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DIST_NO	4010
COUNTY	Pershing
If different from written on document	
TITLE If not obvious	Monthly Progress Report; Rosebud Mine— March 1999; April 19, 1999
AUTHOR	Booth, B; Brown, A; Fudge, T; Cameron, D; Hartman, S; [redacted] Walde, L; Kaufman, R; Miller, C.; Stilwell, J; Summers, A; Mullin, J; Wilson E; Wollant, D; Dean D; Santti, S; Tempel T; Shumway L; Lisle R; Clayton R; Dunstan J; Johnson G; Berezny R; [redacted]
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COMMODITY If not obvious	gold; silver
NOTES	Monthly progress report; production; correspondence; statements of operation; Settlement Sheet; handwritten notes; assays
	44 p.

Keep docs at about 250 pages if no oversized maps attached  
(for every 1 oversized page (>11x17) with text reduce  
the amount of pages by ~25)

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## HECLA MINING COMPANY

April 9, 1999

**MEMORANDUM TO:** George Johnson  
**FROM:** Ron Clayton  
**SUBJECT:** Monthly Progress Report  
Rosebud Mine – March 1999

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Attached is the March 1999 Monthly Progress Report for the Rosebud Mine.

RWC:lmz  
Attachments  
cc: Bill Booth  
Arthur Brown  
Tom Fudge  
Don Cameron  
Scott Hartman  
Mike Callahan  
Roger Kauffman - JV Mgmt. Committee  
Cindy Miller  
John Stilwell  
Al Summers  
Ed Wilson  
Douglas Wollant  
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Rick Berezay  
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Carlin, NV 89822  
Trent Tempel - JV Mgmt. Committee      Twin Creeks Mine  
P.O. Box 69  
Golconda, NV 89414  
Jim Dunstan - Manager for Milling      Twin Creeks Mine  
P.O. Box 69  
Golconda, NV 89414  
Rick Lisle - Manager for Exploration      Newmont Exploration Limited  
861 West Sixth St.  
Winnemucca, NV 89445  
Patty Bowman - Controller      Newmont Gold Company  
555 5<sup>th</sup> St.  
Elko, NV 89801  
Jim Mullin – Sr. Vice President      Newmont Gold Company  
555 5<sup>th</sup> St.  
Elko, NV 89801

◆ Hecla Mining Company Rosebud Mine March Monthly Report

**MINE PERSONNEL AND SAFETY**

**Staff**

During the month two hourly employees were terminated and three were hired. We have 70 hourly employees. Salary employment was unchanged at 27.

We have a total of 97 employees.

**Safety**

There was 1 reportable injury at Rosebud in March. A sampler was barring some loose rocks from high on the rib wall and when they dislodged his momentum took him under the falling material. A rock hit him on the right shoulder. He was taken to the hospital and x-rays showed no fractures, but he ended up with restricted duty making the injury reportable. There was an MSHA inspection the 30<sup>th</sup> and 31<sup>st</sup>. Four citations were issued. All were non-S&S. Rosebud employees have worked 554 days without an MSHA lost-time injury.

**OPERATIONS**

**Development**

The development crews advanced stope 31 access 175 feet and stope 44 access 51 feet. A powder magazine, primer magazine, and transformer cutout were also excavated during the month.

**Production**

Production from stope #21 was 967 tons at a gold grade of .24 opt and a silver grade of 1.01 opt.

Production from stope #22 was 2,288 tons at a gold grade of .338 opt and a silver grade of 4.75 opt.

Production from stope #24 was 706 tons at a gold grade of .237 opt and a silver grade of .34 opt.

Production from stope #25 was 4,899 tons at a gold grade of .886 opt and a silver grade of 1.56 opt.

Production from stope #41 was 4,340 tons at a gold grade of .753 opt and a silver grade of 1.54 opt.

Production from stope #42 was 6,950 tons at a gold grade of .439 opt and a silver grade of 1.44 opt.

Production from stope #43 was 4,050 tons at a gold grade of .363 opt and a silver grade of .62 opt.

◆ Hecla Mining Company Rosebud Mine March Monthly Report

An additional 2,543 tons of waste at a gold grade of .072 opt was mined from the stopes and sorted to the waste pile.

Total ore stockpiled at month's end was 24,200 tons grading .55 Au opt and 1.61 opt silver. Shipment of this material to the Pinon Mill began on March 24.

GEOLOGY

Production

Mine calculated (geology) tonnage and grade for ore shipped during the month of March (February's production – March's milling) was underestimated by 1,154 tons (5.2%) as compared to survey, and out performed (overestimated) the model by 7,216 ounces of gold (112.3%).

Mill results have not been received.

Development

Access is being driven into the North Zone's stope 31. Stope production will begin during the first week of April.

Exploration

The sixth exploration hole (D-346-99) is currently being drilled from the North Zone.

ENGINEERING

Mine Planning

As was anticipated, stope 24 was mined out in March, but completion of stope 22 will not occur until early April. Stopes 41, 42 and 43 are now in production and development of stope 44 has begun. The block model for the north zone was completed and received from the geology group, and mine planning was completed for stopes 31 and 32. Designs for the remaining two north zone stopes will be completed in April.

Ventilation

For the present time, it was decided to not alter the blade adjustment in the 31 vent raise fan. A mine-wide ventilation survey is planned in April, and changing the 31 vent raise fan will be postponed until a new survey is completed.

◆ Hecla Mining Company Rosebud Mine March Monthly Report

Environmental

No federal or state inspections were carried out in the month; however, normal monthly monitoring and data collection continued. Work began on updating water well permits, which are due in June.

Batch Plant

A total of 17,453 tons of cemented backfill was placed in the mine during the month. The fill amount and locations for each stope are listed below:

Location	High Strength (10% cement)	Medium Strength (4% cement)	Low Strength (3% cement)	Total
Stope 22		1,238 tons	1,334 tons	2,572 tons
Stope 24		798 tons		798 tons
Stope 25		4,083 tons		4,083 tons
Stope 41	129 tons			129 tons
Stope 42	1,242 tons	1,574 tons		2,816 tons
Stope 43	1,009 tons	4,678 tons	1,368 tons	7,055 tons
Total	2,381 tons	12,371 tons	2,702 tons	17,453 tons

Other

The individual off work with a non-occupational injury returned on the 22<sup>nd</sup>.

PERFORMANCE

There was no capitalized cost during March. Capitalized costs year-to-date total \$99,818, 70,182 less than budget. Expensed discretionary cost for underground equipment rebuilds totaled \$20,146 during the month and this is the year-to-date total for the year.

The mine produced 24,200 ore tons during March, 2 tons more than budget. The gold grade mined was 0.550 opt, 0.201 better than budget. The silver grade was 1.61 opt, which was 0.23 less than budget. Year-to-date mine production is 71,197 ore tons, 3,123 less than budget, at a

♦ Hecla Mining Company Rosebud Mine March Monthly Report

gold grade of 0.499 opt, 0.151 opt better than budget, and a silver grade of 2.02opt, 0.11 opt less than budget.

During March, the mill recovered 11,850 gold ounces and 32,316 silver ounces, 3,590 more gold ounces and 2,391 more silver ounces than budget. Recoveries during the month were 95.7% for gold and 51.5% for silver, which is 0.3% less and 3.5% less than budget, respectively.

Year-to-date, the mill has recovered 31,631 gold ounces and 105,454 silver ounces, 6,477 more gold ounces and 10,533 more silver ounces than budget. Year-to-date recoveries are 95.7% for gold and 55.0% for silver, which are 0.3% worse and 1.7% better than budget, respectively.

Production costs for March totaled \$1,898,766 (\$78.45 per ore ton mined), \$19,967 less than budget (\$0.85 per ore ton better than budget). Year-to-date production costs total \$5,018,016 (\$70.48 per ore ton mined), \$770,848 less than budget (\$7.41 per ore ton better than budget).

Exploration costs for February totaled \$137,572, which is 43,472 more than budget. Year-to-date exploration costs total \$220,164, which is \$31,564 more than budget.

The per gold ounce produced costs achieved during March were:

• Cash operating cost per gold ounce	\$ 149.50	\$ 65.14 less than budget
• Total cash cost per gold ounce	\$ 167.41	\$ 63.27 less than budget
• Total production cost per gold ounce	\$ 238.94	\$ 63.17 less than budget

The per gold ounce produced costs achieved year-to-date are:

• Cash operating cost per gold ounce	\$ 143.51	\$ 68.34 less than budget
• Total cash cost per gold ounce	\$ 161.88	\$ 66.20 less than budget
• Total production cost per gold ounce	\$ 233.65	\$ 65.94 less than budget

The Rosebud Mining Company, LLC (HMC, operator)  
Statements of Operations - Variances to Budget (LLC Agreement Basis of Accounting)

March 1999

	MONTH			QUARTER TO DATE			YEAR TO DATE		
	Actual	Budget	Variance	Actual	Budget	Variance	Actual	Budget	Variance
Gross production value (GPV)	\$ 3,556,497	\$ 2,642,588	\$ 913,909	\$ 9,625,445	\$ 8,068,266	\$ 1,557,179	\$ 9,625,445	\$ 8,068,266	\$ 1,557,179
Less: Euro Nevada royalty	(142,260)	(105,704)	(36,556)	(385,018)	(322,732)	(62,286)	(385,018)	(322,732)	(62,286)
Less: Shipping and refining	(18,226)	(15,274)	(2,952)	(48,798)	(48,030)	(768)	(48,798)	(48,030)	(768)
Net production value	3,396,011	2,521,610	874,401	9,191,629	7,697,504	1,494,125	9,191,629	7,697,504	1,494,125
Cost of production									
Mine production costs	630,768	508,158	(122,610)	1,655,003	1,560,720	(94,283)	1,655,003	1,560,720	(94,283)
Fixed mining costs	211,415	200,075	(11,340)	619,025	600,225	(18,800)	619,025	600,225	(18,800)
L.L.C. Development	16,574	184,450	167,876	107,564	393,750	286,186	107,564	393,750	286,186
Milling costs	433,286	460,835	27,549	1,173,502	1,390,826	217,324	1,173,502	1,390,826	217,324
Trucking and site processing	324,726	255,549	(69,177)	702,140	802,185	100,045	702,140	802,185	100,045
Site and general administration	246,768	250,125	3,357	622,261	718,175	95,914	622,261	718,175	95,914
Geology	54,888	40,100	(14,788)	149,520	120,300	(29,220)	149,520	120,300	(29,220)
Delineation drilling	42,148	5,000	(37,148)	44,527	40,000	(4,527)	44,527	40,000	(4,527)
Engineering	31,562	35,800	4,238	92,039	107,400	15,361	92,039	107,400	15,361
Change in ore stockpile and in-circuit inventory	(93,369)	(21,359)	72,010	(147,565)	55,283	202,848	(147,565)	55,283	202,848
Total cost of production	1,898,766	1,918,733	19,967	5,018,016	5,788,864	770,848	5,018,016	5,788,864	770,848
Other costs									
Property taxes	7,500	10,000	2,500	22,500	30,000	7,500	22,500	30,000	7,500
Net proceeds taxes	70,010	26,823	(43,187)	196,092	85,469	(110,623)	196,092	85,469	(110,623)
Reclamation expense	29,346	23,895	(5,451)	80,935	75,007	(5,928)	80,935	75,007	(5,928)
Interest (income)	(5,056)	(6,500)	(1,444)	(14,811)	(19,500)	(4,689)	(14,811)	(19,500)	(4,689)
(Gain) loss on the sale of fixed assets	-	-	-	-	3,500	-	-	3,500	-
Depreciation	818,280	566,107	(252,173)	2,189,263	1,723,953	(465,310)	2,189,263	1,723,953	(465,310)
Total other costs	920,080	620,325	(299,755)	2,473,979	1,898,429	(575,550)	2,473,979	1,898,429	(575,550)
Total operating costs	2,818,846	2,539,058	(279,788)	7,491,995	7,687,293	195,298	7,491,995	7,687,293	195,298
Exploration expenditures	137,572	94,100	(43,472)	220,164	188,600	(31,564)	220,164	188,600	(31,564)
Discretionary expenditures	20,146	-	(20,146)	20,146	-	(20,146)	20,146	-	(20,146)
Total costs	2,976,564	2,633,158	(343,406)	7,732,305	7,875,893	143,588	7,732,305	7,875,893	143,588
Net income (loss) to Exhibit B	\$ 419,447	\$ (111,548)	\$ 550,995	\$ 1,459,324	\$ (178,389)	\$ 1,637,713	\$ 1,459,324	\$ (178,389)	\$ 1,637,713
Cash operating cost per gold ounce	\$149.50	\$214.64	\$65.14	\$143.51	\$211.85	\$68.34	\$143.51	\$211.85	\$68.34
Total cash costs per gold ounce	\$167.41	\$230.68	\$63.27	\$161.88	\$228.08	\$66.20	\$161.88	\$228.08	\$66.20
Total production costs per gold ounce	\$238.94	\$302.11	\$63.17	\$233.65	\$299.59	\$65.94	\$233.65	\$299.59	\$65.94
Summary of Production									
Tons of ore mined:									
Gold - ounces per ton	24,200	24,198	2	71,197	74,320	(3,123)	71,197	74,320	(3,123)
Silver - ounces per ton	0.550	0.349	0.201	0.499	0.348	0.151	0.499	0.348	0.151
Tons of ore milled:									
Gold - ounces per ton	25,519	24,219	1,300	71,518	76,025	(4,507)	71,518	76,025	(4,507)
Silver - ounces per ton	0.421	0.355	0.066	0.472	0.345	0.127	0.472	0.345	0.127
Mill recovery rate - gold	95.7%	96.0%	-0.3%	95.7%	96.0%	-0.3%	95.7%	96.0%	-0.3%
Mill recovery rate - silver	51.5%	55.0%	-3.5%	56.7%	55.0%	1.7%	56.7%	55.0%	1.7%
Products produced:									
Gold - ounces	11,850	8,260	3,590	31,631	25,154	6,477	31,631	25,154	6,477
Silver - ounces	32,316	29,925	2,391	105,454	94,921	10,533	105,454	94,921	10,533
Employees at end of period:									
Hourly	69	75	6	69	75	6	69	75	6
Salary	27	27	-	27	27	-	27	27	-
Capitalized expenditures	\$ -	\$ 100,000	\$ 100,000	\$ 99,818	\$ 370,000	\$ 270,182	\$ 99,818	\$ 370,000	\$ 270,182

**The Rosebud Mining Company, LLC (IIMC, operator)**  
**Statements of Operations - Variances to Budget (LLC Agreement Basis of Accounting)**

March 1999

	MONTH			QUARTER TO DATE			YEAR TO DATE		
	Actual	Budget	Variance	Actual	Budget	Variance	Actual	Budget	Variance
	\$	\$	\$	\$	\$	\$	\$	\$	\$
Gross production value (GPV)	\$ 146.96	\$ 109.21	\$ 37.75	\$ 135.19	\$ 108.56	\$ 26.63	\$ 135.19	\$ 108.56	\$ 26.63
Less: Euro Nevada royalty	(5.88)	(4.37)	(1.51)	(5.41)	(4.34)	(1.07)	(5.41)	(4.34)	(1.07)
Less: Shipping and refining	(0.75)	(0.63)	(0.12)	(0.69)	(0.65)	(0.04)	(0.69)	(0.65)	(0.04)
Net production value	140.33	104.21	36.12	129.09	103.57	25.52	129.09	103.57	25.52
Cost of production									
Mine production costs	26.06	21.00	(5.06)	23.25	21.00	(2.25)	23.25	21.00	(2.25)
Fixed mining costs	8.74	8.27	(0.47)	8.69	8.08	(0.61)	8.69	8.08	(0.61)
L.L.C. Development	0.68	7.62	6.94	1.51	5.30	3.79	1.51	5.30	3.79
Milling costs	17.90	19.04	1.14	16.48	18.71	2.23	16.48	18.71	2.23
Trucking and site processing	13.42	10.56	(2.86)	9.86	10.79	0.93	9.86	10.79	0.93
Site and general administration	10.20	10.34	0.14	8.74	9.66	0.92	8.74	9.66	0.92
Geology	2.27	1.66	(0.61)	2.10	1.62	(0.48)	2.10	1.62	(0.48)
Delineation drilling	1.74	0.21	(1.53)	0.63	0.54	(0.09)	0.63	0.54	(0.09)
Engineering	1.30	1.48	0.18	1.29	1.45	0.16	1.29	1.45	0.16
Change in ore stockpile and in-circuit inventory	(3.86)	(0.88)	2.98	(2.07)	0.74	2.81	(2.07)	0.74	2.81
Total cost of production	78.45	79.30	0.85	70.48	77.89	7.41	70.48	77.89	7.41
Other costs									
Property taxes	0.31	0.41	0.10	0.32	0.40	0.08	0.32	0.40	0.08
Net proceeds taxes	2.89	1.11	(1.78)	2.75	1.15	(1.60)	2.75	1.15	(1.60)
Reclamation expense	1.21	0.99	(0.22)	1.14	1.01	(0.13)	1.14	1.01	(0.13)
Interest (income)	(0.21)	(0.27)	(0.06)	(0.21)	(0.26)	(0.05)	(0.21)	(0.26)	(0.05)
(Gain) loss on the sale of fixed assets	-	-	-	-	0.05	0.05	-	0.05	0.05
Depreciation	33.81	23.39	(10.42)	30.75	23.20	(7.55)	30.75	23.20	(7.55)
Total other costs	58.01	25.63	(12.38)	54.75	25.55	(9.20)	54.75	25.55	(9.20)
<b>Total operating costs</b>	<b>116.46</b>	<b>101.93</b>	<b>(11.53)</b>	<b>105.23</b>	<b>103.44</b>	<b>(1.79)</b>	<b>105.23</b>	<b>103.44</b>	<b>(1.79)</b>
Exploration expenditures	5.68	3.89	(1.79)	3.09	2.54	(0.55)	3.09	2.54	(0.55)
Discretionary expenditures	0.83	-	(0.83)	0.28	-	(0.28)	0.28	-	(0.28)
<b>Total costs</b>	<b>122.97</b>	<b>108.82</b>	<b>(14.15)</b>	<b>108.60</b>	<b>105.98</b>	<b>(2.62)</b>	<b>108.60</b>	<b>105.98</b>	<b>(2.62)</b>
Net income (loss) to Exhibit B	\$ 17.36	\$ (4.61)	\$ 21.97	\$ 20.49	\$ (2.41)	\$ 22.90	\$ 20.49	\$ (2.41)	\$ 22.90
Cash operating cost per gold ounce	\$149.50	\$214.64	\$65.14	\$143.51	\$211.85	\$68.34	\$143.51	\$211.85	\$68.34
Total cash costs per gold ounce	\$167.41	\$230.68	\$63.27	\$161.88	\$228.08	\$66.20	\$161.88	\$228.08	\$66.20
Total production costs per gold ounce	\$238.94	\$302.11	\$63.17	\$233.65	\$299.59	\$65.94	\$233.65	\$299.59	\$65.94
<b>Summary of Production</b>									
Tons of ore mined:									
Gold - ounces per ton	24,200	24,198	2	71,197	74,320	(3,123)	71,197	74,320	(3,123)
Silver - ounces per ton	0.550	0.349	0.201	0.499	0.348	0.151	0.499	0.348	0.151
Tons of ore milled:									
Gold - ounces per ton	25,519	24,219	1,300	71,518	76,025	(4,507)	71,518	76,025	(4,507)
Silver - ounces per ton	0.421	0.355	0.066	0.172	0.345	0.127	0.472	0.345	0.127
Mill recovery rate - gold	95.7%	96.0%	-0.3%	95.7%	96.0%	-0.3%	95.7%	96.0%	-0.3%
Mill recovery rate - silver	51.5%	55.0%	-3.5%	56.7%	55.0%	1.7%	56.7%	55.0%	1.7%
Products produced:									
Gold - ounces	11,850	8,260	3,590	31,631	25,154	6,477	31,631	25,154	6,477
Silver - ounces	32,316	29,925	2,391	105,454	94,921	10,533	105,454	94,921	10,533
Employees at end of period:									
Hourly	69	75	6	69	75	6	69	75	6
Salary	27	27	-	27	27	-	27	27	-
Capitalized expenditures	\$ -	\$ 100,000	\$ 100,000	\$ 99,818	\$ 370,000	\$ 270,182	\$ 99,818	\$ 370,000	\$ 270,182

CONFIDENTIAL

The Rosebud Mining Company, LLC  
 Hecla Mining Company, Operator  
 Discretionary Cost Statement  
 (LLC Agreement Basis of Accounting)

March 1999

	MONTH			YEAR TO DATE			INCEPTION TO DATE		
	Actual	Budget	Variance	Actual	Budget	Variance	Actual	Budget	Variance
Capitalized Discretionary							18,977,867	25,615,591	6,637,724
Total Capital Spending through 1998									
Vehicles:				20,000	20,000		20,000	20,000	
Light pickup trucks (0402) 92-2210-672									
Equipment:									
Water Well #4 (0402) 92-2210-605									
U/G equipment (0402) 92-2210-xxx									
Development:									
U/G development (0401) 92-2110-xxx and (0402) 92	100,000	100,000		99,818	350,000	250,182	99,818	350,000	250,182
Total Capitalized Discretionary	\$ -	\$ 100,000	\$ 100,000	\$ 99,818	\$ 370,000	\$ 270,182	\$ 19,077,685	\$ 25,985,591	\$ 6,907,906
Expensed Discretionary							405,140	407,506	2,366
Total Discretionary Spending through 1998									
Bioremediation Site (9126) 99-0001-xxx									
Underground equipment rebuilds (9126) 99-0002-xxx	20,146		(20,146)	20,146		(20,146)	20,146		(20,146)
Total Expensed Discretionary	\$ 20,146	\$ -	\$ (20,146)	\$ 20,146	\$ -	\$ (20,146)	\$ 425,286	\$ 407,506	\$ (17,780)

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**ROSEBUD JOINT VENTURE MEMORANDUM**

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**TO:** JIM DUNSTAN  
**FROM:** DALE R. DEAN  
**SUBJECT:** APRIL 1999 MONTHLY REPORT  
**DATE:** APRIL 7, 1999  
**CC:** RON CLAYTON

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**SUMMARY**

Rosebud lot 99003 was campaigned through Pinon mill from March 10<sup>th</sup> through March 23<sup>rd</sup> for a total run time of 13.29 days at 95.38% total availability. Downtime included 1.03 hours for zero speed switch repairs, 1.0 hour SAG feed chute repair, 0.5 hour Ball Mill VFD fault and 0.42 hour to repair a cam gate resulting in a mechanical availability of 99.1%. Operational downtime included 11.45 hours for 39 SAG feed chute plugs, 0.25 hour out of feed and 0.08 hours for 1 grind out resulting in an operational availability of 96.3%. This resulted in an average throughput rate of 83.87 dry short tons per hour or 2012.8 dry short tons per day for the run. Processed ore of 25,518.8 dry short tons averaged 0.441 Au oz/st and 2.662 Ag oz/st based on the TCO sampler head grade reported on the metallurgical balance sheet. A reconciled head grade based on poured metal, change in inventory and ounces lost to tails calculated as 0.421 Au oz/st and 2.360 Ag oz/st. Back calculated contained head values were 10,753.57 Au ounces and 60231.1 Ag ounces, which yield a recovery of 95.7 % Au and 51.5 % Ag, based on final reconciliation. Poured metal was settled at 11,849.52 Au ounces and 32,316.35 Ag ounces.

Metallurgical balance head ounces and mine estimated head ounces Vs poured metal back calculated head ounces variance was as follows:

	Au	Au Var.	Ag	Ag Var.
Met Balance (Contained Oz's)	11257.0	4.5%	67928.9	10.3%
Mine Estimate (Contained Oz's)	14100.0	23.7%	70500.0	14.6%
Back Calc (Poured Metal)	10753.6		60231.1	

## **April Forecast**

24,200 Dry Short Tons at 0.550 Au opt and 1.610 Ag opt. Gold and silver recovery for the lot will be 96% and 60% respectively, which will yield 12,778 gold ozs and 23,377 silver ozs.

## **Circuit Highlights**

### **Grinding**

The average grind for March milling was 86.5% passing -200 mesh based on laboratory determination of 12-hour shift composites. Shift composites for % solids ranged from 20.8 to 30.9% with an average of 25.61% for the run. There were 39 SAG feed chute plugs during the run caused by worn out liners in the feed chute. This resulted in lower densities on average due to the up and down nature of the circuit. The grinding circuit performed well during the run.

The TCO sampler performed well with only minor plugging problems. Sampler cleaning has improved and was acceptable.

### **CIL**

Carbon loading peaked at approximately 243 opt (total) during the campaign. The silver to gold ratio on the loaded carbon was approximately 2.3:1. CIL profile and carbon operating isotherms for the March run indicate low loading, solution and solids values for gold in the lower tanks. This is due to lower values on stripped carbon going back to CIL.

### **Stripping**

A total of 34 batches of Rosebud carbon totaling 340 tons were stripped in a 21-day period. Stripping was not in operation during March 4<sup>th</sup> to March 11<sup>th</sup> due to low loadings or density and from March 28<sup>th</sup> through month's end while Juniper carbon was processed at Pinon. Loaded carbon averaged 45.93 Au opt and 107.69 Ag opt and stripped carbon averaged 17.08 Au opt and 30.31 Ag opt for a 62.8% Au and 71.9% Ag stripping recovery rate (Based on 39 strips). Approximately 94% of the Rosebud stripped carbon was acid washed and 74% was reactivated in the kiln (Based on 34 strips).

### **Tailings**

The tails sampling system operated without incident during the run. Based on 300 tons estimated to have been sent to tails during the down period, approximately 34 Au ounces and 738 Ag ounces were probably lost to tails.

## Projects

The primary cyclone overflow will be screened using existing equipment as a safety to prevent coarse material from plugging the cyclone clusters in the event of a SAG overload. This was planned prior to the February run but will be completed after the tails thickener project is finished. The tails thickener project was completed for start up of the April run. The primary cyclone project is approximately 30% complete. An acid wash system for the Funda filters is planned for April.

A handwritten signature in black ink, appearing to read "Dale P. Dean".

## 1999 Gold Balance

Rosebud Ore Processing  
At The Newmont Pinon Mill

Month	Jan-99	Feb-99	Mar-99	1st Qrt	1999
Pinon Met Oz	0.00	0.00	0.00	0.00	0.00
Rose Met Oz	9977.71	9930.80	10797.80	30706.31	30706.31
Total Met Oz	9977.71	9930.80	10797.80	30706.31	30706.31
Poured Oz	8584.780	10835.100	11849.520	31269.400	31269.400
Ending Inventory	3406.60	3657.68	2102.52	2102.52	2102.52
Begin Inventory	1433.81	3406.60	3657.68	1433.81	1433.81
Inventory Change	1972.79	251.08	(1555.16)	668.71	668.71
 Total Rec.	 579.86	 1155.38	 (503.44)	 1231.80	 1231.80
To Rosebud	579.86	1155.38	(503.44)	1231.80	1231.80
To Pinon	0.00	0.00	0.00	0.00	0.00
 Rosebud Tails	 633.7	 369.3	 459.2	 1462.2	 1462.2
Mill Tons	24521.4	21478.1	25518.8	71518.3	71518.3
Total Head Oz's	11191.22	11455.48	10753.56	33400.26	33400.3
Adj. Recovery	94.34%	96.78%	95.73%	95.62%	95.62%
Adj. Head OPT	0.456	0.533	0.421	0.467	0.467

## 1999 Silver Balance

Rosebud Ore Processing  
At The Newmont Pinon Mill

Month	Jan-99	Feb-99	Mar-99	1st Qrt	1999
Pinon Met Oz	0.00	0.00	0.00	0.00	0.00
Rose Met Oz	46144.71	28422.60	38708.50	113275.81	113275.81
Total Met Oz	46144.71	28422.60	38708.50	113275.81	113275.81
Poured Oz	36617.350	25551.510	32316.350	94485.210	94485.210
Ending Inventory	3801.56	6187.75	4882.15	4882.15	4882.15
Begin Inventory	4279.30	3801.56	6187.75	4279.30	4279.30
Inventory Change	(477.74)	2386.19	(1305.60)	602.85	602.85
 Total Rec.	 (10005.10)	 (484.90)	 (7697.75)	 (18187.75)	 (18187.75)
To Rosebud	(10005.10)	(484.90)	(7697.75)	(18187.75)	(18187.75)
To Pinon	0.00	0.00	0.00	0.00	0.00
 Rosebud Tails	 34844.8	 17038.0	 29220.3	 81103.1	 81103.1
 Mill Tons	 24521.4	 21478.1	 25518.8	 71518.3	 71518.3
 Total Head Oz's	 70984.41	 44975.70	 60231.05	 176191.16	 176191.16
 Adj. Recovery	 50.91%	 62.12%	 51.49%	 53.97%	 53.97%
 Adj. Head OPT	 2.895	 2.094	 2.360	 2.464	 2.464

**Newmont Gold Company - Twin Creeks Mine**  
**ROSEBUD MONTHLY SETTLEMENT SHEET**

**Lot 99003**

**March-99**

To: Jim Sigurdson  
 From : Suart Myrhow  
 Date: 4/5/99

**Final**

FACILITY	Last Month Ending Inventory	This Month Ending Inventory	Monthly Indicated Production	Theoretical Production	Ounces Poured	Accounting Discrepancy
Piñon Mill Gold	3,657.68	2,102.52	10,797.83	12,352.99	11,849.52	(503.46)
Piñon Mill Silver	6,187.75	4,882.15	38,708.54	40,014.14	32,316.35	(7,697.79)

	GOLD	SILVER
Poured Ounces to Rosebud (oz)	11,849.52	32,316.35
Adjustment to Rosebud Settlement	0.00	0.00
Final Rosebud Settlement	11,849.52	32,316.35

**Lot 99003 Metallurgical Balance**

Dry Tons	Gold Grade oz/t	Troy Ounces	Silver Grade oz/t	Troy Ounces
Feed 25,518.8	0.441	11,257.0	2.662	67,928.9
Tails	0.0180	459.2	1.145	29,220.3
Recovered	95.9%	10,797.8	57.0%	38,708.5
Reconciled Feed Ounces		10,753.57		60,231.1
Adjusted Feed Grade	0.421		2.36	
Adjusted Recovery	95.7%		51.5%	

Reviewed by:

Twin Creeks

Date:

Rosebud Joint Venture

Date: 4-6-99

Approval Twin Creeks

\_\_\_\_\_  
 \_\_\_\_\_

Date:

Approval Hecla Mining Co.

\_\_\_\_\_  
 \_\_\_\_\_

Date:

Metal Sales Application  
Month To Date Fine Ounces Poured (MSS3050)  
For Production Period 9903  
Newmont Gold Company - Nevada Operations

Area: ROSEBUD JV CIRCUIT

Refinery Week	Refinery	Melt Nr	Melt Date	Gross Oz	Au Fineness	Au Fine Oz	Ag Fineness	Ag Fine Oz		
03/01/99 - 03/07/99	TC	50132	03/04/99	4973.280	270.162	1343.591	655.160	3258.294		
		Week Totals		4973.280		1343.591		3258.294		
03/08/99 - 03/14/99	TC	50147	03/08/99	2235.240	278.045	621.497	625.610	1398.406		
		Week Totals		2235.240		621.497		1398.406		
03/15/99 - 03/21/99	TC	50280	03/16/99	982.980	258.563	254.162	595.018	584.891		
	TC	50311	03/18/99	5046.880	292.902	1478.241	656.016	3310.834		
		Week Totals		6029.860		1732.404		3895.725		
03/22/99 - 04/03/99	TC	50400	03/23/99	6912.680	240.171	1660.225	714.027	4935.840		
	TC	50494	03/25/99	5640.980	254.350	1434.783	705.650	3980.558		
	TC	50496	03/25/99	3049.980	253.065	771.843	708.792	2161.801		
	TC	50596	03/30/99	5849.820	232.219	1358.439	732.453	4284.718		
	TC	50597	03/30/99	3585.140	238.905	856.508	717.781	2573.345		
	TC	50655	04/01/99	6574.920	222.635	1463.807	711.804	4680.054		
		Week Totals		31613.520		7545.606		22616.317		
Totals For This Area				44851.900		11243.098		31168.742		
Grand Total - All Areas				44851.900		11243.098		31168.742		
								,096 PER GOLD RECON ,741		

STUART  
MYRHOW  
54713

JUNIPER  
PINON  
FURNACE DUST

70,345.239  
67,778.666  
11,243.096  
4,400.692 6,967.265  
85,989.027

11,478,567  
10,699.700  
10,699.700  
31,168.741  
2,347.103 1570.7  
44,142.784  
44,217.544

**Metal Sales Application**  
**Month To Date Fine Ounces Poured (MSS3050)**  
**For Production Period 9903**  
**Newmont Gold Company - Nevada Operations**

Area: TWIN CREEKS BULLION CIRCUIT

Refinery	Week	Refinery	Melt Nr	Melt Date	Gross Oz	Au Fineness	Au Fine Oz	Ag Fineness	Ag Fine Oz
03/01/99 - 03/07/99	TC				0.000	0.000	0.000	0.000	0.000
			Week Totals		0.000		0.000		0.000
03/08/99 - 03/14/99	TC	MIXED F. DUST	50148	03/08/99	1002.300	748.404	750.125	202.854	203.321
	TC		50179	03/09/99	6314.300	838.787	5296.353	103.247	651.933
	TC		50200	03/10/99	4402.480	842.079	3707.236	105.174	463.026
	TC		50230	03/11/99	3195.360	839.788	2683.425	107.566	343.712
	TC		50238	03/12/99	1403.600	841.613	1181.288	113.223	150.920
	TC	J. F. DUST	50239	03/12/99	798.240	730.768	583.328	193.520	154.475
	TC		50484	03/12/99	0.001	450.000	0.000	450.000	0.000
			Week Totals		17116.281		14201.756		1975.387
03/15/99 - 03/21/99	TC	P. F. DUST	50256	03/15/99	6932.620	794.541	5508.251	149.981	1039.761
	TC		50281	03/16/99	381.500	675.330	257.638	263.348	100.467
	TC		50284	03/17/99	3562.600	789.037	2811.023	147.525	525.573
	TC		50338	03/19/99	4099.160	807.891	3311.674	142.845	585.545
	TC	J. F. DUST	50344	03/19/99	1143.360	752.653	860.553	179.604	205.352
			Week Totals		16119.240		12749.140		2456.698
03/22/99 - 04/03/99	TC		50376	03/22/99	3780.680	798.479	3018.794	137.003	517.965
	TC		50436	03/24/99	5923.800	831.226	4924.017	115.992	687.113
	TC		50512	03/26/99	6501.360	838.225	5449.602	111.538	725.149
	TC		50559	03/29/99	8196.960	816.210	6690.441	130.519	1135.435
	TC		50624	03/31/99	9807.480	812.168	7965.321	133.409	1308.406
	TC	J. F. DUST	50625	03/31/99	933.560	698.553	652.141	226.769	211.702
	TC	P. F. DUST	50656	04/01/99	565.960	693.003	392.212	247.089	139.842
	TC	<del>STRUCT</del>	50657	04/02/99	6201.560	794.055	4924.380	142.055	880.963
	TC		50666	04/03/99	3632.980	706.465	2566.573	214.388	778.867
	TC		50667	04/03/99	5610.840	812.539	4559.026	120.018	673.402
	TC	P. F. DUST	50668	04/03/99	984.460	561.640	552.912	366.068	360.379
			Week Totals		52139.640		41695.419		7419.223
				50669	6002.860	812.409	4876.777	113.725	682.675
Totals For This Area					85375.161		68646.315		11851.308
				50670	1299.960	670.064	871.059	246.255	320.122
Grand Total - All Areas					85375.161		68646.315		11851.308
					573.700	613.182	351.783	339.373	194.698

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J. F. DUST 50671

74,745.93  
74,745.93

13,048.803  
13,048.803

NEWMONT GOLD - TWIN CREEKS MINE  
METAL ACCOUNT ANALYSIS 1998 ,1999

4/5/99

M R SHIP	I E LOT	R SHIP	SHIPPED TOTAL OUNCES	PRELIMINARY GOLD ASSAY	SHIPPED GOLD OUNCES	GOLD SHIPPING ADJUST	GOLD REFINERY ADJUST	FINAL GOLD RETURNED	SHIPPED SILVER OUNCES	SILVER SHIPPING ADJUST	SILVER REFINERY ADJUST	FINAL SILVER RETURNED
L F												
1022B	d	AH	3/12/99	1,002.300	74.840	20.285	750.125		203.321			
1022G	d	AH	3/12/99	798.240	73.077	19.352	583.328		154.475			
1023C	d	PA	3/19/99	381.500	67.533	26.335	257.638		100.467			
1023G	d	PA	3/19/99	1,143.360	75.265	17.960	860.553		205.352			
1026G	d	PA	4/2/99	933.560	69.855	22.677	652.141		211.702			
1026I	d	PA	4/2/99	565.960	69.300	24.709	392.212		139.842			
1027C	d	AH	4/9/99	984.460	56.164	36.607	552.912		360.379			
1027F	d	AH	4/9/99	573.700	61.318	33.937	351.783		194.698			
1022C	J	AH	3/12/99	6,314.300	83.879	10.325	5,296.353		651.933			
1022D	J	AH	3/12/99	4,402.480	84.208	10.517	3,707.236		463.026			
1022E	J	AH	3/12/99	3,195.360	83.979	10.757	2,683.425		343.712			
1022F	J	AH	3/12/99	1,403.600	84.161	11.322	1,181.288		158.920			
1022S	J	AH	3/12/99	0.001	45.000	45.000						
1023A	J	PA	3/19/99	6,932.620	79.454	14.998	5,508.251		1,039.761			
1023D	J	PA	3/19/99	3,562.600	78.904	14.753	2,811.023		525.573			
1023F	J	PA	3/19/99	4,099.160	80.789	14.285	3,311.674		585.545			
1024A	J	AH	3/26/99	3,780.680	79.848	13.700	3,018.794		517.965			
1024C	J	AH	3/26/99	5,923.800	83.123	11.599	4,924.017		687.113			
1024F	J	AH	3/26/99	6,501.360	83.823	11.154	5,449.602		725.149			
1026A	J	PA	4/2/99	4,603.540	81.621	13.852	3,757.455		637.678			
1026B	J	PA	4/2/99	3,593.420	81.621	13.852	2,932.985		497.757			
1026E	J	PA	4/2/99	5,405.260	81.217	13.341	4,389.979		721.110			
1026F	J	PA	4/2/99	4,402.220	81.217	13.341	3,575.342		587.296			
1026J	J	PA	4/2/99	6,201.560	79.406	14.206	4,924.380		880.963			
1027A	J	AH	4/9/99	3,632.980	70.647	21.439	2,566.573		778.867			
1027B	J	AH	4/9/99	5,610.840	81.254	12.002	4,559.026		673.402			
1027D	J	AH	4/9/99	6,002.860	81.241	11.373	4,876.777		682.675			
1027E	J	AH	4/9/99	1,299.960	67.007	24.626	871.059		320.122			
1021K	P	PA	3/5/99	4,973.280	27.016	65.516	1,343.591		3,258.294			
1022A	P	AH	3/12/99	2,235.240	27.805	62.562	621.497		1,398.406			
1023B	P	PA	3/19/99	982.980	25.856	59.502	254.162		584.891			
1023E	P	PA	3/19/99	5,046.880	29.290	65.602	1,478.241		3,310.834			
1024B	P	AH	3/26/99	6,912.680	24.017	71.403	1,660.225		4,935.840			
1024D	P	AH	3/26/99	5,640.980	25.435	70.565	1,434.783		3,980.558			
1024E	P	AH	3/26/99	3,049.980	25.307	70.879	771.843		2,161.801			
1026C	P	PA	4/2/99	5,849.820	23.222	73.245	1,358.439		4,284.718			
1026D	P	PA	4/2/99	3,585.140	23.891	71.778	856.508		2,573.345			
1026H	P	PA	4/2/99	6,574.920	22.264	71.180	1,463.807		4,680.054			
Piñon				44,851.900			11,243.096		31,168.741			
Juniper				86,868.601			70,345.239		11,478.567			
Dust				6,383.080			4,400.692		1,570.236			

NEWMONT GOLD - TWIN CREEKS MINE  
METAL ACCOUNT ANALYSIS 1998, 1999

4/5/99

M	R	SHIPPED	PRELIMINARY	SHIPPED	GOLD	GOLD	FINAL	SHIPPED	SILVER	SILVER	FINAL
SHIP	I	DATE	TOTAL	GOLD	GOLD	SHIPPING	REFINERY	GOLD	SHIPPING	REFINERY	SILVER
LOT	L	SHIP	OUNCES	ASSAY	OUNCES	ADJUST	ADJUST	RETURNED	ADJUST	ADJUST	RETURNED
Mar-99			138,103.581		85,989.027				44,217.544		

	Gold		Dust	Total		Silver		Dust	Total
Piñon	11,243.096	13.8%	606.427	11,849.523		31,168.741	73.1%	1,147.605	32,316.346
Juniper	70,345.239	86.2%	3,794.265	74,139.504		11,478.567	26.9%	422.631	11,901.198
Total	81,588.335		4,400.692	85,989.027		42,647.308		1,570.236	44,217.544

Con 4965.4  
2452.1

**TWIN CREEKS**  
**SOUTH AREA PROCESS GOLD INVENTORY**

Month: **Macrh 1999**  
 Samples Dated: **CIL**      **3/24/99**  
 Samples Dated: **DL**      **3/31/99**

PINON MILL	GOLD	SILVER
1. MILL CIL CIRCUIT:	3,691.15	11,612.62
2. STRIP/REGEN	1,052	2,147
3. STRIP SOLUTIONS:	181	87
<b>TOTAL</b>	<b>4,924.76</b>	<b>13,846.92</b>

PINON DUMP LEACH	GOLD
1. DUMP CIC CIRCUIT:	0
2. MILL CIC CIRCUIT:	0
<b>TOTAL</b>	<b>1,163.77</b>

**1. MILL CIL CIRCUIT:**

TANK No.	Freeboard Height (in)	Solid Density (% solids)	VOL. OF SAMPLE (ml)	CARBON W (gram)	CARBON AU ASSAY (oz/t)	CARBON AG ASSAY (oz/t)	CARBON CONC. (g/l)	CARBON WEIGHT (tons)	GOLD ON CARBON (oz)	SILVER ON CARBON (oz)
1A	24	28	2,250	67.56	43.720	147.740	30.0	35.8	1,564.95	5,288.36
1B	24	30	2,750	50.62	65.769	183.440	18.4	21.9	1,443.20	4,025.29
2A	21	29	2,850	27.23	19.702	92.631	9.6	5.2	102.24	480.68
2B	19	30	2,500	25.23	39.666	129.439	10.1	5.5	218.70	713.66
3A	36	30	2,700	25.79	14.889	72.171	9.6	5.0	73.82	357.84
3B	20	30	2,700	32.72	10.573	45.455	12.1	6.6	69.79	300.06
4A	33	29	2,750	24.64	12.046	30.187	9.0	4.7	56.54	141.70
4B	12	30	2,500	21.55	13.518	28.656	8.6	4.8	64.97	137.72
5	45	30	2,850	42.32	12.935	22.327	14.8	7.5	96.93	167.31
<b>TOTAL</b>				<b>38.06</b>	<b>119.72</b>		<b>97.0</b>	<b>3,691.15</b>	<b>11,612.62</b>	

**2. STRIP/REGEN**

CARBON LOCATION	Depth to Carbon (in)	CARBON DENSITY (g/l)	CARBON AU ASSAY (oz/t)	CARBON AG ASSAY (oz/t)	CARBON WEIGHT (tons)	GOLD ON CARBON (oz)	SILVER ON CARBON (oz)
Acid Wash Tank					0.0	0.0	0.0
Kiln Feed Tank	165.0	615	9.683	12.833	3.5	33.8	44.8
Quench Tank					0.0	0.0	0.0
Loaded Carbon	54.5	655	47.234	132.895	9.8	463.7	1,304.6
Stripped Carbon	47.0	606	15.268	17.689	8.6	130.9	151.6
Strip Vessel	30.0	622	36.895	57.224	10.6	392.3	608.5
Carbon Conditioning					0.0	0.0	0.0
Other Carbo (fines)					0.0	0.0	0.0
Other: Tails Splitter	35.0	645	12.235	14.598	2.6	31.8	38.0
<b>TOTAL</b>					<b>35.1</b>	<b>1,052.5</b>	<b>2,147.4</b>

**3. STRIP SOLUTIONS:**

TANK LEVEL	SOLUTION (%)	SOLUTION AU ASSAY (oz/t)	SOLUTION AG ASSAY (oz/t)	SOLUTION WEIGHT (tons)	GOLD IN SOLUTION (oz)	SILVER IN SOLUTION (oz)
PREG TANK	40.30	0.99	0.35	173.46	172.11	60.71
BARREN TANK	19.30	0.11	0.32	83.07	9.05	26.20
<b>TOTAL</b>				<b>256.53</b>	<b>181.16</b>	<b>86.91</b>

**1. DUMP CIC CIRCUIT:**

TANK No.	Depth to Carbon (in)	CARBON DENSITY (g/l)	CARBON AU ASSAY (oz/t)	DEPTH OF CARBON (ft)	CARBON WEIGHT (tons)	GOLD ON CARBON (oz)
1				9.3	-	-
2				9.3	-	-
3				9.3	-	-
4				9.3	-	-
5				9.3	-	-
TOTAL		0.00			-	-

**2. MILL CIC CIRCUIT:**

TANK No.	DEPTH TO CARBON (IN)	CARBON DENSITY (g/l)	CARBON AU ASSAY (oz/t)	DEPTH OF CARBON (ft)	CARBON WEIGHT (tons)	GOLD ON CARBON (oz)
1				11.0	-	-
2				11.0	-	-
3				11.0	-	-
4				11.0	-	-
5				11.0	-	-
TOTAL		0.00			-	-

Note 1

The Piñon Mill Inventory was taken on 36243.

The additional stripped gold was poured out in melts , 50596, 50655, x,.

The melted material was subtracted from the carbon inventory for 36243.

The EOM totals are shown below:

Melt	Au	Ag
50596	1358.439	4284.718
50655	1463.807	4680.054

x            x            x

Total	2,822.25	8,964.77
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Piñon Mill Carbon Inventory

	Carbon	Poured	Total EOM
Au	4,924.76	2,822.25	2,102.52
Ag	13,846.92	8,964.77	4,882.15

Transystems Haulage to Pinion Mill  
Campaign # 99003

MONTH: Mar-99

Date	Rosebud Tons			Transystems Billed	Variance (over billed)
	Day Shift	Night Shift	Total		
2/21/99	152.37	581.91	734.28	734.28	0.00
2/22/99	550.46	393.07	943.53	983.26	(39.73)
2/23/99	505.73	472.98	978.71	938.98	39.73
2/24/99	512.07	475.97	988.04	988.04	0.00
2/25/99	428.77	510.46	939.23	939.23	0.00
2/26/99	432.58	353.21	785.79	785.79	0.00
2/27/99	478.79	395.07	873.86	873.86	0.00
2/28/99	359.88	359.69	719.57	719.57	0.00
3/1/99	471.90	281.26	753.16	753.16	(0.00)
3/2/99	480.52	441.05	921.57	921.57	(0.00)
3/3/99	558.78	521.76	1,080.54	1,080.54	0.00
3/4/99	556.02	555.42	1,111.44	1,111.44	0.00
3/5/99	435.47	481.08	916.55	916.55	0.00
3/6/99	601.42	359.04	960.46	960.46	0.00
3/7/99	478.25	478.27	956.52	956.52	(0.00)
3/8/99	479.18	604.61	1,083.79	1,083.79	0.00
3/9/99	520.96	638.66	1,159.62	1,159.62	(0.00)
3/10/99	635.96	602.41	1,238.37	1,238.37	0.00
3/11/99	680.66	770.33	1,450.99	1,450.99	0.00
3/12/99	689.56	808.14	1,497.70	1,497.70	(0.00)
3/13/99	653.62	609.53	1,263.15	1,304.18	(41.03)
3/14/99	698.19	692.11	1,390.30	1,349.27	41.03
3/15/99	684.96	732.82	1,417.78		0.00
3/16/99	566.64	811.51	1,378.15		0.00
3/17/99	808.24	267.76	1,076.00		0.00
3/18/99			0.00		0.00
3/19/99			0.00		0.00
3/20/99			0.00		0.00
3/21/99			0.00		0.00
3/22/99			0.00		0.00
3/23/99			0.00		0.00
TOTAL	13,420.98	13,198.12	26,619.10	22,747.17	(0.00)
Variance %					

tons per day 1064.76

dry tons forecast	23362.00
wet tons forecast	25347.77 (8.5%)
tons left on pile (wet)	-1271.33
tons left on pile (dry)	-1171.73
days left (estimate)	-1.19

Rosebud

4/5/99

Mar99

11:38 AM

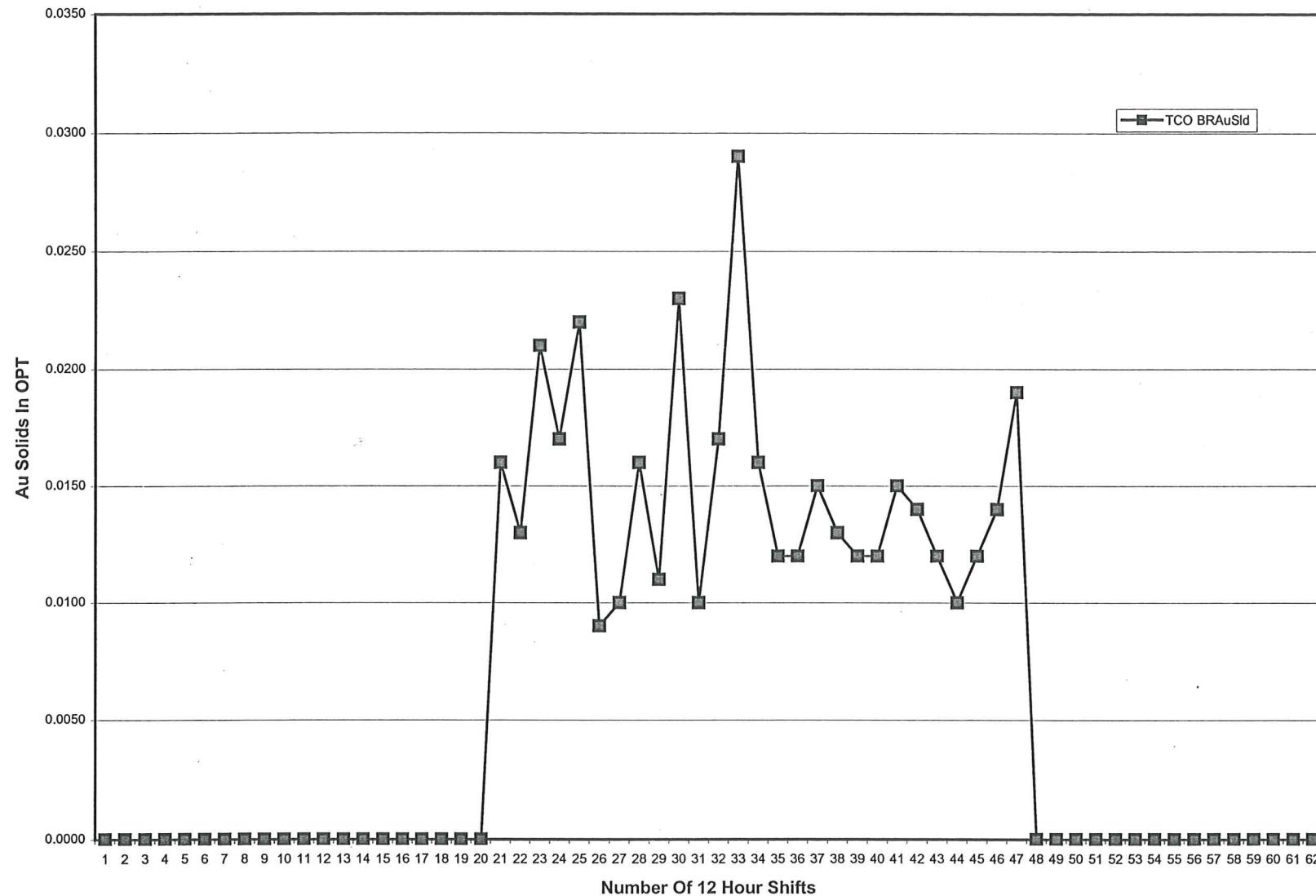
Summary

Lot 99003	Dry Short Tons	Gold		Silver	
		tr. oz / ore ton	troy ounces	tr. oz / ore ton	troy ounces
Feed	25518.8	0.441	11,257.0	2.662	67,928.9
Tails		0.0180	459.2	1.145	29,220.3
Recovered		95.9%	10,797.8	57.0%	38,708.5

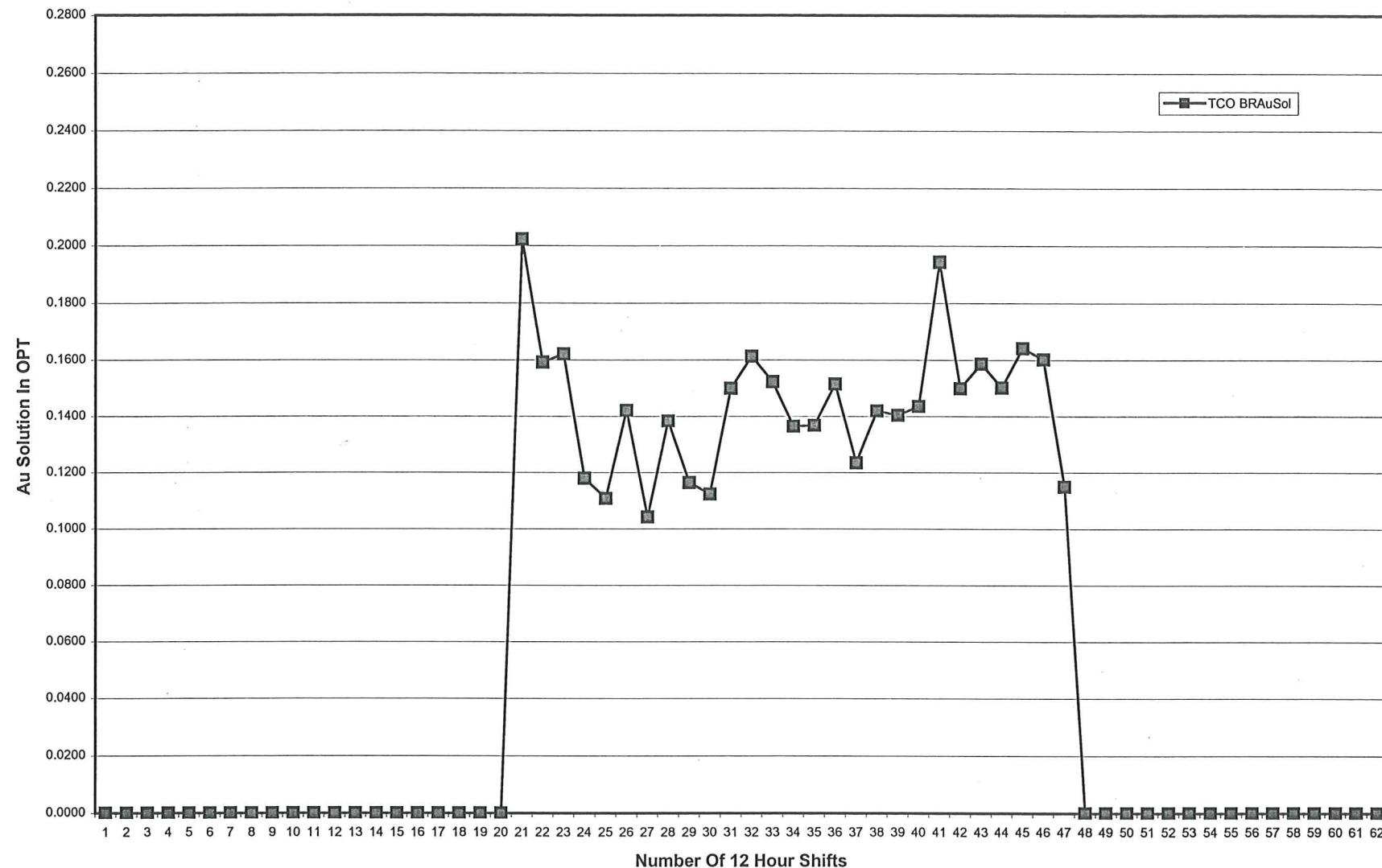




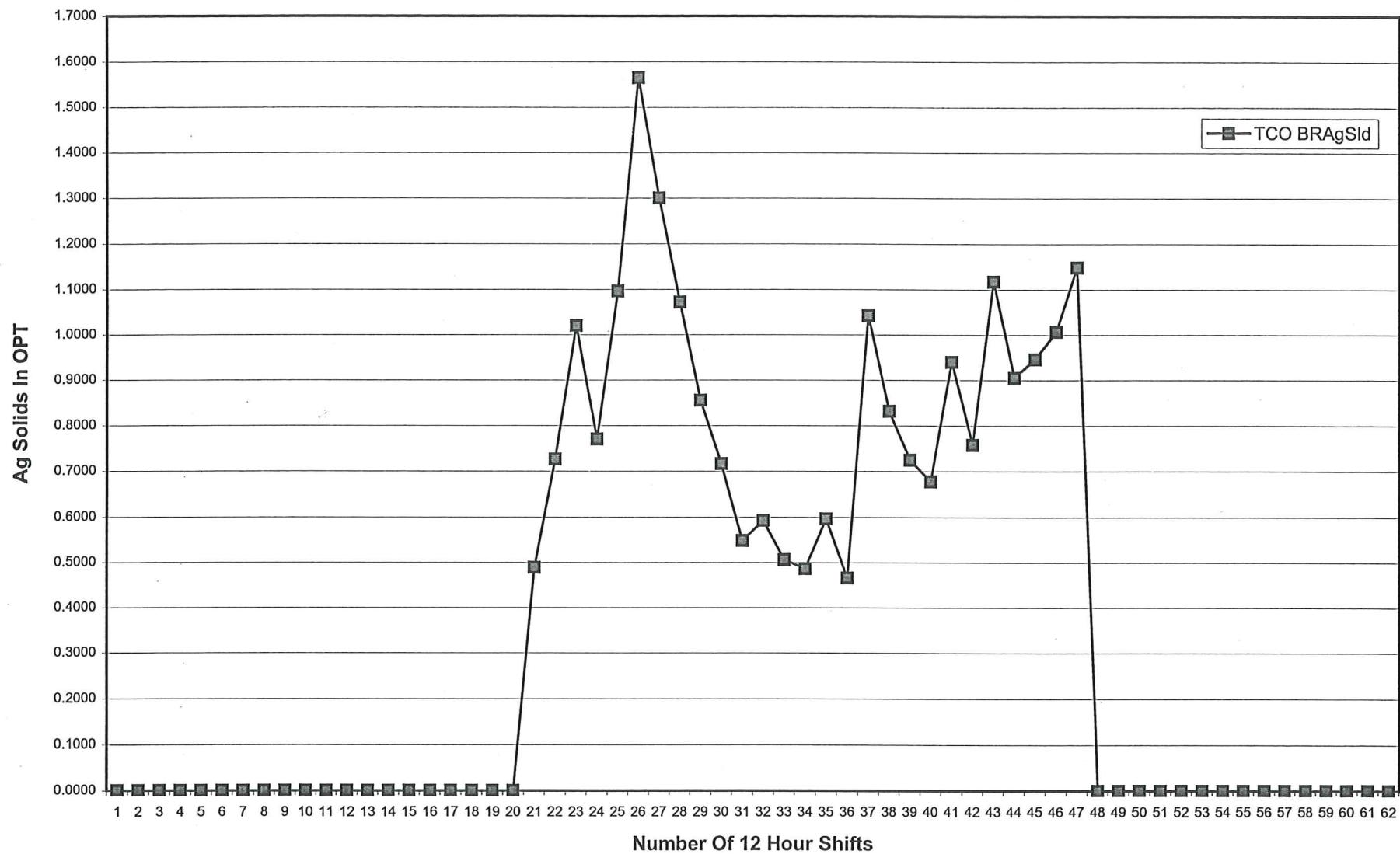
Au TCO Solids Trend - March 99 Bottle Roll



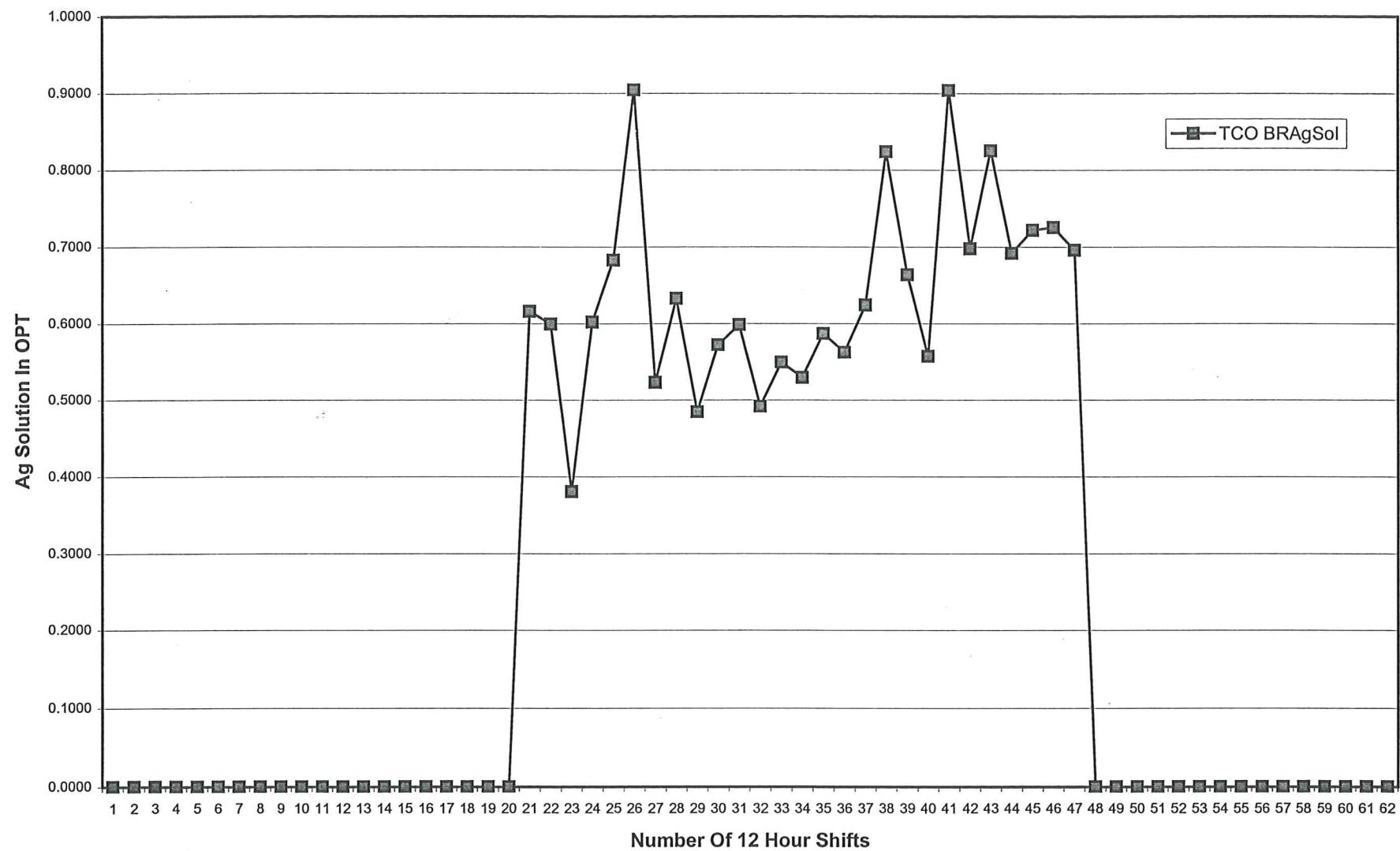
### Au TCO Solution Trend - March 99 Bottle Roll



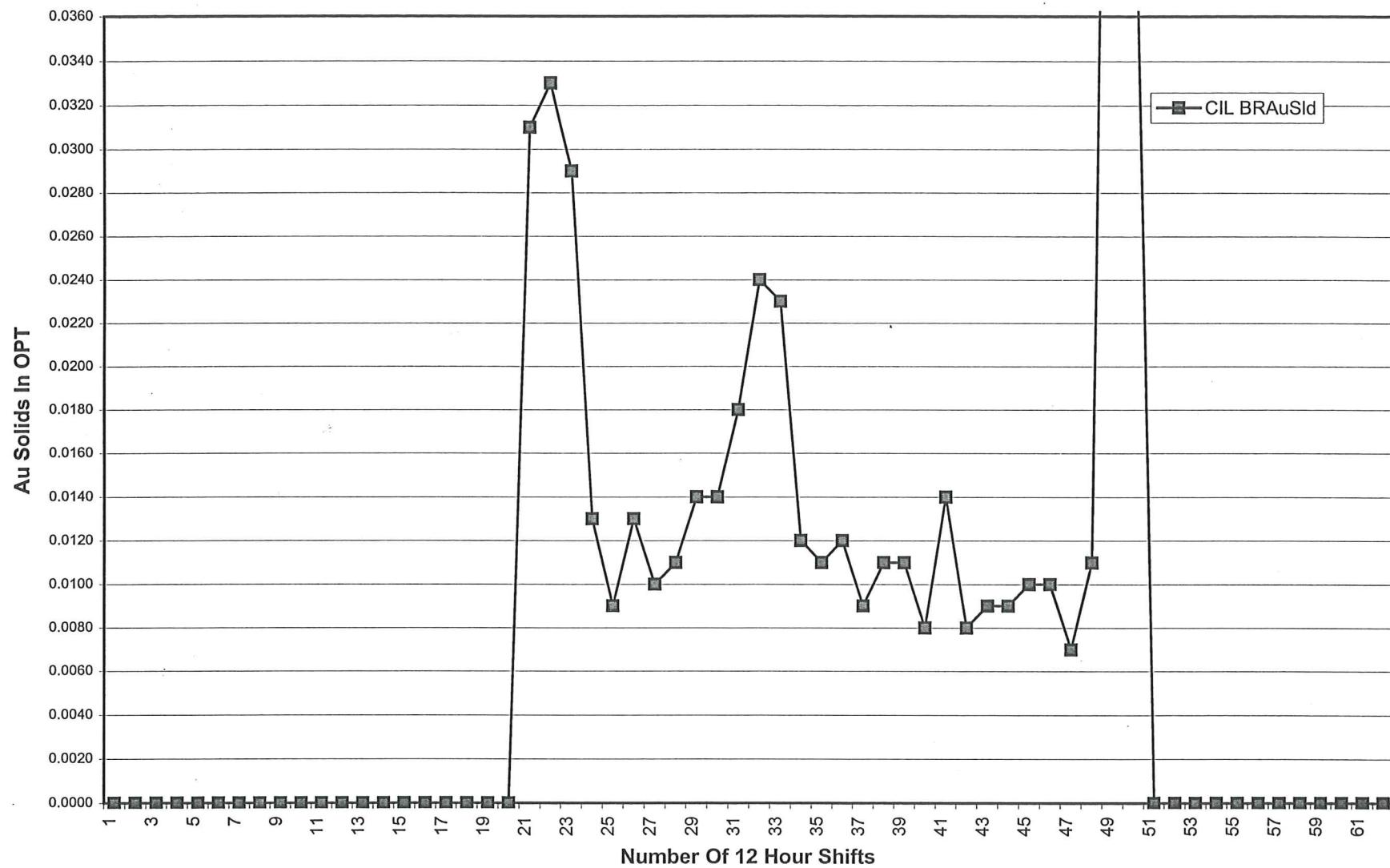
### Ag TCO Solids Trend - March 99 Bottle Roll



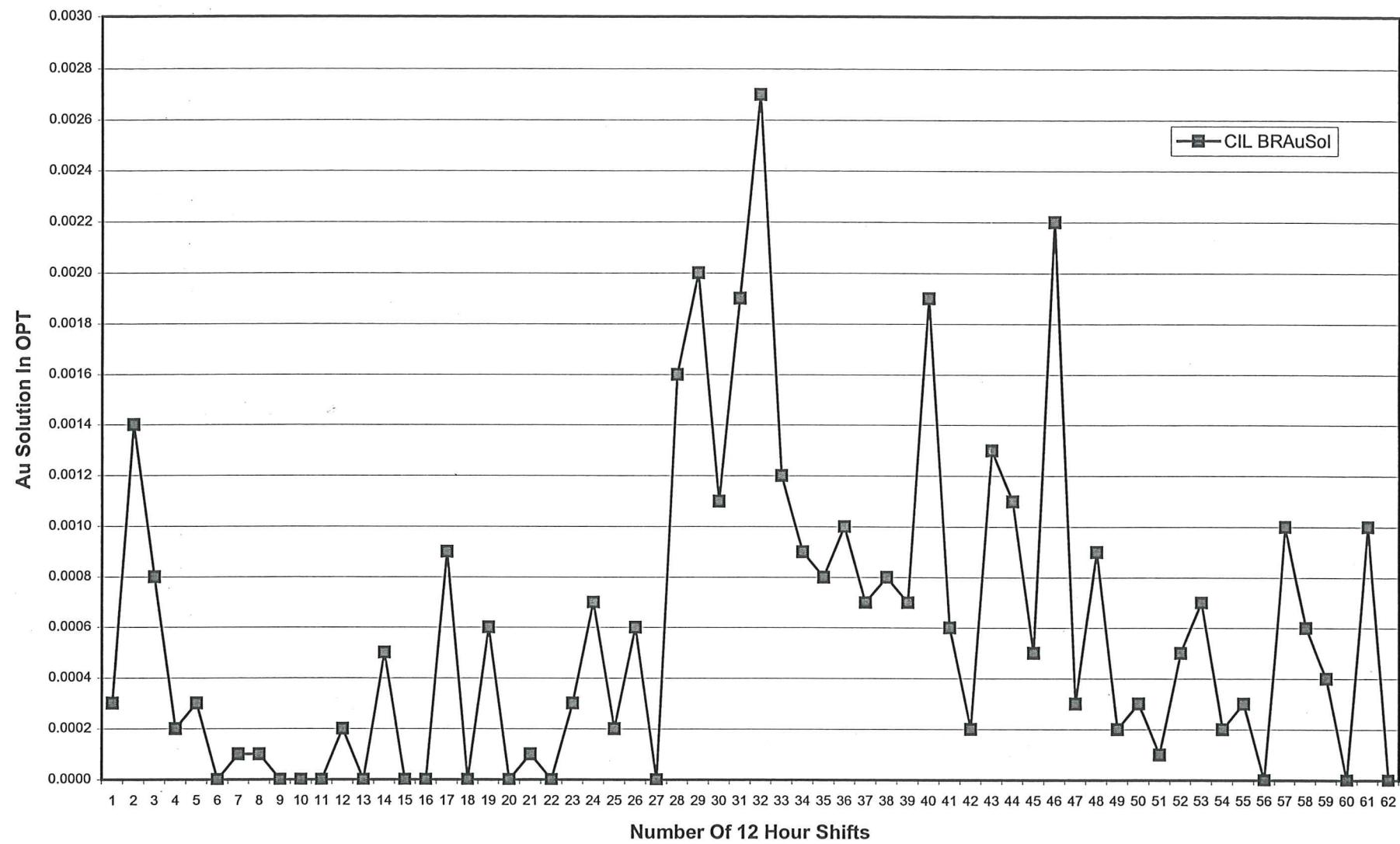
### Ag TCO Solution Trend - March 99 Bottle Roll



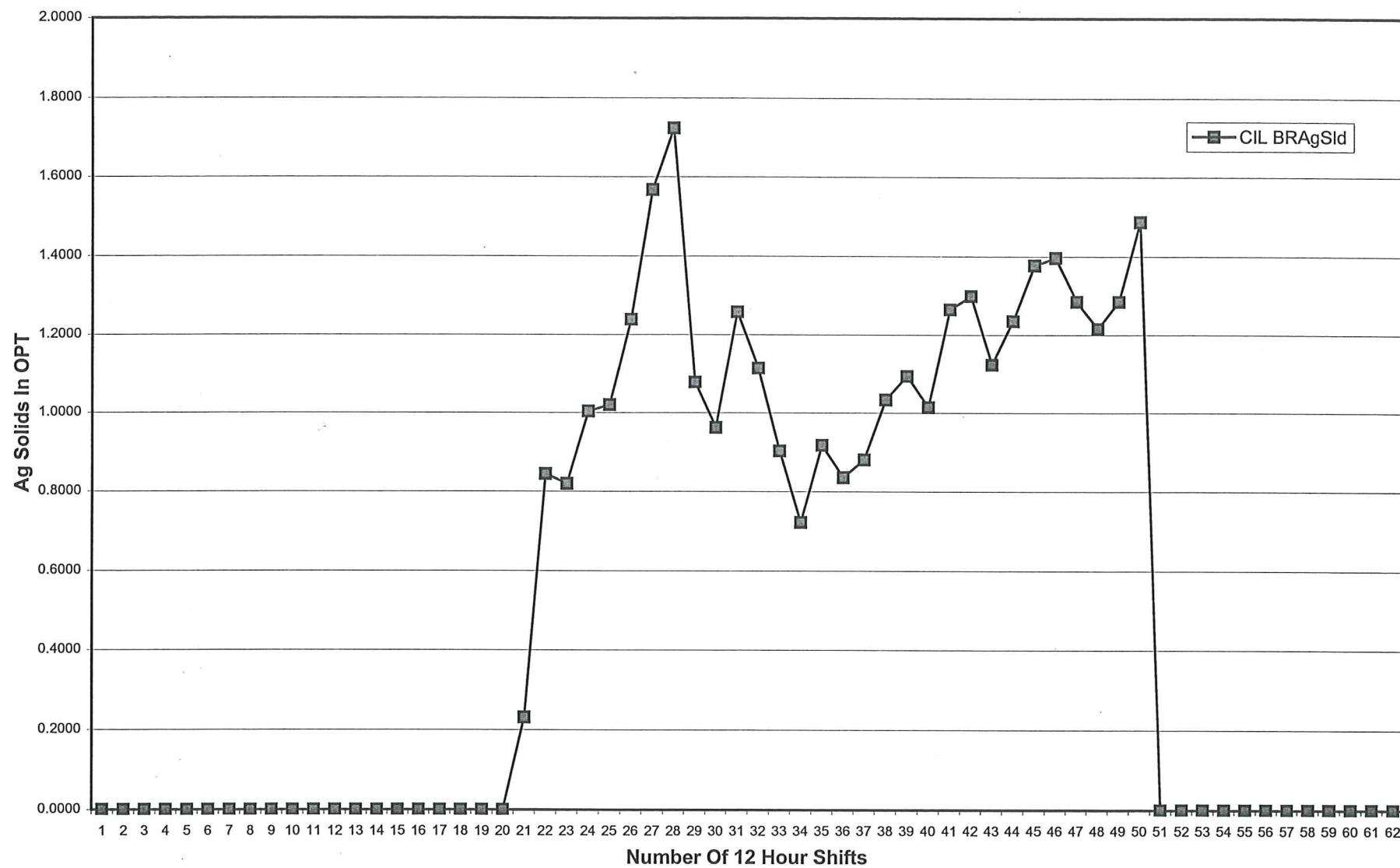
### Au CIL Solids Trend - March 99 Lab Split



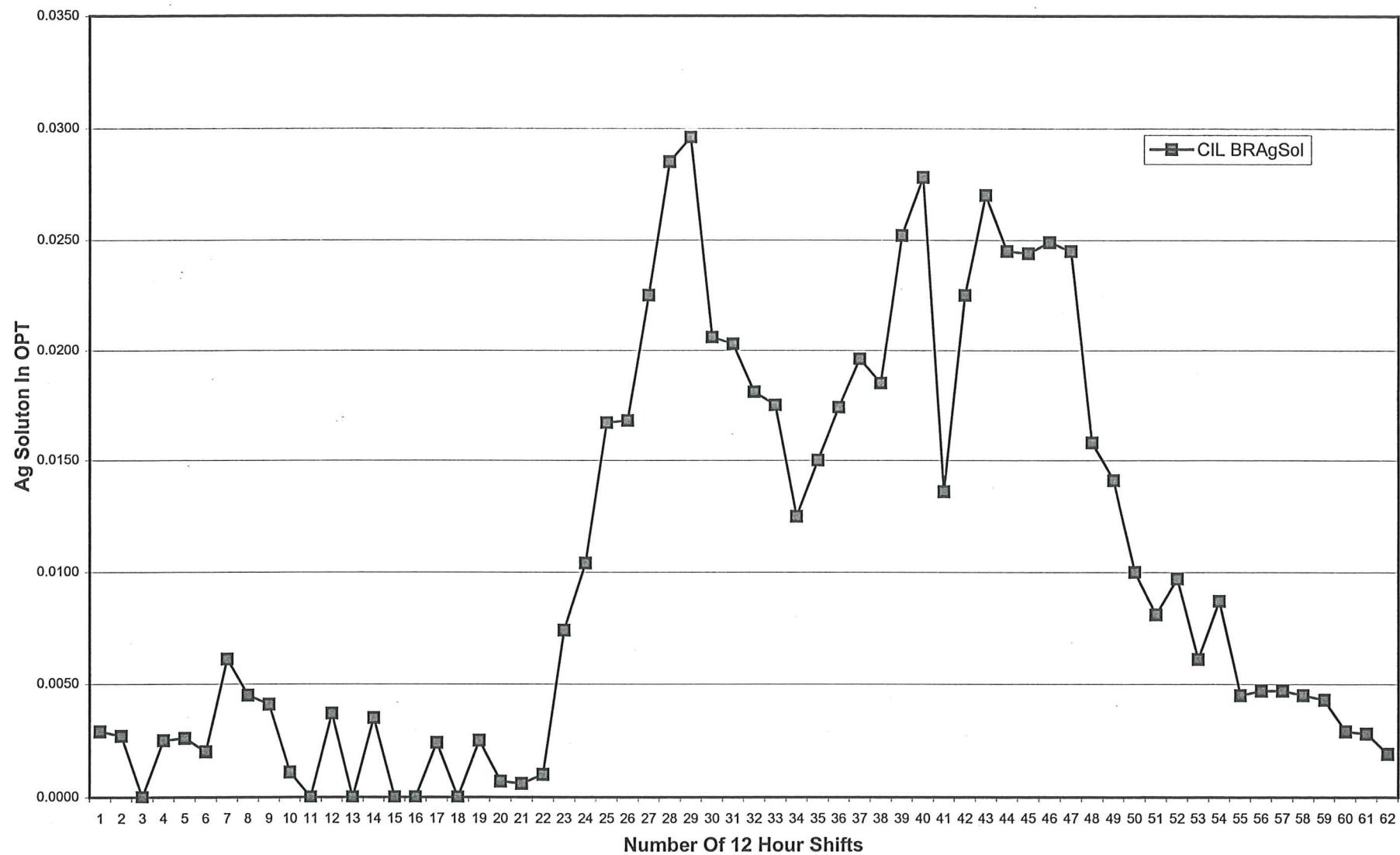
### Au CIL Solution Trend - March 99 Lab Split



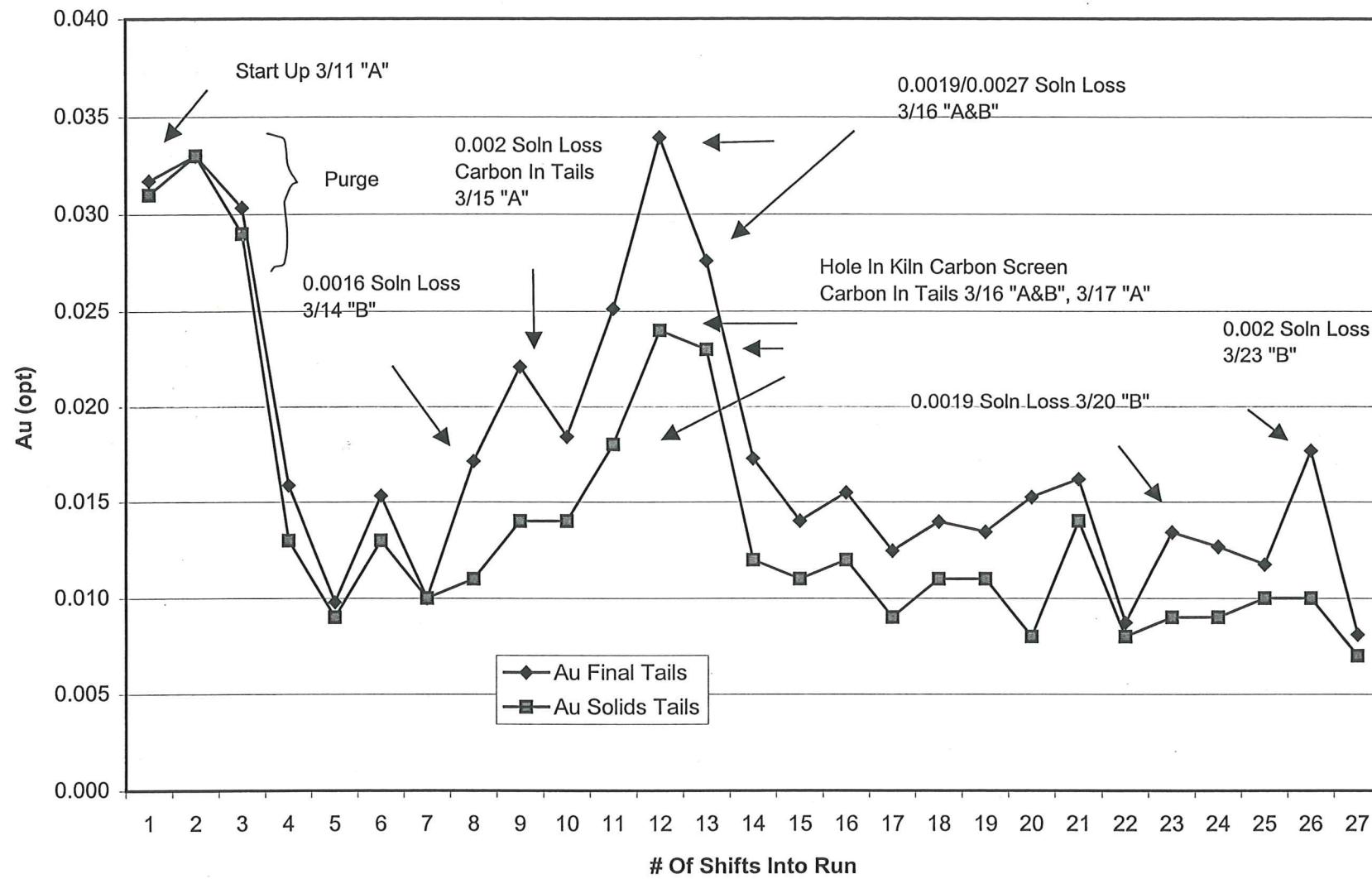
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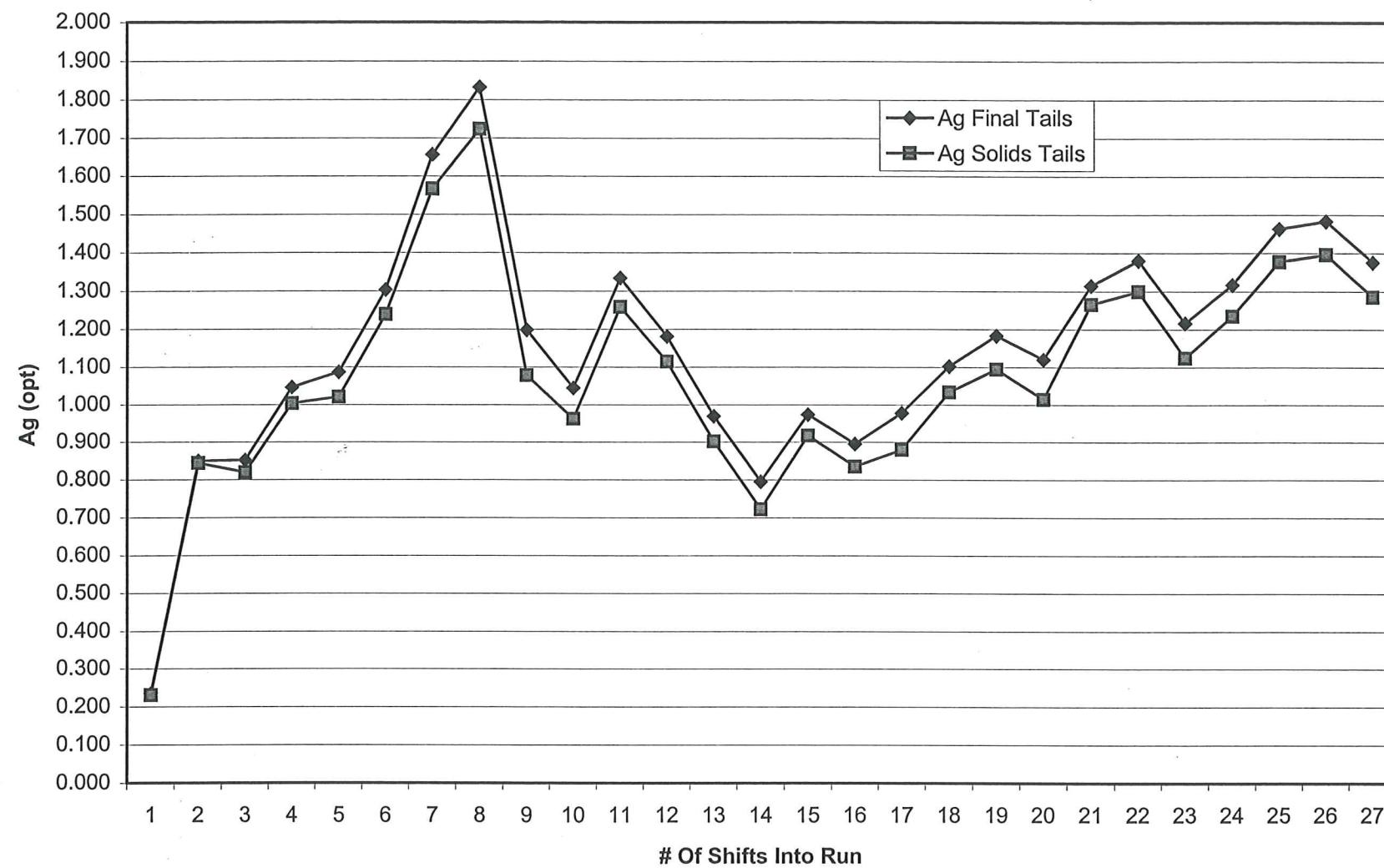
### Ag CIL Solution Trend - March 99 Lab Split



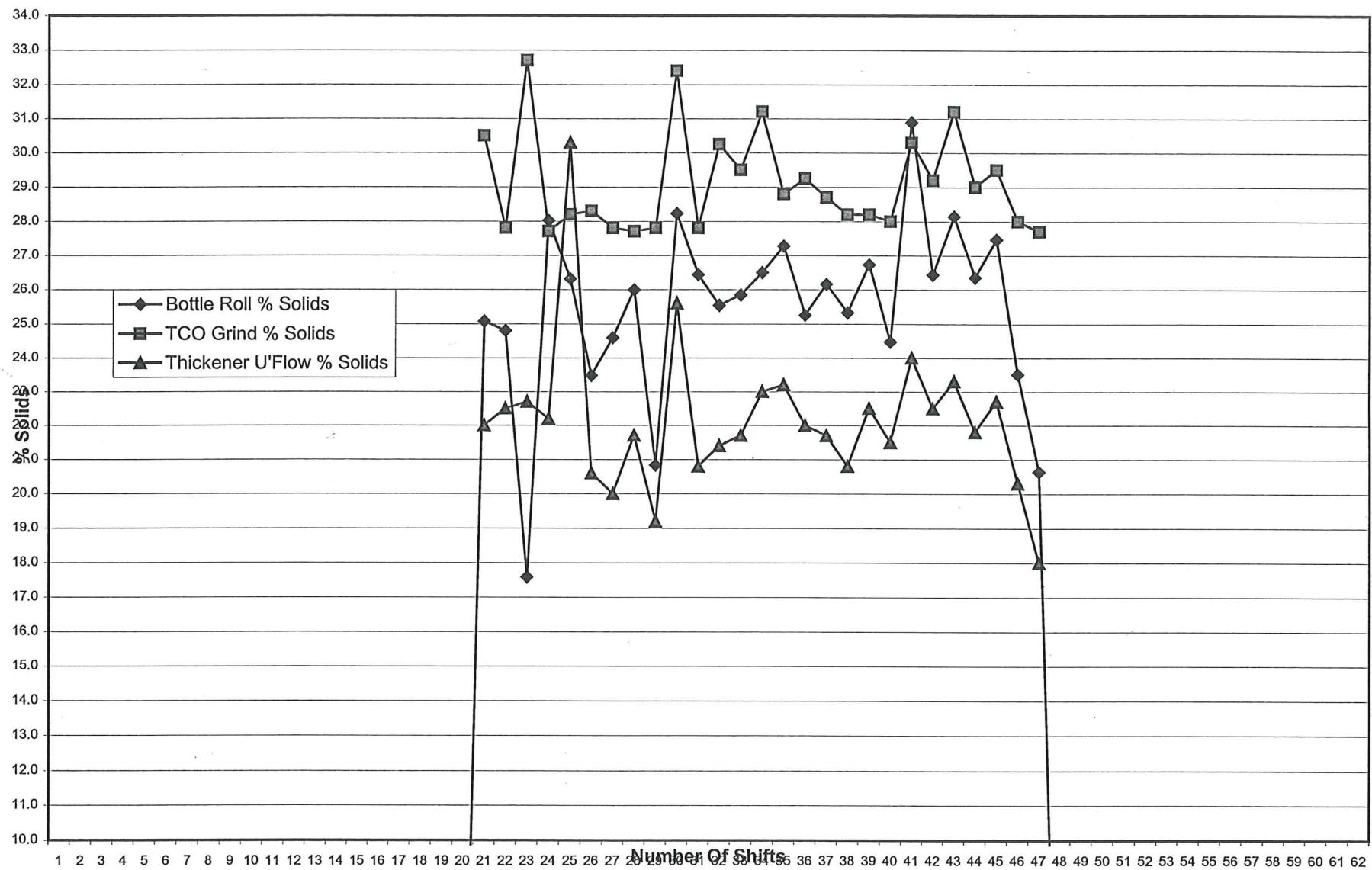
### Mar 99 Au Tails



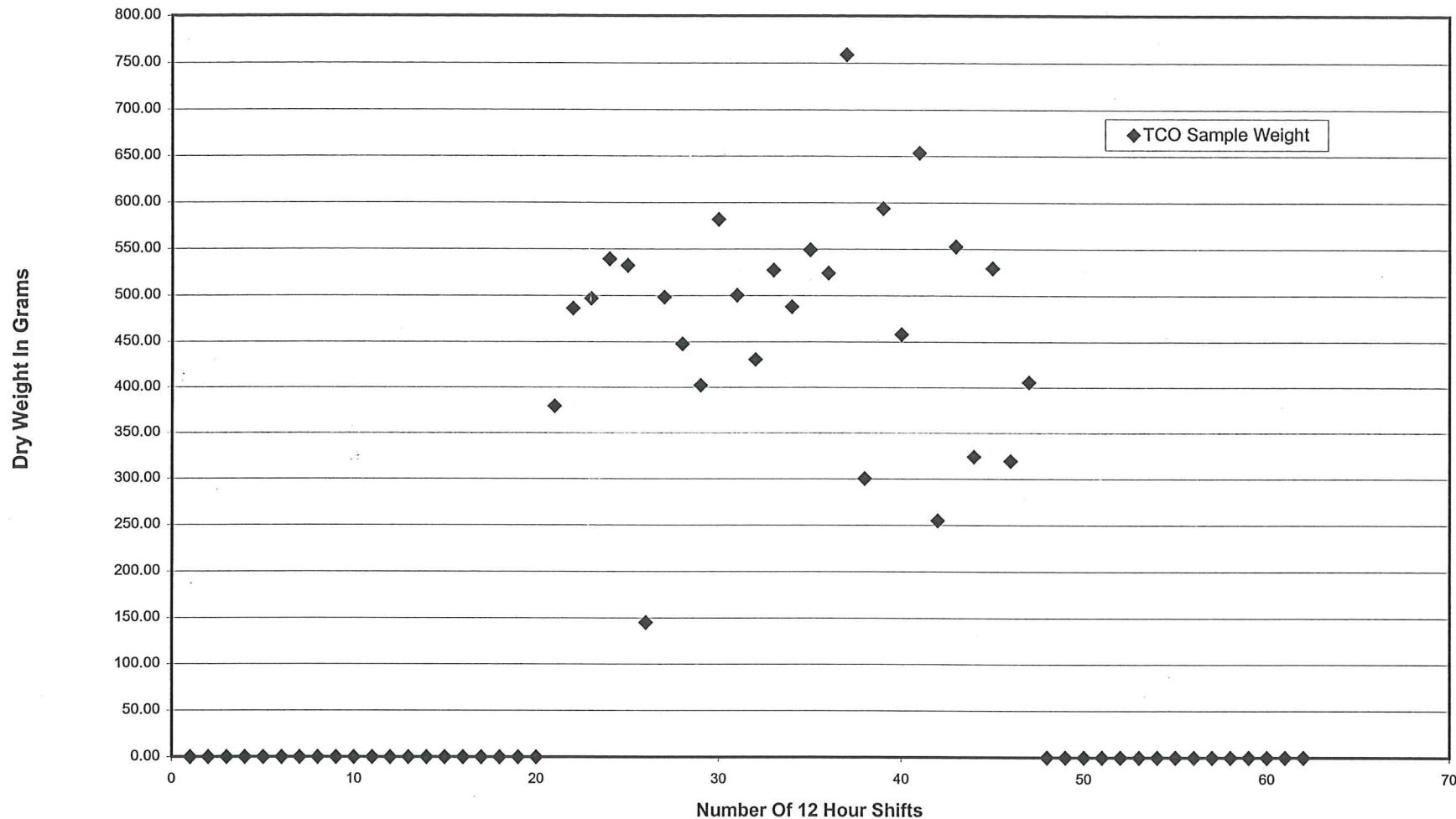
### Mar 99 Ag Tails



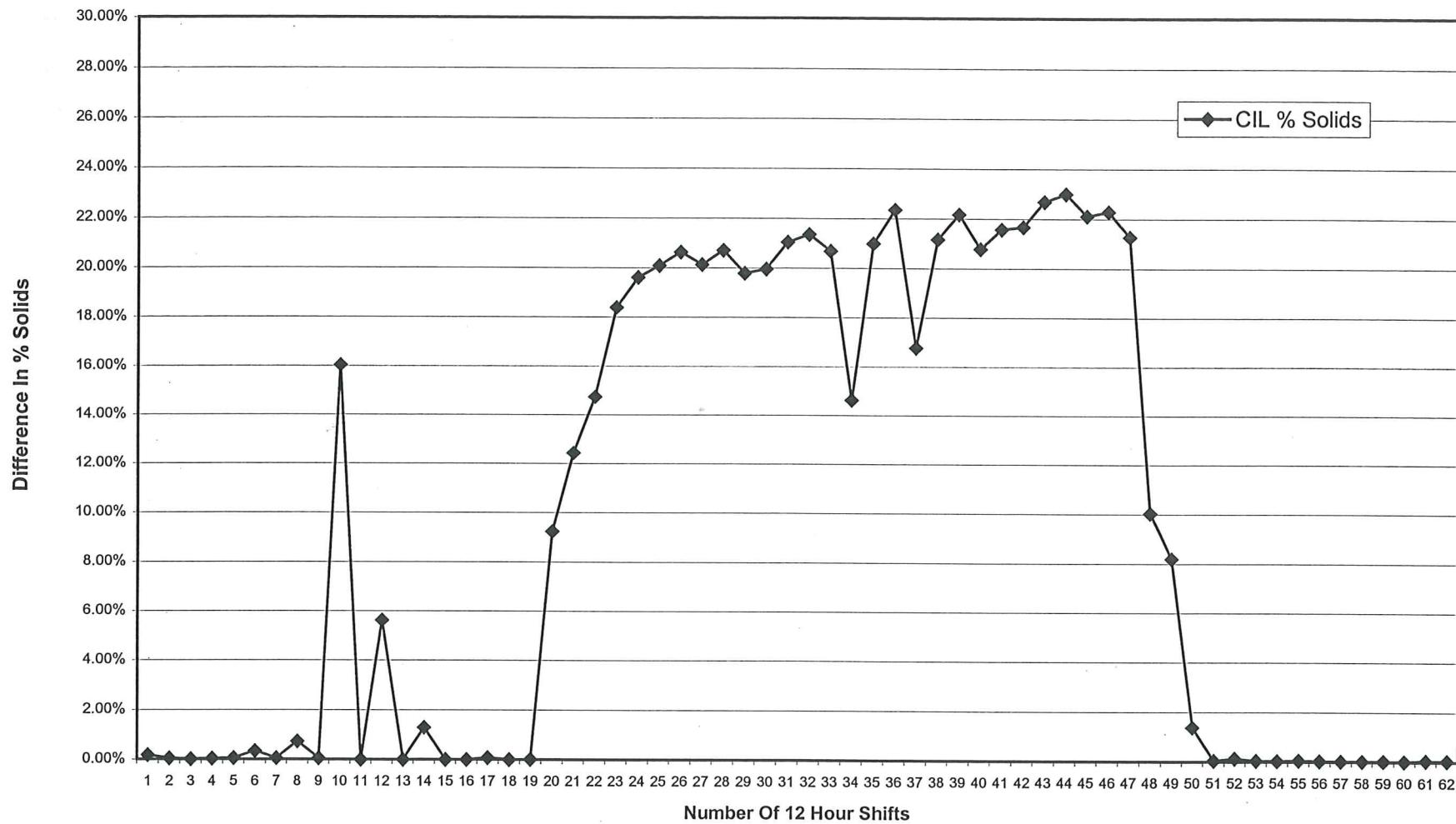
### TCO % Solids Comparison March 99



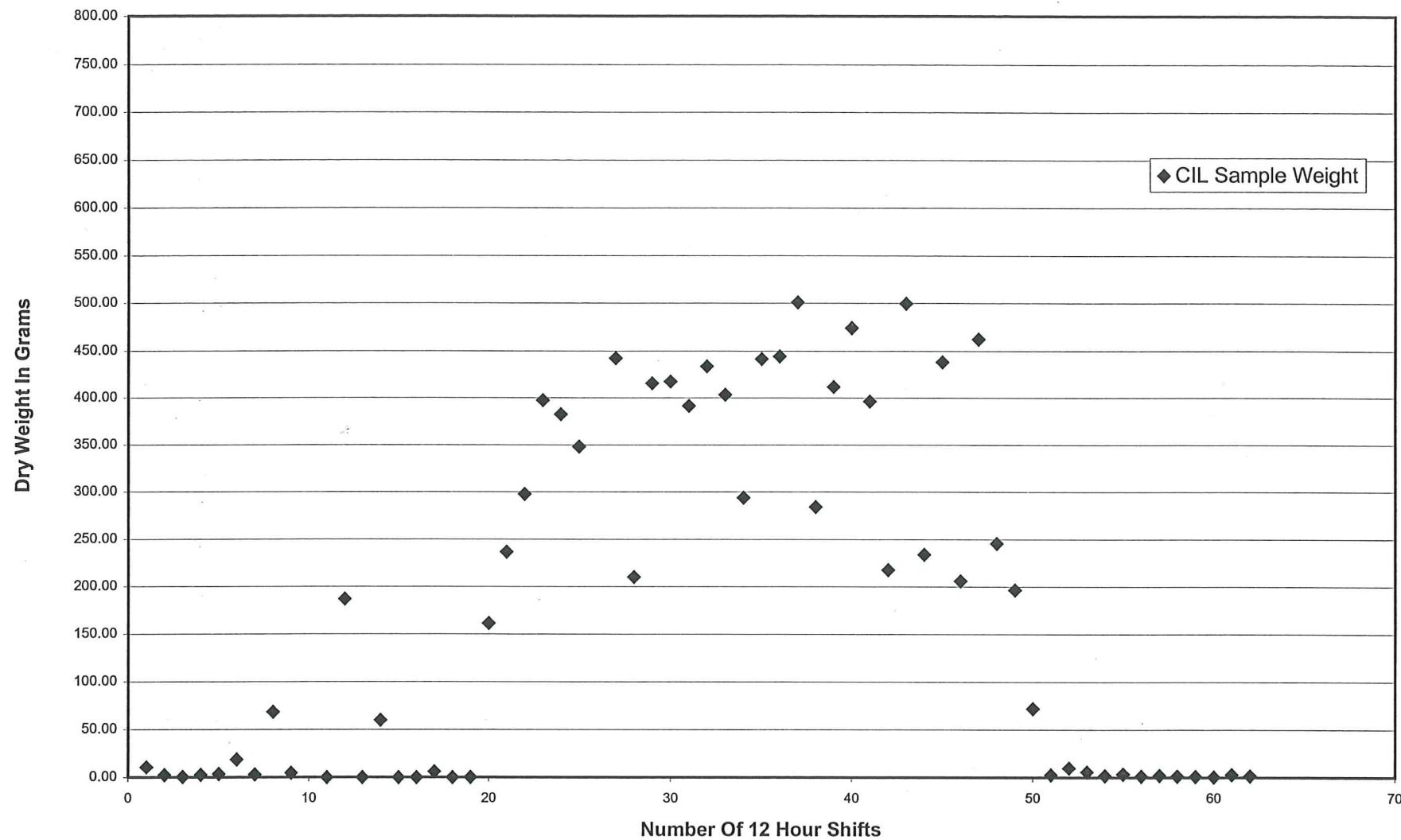
### March 99 TCO Bottle Roll Dry Solids Sample Weight



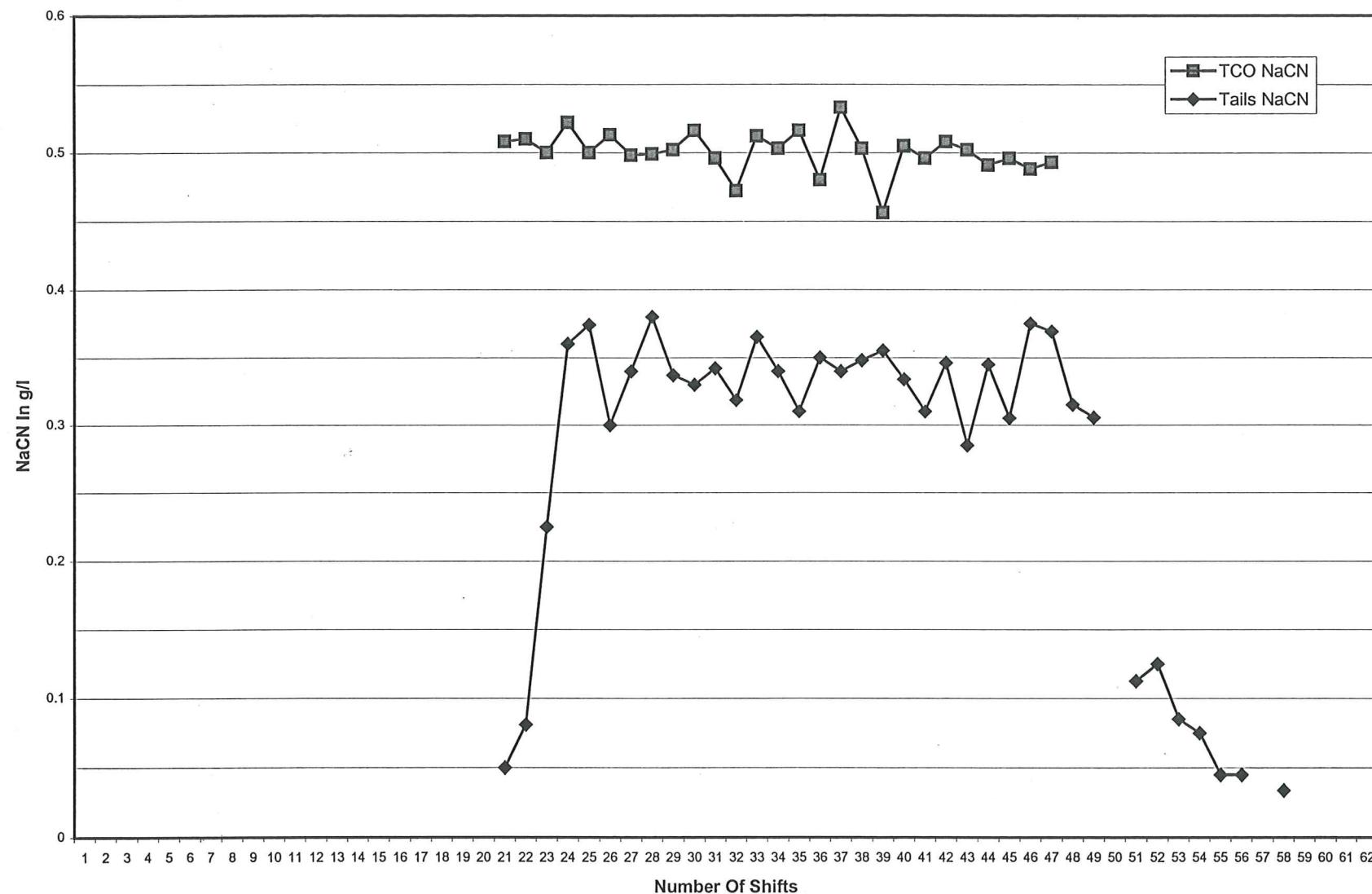
### March 99 CIL Tails Lab Split % Solids



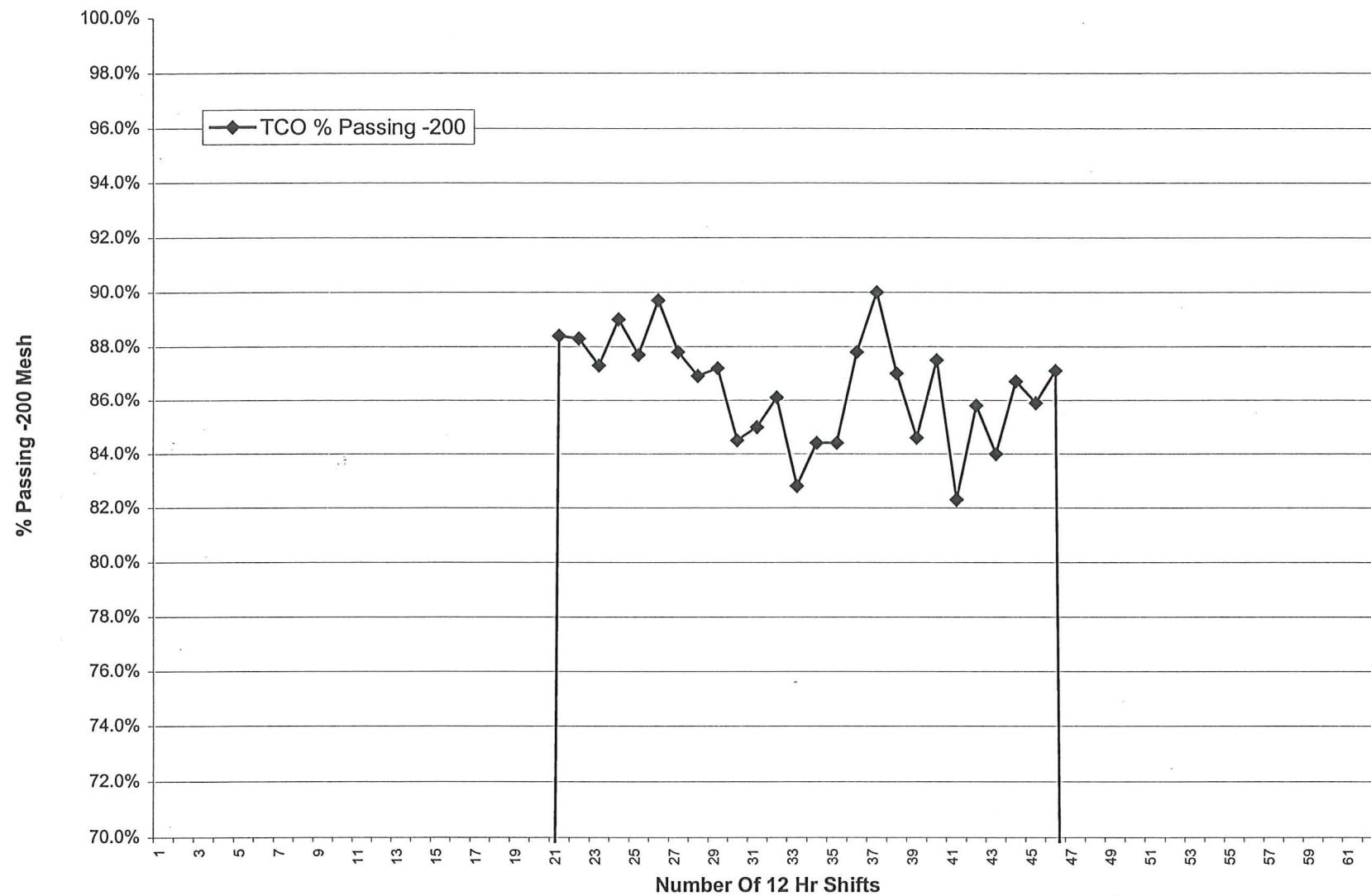
### March 99 CIL Lab Split Dry Solids Sample Weight



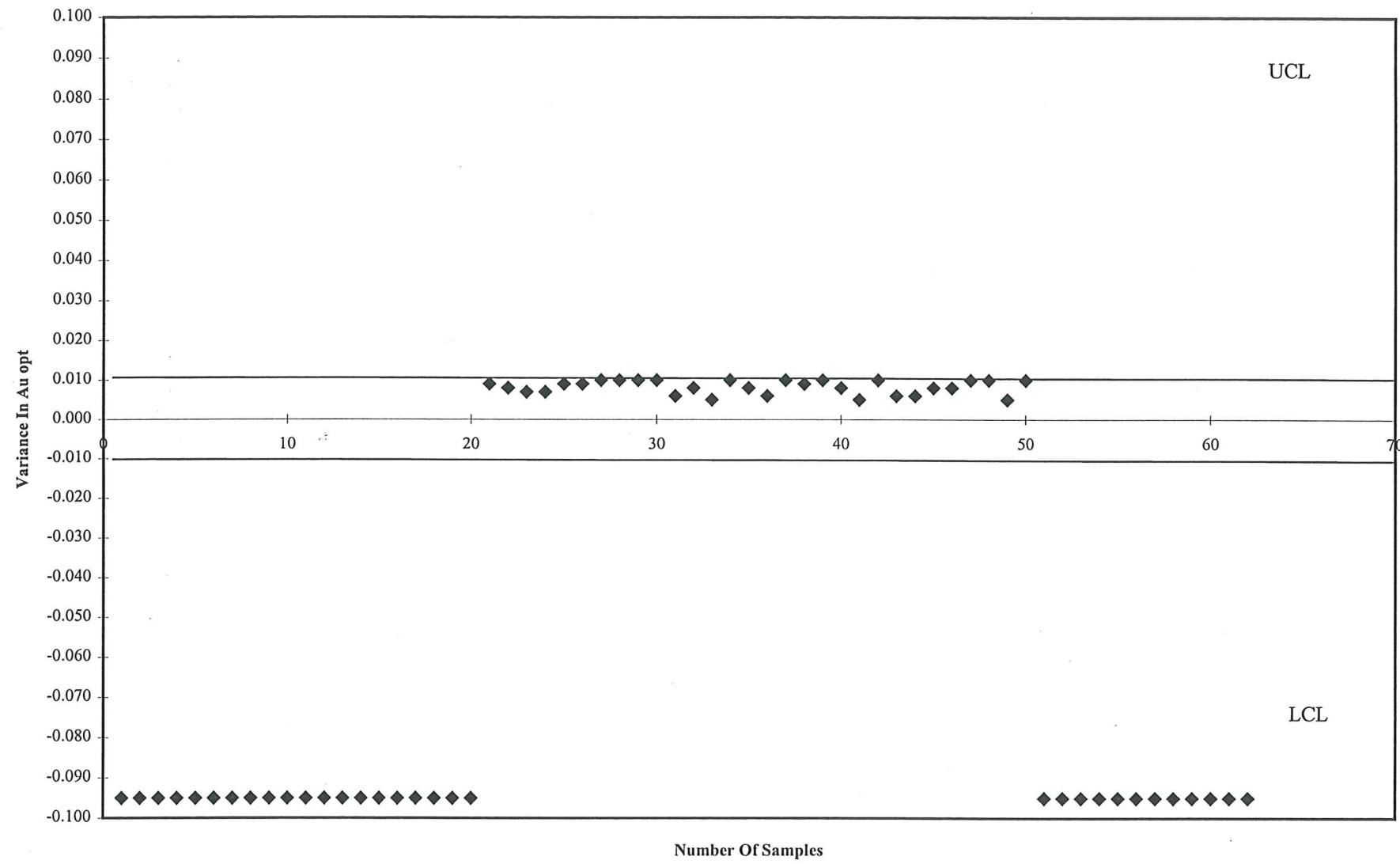
Cyanide Concentration Of Head & Tails Slurries March 99

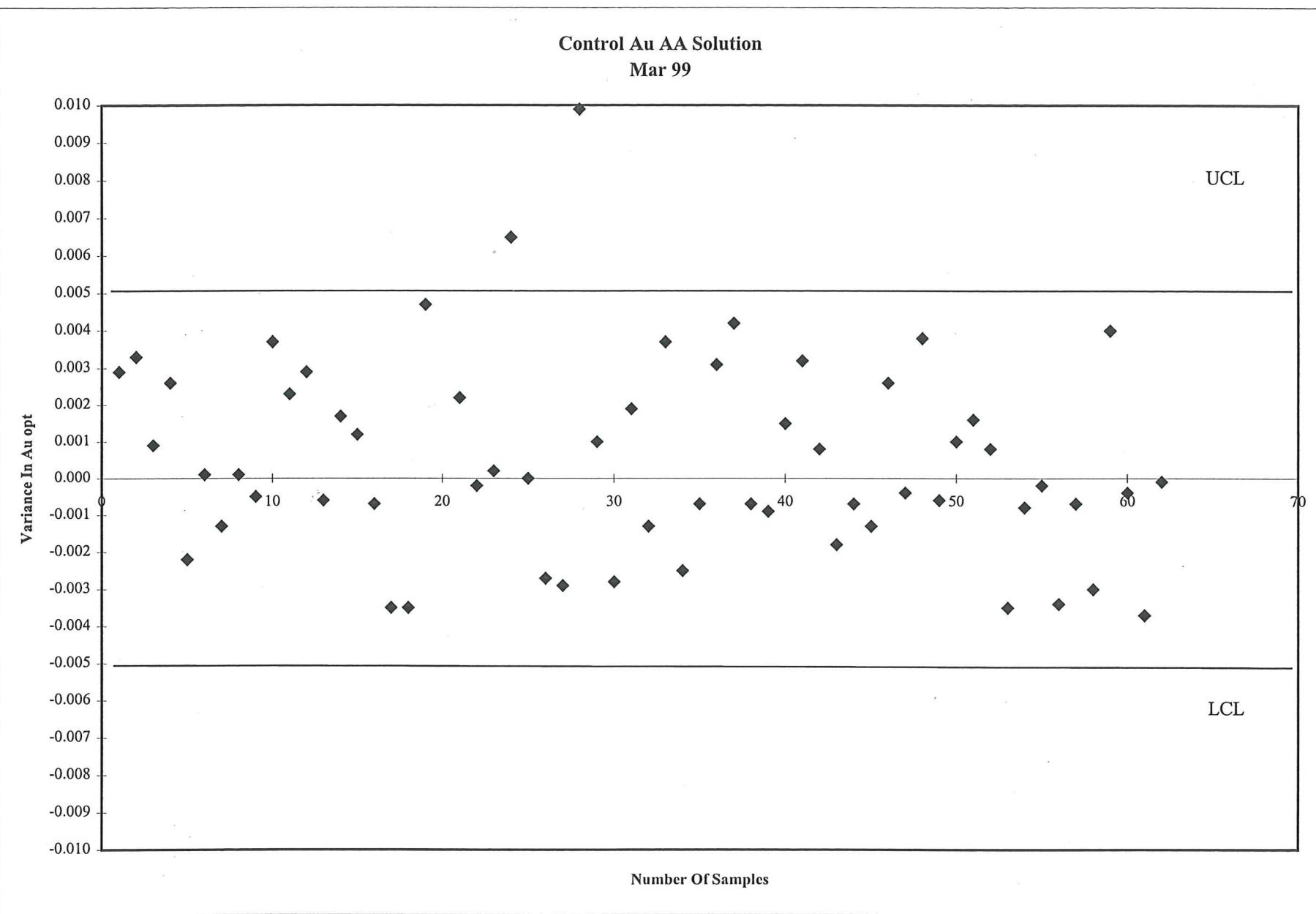


March 99 TCO % Passing -200



**Control Au Fire Solids**  
**Mar 99**





**Control Ag Fire Solids**  
**Mar 99**

