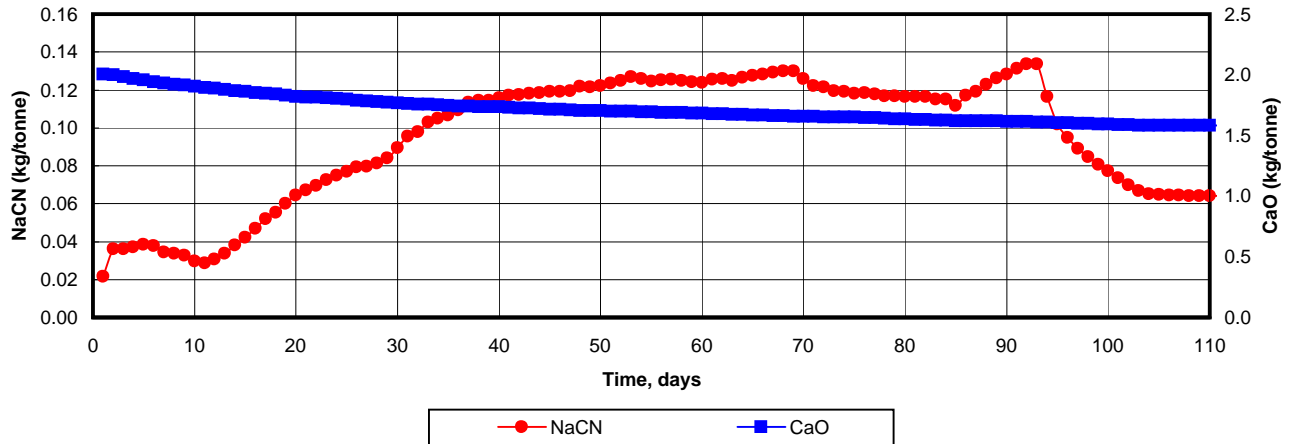
Test: CL-02
Sample: PLMET-12A (Oxide)

Compania Minera Pitalla S.A. de C.V.
METCON Project No.: M-732-01

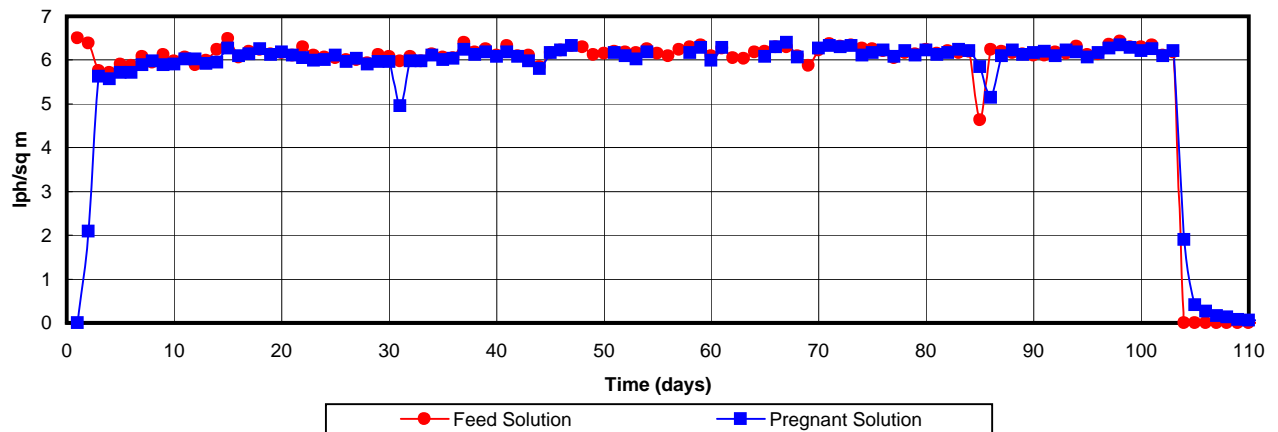
CONCENTRATION OF GOLD IN PREGNANT SOLUTION VERSUS TIME



CUMULATIVE REAGENT CONSUMPTION VERSUS TIME



FLOW RATE VERSUS TIME

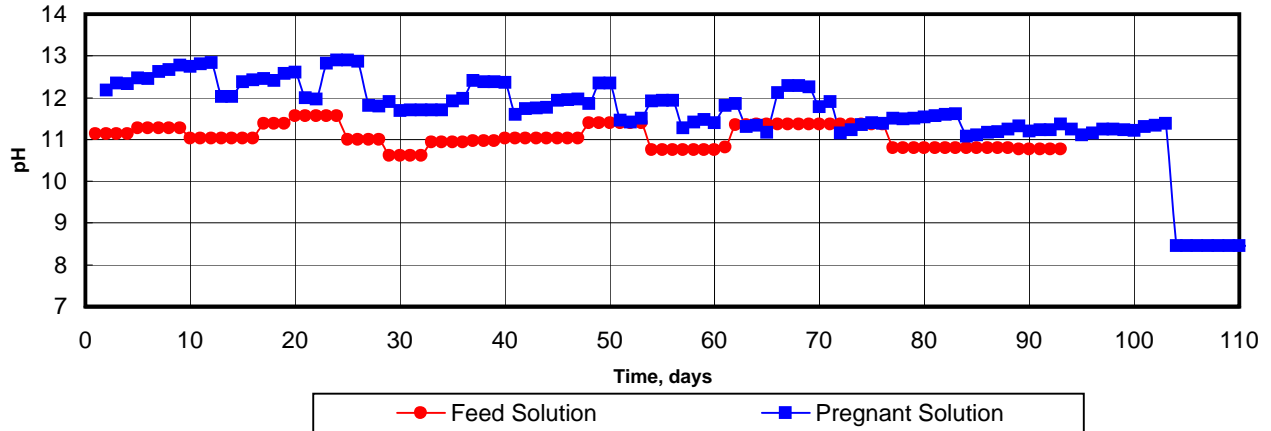


METCON Research

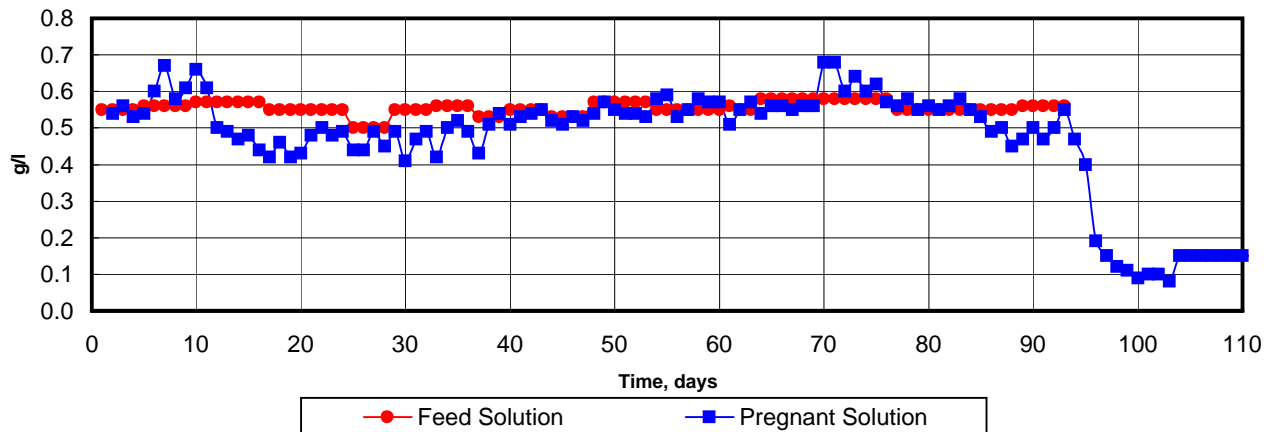
Test: CL-02
Sample: PLMET-12A (Oxide)

Compania Minera Pitalla S.A. de C.V.
METCON Project No.: M-732-01

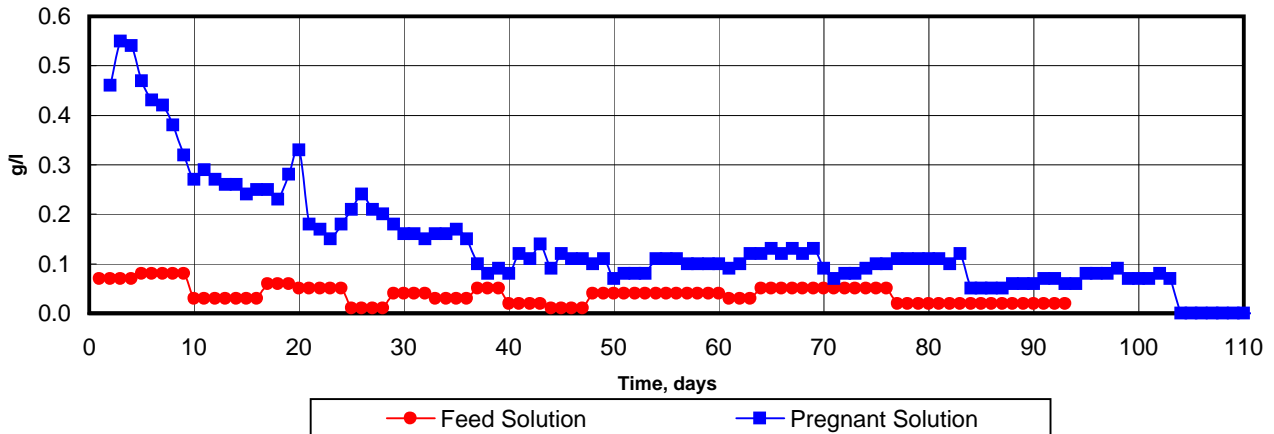
SOLUTION pH VERSUS TIME



SODIUM CYANIDE CONCENTRATION VERSUS TIME



CaO CONCENTRATION VERSUS TIME



METCON Research

TEST No. CL-02

PHYSICAL CHARACTERISTICS SHEET

CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01	TEST CONDITIONS	
		TEST START	10/23/08
SAMPLE	PLMET-12A (Oxide)	COLUMN SIZE	8 inch diameter by 12 feet tall
		CRUSH SIZE	80% Passing 1-1/2 inch
		LEACH SOLUTION	500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching	CURE DOSAGE	2.00 kg CaO/tonne of ore
		CURE CYCLE	0 days
		FLOWRATE	0.0025 gpm/sq. ft - 6.0 lph/sq.m

FLOWRATE (lph/sq m)			6.00
CURE STAGE (days)			None
COLUMN DIAMETER (mm)			203.20
ELEMENTS ANALYZED	Au	Ag	
HEAD ASSAYS (grams per tonne)	0.96	0.2	
LEACH RESIDUE ASSAYS (grams per tonne)	0.20	0.1	
SAMPLE PERCENT MOISTURE AS RECEIVED (Dry Basis)			0.00
SAMPLE WEIGHT BEFORE AGGLOMERATION (kg)			130.19
AGGLOMERATED SAMPLE WEIGHT (kg)			130.19
INITIAL SAMPLE PERCENT MOISTURE (including agglomeration water)			0.00 (Dry Basis)
INITIAL SAMPLE DRY WEIGHT (kg)			130.19
INITIAL SAMPLE HEIGHT (m)			2.36
INITIAL SAMPLE BULK DENSITY (kg/cu m)			1698 (Dry Basis)
FINAL SAMPLE HEIGHT (m)			2.35
RESIDUE WET WEIGHT (kg)			135.66
RESIDUE DRY WEIGHT (kg)			128.49
VOLUME DRAINED (l)			2.38
SUBSIDENCE (%)			0.68
MOISTURE UNDER LEACH (%)			7.43 (Dry Basis)
MOISTURE RETAINED (%)			5.58 (Dry Basis)
FINAL SAMPLE BULK DENSITY (kg/cu m)			1687 (Dry Basis)

METCON Research

TEST No. CL-02

Data Sheet

CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01	TEST CONDITIONS	
		TEST START	10/23/08
SAMPLE	PLMET-12A (Oxide)	COLUMN SIZE	8 inch diameter by 12 feet tall
		CRUSH SIZE	80% Passing 1-1/2 inch
		LEACH SOLUTION	500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching	CURE DOSAGE	2.00 kg CaO/tonne of ore
		CURE CYCLE	None Days
		FLOWRATE	6 lph/sq m (0.005 gpm/sq ft)

		Pregnant Leach Solution						Feed Solution							
Time (Days)	Volume (l)	Free		pH	Assays			Volume (l)	Free		pH	NaCN Add/Rem. (grams)	Assays		
		NaCN (g/l)	CaO (g/l)		Au (ppm)	Ag (ppm)	Cu (ppm)		NaCN (g/l)	CaO (g/l)			Au (ppm)	Ag (ppm)	Cu (ppm)
Leach 1								5.15	0.55	0.07	11.13				
2	1.64	0.54	0.46	12.17	6.40	2.59		5.00	0.55	0.07	11.13				
3	4.35	0.56	0.55	12.35	3.30	1.15		4.45	0.55	0.07	11.13				
4	4.34	0.53	0.54	12.33	1.36	0.26		4.45	0.55	0.07	11.13				
5	4.50	0.54	0.47	12.47	1.01	0.40		4.65	0.56	0.08	11.27				
6	4.42	0.60	0.43	12.45	0.78	0.18		4.55	0.56	0.08	11.27				
7	4.56	0.67	0.42	12.62	0.66	0.15		4.70	0.56	0.08	11.27				
8	4.62	0.58	0.38	12.66	0.55	0.12		4.60	0.56	0.08	11.27				
9	4.52	0.61	0.32	12.78	0.44	0.09		4.70	0.56	0.08	11.27				
10	4.68	0.66	0.27	12.75	0.39	0.09		4.74	0.57	0.03	11.03				
11	4.72	0.61	0.29	12.80	0.36	0.06		4.75	0.57	0.03	11.03				
12	4.60	0.50	0.27	12.83	0.33	0.04		4.50	0.57	0.03	11.03				
13	4.64	0.49	0.26	12.02	0.27	0.07		4.70	0.57	0.03	11.03				
14	4.62	0.47	0.26	12.03	0.27	0.07		4.85	0.57	0.03	11.03				
15	4.88	0.48	0.24	12.38	0.22	0.06		5.05	0.57	0.03	11.03				
16	4.76	0.44	0.25	12.42	0.21	0.05		4.74	0.57	0.03	11.03				
17	4.86	0.42	0.25	12.45	0.19	0.04		4.90	0.55	0.06	11.38				
18	4.76	0.46	0.23	12.40	0.15	0.06		4.75	0.55	0.06	11.38				
19	4.76	0.42	0.28	12.58	0.20	0.03		4.78	0.55	0.06	11.38				
20	4.84	0.43	0.33	12.61	0.17	0.03		4.83	0.55	0.05	11.57				
21	4.75	0.48	0.18	11.99	0.17	0.04		4.75	0.55	0.05	11.57				
22	4.66	0.50	0.17	11.97	0.15	0.04		4.85	0.55	0.05	11.57				
23	4.66	0.48	0.15	12.82	0.14	0.04		4.75	0.55	0.05	11.57				
24	4.90	0.49	0.18	12.89	0.13	0.04		4.95	0.55	0.05	11.57				
25	4.65	0.44	0.21	12.89	0.11	0.02		4.60	0.50	0.01	11.00				
26	4.82	0.44	0.24	12.86	0.12	0.03		4.85	0.50	0.01	11.00				
27	4.42	0.49	0.21	11.81	0.14	0.03		4.40	0.50	0.01	11.00				
28	4.58	0.45	0.20	11.80	0.12	0.03		4.60	0.50	0.01	11.00				
29	4.62	0.49	0.18	11.90	0.11	0.01		4.75	0.55	0.04	10.61				
30	4.66	0.41	0.16	11.69	0.09	0.01		4.75	0.55	0.04	10.61				

METCON Research

TEST No. CL-02

Data Sheet

CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01	TEST CONDITIONS	
		TEST START	10/23/08
SAMPLE	PLMET-12A (Oxide)	COLUMN SIZE	8 inch diameter by 12 feet tall
		CRUSH SIZE	80% Passing 1-1/2 inch
		LEACH SOLUTION	500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching	CURE DOSAGE	2.00 kg CaO/tonne of ore
		CURE CYCLE	None Days
		FLOWRATE	6 lph/sq m (0.005 gpm/sq ft)

Pregnant Leach Solution								Feed Solution							
Time (Days)	Volume (l)	Free		pH	Assays			Volume (l)	Free		pH	NaCN Add/Rem. (grams)	Assays		
		NaCN (g/l)	CaO (g/l)		Au (ppm)	Ag (ppm)	Cu (ppm)		NaCN (g/l)	CaO (g/l)			Au (ppm)	Ag (ppm)	Cu (ppm)
31	3.98	0.47	0.16	11.71	0.11	0.02		4.80	0.55	0.04	10.61				
32	4.60	0.49	0.15	11.70	0.10	0.02		4.68	0.55	0.04	10.61				
33	4.60	0.42	0.16	11.71	0.10	0.01		4.60	0.56	0.03	10.94				
34	4.75	0.50	0.16	11.70	0.08	0.02		4.78	0.56	0.03	10.94				
35	4.66	0.52	0.17	11.91	0.08	0.02		4.70	0.56	0.03	10.94				
36	4.68	0.49	0.15	11.98	0.08	0.02		4.70	0.56	0.03	10.94				
37	4.82	0.43	0.10	12.41	0.08	0.01		4.95	0.53	0.05	10.96				
38	4.90	0.51	0.08	12.38	0.06	0.02		4.95	0.53	0.05	10.96				
39	4.80	0.54	0.09	12.38	0.09	0.02		4.85	0.53	0.05	10.96				
40	4.72	0.51	0.08	12.36	0.08	0.03		4.75	0.55	0.02	11.03				
41	4.74	0.53	0.12	11.60	0.07	0.03		4.85	0.55	0.02	11.03				
42	4.68	0.54	0.11	11.74	0.07	0.02		4.70	0.55	0.02	11.03				
43	4.65	0.55	0.14	11.75	0.04	0.02		4.75	0.55	0.02	11.03				
44	4.56	0.52	0.09	11.76	0.08	0.02		4.60	0.53	0.01	11.03				
45	4.85	0.51	0.12	11.93	0.07	0.01		4.85	0.53	0.01	11.03				
46	4.85	0.53	0.11	11.94	0.06	0.01		4.85	0.53	0.01	11.03				
47	4.85	0.52	0.11	11.97	0.06	0.01		4.85	0.53	0.01	11.03				
48	4.66	0.54	0.10	11.86	0.06	0.01		4.90	0.57	0.04	11.40				
49	4.78	0.57	0.11	12.35	0.06	0.01		4.75	0.57	0.04	11.40				
50	4.78	0.55	0.07	12.34	0.04	0.03		4.77	0.57	0.04	11.40				
51	4.98	0.54	0.08	11.45	0.03	0.03		5.00	0.57	0.04	11.40				
52	4.64	0.54	0.08	11.41	0.04	0.03		4.70	0.57	0.04	11.40				
53	4.68	0.53	0.08	11.51	0.09	0.02		4.80	0.57	0.04	11.40				
54	4.80	0.58	0.11	11.92	0.07	0.01		4.85	0.55	0.04	10.75				
55	4.81	0.59	0.11	11.93	0.06	0.01		4.80	0.55	0.04	10.75				
56	4.72	0.53	0.11	11.93	0.07	0.01		4.70	0.55	0.04	10.75				
57	4.74	0.55	0.10	11.27	0.05	0.01		4.85	0.55	0.04	10.75				
58	4.80	0.58	0.10	11.41	0.06	0.02		4.90	0.55	0.04	10.75				
59	4.90	0.57	0.10	11.48	0.06	0.01		4.95	0.55	0.04	10.75				
60	4.72	0.57	0.10	11.40	0.06	0.01		4.80	0.55	0.04	10.75				

METCON Research

TEST No. CL-02

Data Sheet

CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01	TEST CONDITIONS	
		TEST START	10/23/08
SAMPLE	PLMET-12A (Oxide)	COLUMN SIZE	8 inch diameter by 12 feet tall
		CRUSH SIZE	80% Passing 1-1/2 inch
		LEACH SOLUTION	500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching	CURE DOSAGE	2.00 kg CaO/tonne of ore
		CURE CYCLE	None Days
		FLOWRATE	6 lph/sq m (0.005 gpm/sq ft)

		Pregnant Leach Solution						Feed Solution							
Time (Days)	Volume (l)	Free		pH	Assays			Volume (l)	Free		pH	NaCN Add/Rem. (grams)	Assays		
		NaCN (g/l)	CaO (g/l)		Au (ppm)	Ag (ppm)	Cu (ppm)		NaCN (g/l)	CaO (g/l)			Au (ppm)	Ag (ppm)	Cu (ppm)
61	4.82	0.51	0.09	11.81	0.04	0.02		4.80	0.56	0.03	10.82				
62	4.72	0.55	0.10	11.86	0.04	0.02		4.75	0.55	0.03	11.35				
63	4.72	0.57	0.12	11.31	0.02	0.02		4.65	0.55	0.03	11.35				
64	4.80	0.54	0.12	11.33	0.02	0.01		4.85	0.58	0.05	11.36				
65	4.76	0.56	0.13	11.16	0.02	0.01		4.85	0.58	0.05	11.36				
66	4.90	0.56	0.12	12.12	0.03	0.01		4.90	0.58	0.05	11.36				
67	4.98	0.55	0.13	12.29	0.01	0.01		4.90	0.58	0.05	11.36				
68	4.72	0.56	0.12	12.29	0.01	0.01		4.74	0.58	0.05	11.36				
69	4.73	0.56	0.13	12.26	0.03	0.01		4.55	0.58	0.05	11.36				
70	4.89	0.68	0.09	11.78	0.03	0.01		4.85	0.58	0.05	11.36				
71	4.92	0.68	0.07	11.90	0.04	0.01		4.95	0.58	0.05	11.36				
72	4.94	0.60	0.08	11.15	0.03	0.01		4.95	0.58	0.05	11.36				
73	4.94	0.64	0.08	11.22	0.04	0.01		4.95	0.58	0.05	11.36				
74	4.70	0.60	0.09	11.35	0.03	0.01		4.83	0.58	0.05	11.36				
75	4.78	0.62	0.10	11.39	0.04	0.01		4.85	0.58	0.05	11.36				
76	4.86	0.57	0.10	11.38	0.03	0.02		4.85	0.58	0.05	11.36				
77	4.72	0.56	0.11	11.51	0.04	0.01		4.69	0.55	0.02	10.80				
78	4.83	0.58	0.11	11.49	0.02	0.01		4.80	0.55	0.02	10.80				
79	4.77	0.55	0.11	11.50	0.03	0.01		4.80	0.55	0.02	10.80				
80	4.84	0.56	0.11	11.54	0.02	0.01		4.85	0.55	0.02	10.80				
81	4.76	0.55	0.11	11.56	0.02	0.01		4.79	0.55	0.02	10.80				
82	4.80	0.56	0.10	11.59	0.01	0.02		4.83	0.55	0.02	10.80				
83	4.86	0.58	0.12	11.61	0.03	0.01		4.80	0.55	0.02	10.80				
84	4.83	0.55	0.05	11.08	0.04	0.01		4.82	0.55	0.02	10.80				
85	4.58	0.53	0.05	11.10	0.02	0.01		3.62	0.55	0.02	10.80				
86	4.00	0.49	0.05	11.16	0.01	0.01		4.85	0.55	0.02	10.80				
87	4.72	0.50	0.05	11.18	0.01	0.01		4.80	0.55	0.02	10.80				
88	4.84	0.45	0.06	11.25	0.01	0.01		4.80	0.55	0.02	10.80				
89	4.76	0.47	0.06	11.32	0.03	0.01		4.78	0.56	0.02	10.77				
90	4.79	0.50	0.06	11.20	0.01	0.01		4.75	0.56	0.02	10.77				

METCON Research

TEST No.	CL-02		
METALLURGICAL RESULTS			
CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01		TEST CONDITIONS
			TEST START: 10/23/08
SAMPLE	PLMET-12A (Oxide)		COLUMN SIZE: 8 inch diameter by 12 feet tall
			CRUSH SIZE: 80% Passing 1-1/2 inch
			LEACH SOLUTION: 500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching		CURE DOSAGE: 2.00 kg CaO/tonne of ore
			CURE CYCLE: None Days
			FLOWRATE: 6.00 lph/sq m (0.005 gpm/sq ft)

Time (Days)	Feed Solution		Cumulative										
	Application Flow Rate		Extraction (g/tonne)			Solution Grade (ppm)			Extraction (%)			Consumption	
	(lph/sq m)	(KI/t)	Au	Ag		Au	Ag		Au	Ag		NaCN (kg/tonne)	CaO (kg/tonne)
													2.00
Leach	1	6.50	0.04									0.02	2.00
	2	6.38	0.08	0.08	0.03				9.92	11.43		0.04	2.00
	3	5.76	0.11	0.19	0.07	4.15	1.54		23.49	24.90		0.04	1.98
	4	5.71	0.15	0.24	0.08	2.98	1.00		29.07	27.93		0.04	1.97
	5	5.90	0.18	0.27	0.09	2.38	0.82		33.37	32.78		0.04	1.95
	6	5.87	0.22	0.30	0.10	2.01	0.67		36.63	34.92		0.04	1.94
	7	6.07	0.25	0.32	0.10	1.75	0.57		39.47	36.76		0.03	1.93
	8	5.95	0.29	0.34	0.11	1.56	0.50		41.87	38.25		0.03	1.92
	9	6.12	0.32	0.36	0.11	1.40	0.44		43.75	39.35		0.03	1.91
	10	5.98	0.36	0.37	0.12	1.28	0.40		45.48	40.48		0.03	1.90
	11	6.07	0.40	0.38	0.12	1.18	0.36		47.09	41.24		0.03	1.89
	12	5.89	0.43	0.39	0.12	1.09	0.33		48.52	41.74		0.03	1.89
	13	6.00	0.47	0.40	0.12	1.02	0.31		49.70	42.61		0.03	1.88
	14	6.24	0.51	0.41	0.12	0.96	0.29		50.88	43.48		0.04	1.87
	15	6.49	0.54	0.42	0.13	0.90	0.27		51.90	44.27		0.04	1.86
	16	6.06	0.58	0.43	0.13	0.85	0.25		52.84	44.91		0.05	1.85
	17	6.19	0.62	0.44	0.13	0.80	0.24		53.72	45.44		0.05	1.85
	18	6.24	0.65	0.44	0.13	0.76	0.23		54.39	46.20		0.06	1.84
	19	6.14	0.69	0.45	0.13	0.73	0.22		55.29	46.59		0.06	1.83
	20	6.16	0.73	0.46	0.13	0.70	0.21		56.07	46.98		0.06	1.82
	21	6.11	0.76	0.46	0.14	0.67	0.20		56.83	47.49		0.07	1.82
	22	6.30	0.80	0.47	0.14	0.64	0.19		57.49	47.99		0.07	1.81
	23	6.10	0.84	0.47	0.14	0.62	0.18		58.11	48.49		0.07	1.81
	24	6.07	0.88	0.48	0.14	0.60	0.18		58.71	49.02		0.08	1.80
	25	6.05	0.91	0.48	0.14	0.58	0.17		59.20	49.27		0.08	1.80
	26	6.00	0.95	0.49	0.14	0.56	0.16		59.74	49.66		0.08	1.79
	27	6.01	0.98	0.49	0.14	0.54	0.16		60.33	50.02		0.08	1.78
	28	5.94	1.02	0.49	0.14	0.53	0.15		60.85	50.39		0.08	1.78
	29	6.13	1.05	0.50	0.14	0.51	0.15		61.33	50.51		0.08	1.77
	30	6.08	1.09	0.50	0.14	0.50	0.14		61.72	50.64		0.09	1.77

METCON Research			
TEST No.	CL-02		
METALLURGICAL RESULTS			
CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01		TEST CONDITIONS
			TEST START
SAMPLE	PLMET-12A (Oxide)		COLUMN SIZE
			CRUSH SIZE
			LEACH SOLUTION
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching		CURE DOSAGE
			CURE CYCLE
			FLOWRATE

Time (Days)	Feed Solution		Cumulative										
	Application Flow Rate		Extraction (g/tonne)			Solution Grade (ppm)			Extraction (%)			Consumption	
	(lph/sq m)	(KI/t)	Au	Ag		Au	Ag		Au	Ag		NaCN (kg/tonne)	CaO (kg/tonne)
31	5.97	1.13	0.50	0.15		0.48	0.14		62.14	50.85		0.10	1.76
32	6.08	1.16	0.51	0.15		0.47	0.14		62.57	51.10		0.10	1.76
33	5.97	1.20	0.51	0.15		0.46	0.13		63.01	51.22		0.10	1.75
34	6.14	1.24	0.51	0.15		0.45	0.13		63.37	51.48		0.11	1.75
35	6.06	1.27	0.52	0.15		0.44	0.12		63.72	51.73		0.11	1.74
36	6.06	1.31	0.52	0.15		0.43	0.12		64.07	51.98		0.11	1.74
37	6.40	1.35	0.52	0.15		0.42	0.12		64.44	52.11		0.11	1.74
38	6.18	1.38	0.53	0.15		0.41	0.12		64.72	52.38		0.11	1.74
39	6.25	1.42	0.53	0.15		0.40	0.11		65.12	52.63		0.11	1.74
40	6.11	1.46	0.53	0.15		0.39	0.11		65.48	53.02		0.12	1.73
41	6.33	1.50	0.53	0.15		0.38	0.11		65.79	53.40		0.12	1.73
42	6.10	1.53	0.54	0.15		0.37	0.11		66.10	53.65		0.12	1.73
43	6.10	1.57	0.54	0.15		0.36	0.10		66.28	53.90		0.12	1.72
44	5.85	1.60	0.54	0.15		0.36	0.10		66.62	54.15		0.12	1.72
45	6.17	1.64	0.54	0.15		0.35	0.10		66.95	54.28		0.12	1.72
46	6.23	1.68	0.55	0.16		0.34	0.10		67.22	54.41		0.12	1.71
47	6.32	1.72	0.55	0.16		0.34	0.10		67.50	54.54		0.12	1.71
48	6.30	1.75	0.55	0.16		0.33	0.09		67.76	54.66		0.12	1.71
49	6.13	1.79	0.55	0.16		0.33	0.09		68.03	54.79		0.12	1.70
50	6.15	1.83	0.55	0.16		0.32	0.09		68.21	55.18		0.12	1.70
51	6.19	1.86	0.56	0.16		0.31	0.09		68.35	55.58		0.12	1.70
52	6.18	1.90	0.56	0.16		0.31	0.09		68.53	55.95		0.12	1.70
53	6.17	1.94	0.56	0.16		0.30	0.09		68.93	56.21		0.13	1.70
54	6.25	1.97	0.56	0.16		0.30	0.09		69.24	56.27		0.13	1.70
55	6.15	2.01	0.56	0.16		0.29	0.08		69.52	56.40		0.12	1.69
56	6.09	2.05	0.57	0.16		0.29	0.08		69.83	56.53		0.13	1.69
57	6.24	2.08	0.57	0.16		0.29	0.08		70.05	56.66		0.13	1.69
58	6.29	2.12	0.57	0.16		0.28	0.08		70.33	56.91		0.12	1.69
59	6.34	2.16	0.57	0.16		0.28	0.08		70.60	56.98		0.12	1.68
60	6.10	2.20	0.58	0.16		0.27	0.08		70.87	57.04		0.12	1.68

METCON Research			
TEST No.	CL-02		
METALLURGICAL RESULTS			
CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01		TEST CONDITIONS
			TEST START
SAMPLE	PLMET-12A (Oxide)		COLUMN SIZE
			CRUSH SIZE
			LEACH SOLUTION
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching		CURE DOSAGE
			CURE CYCLE
			FLOWRATE
		10/23/08	
		8 inch diameter by 12 feet tall	
		80% Passing 1-1/2 inch	
		500 ppm NaCN	
		2.00 kg CaO/tonne of ore	
		None Days	
		6.00 lph/sq m (0.005 gpm/sq ft)	

Time (Days)	Feed Solution		Cumulative										
	Application Flow Rate		Extraction (g/tonne)			Solution Grade (ppm)			Extraction (%)			Consumption	
	(lph/sq m)	(KI/t)	Au	Ag		Au	Ag		Au	Ag		NaCN (kg/tonne)	CaO (kg/tonne)
61	6.26	2.23	0.58	0.16		0.27	0.08		71.05	57.30		0.13	1.68
62	6.05	2.27	0.58	0.16		0.27	0.08		71.23	57.56		0.13	1.68
63	6.04	2.31	0.58	0.16		0.26	0.07		71.32	57.81		0.12	1.67
64	6.18	2.34	0.58	0.17		0.26	0.07		71.41	57.88		0.13	1.67
65	6.20	2.38	0.58	0.17		0.25	0.07		71.50	57.94		0.13	1.67
66	6.29	2.42	0.58	0.17		0.25	0.07		71.64	58.01		0.13	1.67
67	6.30	2.46	0.58	0.17		0.25	0.07		71.69	58.07		0.13	1.66
68	6.09	2.49	0.58	0.17		0.24	0.07		71.73	58.14		0.13	1.66
69	5.88	2.53	0.58	0.17		0.24	0.07		71.87	58.20		0.13	1.66
70	6.22	2.56	0.59	0.17		0.24	0.07		72.01	58.27		0.13	1.66
71	6.37	2.60	0.59	0.17		0.23	0.07		72.19	58.33		0.12	1.65
72	6.32	2.64	0.59	0.17		0.23	0.07		72.33	58.40		0.12	1.65
73	6.34	2.68	0.59	0.17		0.23	0.06		72.52	58.46		0.12	1.65
74	6.28	2.72	0.59	0.17		0.23	0.06		72.65	58.53		0.12	1.65
75	6.25	2.75	0.59	0.17		0.22	0.06		72.83	58.66		0.12	1.65
76	6.21	2.79	0.59	0.17		0.22	0.06		72.97	58.92		0.12	1.65
77	6.05	2.83	0.59	0.17		0.22	0.06		73.15	59.05		0.12	1.64
78	6.17	2.86	0.60	0.17		0.22	0.06		73.24	59.18		0.12	1.64
79	6.14	2.90	0.60	0.17		0.21	0.06		73.38	59.30		0.12	1.64
80	6.24	2.94	0.60	0.17		0.21	0.06		73.47	59.43		0.12	1.63
81	6.15	2.97	0.60	0.17		0.21	0.06		73.56	59.56		0.12	1.63
82	6.21	3.01	0.60	0.17		0.21	0.06		73.60	59.82		0.12	1.63
83	6.17	3.05	0.60	0.17		0.20	0.06		73.74	59.95		0.11	1.62
84	6.20	3.09	0.60	0.17		0.20	0.06		73.92	60.08		0.11	1.62
85	4.63	3.11	0.60	0.17		0.20	0.06		74.01	60.14		0.11	1.62
86	6.24	3.15	0.60	0.17		0.20	0.06		74.05	60.20		0.12	1.62
87	6.20	3.19	0.60	0.17		0.19	0.06		74.09	60.26		0.12	1.62
88	6.17	3.22	0.60	0.17		0.19	0.06		74.14	60.33		0.12	1.62
89	6.14	3.26	0.60	0.17		0.19	0.05		74.27	60.39		0.13	1.62
90	6.11	3.30	0.60	0.17		0.19	0.05		74.32	60.52		0.13	1.62

METCON Research

TEST No.	CL-02		
METALLURGICAL RESULTS			
CLIENT	Compania Minera Pitalla S.A. de C.V. METCON Project No.: M-732-01		TEST CONDITIONS
			TEST START 10/23/08
SAMPLE	PLMET-12A (Oxide)		COLUMN SIZE 8 inch diameter by 12 feet tall
			CRUSH SIZE 80% Passing 1-1/2 inch
			LEACH SOLUTION 500 ppm NaCN
OBJECTIVE	Preliminary Precious Metal Recovery and Reagent Consumption under Open Cycle Leaching		CURE DOSAGE 2.00 kg CaO/tonne of ore
			CURE CYCLE None Days
			FLOWRATE 6.00 lph/sq m (0.005 gpm/sq ft)

Time (Days)	Feed Solution		Cumulative										
	Application Flow Rate		Extraction (g/tonne)			Solution Grade (ppm)			Extraction (%)			Consumption	
	(lph/sq m)	(KI/t)	Au	Ag		Au	Ag		Au	Ag		NaCN (kg/tonne)	CaO (kg/tonne)
91	6.10	3.33	0.60	0.17		0.19	0.05		74.41	60.58		0.13	1.61
92	6.18	3.37	0.61	0.17		0.18	0.05		74.50	60.65		0.13	1.61
93	6.15	3.41	0.61	0.17		0.18	0.05		74.64	60.71		0.13	1.61
Wash 94	6.32	3.45	0.61	0.17		0.18	0.05		74.77	60.78		0.12	1.61
Wash 95	6.12	3.48	0.61	0.17		0.18	0.05		74.86	60.84		0.10	1.61
Wash 96	6.14	3.52	0.61	0.17		0.18	0.05		74.91	60.91		0.09	1.60
Wash 97	6.36	3.56	0.61	0.17		0.18	0.05		75.00	60.97		0.09	1.60
Wash 98	6.43	3.59	0.61	0.17		0.17	0.05		75.02	61.04		0.08	1.60
Wash 99	6.30	3.63	0.61	0.17		0.17	0.05		75.05	61.10		0.08	1.59
Wash 100	6.29	3.67	0.61	0.17		0.17	0.05		75.07	61.17		0.08	1.59
Wash 101	6.34	3.71	0.61	0.17		0.17	0.05		75.09	61.23		0.07	1.59
Wash 102	6.11	3.74	0.61	0.17		0.17	0.05		75.11	61.30		0.07	1.58
Wash 103	6.18	3.78	0.61	0.18		0.17	0.05		75.14	61.36		0.07	1.58
Drain 104		3.78	0.61	0.18		0.17	0.05		75.14	61.38		0.07	1.58
Drain 105		3.78	0.61	0.18		0.17	0.05		75.15	61.39		0.06	1.58
Drain 106		3.78	0.61	0.18		0.17	0.05		75.15	61.39		0.06	1.58
Drain 107		3.78	0.61	0.18		0.17	0.05		75.15	61.39		0.06	1.58
Drain 108		3.78	0.61	0.18		0.17	0.05		75.15	61.39		0.06	1.58
Drain 109		3.78	0.61	0.18		0.17	0.05		75.15	61.39		0.06	1.58
Drain 110		3.78	0.61	0.18		0.16	0.05		75.15	61.39		0.06	1.58
Drain 111		3.78	0.61	0.18		0.16	0.05		75.15	61.39		0.06	1.58

SCREEN ANALYSIS RESULTS
Compania Minera Pitalla S.A. de C.V.
METCON Project No.: M-732-01

SCREEN ANALYSIS			Sample: Column Leach Head CL-02 PLMET-12A (Oxide) 80% Passing 1-1/2 inch											
NOMINAL OPENINGS			Sample Weights (kg)	Weight Distribution (%)	Cumulative Weight Retained (%)	Gold (Average)			Gold (1)			Gold (2)		
Millimeters	Inches	Tyler Mesh				Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)
37.50	1.5		26.05	20.01	20.01	1.01	0.202	21.05	1.14	0.228	23.34	0.88	0.176	18.67
25.00	0.984	1	36.56	28.08	48.09	0.88	0.247	25.74	0.73	0.205	20.97	1.03	0.289	30.67
19.00	0.748	3/4	13.05	10.02	58.12	0.77	0.077	7.99	0.88	0.088	9.02	0.65	0.065	6.91
12.50	0.492	1/2	13.78	10.58	68.70	0.84	0.088	9.20	0.85	0.090	9.20	0.82	0.087	9.20
9.50	0.374	3/8	6.99	5.37	74.07	1.02	0.054	5.68	1.12	0.060	6.15	0.91	0.049	5.18
6.30	0.248	1/4	7.68	5.90	79.97	0.86	0.050	5.25	0.91	0.054	5.49	0.80	0.047	5.00
3.35	0.132	6	8.66	6.65	86.62	0.88	0.058	6.06	0.89	0.059	6.06	0.86	0.057	6.07
1.70	0.067	10	6.24	4.79	91.41	1.57	0.075	7.81	1.45	0.069	7.11	1.68	0.081	8.54
M I N U S		10	11.18	8.59	100.00	1.26	0.108	11.22	1.44	0.124	12.65	1.07	0.092	9.74
TOTALS			130.19	100.00				100.00			100.00			100.00
CALCULATED ASSAY COMPOSITE ASSAY (Pulv.)						0.96 0.91				0.98 1.06	0.94 0.76			

SCREEN ANALYSIS			Sample: Column Leach Residue CL-02 PLMET-12A (Oxide)											
NOMINAL OPENINGS			Sample Weights (kg)	Weight Distribution (%)	Cumulative Weight Retained (%)	Gold (Average)			Gold (1)			Gold (2)		
Millimeters	Inches	Tyler Mesh				Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)
37.50	1.5		20.09	15.64	15.64	0.20	0.031	15.28	0.17	0.027	13.20	0.23	0.036	17.30
25.00	0.984	1	32.02	24.92	40.56	0.29	0.072	35.32	0.28	0.070	34.66	0.30	0.075	35.96
19.00	0.748	3/4	14.43	11.23	51.79	0.18	0.020	9.61	0.21	0.024	11.72	0.14	0.016	7.56
12.50	0.492	1/2	14.76	11.49	63.27	0.17	0.020	9.54	0.19	0.022	10.84	0.15	0.017	8.29
9.50	0.374	3/8	6.97	5.42	68.70	0.24	0.013	6.23	0.23	0.012	6.20	0.24	0.013	6.26
6.30	0.248	1/4	8.52	6.63	75.33	0.14	0.009	4.54	0.12	0.008	3.95	0.16	0.011	5.10
3.35	0.132	6	9.17	7.14	82.47	0.20	0.014	6.80	0.19	0.014	6.74	0.20	0.014	6.87
1.70	0.067	10	7.05	5.49	87.95	0.28	0.015	7.37	0.29	0.016	7.90	0.26	0.014	6.86
M I N U S		10	15.48	12.05	100.00	0.09	0.011	5.30	0.08	0.010	4.79	0.10	0.012	5.80
TOTALS			128.49	100.00				100.00			100.00			100.00
CALCULATED ASSAY COMPOSITE ASSAY (Pulv.)						0.20 0.15				0.20 0.16	0.21 0.14			

SCREEN ANALYSIS RESULTS
 Compania Minera Pitalla S.A. de C.V.
 METCON Project No.: M-732-01

SCREEN ANALYSIS			Sample: Column Leach Head CL-02 PLMET-12A (Oxide) 80% Passing 1-1/2 inch											
NOMINAL OPENINGS			Sample Weights (kg)	Weight Distribution (%)	Cumulative Weight Retained (%)	Silver (Average)			Silver (1)			Silver (2)		
Millimeters	Inches	Tyler Mesh				Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)
37.50	1.5		26.05	20.01	20.01	0.23	0.045	24.35	0.05	0.010	18.43	0.40	0.080	25.37
25.00	0.984	1	36.56	28.08	48.09	0.18	0.049	26.58	0.05	0.014	25.86	0.30	0.084	26.70
19.00	0.748	3/4	13.05	10.02	58.12	0.13	0.013	6.78	0.05	0.005	9.23	0.20	0.020	6.35
12.50	0.492	1/2	13.78	10.58	68.70	0.13	0.013	7.16	0.05	0.005	9.75	0.20	0.021	6.71
9.50	0.374	3/8	6.99	5.37	74.07	0.18	0.009	5.08	0.05	0.003	4.94	0.30	0.016	5.11
6.30	0.248	1/4	7.68	5.90	79.97	0.13	0.007	3.99	0.05	0.003	5.43	0.20	0.012	3.74
3.35	0.132	6	8.66	6.65	86.62	0.18	0.012	6.30	0.05	0.003	6.13	0.30	0.020	6.33
1.70	0.067	10	6.24	4.79	91.41	0.23	0.011	5.83	0.05	0.002	4.41	0.40	0.019	6.08
M I N U S		10	11.18	8.59	100.00	0.30	0.026	13.93	0.10	0.009	15.82	0.50	0.043	13.61
TOTALS			130.19	100.00				100.00			100.00			100.00
CALCULATED ASSAY COMPOSITE ASSAY (Pulv.)						0.18			0.05			0.32		
						0.18			0.05			0.30		

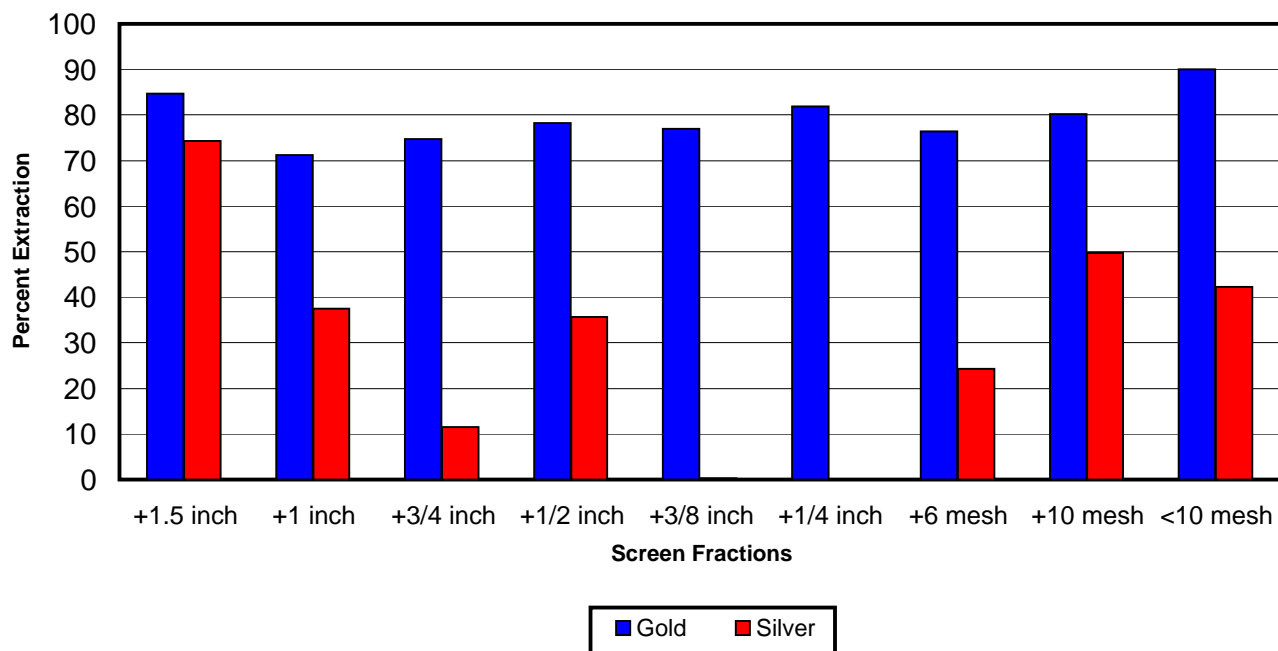
SCREEN ANALYSIS			Sample: Column Leach Residue CL-02 PLMET-12A (Oxide)											
NOMINAL OPENINGS			Sample Weights (kg)	Weight Distribution (%)	Cumulative Weight Retained (%)	Silver (Average)			Silver (1)			Silver (2)		
Millimeters	Inches	Tyler Mesh				Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)	Assay (g/t)	Content	Distribution (%)
37.50	1.5		20.09	15.64	15.64	0.08	0.012	10.50	0.05	0.008	12.68	0.10	0.016	9.68
25.00	0.984	1	32.02	24.92	40.56	0.13	0.031	27.91	0.05	0.012	20.20	0.20	0.050	30.84
19.00	0.748	3/4	14.43	11.23	51.79	0.10	0.011	10.06	0.10	0.011	18.21	0.10	0.011	6.95
12.50	0.492	1/2	14.76	11.49	63.27	0.08	0.009	7.72	0.05	0.006	9.31	0.10	0.011	7.11
9.50	0.374	3/8	6.97	5.42	68.70	0.18	0.009	8.50	0.05	0.003	4.40	0.30	0.016	10.07
6.30	0.248	1/4	8.52	6.63	75.33	0.15	0.010	8.91	0.10	0.007	10.75	0.20	0.013	8.21
3.35	0.132	6	9.17	7.14	82.47	0.13	0.009	7.99	0.05	0.004	5.79	0.20	0.014	8.83
1.70	0.067	10	7.05	5.49	87.95	0.10	0.005	4.92	0.10	0.005	8.90	0.10	0.005	3.40
M I N U S		10	15.48	12.05	100.00	0.13	0.015	13.49	0.05	0.006	9.77	0.20	0.024	14.91
TOTALS			128.49	100.00				100.00			100.00			100.00
CALCULATED ASSAY COMPOSITE ASSAY (Pulv.)						0.11			0.06			0.16		
						0.10			0.10			0.10		

METCON Research

Test: CL-02
Sample: PLMET-12A (Oxide)

Compania Minera Pitalla S.A. de C.V.
METCON Project No.: M-732-01

Metal Extraction by Screen Fraction



Test No. : CL-02

Screen Fraction	Head			Leach Residue			Percent Extraction		Degradation Index (%)
	Weight (kg)	Assays		Weight (kg)	Assays		Au	Ag	
		Au, ppm	Ag, ppm		Au, ppm	Ag, ppm			
+1.5 inch	26.05	1.01	0.23	20.09	0.20	0.08	84.73	74.29	22.88
+1 inch	36.56	0.88	0.18	32.02	0.29	0.13	71.14	37.44	12.42
+3/4 inch	13.05	0.77	0.13	14.43	0.18	0.10	74.71	11.54	-10.57
+1/2 inch	13.78	0.84	0.13	14.76	0.17	0.08	78.19	35.73	-7.11
+3/8 inch	6.99	1.02	0.18	6.97	0.24	0.18	76.91	0.29	0.29
+1/4 inch	7.68	0.86	0.13	8.52	0.14	0.15	81.83	-33.13	-10.94
+6 mesh	8.66	0.88	0.18	9.17	0.20	0.13	76.40	24.36	-5.89
+10 mesh	6.24	1.57	0.23	7.05	0.28	0.10	80.15	49.79	-12.98
<10 mesh	11.18	1.26	0.30	15.48	0.09	0.13	90.07	42.31	-38.46
Total	130.19	0.96	0.18	128.49	0.20	0.11	78.97	40.41	

APPENDIX 5

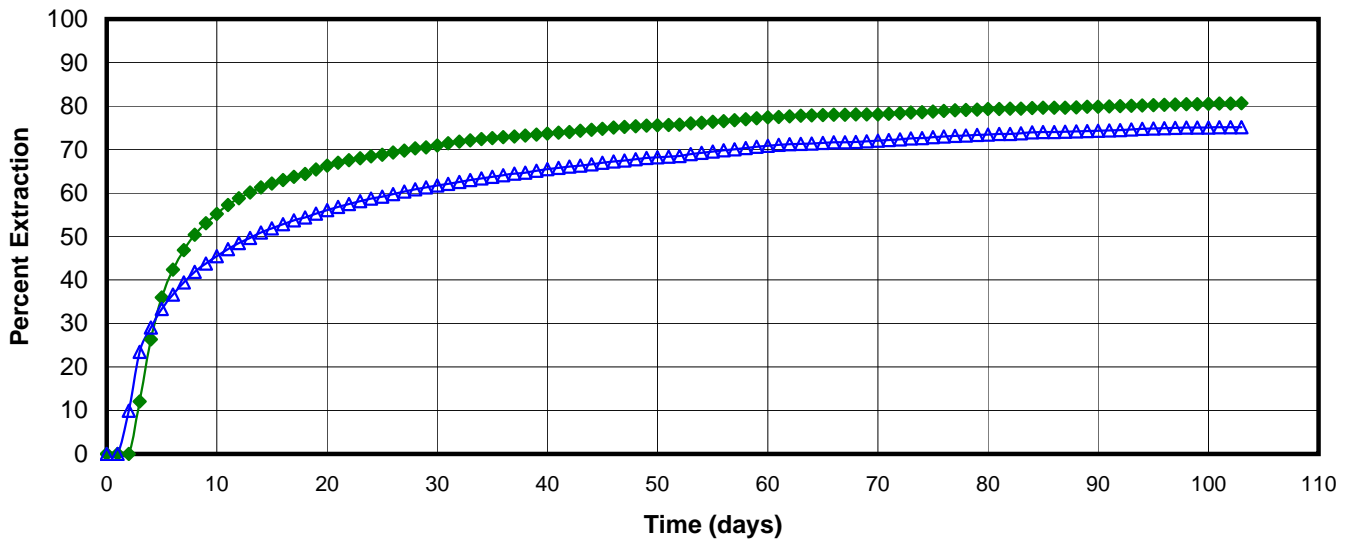
Column Leach Study Summary of Results

SUMMARY OF METALLURGICAL RESULTS
Open Cycle Column Leach Study
Compañia Minera Pitalla S.A. de C.V. - "San Antonio" Project
METCON Project No.: M-732-01

Date: 4/15/2009

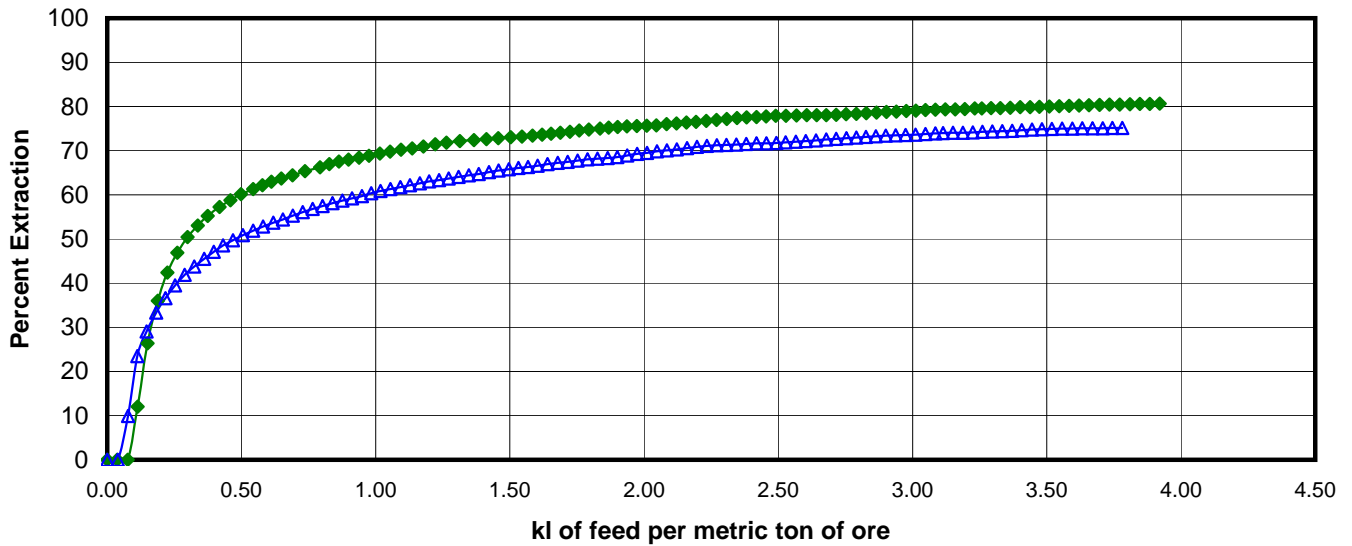
Test No.	Sample ID	Particle Size P ₈₀ (inch)	Application Flow Rate	Cyanide Concentration, g/l	Leach Day	Head Assay		Calculated Head		Indicated Cumulative Extraction				Consumption (kg/t)	
						Au, g/t	Ag, g/t	Au, g/t	Ag, g/t	Au, %	Ag, %	Au, g/t	Ag, g/t	NaCN	CaO
CL-01	PLMET-12A (Oxide)	3/8	6	0.5	111	0.88	0.29	0.87	0.31	80.65	64.13	0.70	0.20	0.06	1.80
CL-02	PLMET-12A (Oxide)	1-1/2	6	0.5	111	0.96	0.18	0.81	0.29	75.15	61.39	0.61	0.18	0.06	1.58

CUMULATIVE GOLD EXTRACTION VERSUS TIME
Sample PLMET-12A (Oxide) - "San Antonio" Project
Open Cycle Column Leach Study



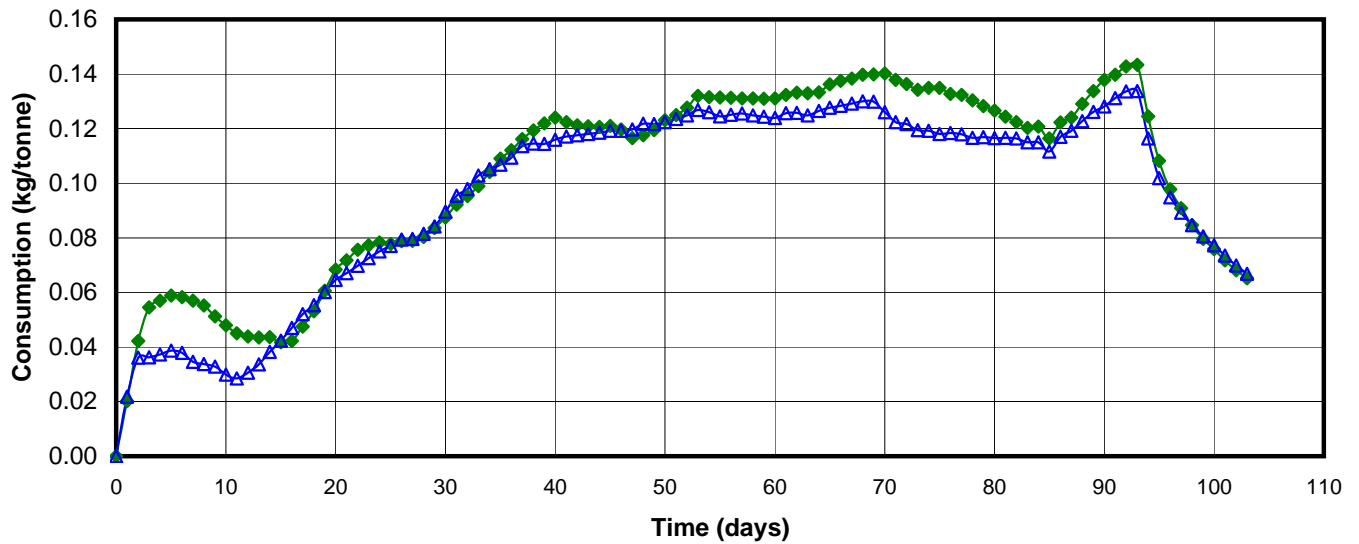
◆ CL-01 Particle Size:P80 3/8"
 ▲ CL-02 Particle Size:P80 1-1/2"

CUMULATIVE GOLD EXTRACTIONUS KILOLITERS OF FEED SOLUTION PER METRIC TON OF ORE
Sample PLMET-12A (Oxide) - "San Antonio" Project
Open Cycle Column Leach Study



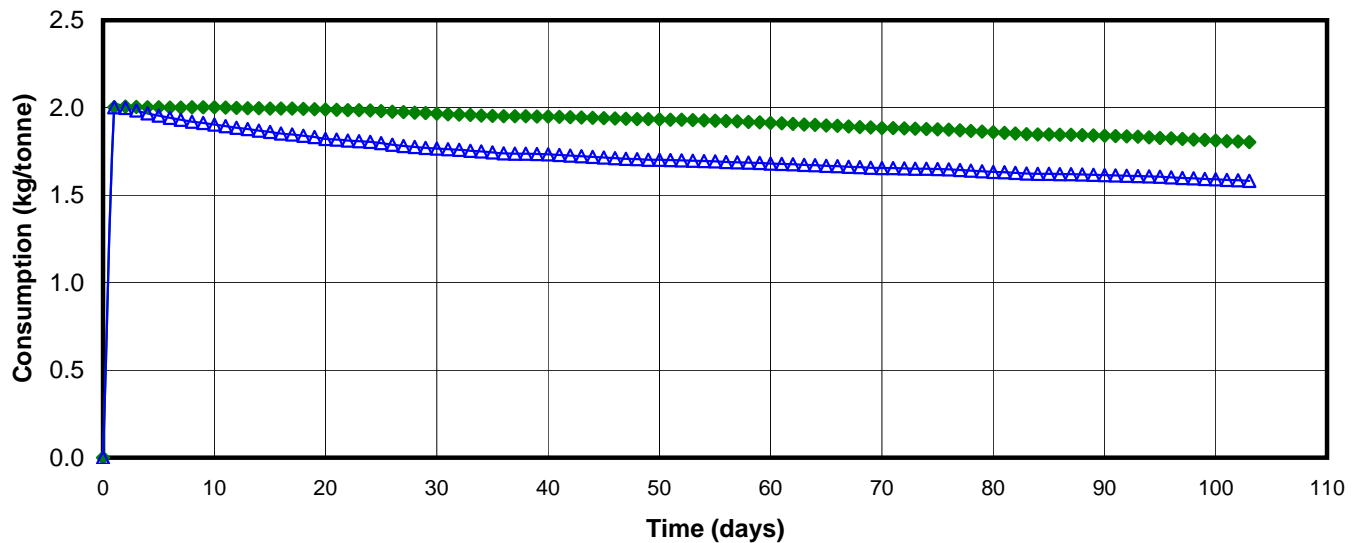
◆ CL-01 Particle Size:P80 3/8"
 ▲ CL-02 Particle Size:P80 1-1/2"

CUMULATIVE NaCN CONSUMPTION VERSUS TIME
Sample PLMET-12A (Oxide) - "San Antonio" Project
Open Cycle Column Leach Study



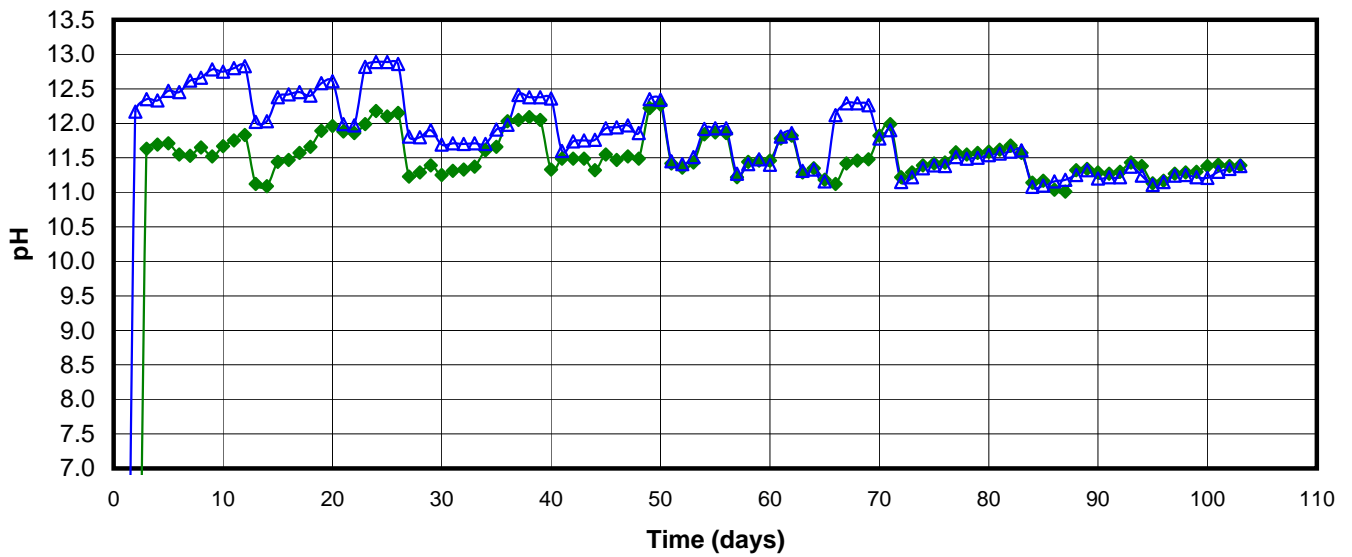
CL-01 Particle Size:P80 3/8" CL-02 Particle Size:P80 1-1/2"

CUMULATIVE CaO CONSUMPTION VERSUS TIME
Sample PLMET-12A (Oxide) - "San Antonio" Project
Open Cycle Column Leach Study



CL-01 Particle Size:P80 3/8" CL-02 Particle Size:P80 1-1/2"

PREGNANT SOLUTION pH VERSUS TIME
Sample PLMET-12A (Oxide) - "San Antonio" Project
Open Cycle Column Leach Study



CL-01 Particle Size:P80 3/8"

CL-02 Particle Size:P80 1-1/2"