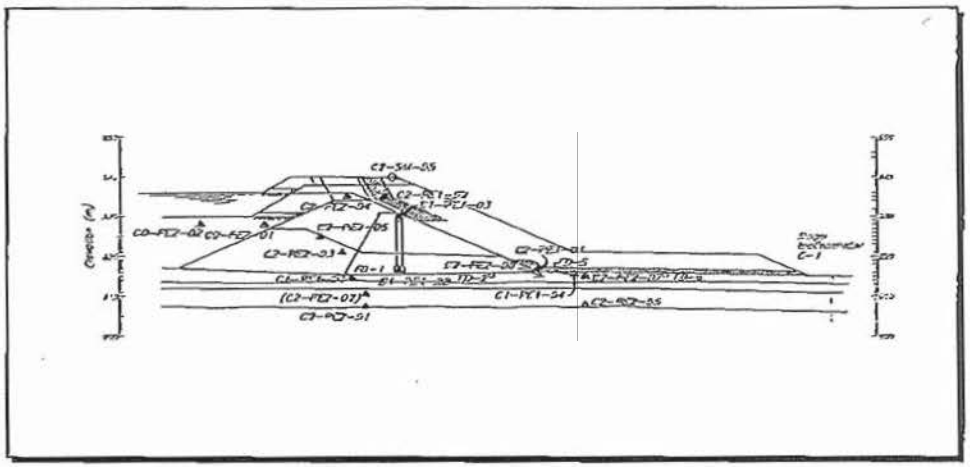
KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS



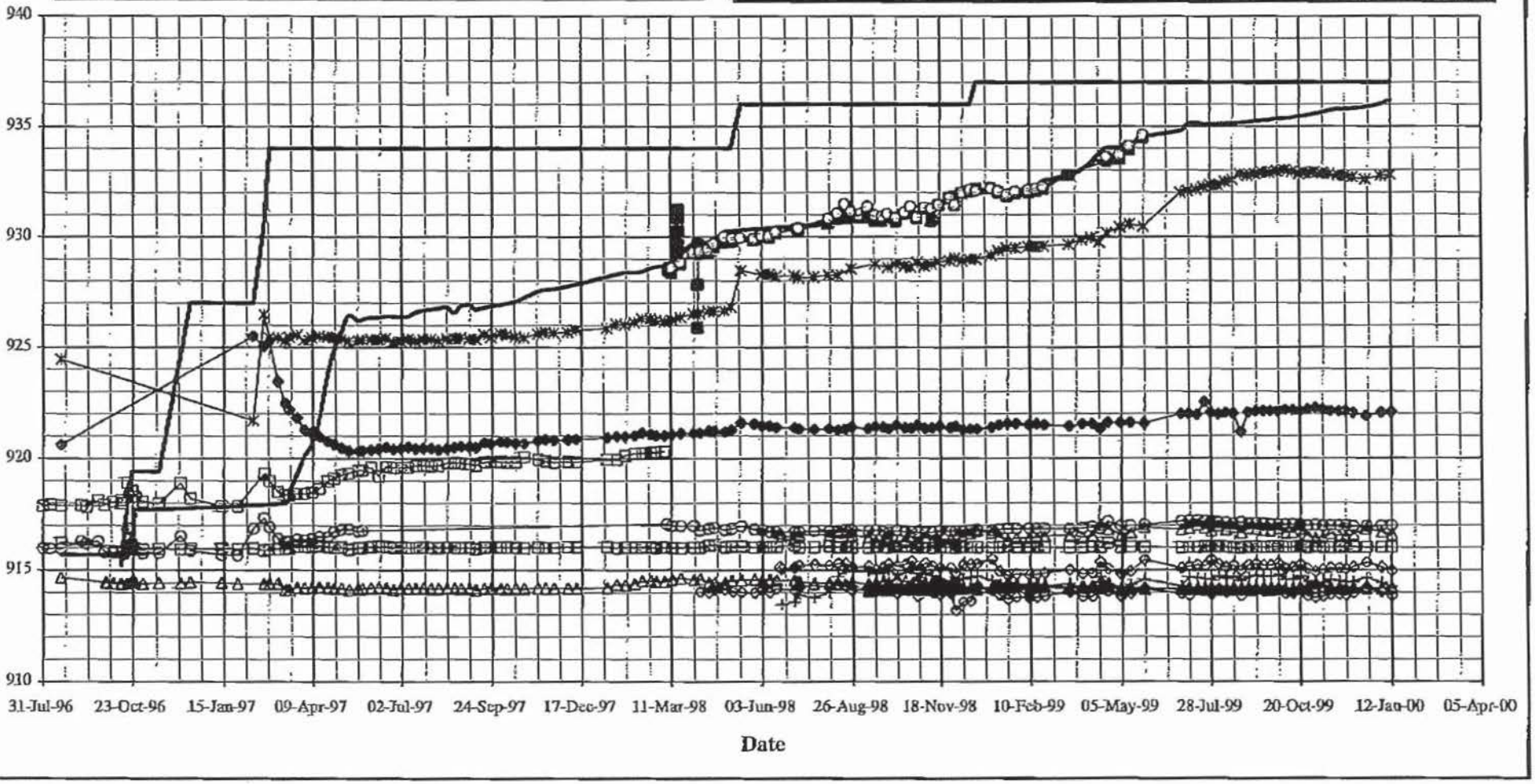
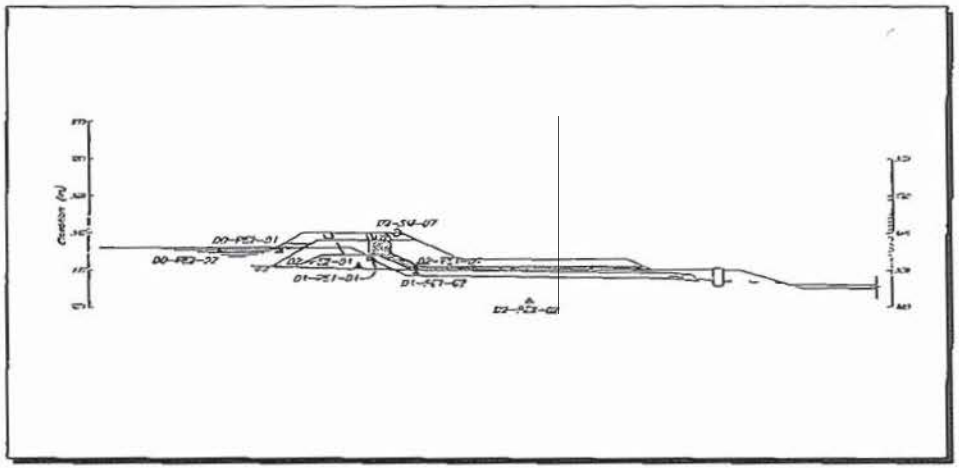


FIGURE 4

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TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS



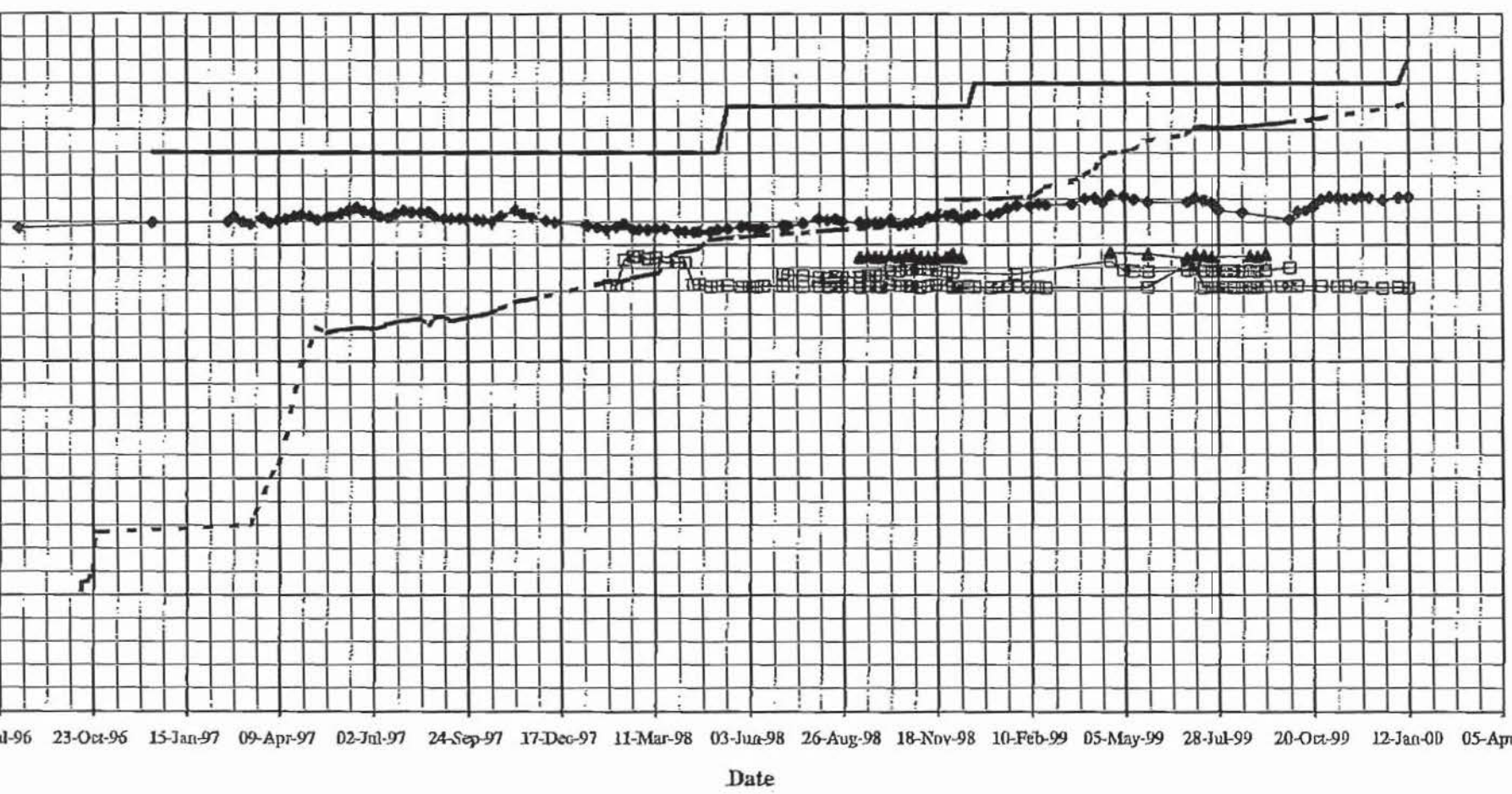


FIGURE 5

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MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

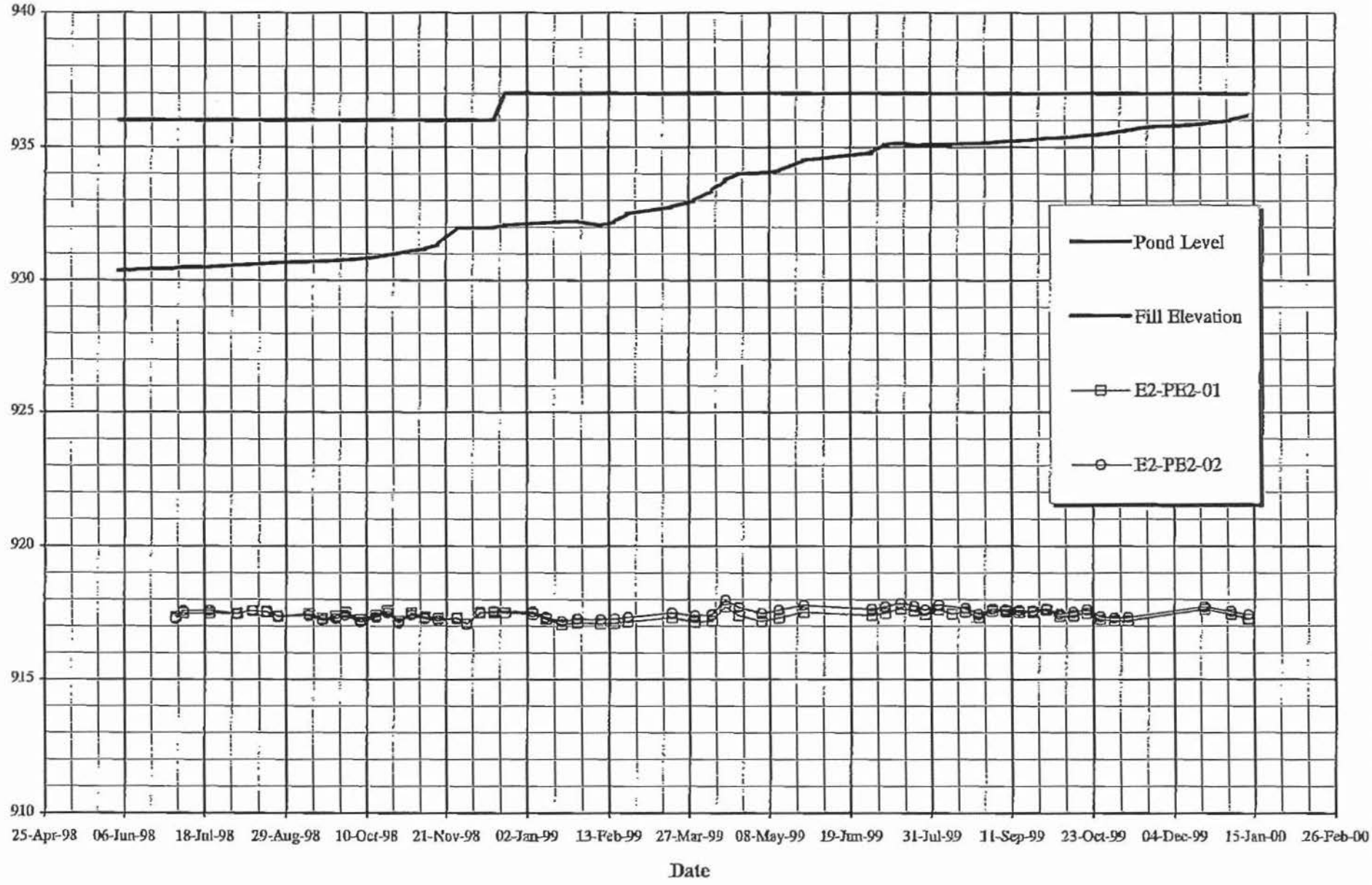


FIGURE 6

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MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE A FOUNDATION PIEZOMETERS

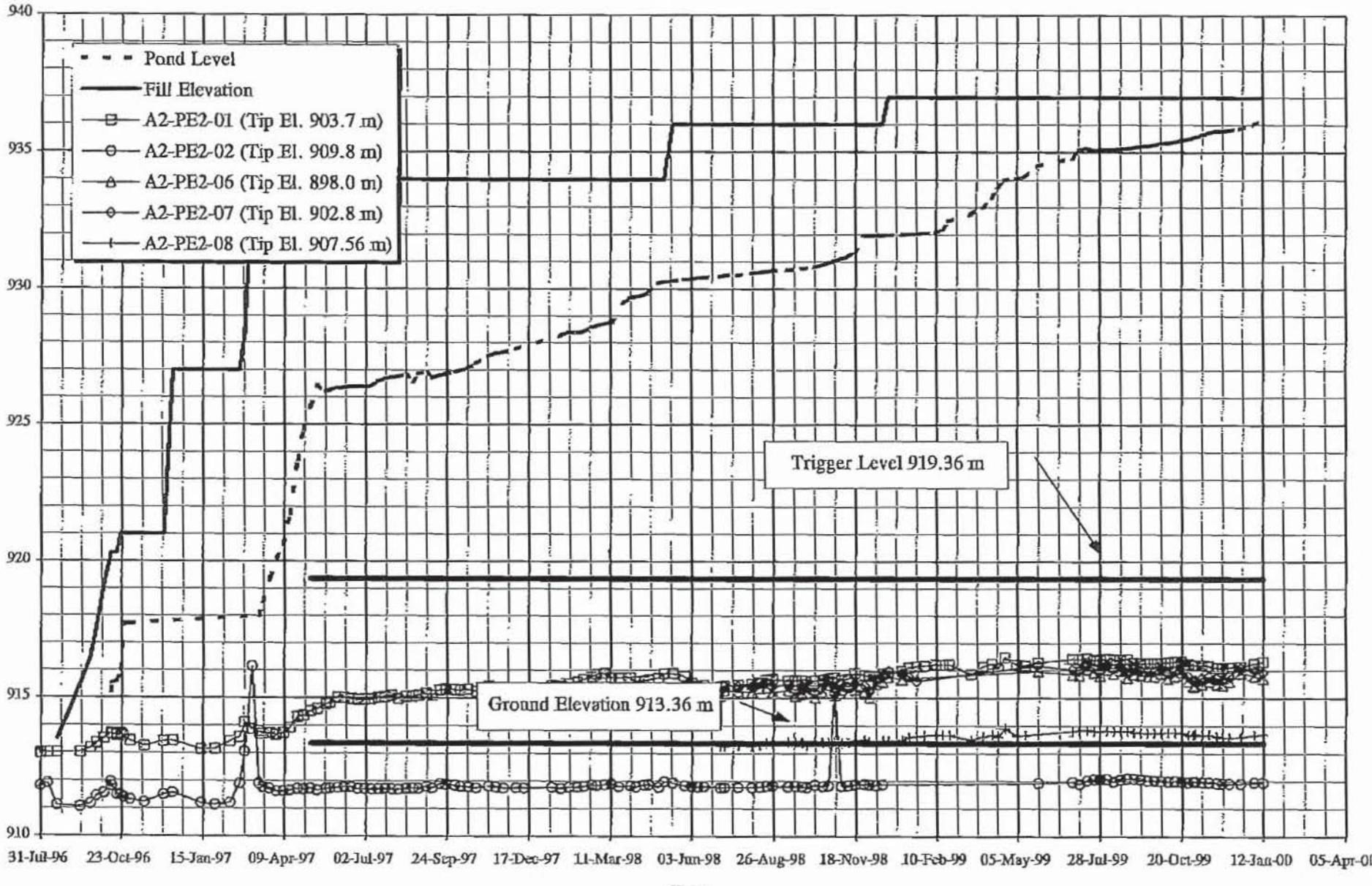


FIGURE 7

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE B FOUNDATION PIEZOMETERS

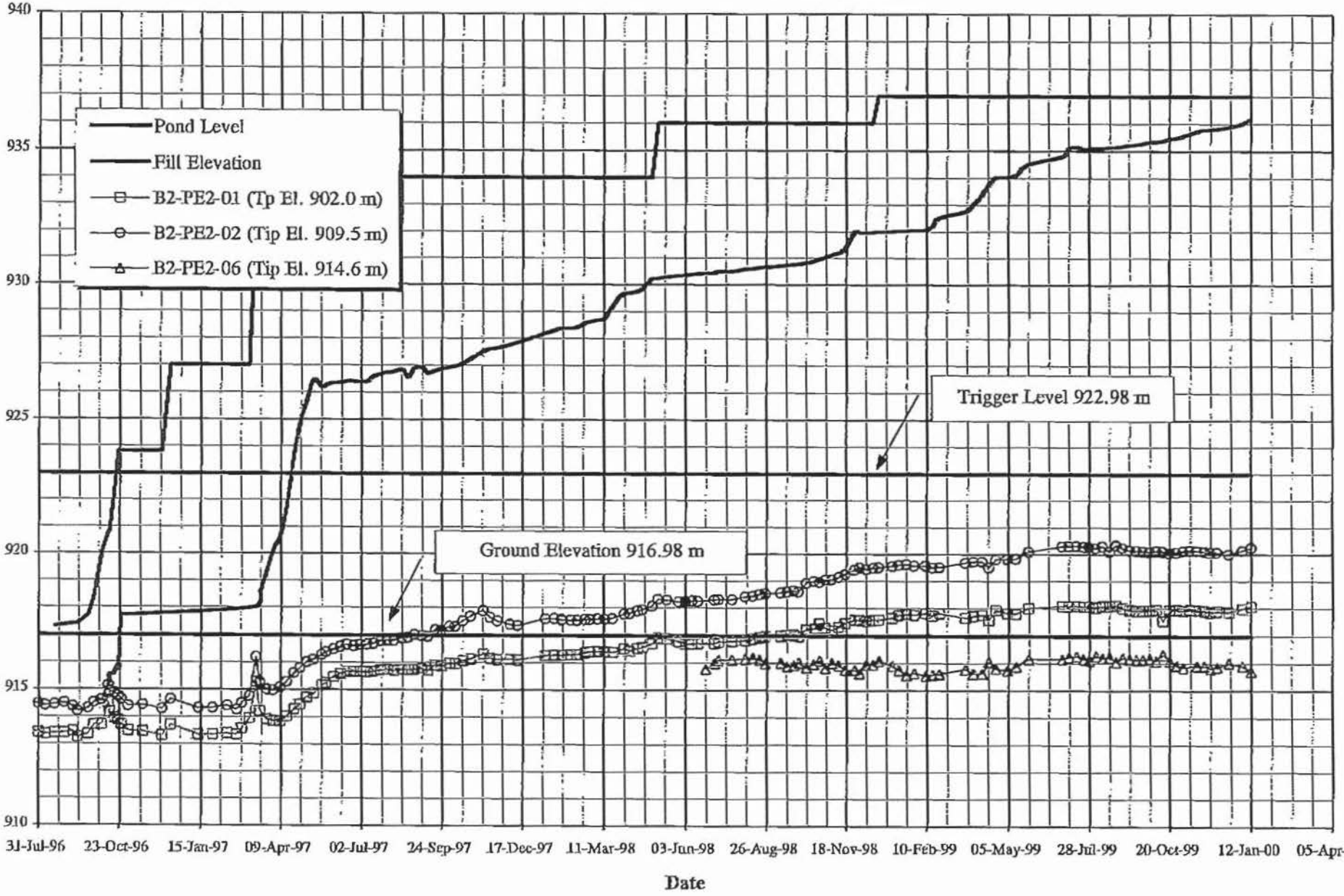


FIGURE 8

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C FOUNDATION PIEZOMETERS

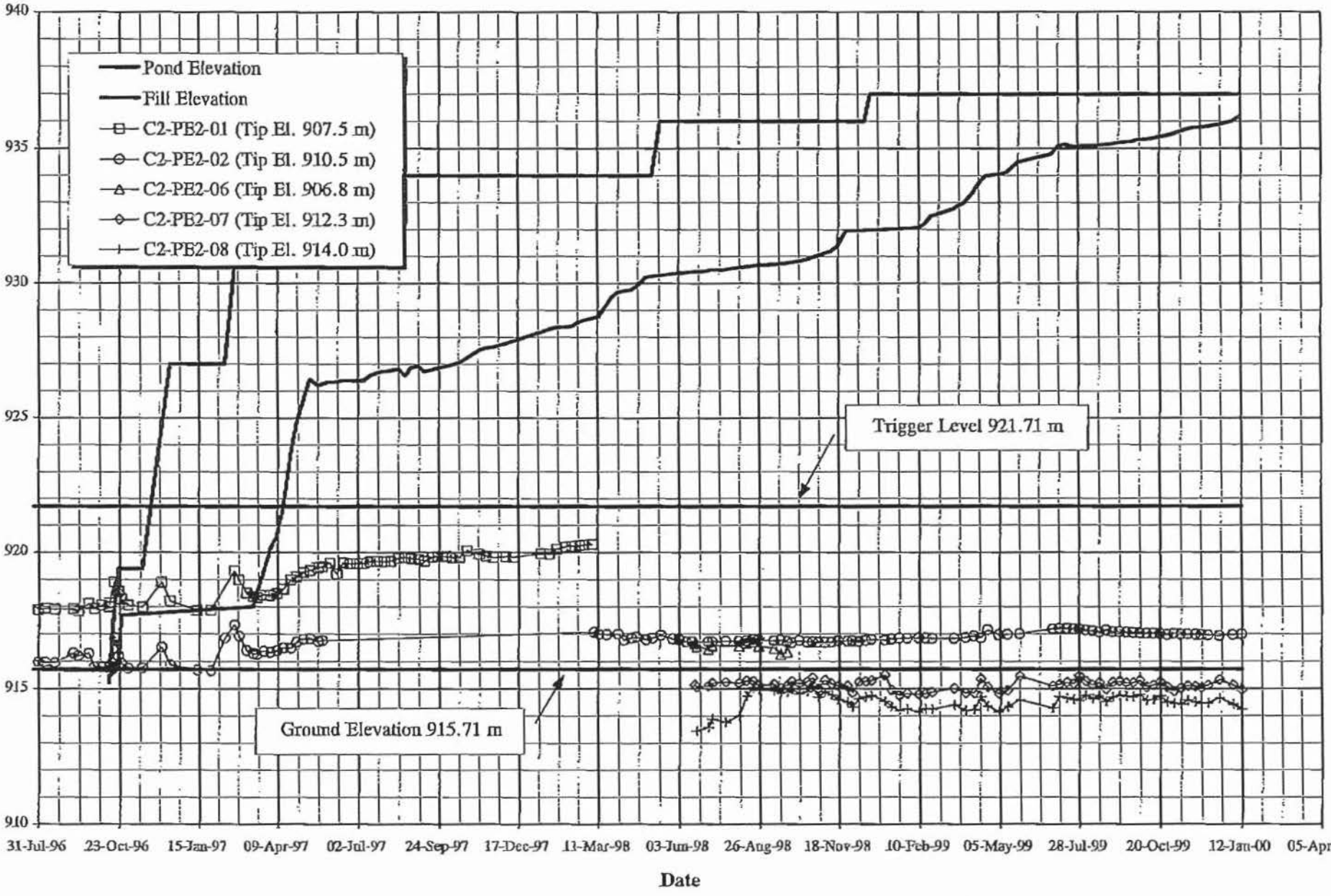


FIGURE 9

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MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE D FOUNDATION PIEZOMETERS

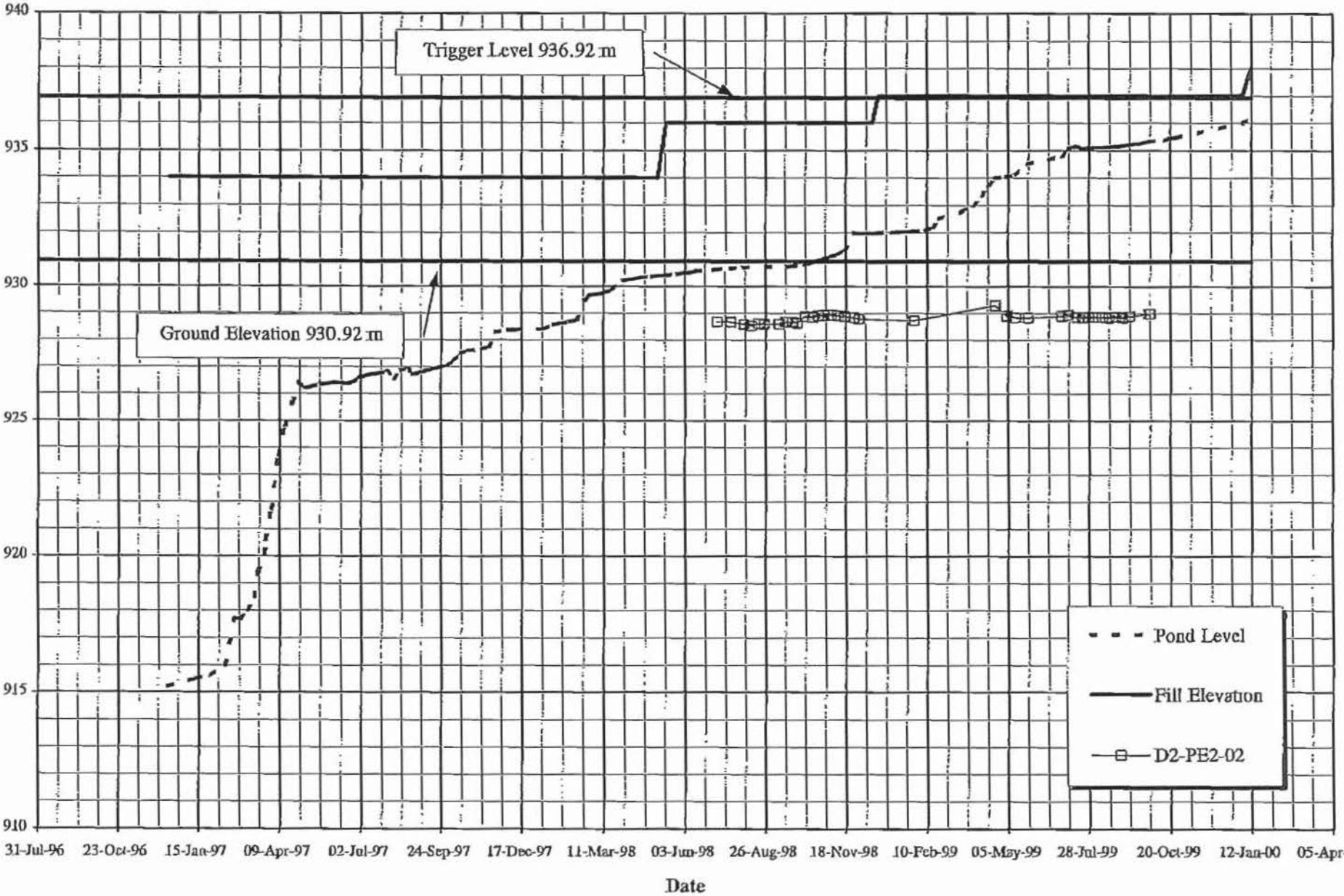


FIGURE 10

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE E FOUNDATION PIEZOMETERS

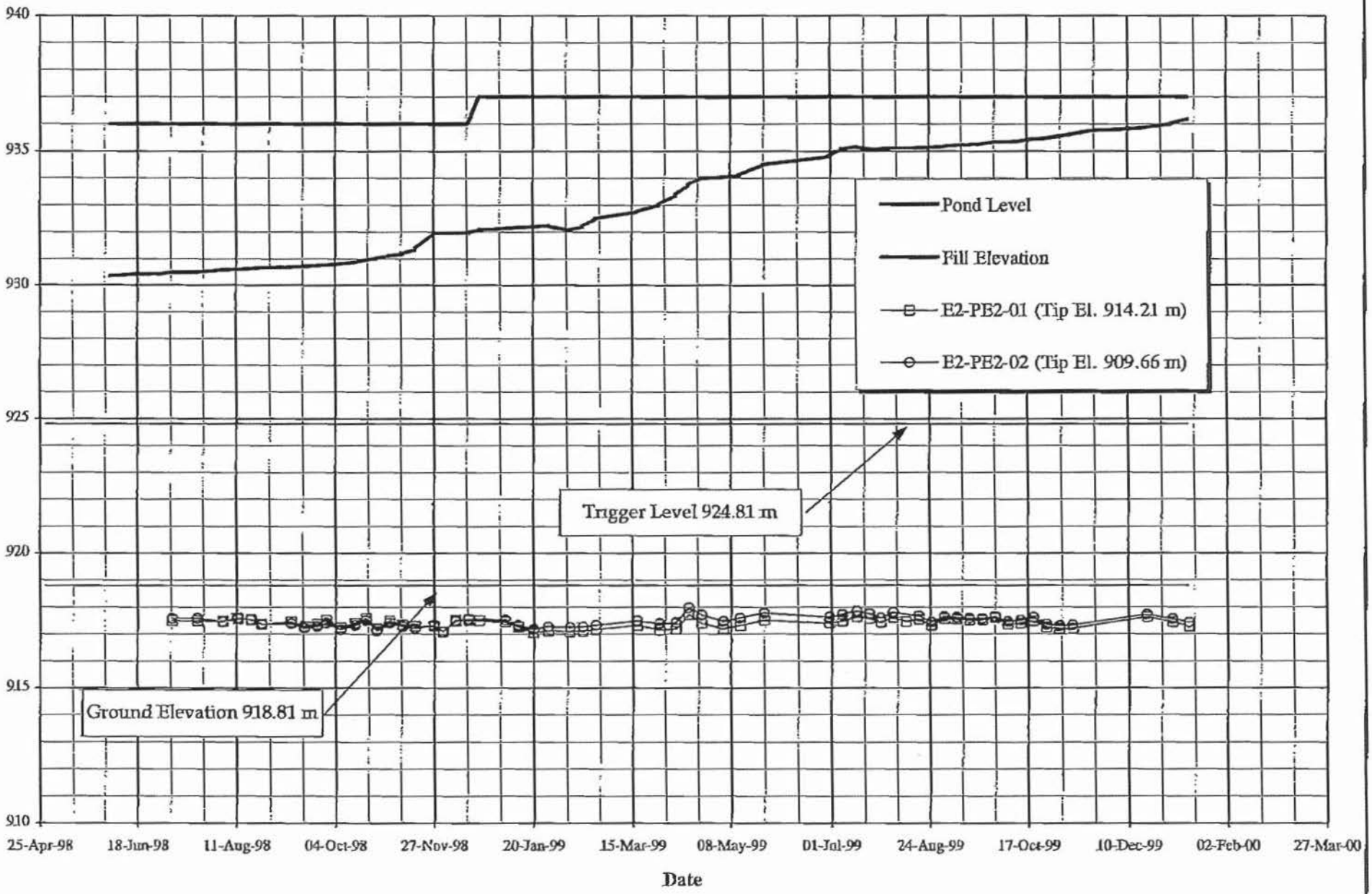


FIGURE 11

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE S CONTROL TEST SUMMARY SHEET

B:\ENGDATA\Engdoc\Geotechnical\Apr99rev\[C0-25-E01 (a)]Summary Table

21-Jan-00

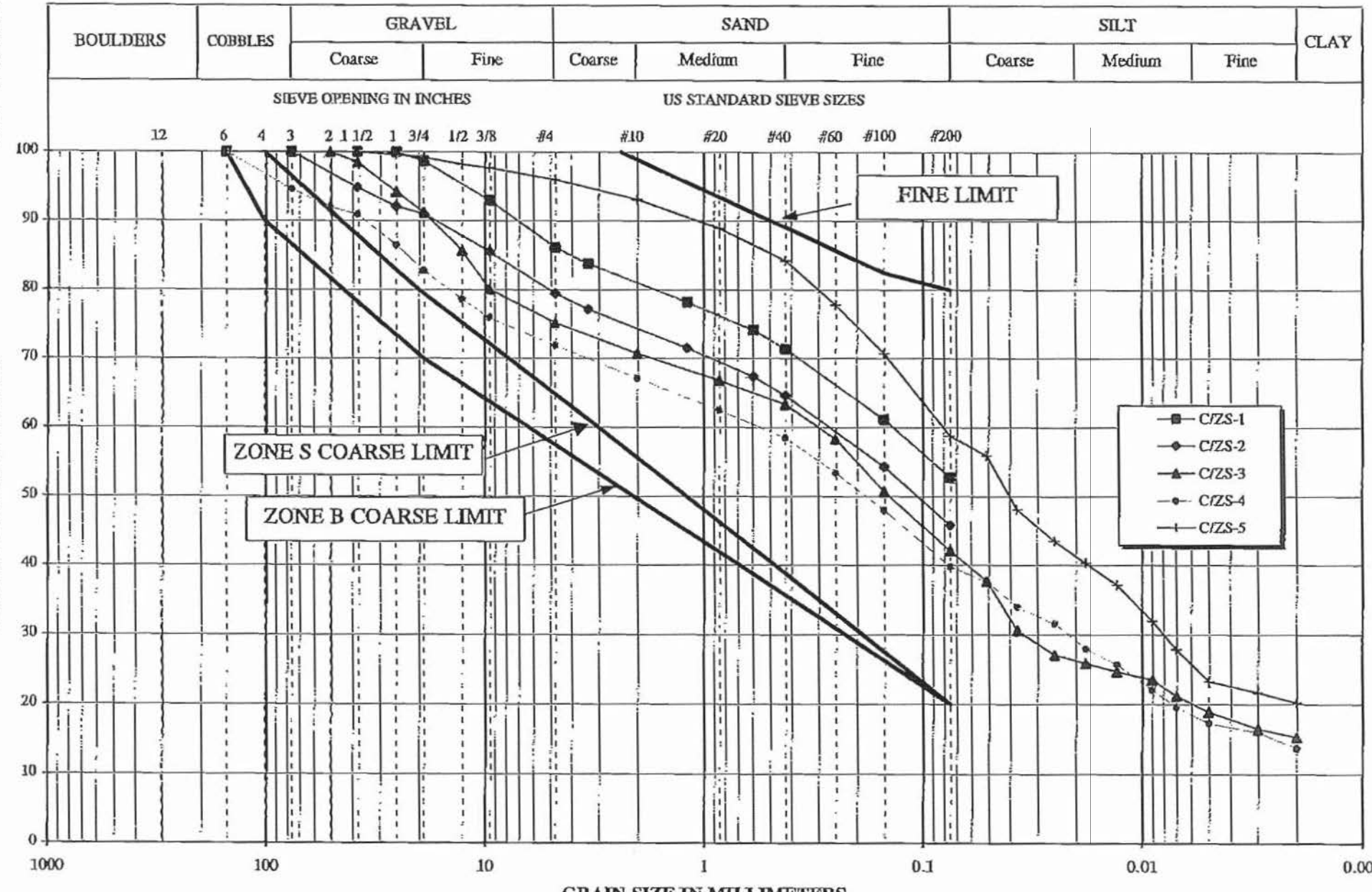
Date Sampled	Sample No.	Location	Elev. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Lab m/c %	C3 (Particle Size Distribution) 152.4 mm 6	76.2 mm 3	50.8 mm 2	38.1 mm 1.5	25.4 mm 1	19.05 mm 0.750	12.7 mm 0.500	9.525 mm 0.375	4.75 mm #4	3.353 mm 0.132	2 mm #10	1.191 mm 0.047	0.85 mm #20	0.594 mm 0.023	0.425 mm #40	0.25 mm #60	0.15 mm #100	0.075 mm #200	0.075 mm Clay	C4 Standard Proctor Max Dry Density kg/m³	Optimum m/c %	C6 Specific Gravity
08-Sep-99	C/ZS-1	Borrow Area 2, Exc. Face	-	18	26	8	-	100.0	100.0	100.0	100.0	100.0	98.7	-	93.0	86.1	63.8	-	78.2	-	74.1	71.4	-	61.1	52.8	2015	11.2	-
22-Sep-99	C/ZS-2	Borrow Area 2, Exc. Face	-	17	27	10	11.6	100.0	100.0	100.0	94.8	92.1	91.0	-	85.6	79.5	77.2	-	71.5	-	67.4	64.6	-	54.3	45.8	2042	10.6	-
29-Nov-99	C/ZS-3	Borrow Area 2, Exc. Face	-	15	24	10	12.1	100.0	100.0	100.0	98.5	94.2	91.2	88.7	80.1	75.2	-	70.7	-	66.8	-	63.3	58.3	50.7	42.1	2180	7.6	2.649
08-Dec-99	C/ZS-4	Borrow Area 2, Exc. Face	-	15	25	10	11.7	100.0	94.6	-	90.9	86.5	82.6	78.6	75.9	71.9	-	67.1	-	62.5	-	58.5	53.4	48.0	39.8	2200	7.4	2.674
17-Dec-99	C/ZS-5	Borrow Area 4, Exc. Face	-	15	25	10	15.7	100.0	100.0	100.0	100.0	99.6	99.2	98.2	97.7	96.0	-	93.1	-	88.9	-	84.3	77.8	70.7	58.8	1982	11.6	2.624
09-Jan-00	C/ZS-6	Borrow Area 2, Exc. Face	-	15	24	8	11.7	100.0	100.0	94.3	92.7	90.7	88.4	85.3	83.4	79.6	-	74.9		69.5		64.2	57.8	51.2	41.1	2105	8.0	2.651
		MEAN		16	25	9	12.6	100.0	99.1		96.1	93.8	91.9	87.0	85.9	81.4		76.5		71.9		67.7	61.8	56.0	46.7	2087	9.4	2.65
		MEDIAN		15	25	10	11.7	100.0	100.0		96.6	93.1	91.1	85.5	84.5	79.5		72.8		68.2		64.4	58.1	52.7	44.0	2074	9.3	2.65
		MAXIMUM		18	27	10	15.7	100.0	100.0		100.0	100.0	99.2	98.2	97.7	96.0		93.1		88.9		84.3	77.8	70.7	58.8	2200	11.6	2.67
		MINIMUM		15	24	8	11.6	100.0	94.6		90.9	86.5	82.8	78.6	75.9	71.9		67.1		62.5		58.5	53.4	48.0	39.8	1982	7.4	2.62

Notes:

1. Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

C1 Atterberg Limits (ASTM D4318)
C2 Moisture Content (ASTM D2216)
C3 Particle Size Distribution (ASTM D422)
C4 Laboratory Compaction (ASTM D698)
C6 Bulk Specific Gravity (ASTM C127)

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE S CONTROL SAMPLES - GRADATION CURVES



KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE S RECORD TEST SUMMARY SHEET

B:\ENGDATA\Engineering\General\Construction\Specifications\[R-ZS-99.xls]Summary Table

21-Jan-00

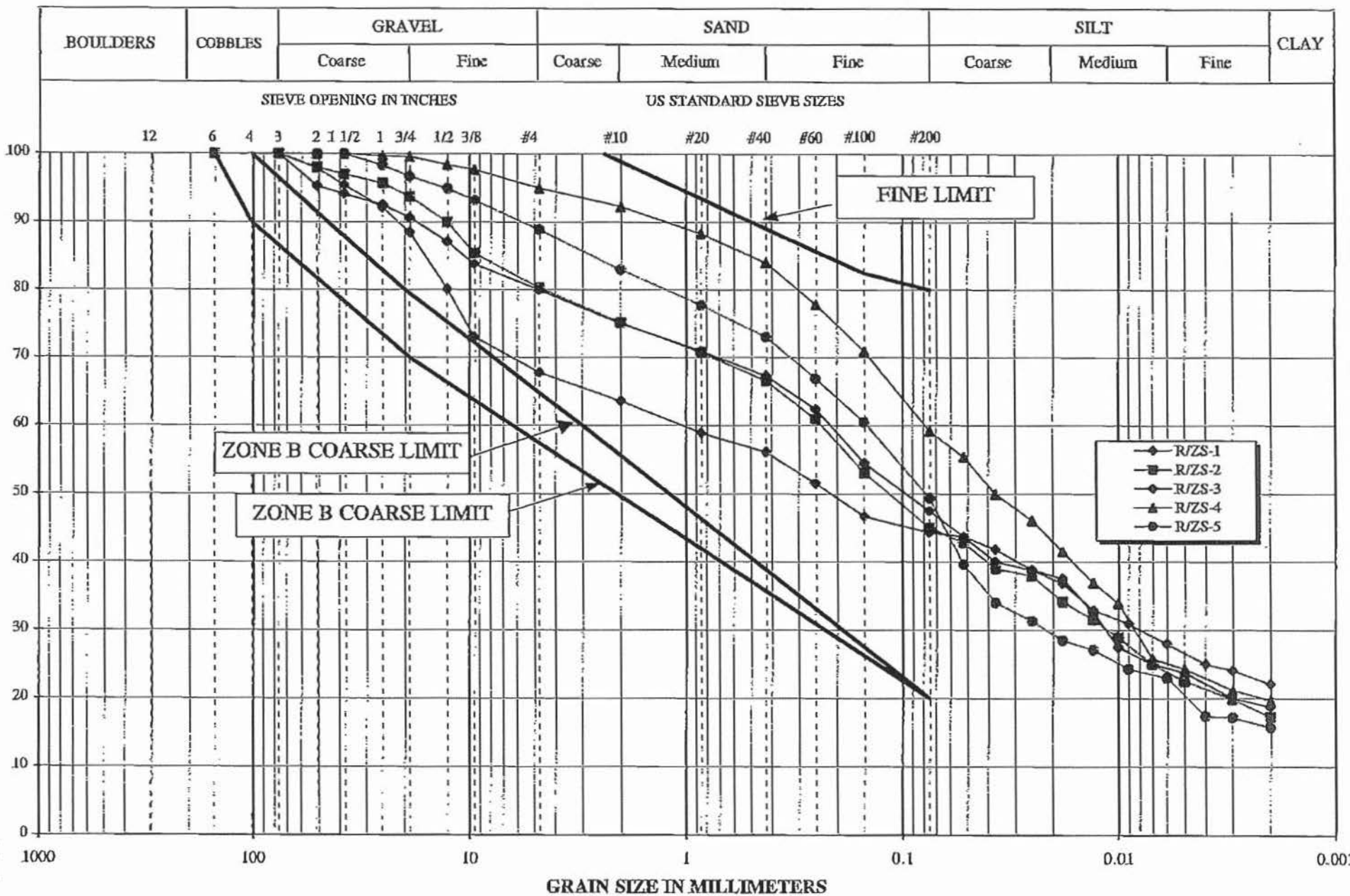
Date Sampled	Sample No.	Location	Elev. (m)	R1 Atterberg Limits			R2 Field	R3 (Particle Size Distribution)													R4 Standard Proctor		R6 Specific	R7 Field Density	
				PL	LL	PI	m/c	152.4	76.2	50.8	38.1	25.4	19.05	12.7	9.525	4.75	2	0.85	0.425	0.25	0.15	0.075	Max Dry Density kg/m³	Optimum m/c %	Gravity	Dry Density kg/m³	Compaction %
				%	%	%	%	6	3	2	1 1/2	1	3/4	1/2	3/8	#4	#10	#20	#40	#60	#100	#200					
																					Clay					
06-Oct-99	R-ZS-1	Zone S fill - lift #2, CH 38+13	-	18	29	11	11.1	100.0	100.0	97.9	95.4	92.1	88.5	80.1	73.0	67.8	63.6	58.9	56.1	51.5	46.7	44.3	2165	8.8	-	2111	97.5
01-Nov-99	R-ZS-2	Zone S fill - lift #4, CH 31+38	-	16	28	11	11.5	100.0	100.0	98.0	97.0	95.7	93.7	90.0	85.4	80.3	75.1	70.7	66.6	60.9	53.1	45.0	2110	8.4	2.701	2084	98.8
22-Nov-99	R-ZS-3	Zone S fill - lift #4, CH 29+79	-	16	27	12	13.1	100.0	100.0	95.3	94.1	92.5	90.7	87.1	83.8	80.0	75.0	70.9	67.3	62.4	54.5	47.3	2075	9.0	-	2047	98.7
17-Dec-99	R-ZS-4	Zone S fill - Lift #2, CH 39+31	916.9	15	24	9	13.0	100.0	100.0	100.0	99.7	99.6	98.4	97.7	95.0	92.3	88.3	84.0	77.8	70.9	59.2	55.4	2040	10.8	-	2029	100.0
09-Jan-00	R-ZS-5	Zone S fill - Lift #4, CH 40+80	918.3	17	26	9	12.4	100.0	100.0	100.0	100.0	98.3	96.7	94.9	93.2	88.9	83.0	77.7	73.0	65.9	60.5	49.4	2005	10.4	-	2094	101.4
		MEAN		16	27	10	12.2	100.0	100.0	98.2	97.2	95.6	93.6	90.0	86.1	81.9	77.0	72.4	68.2	62.5	54.8	48.3	2077	9.5	2.70		
		MEDIAN		16	27	11	12.1	100.0	100.0	98.0	97.0	95.7	93.7	90.0	85.4	80.3	75.1	70.9	67.3	62.4	54.5	47.3	2075	9.0	2.70		
		MAXIMUM		18	29	12	13.1	100.0	100.0	100.0	100.0	99.6	98.4	97.7	95.0	92.3	88.3	84.0	77.8	70.9	60.5	55.4	2165	10.8	2.70		
		MINIMUM		15	24	9	11.1	100.0	100.0	95.3	94.1	92.1	88.5	80.1	73.0	67.8	63.6	58.9	56.1	51.5	46.7	44.3	2005	8.4	2.70		

Notes:

1. Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Bulk Specific Gravity (ASTM C127)

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE S RECORD SAMPLES - GRADATION CURVES



KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

A3-2

Knight Piésold
CONSULTING

Knight Piésold, Mt. Polley Site
Fax: (250) 790-2268
Phone: (250) 790-2215

DATE:	January 14, 2000	**FILE NO.:**	11162/10.F01/F02/F05/F07
TIME:		**REF NO.:**	00-002
OPERATOR:		**PAGES:**	1 of 22
SENDER:	s.22	**APPROVED:**	

TO:	Ministry of Energy and Mines	**FAX :**	250-952-0481
ATTN:	George Headley		
CC:	Ken Embree, Knight Piésold Ltd.		
SUBJECT:	Mount Polley Stage 2C Construction Progress Report No. 9		

Dear Mr. Headley,

Please find attached Progress Report No. 9 for Stage 2C Construction at the Mount Polley Mine. This document is for the reporting period December 15 to 31, 1999.

Regards,

s.22

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION
PROGRESS REPORT NO. 9
DECEMBER 16 TO 31, 1999

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 2C construction activities over the reporting period. Knight Piésold Ltd. (KP) carried out QA/QC activities over this period.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Ken Brouwer (KJB), Project Director (on site December 28, 1999)
- s.22 (IBM), Project Engineer

The following MPMC management personnel were on site during the reporting period:

- Eric LeNeve, Tailings Coordinator
- Don Parsons, Mine Superintendent

1.2 WEATHER

Conditions over the reporting period were typically overcast with periods of fog and snow. Temperatures varied from –4° to +2° C. Construction activities were suspended due to snowfall on December 17, 18, and 19. Approximately 17 cm of snow accumulated during that time.

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1.3 DESIGN AND CONTRACT DEVELOPMENT

There were no design modifications or contractual developments over the reporting period.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Cycloning operations for 1999 were terminated on October 19. Since that time, bulk tailings have been point-discharged from the upper dump valve at the northwest corner of the tailings facility. The bulk tailings discharge trench was relocated southwest of its original position during the previous reporting period to direct flows centrally within the tailings facility. The trench was extended further to the southwest on December 20.

Following Stage 2C construction, the tailings pipeline system will be re-instated along the embankments. Bulk tailings will be strategically discharged from the upstream embankment crests, to promote the development of adequate beaches adjacent to the embankments, and to control the positioning of the supernatant pond.

SECTION 2.0 - CONSTRUCTION ACTIVITIES

The following activities were carried out by MPMC and Peterson Contracting over the reporting period:

Stage 2C Embankment Construction

- Preparation work was carried out within Borrow Areas #2 and #4. This included overburden stripping, snow removal, and wasting of all saturated and/or frozen till materials.

- Zone B & S surface preparation was carried out as required prior to placement of each lift. This included stripping of ice and snow from all surfaces prior to fill placement.

- Both dayshift and nightshift Zone B & S fill placement was carried out over the reporting period. Dayshift construction activities took place on December 17, 21, 22 and 23. Nightshift work activities were carried out on December 16, 20, 22 and 23.

- Zones B & S fill placement activities were carried out along the Perimeter embankment from CH 37+00 to CH 40+95 and CH 42+00 and CH 43+90. The perimeter embankment crest was raised to approximate elevation 938.0 in these areas.

- A sump was excavated within the upstream CBL Zone B area at CH 40+00 on the Perimeter embankment, and was pumped to drain puddles from the Zone S/B interface.

- Till from Borrow Area #4 was utilized for Zone S and B embankment fill from December 1 to 22. Borrow Area #2 was used to source till material on December 22 and 23.

Fill Placement Summary

Embankment Zone	Volume Placed over Period (m^3)	Total Volume to Date (m^3)	Total Volume Required (m^3)	Percent Complete (%)
S (till core)	9,240	40,255	82,120	49
B (till)	4,620	35,105	52,610	67
CBL (rockfill)	0	31,853	31,853	100
F (filter sand)	0	2,300	2,300	100
Stg 3 toe berm (rockfill)	0	3,507	-	-

Note: Fill volumes required for Stage 2C construction have been updated to include for the El. 941m design change.

Miscellaneous

- Grader work was carried out along TSF access roads.

- Zone FS filter sand material was spread onto TSF access road haul routes as needed to provide traction for trucks.

SECTION 3.0 - KNIGHT PIÉSOLD ACTIVITIES

3.1 GENERAL

KP activities over the reporting period included the following:

Stage 2C Embankment Construction

- Neil Giesbrecht and Brian Stanga (contract surveyors) provided inspection services during nightshift construction operations. Steve Syme provided additional inspection services during the reporting period. The MPMC inspector's reports and QA/QC records were provided to the KP Site Engineer for review and compilation.

- Nuclear densometer record testing was carried out on all placed and compacted Zone B and S materials, to measure achieved field dry density and moisture content values. The minimum acceptable field density requirement for compacted Zone B material is 92% of Standard Proctor Maximum Dry Density (SMDD), and 95% SMDD for Zone S core material. Densometer testing confirmed that the required compaction specifications were achieved.

- KP provided ongoing inspection of the following: stripping of unsuitable materials within Borrow Areas #2 and #4, excavated till materials for embankment construction, embankment surfaces prior to fill placement, lift thickness.

Miscellaneous

- Ken Brouwer (KP) was on site December 28, 1999. He met with Don Parsons and Don Ingram (MPMC) to review the progress of Stage 2C construction and to discuss the Stage 3 cycloning and embankment design.

- Progress Report No. 8 was written and issued for the reporting period December 1 to 15, 1999.

- Daily summaries of QA/QC and construction activities were submitted to MPMC.

3.2 MONITORING

3.2.1 General

On-going monitoring of instrumentation was continued over the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

3.2.2 Vibrating Wire Piezometers

The Perimeter Embankment instrumentation Planes D and F piezometers within the downstream cycloned sand trial berm were previously monitored by KP and MPMC personnel. Piezometric pressures have indicated that drained conditions have been achieved. Cycloned sand deposition was completed within the downstream trial area on 19-Oct-99.

MPMC representatives read all other active TSF piezometers on December 20 and January 3. The following observations are based on the summary data shown on Figures 1 to 10.

- Foundation Piezometers
  All foundation piezometers have generally remained static.

- Fill Piezometers
  Fill piezometers have remained relatively static.

- Drain Piezometers
  All piezometers located within the drains have remained static and at very low head. This indicates that the drains are free draining and are functioning as designed.

- Tailings Piezometers

Plane C tailings piezometers stopped functioning at the end of May 1999. Plane A and B tailings piezometers registered a slight increase in pore pressure during Zone CS placement. The excess pressure has now dissipated and pore pressures mimic the pond level.

3.2.3 Drain Flows

Due to the high water level in the Seepage Collection Pond at the Main Embankment, the outlets of the foundation drains have been flooded, and the flows have not been recorded since December 22, 1998. MPMC plans to lower the level of the pond in Spring 2000, to continue monitoring of all foundation drain flows.

Three composite water samples were collected from the Main Embankment foundation drains in December. The high water level in the Seepage Collection Pond prevents sampling of individual drain flows.

MPMC constructed small weirs at the Main Embankment Outlet Drains to monitor Chimney Drain flows. No data has been collected due to the low observed flow levels.

The flows from outlet drains OD-4, 5, and 6 were measured on October 5, since then the water level in the Perimeter Embankment Seepage Collection Pond has been too high to measure flows from the outlet drains. Monitoring of the outlet drain flows will recommence after the pond level has been lowered.

3.2.4 Standpipe Piezometer Levels

The water level in standpipe piezometer GW96-9 (downstream of the right abutment of the Main Embankment) was not been monitored this season due to a break in the pipe. The pipe was repaired in the Fall of this year, and is now frozen. Weekly readings of GW96-9 will recommence in the Spring.

3.2.5 Survey Monuments

New survey points will be installed following the completion of Stage 2C construction in order to measure any settlements prior to the beginning of Stage 3 Construction.

3.3 QA/QC and Laboratory Testing

Lab test results were received from MTS Testing for Control samples C/ZS-3 and C/ZS-5, and Record sample R/ZS-4. These materials were found suitable for Zone S or B till construction materials, and the test summaries have been attached.

Submitted by,

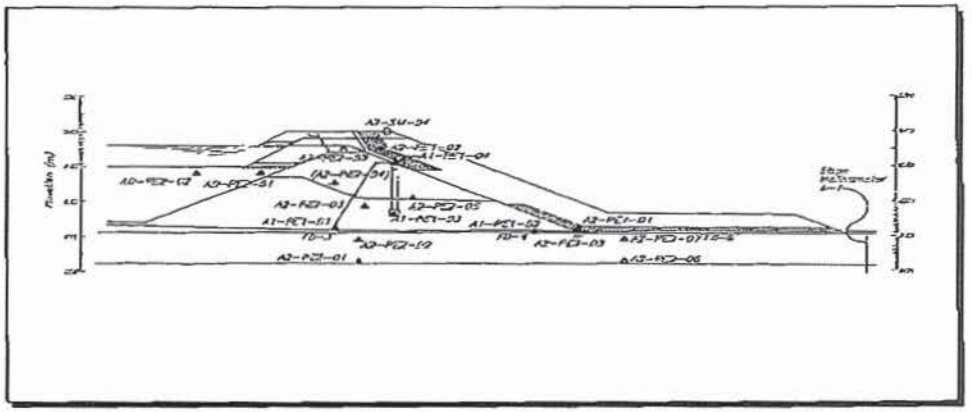
s.22

Knight Piésold

Distribution: Eric LeNeve, Tailings Coordinator, MPMC, Site
Don Parsons, Mine Superintendent, MPMC, Site
George Headley, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, Project Director/Ken Embree, Project Manager, KP Vancouver

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS



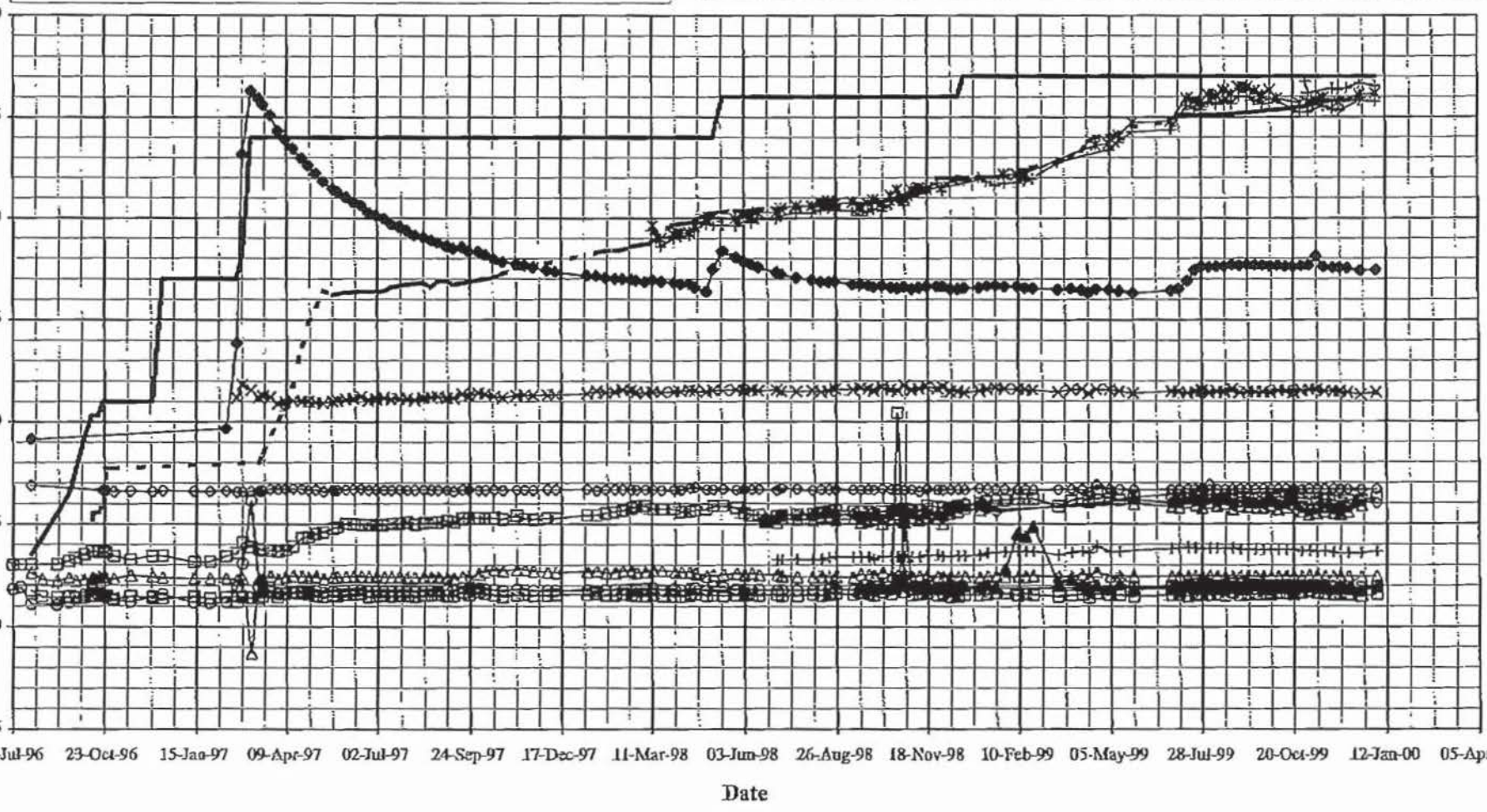


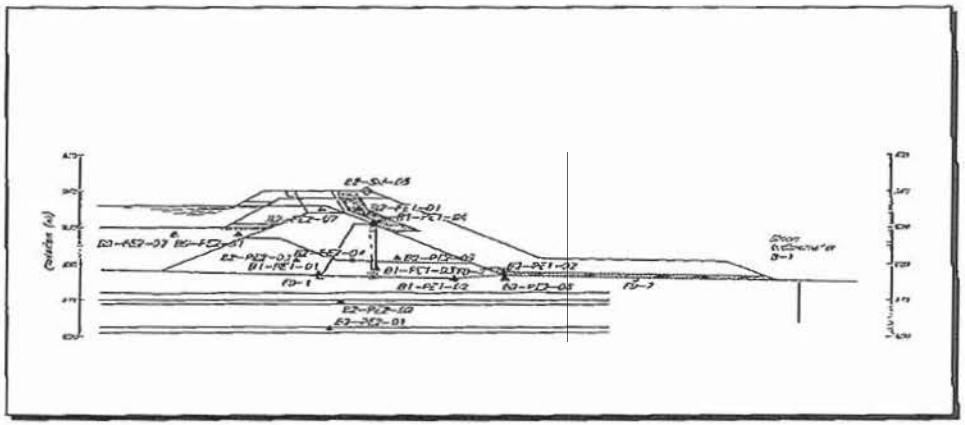
FIGURE 1

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INVESTIGATION KCB-2 Page 21 of 500
250 790 2268 PAGE.009

JAN 14 '00 13:29

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS



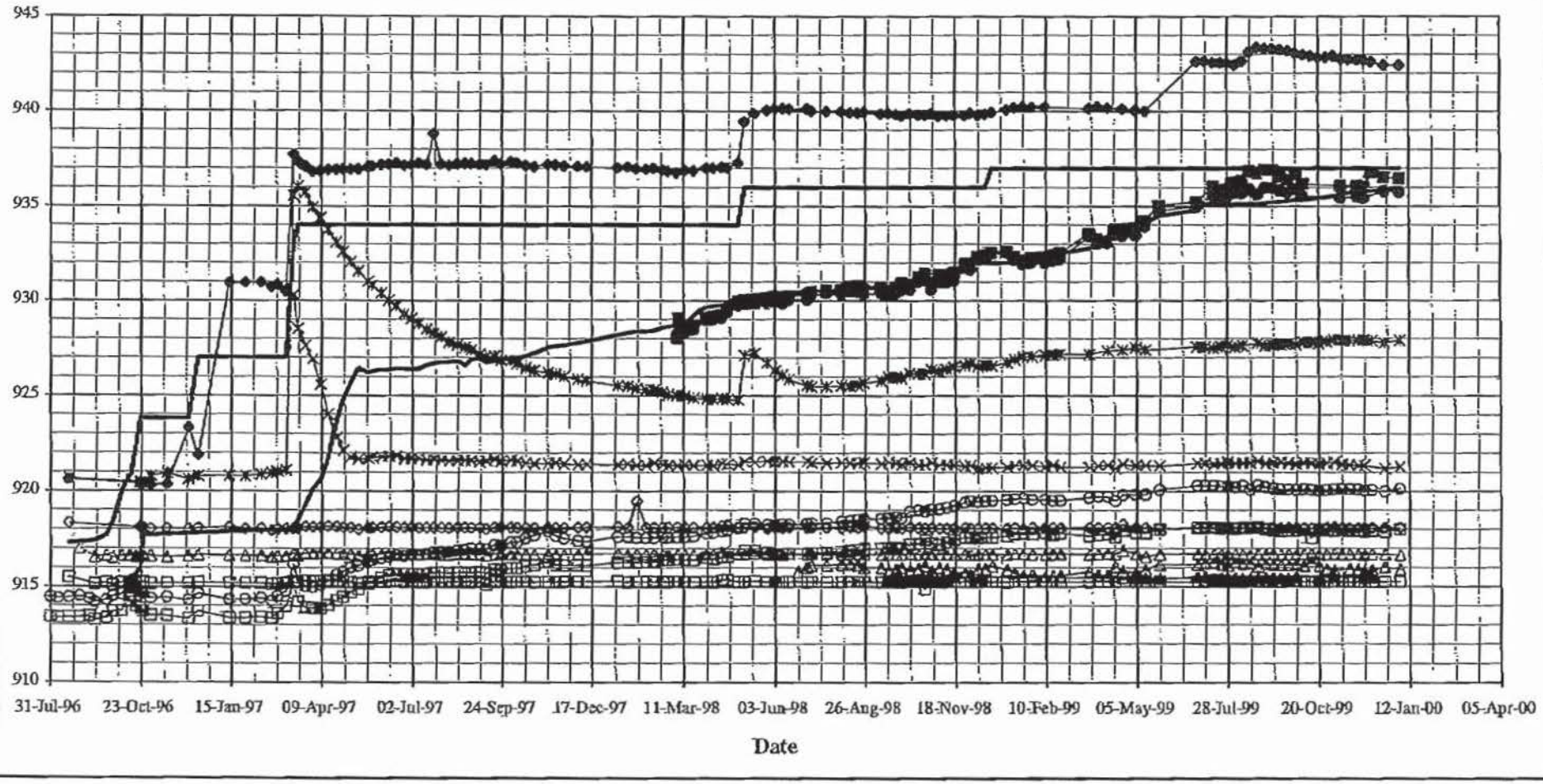


FIGURE 2

INVESTIGATION KCB-2 Page 22 of 500
250 790 2268 PAGE.010

JAN 14 '00 13:29

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

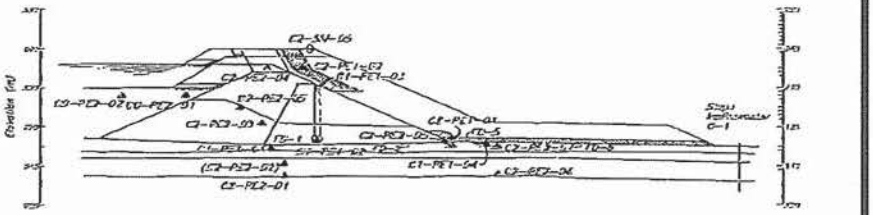


FIGURE 3

INVESTIGATION KGB-2 2500 PAGE 23 of 500 .011

JAN 14 '00 13:30

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS

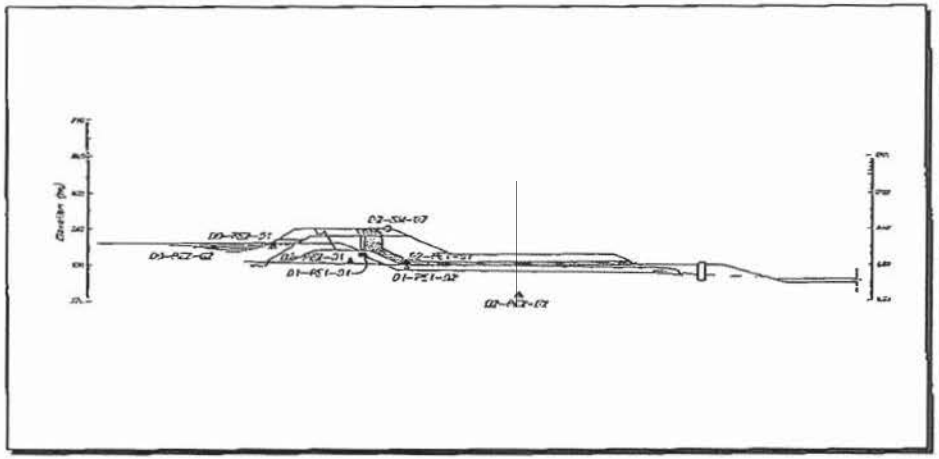


FIGURE 4

INVESTIGATION KCB-2 Page 24 of 500
250 790 2268 PAGE.012

JAN 14 '00 13:30

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

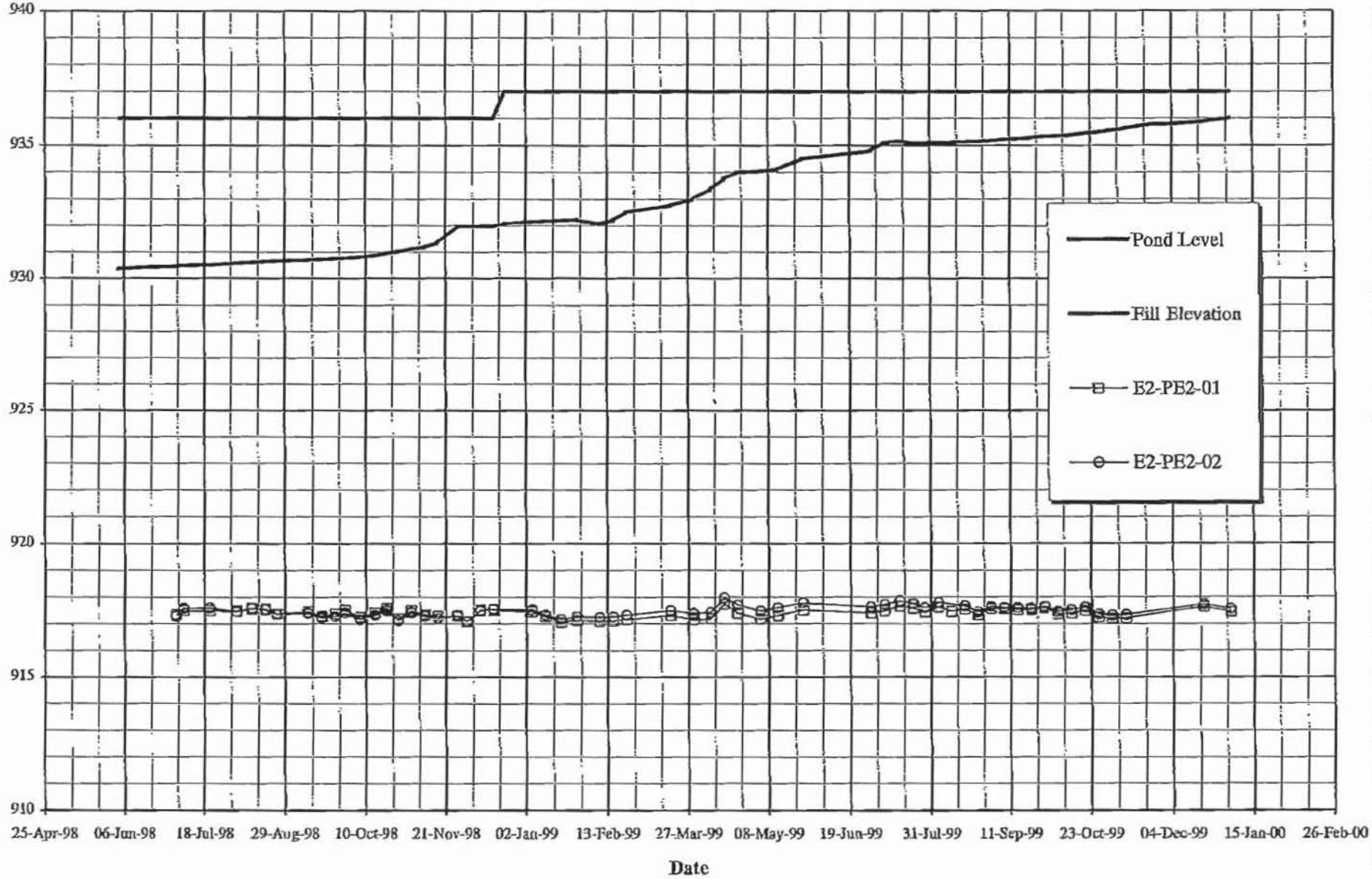


FIGURE 5

INVESTIGATION KCB-2 Page 25 of 500
250 790 2268 PAGE.013

JAN 14 '00 13:31

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE A FOUNDATION PIEZOMETERS

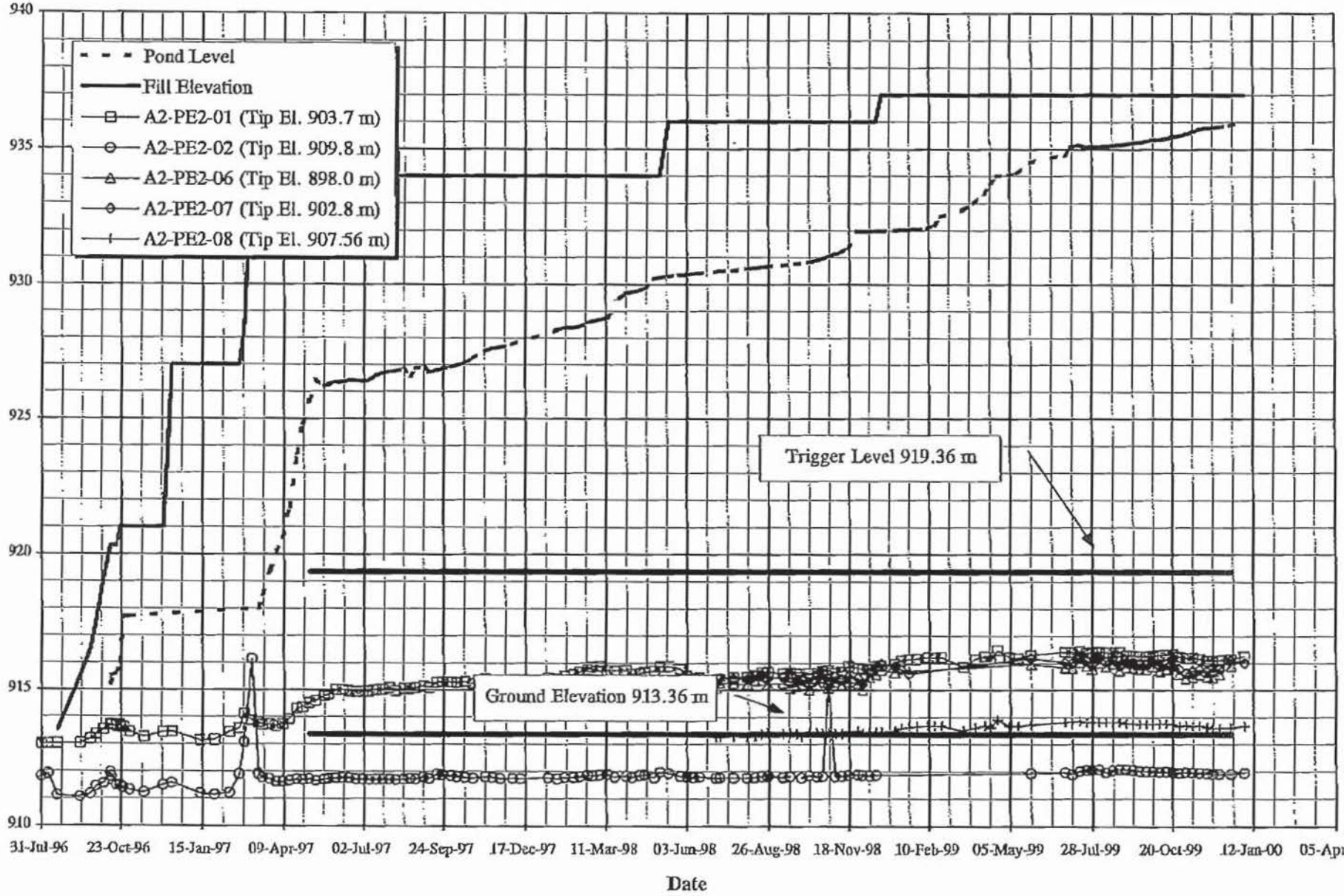


FIGURE 6

INVESTIGATION KCB-2 Page 26 of 500
250/96/2268 PAGE .014

JAN 14 '00 13:31

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE B FOUNDATION PIEZOMETERS

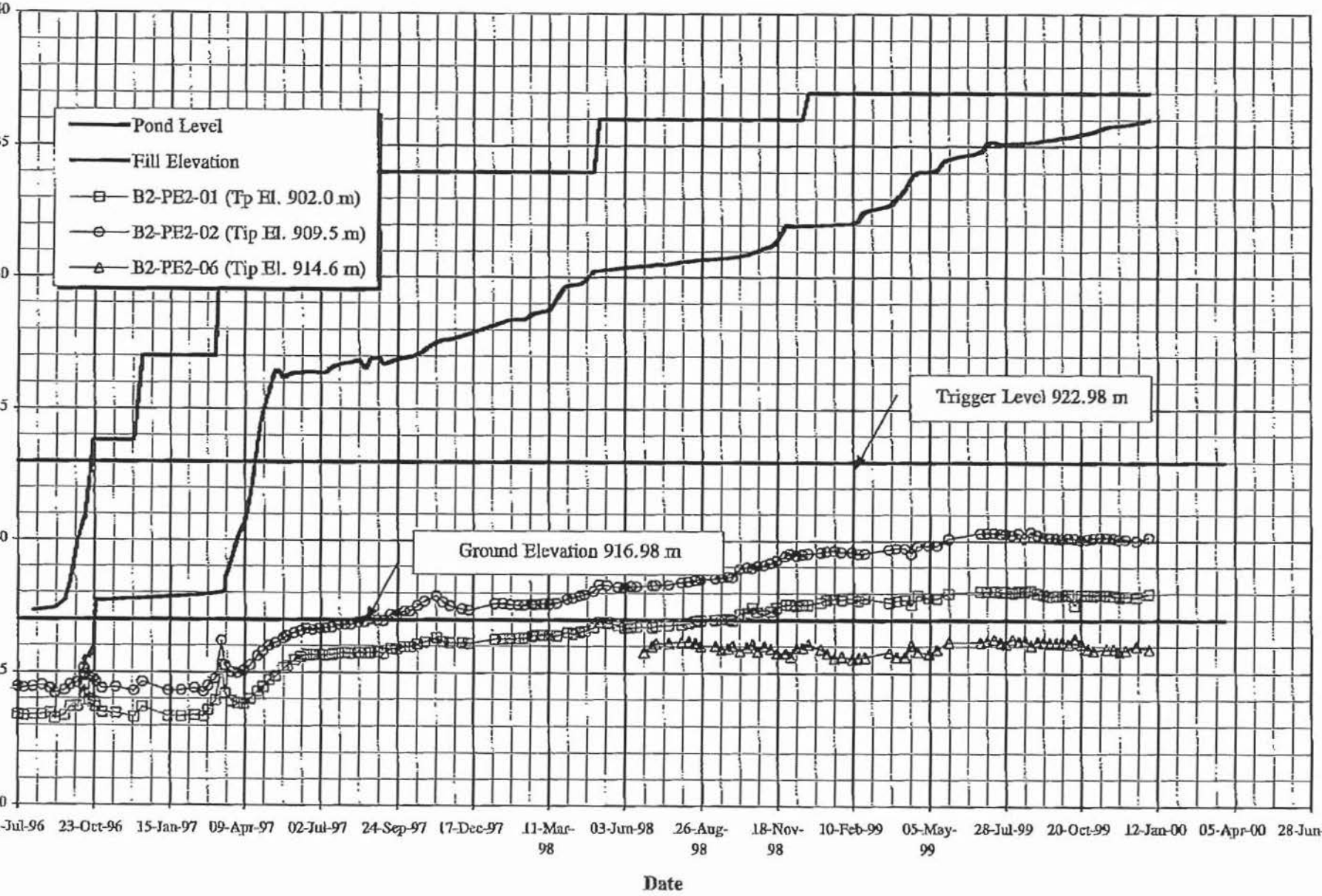


FIGURE 7

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250 790 2268 PAGE.015

JAN 14 '00 13:32

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C FOUNDATION PIEZOMETERS

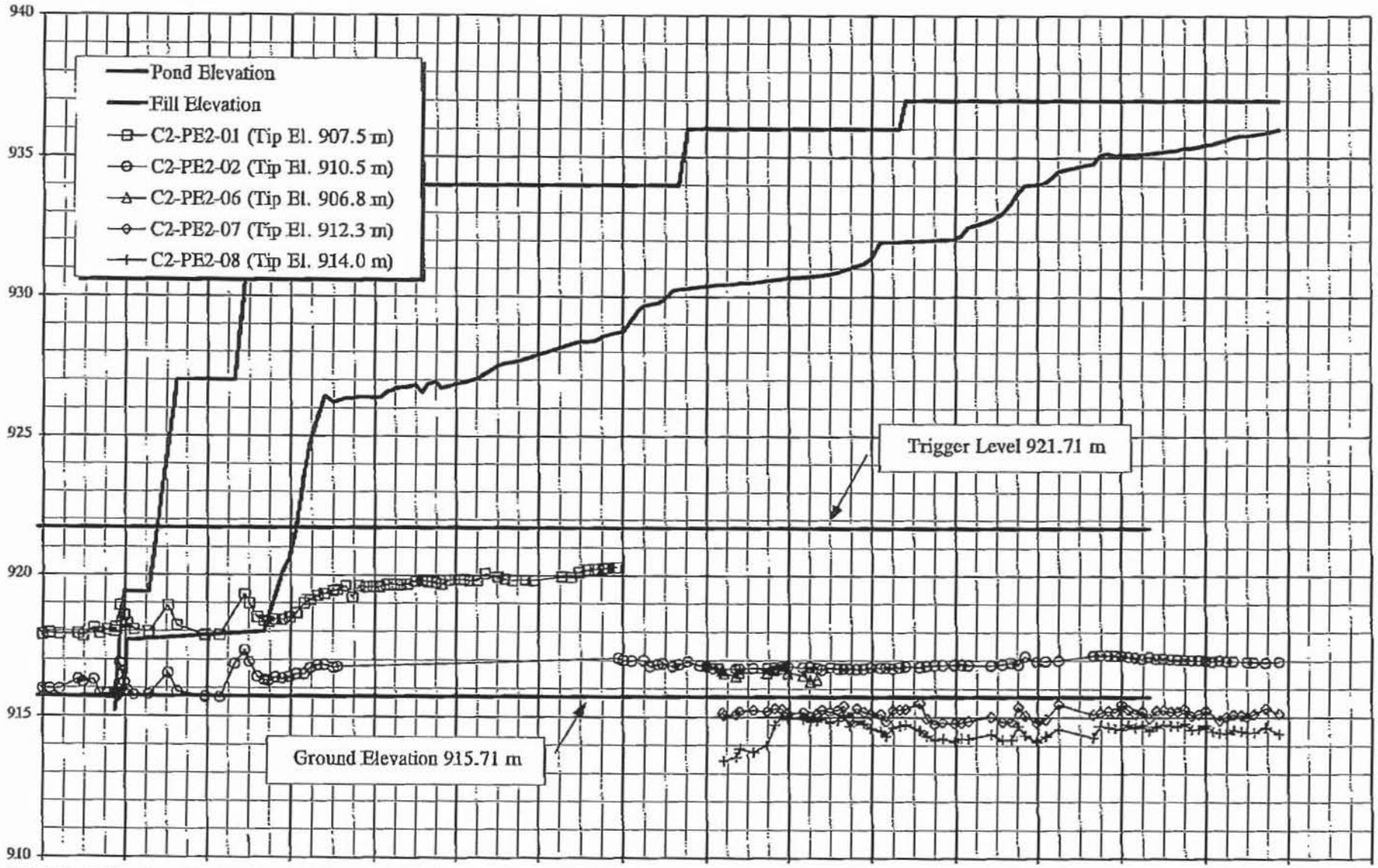


FIGURE 8

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250 790 2268 PAGE.016

JAN 14 '00 13:32

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE D FOUNDATION PIEZOMETERS

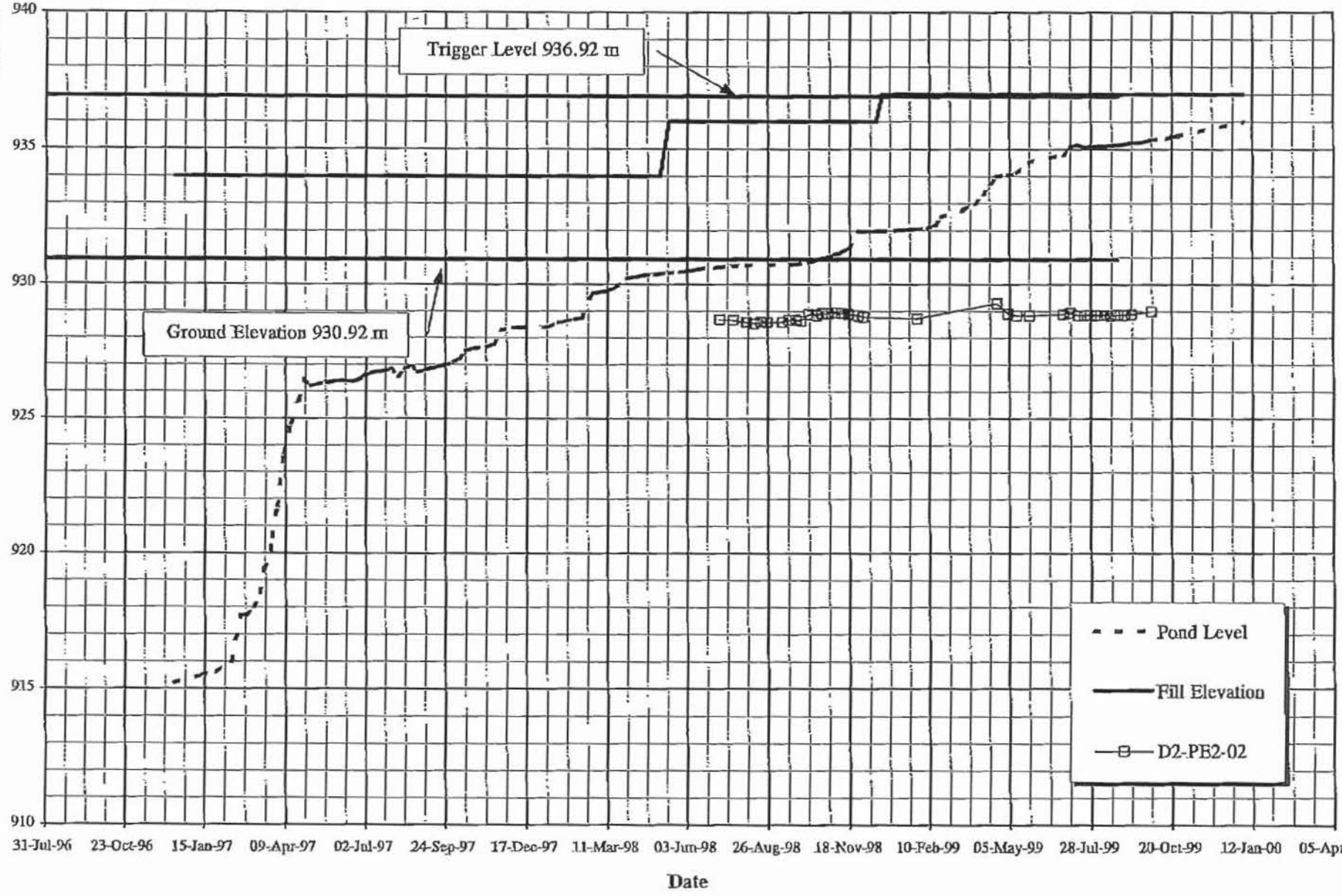


FIGURE 9

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250 790 2268 PAGE.017

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE E FOUNDATION PIEZOMETERS

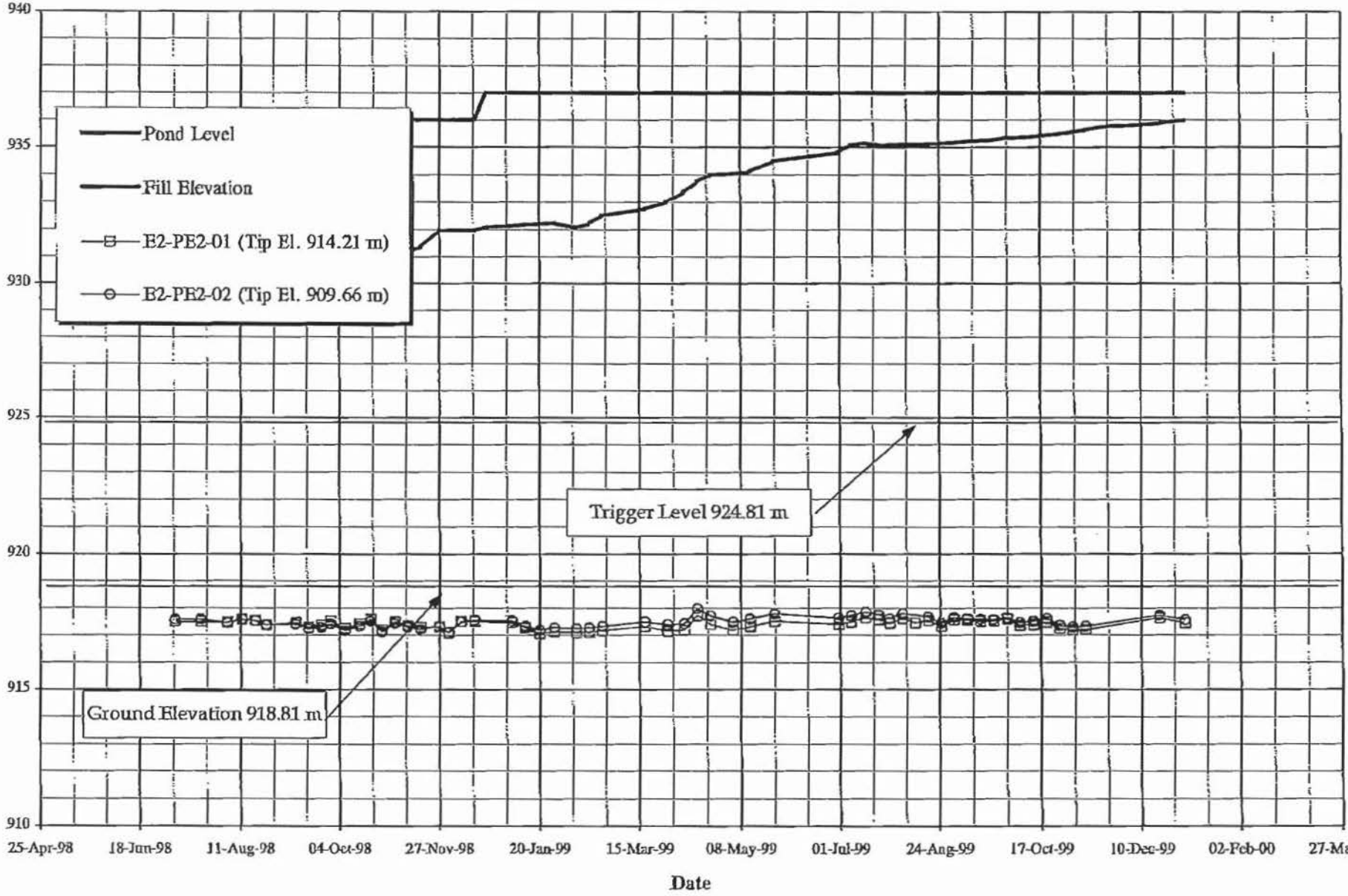


FIGURE 10

INVESTIGATION KCB-2 Page 30 of 500
250 1/90 2268 PAGE .018

JAN 14 '00 13:33

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE S CONTROL TEST SUMMARY SHEET

A:\[C-25-5078.xls]Summary Table 07-Dec-00

Date Sampled	Sample No.	Location	Elev. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Lab m/c %	C3 (Particle Size Distribution) 152.4 6	76.2 3	50.8 2	38.1 1.5	25.4 1	19.05 0.750	12.7 0.500	9.525 0.375	4.75 #4	3.353 0.132	2 #10	1.191 0.047	0.85 #20	0.594 0.023	0.425 #40	0.25 #60	0.15 #100	0.075 #200	C4 Standard Proctor Max Dry Density kg/m³	Optimum m/c %	C6 Specific Gravity
								6	3	2	1 1/2	1	3/4	1/2	3/8	#4	#6	#10	#16	#20	#30	#40	#60	#100	Clay			
03-Sep-99	C/ZS-1	Borrow Area 2, Exc. Face	-	17.5	25.5	8.0	-	100.0	100.0	-	100.0	100.0	98.7	-	93.0	86.1	83.8	-	78.2	-	74.1	71.4	-	61.1	52.8	2015	11.2	-
22-Sep-99	C/ZS-2	Borrow Area 2, Exc. Face	-	16.8	26.8	10.0	11.6	100.0	100.0	-	94.8	92.1	91.0	-	85.6	79.5	77.2	-	73.5	-	67.4	64.6	-	54.3	45.8	2042	10.6	-
29-Nov-99	C/ZS-3	Borrow Area 2, Exc. Face	-	14.8	24.3	9.5	12.1	100.0	100.0	100.0	98.5	94.2	91.2	85.7	80.1	75.2	-	70.7	-	66.8	-	63.3	58.3	50.7	42.1	2180	7.6	2.649
08-Dec-99	C/ZS-4	Borrow Area 2, Exc. Face	-	25.0	14.8	10.2	11.7	100.0	94.6	-	90.9	86.5	82.8	78.6	75.9	71.9	-	67.1	-	62.5	-	58.5	53.4	48.0	39.8	2200	7.4	2.674
17-Dec-99	C/ZS-5	Borrow Area 4, Exc. Face	-					100.0	100.0	-	100.0	99.6	99.2	98.2	97.7	96.0	-	93.1	-	88.9	-	84.3	77.8	70.7	58.8	1982	11.6	2.624
		MEAN		18.5	22.9	9.4	11.8	100.0	98.9		96.8	94.5	92.6	87.5	86.4	81.7	80.5	77.0	74.8	72.7	70.8	68.4	63.2	57.0	47.9	2084	9.7	2.65
		MEDIAN		17.2	24.9	9.8	11.7	100.0	100.0		98.5	94.2	91.2	85.7	85.6	79.5	80.5	70.7	74.8	66.8	70.8	64.6	58.3	54.3	45.8	2042	10.6	2.65
		MAXIMUM		25.0	26.8	10.2	12.1	100.0	100.0		100.0	100.0	99.2	98.2	97.7	96.0	83.8	93.1	78.2	88.9	74.1	84.3	77.8	70.7	58.8	2200	13.6	2.67
		MINIMUM		14.8	14.8	8.0	11.6	100.0	94.6		90.9	86.5	82.8	78.6	75.9	71.9	77.2	67.1	73.5	62.5	67.4	58.3	53.4	48.0	39.8	1982	7.4	2.62

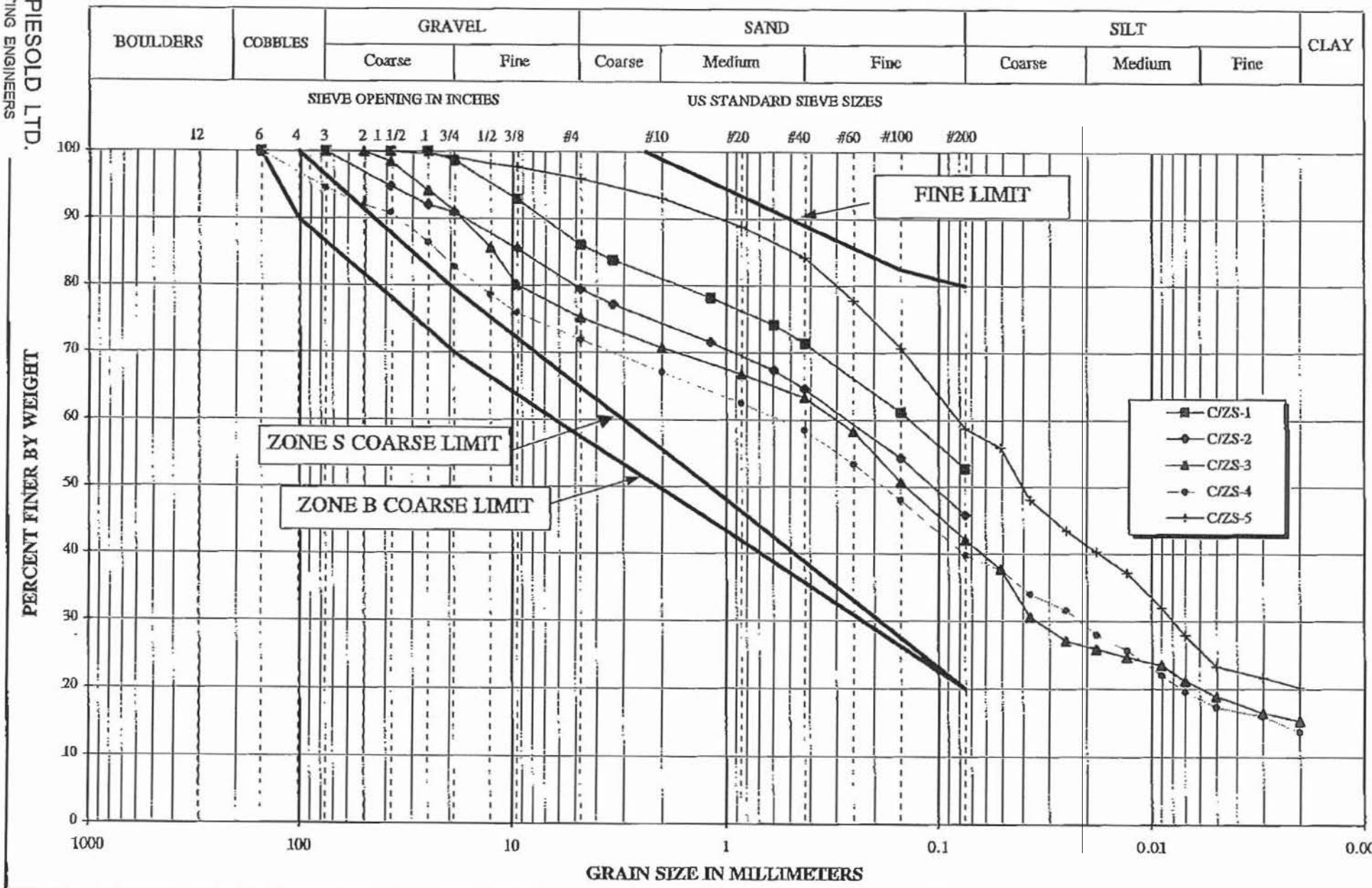
Notes:

1. Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

C1 Atterberg Limits (ASTM D4318)
C2 Moisture Content (ASTM D2216)
C3 Particle Size Distribution (ASTM D422)
C4 Laboratory Compaction (ASTM D698)
C6 Bulk Specific Gravity (ASTM C127)

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250 790 2268 PAGE.019

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE S CONTROL SAMPLES - GRADATION CURVES



KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

JAN 14 '00 13:33

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250 790 2268 PAGE.020

JAN 14 '00 13:34

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE S RECORD TEST SUMMARY SHEET

A:\CR-ZS-S\[ZLab Summary Table

14-Jan-00

Date Sampled	Sample No.	Location	Elev. (m)	R1 Atterberg Limits			R2 Field	R3 (Particle Size Distribution)														R4 Standard Proctor		R6 Specific	R7 Field Density	
				P.L.	L.L.	PI	m/c	152.4	76.2	50.8	38.1	25.4	19.05	12.7	9.525	4.75	2	0.85	0.425	0.25	0.15	0.075	Max Dry Density	Optimum m/c	Gravity	Dry Density	Compaction
				%	%	%	%	6	3	2	1 1/2	1	3/4	1/2	3/8	#4	#10	#20	#40	#60	#100	#200 Clay	kg/m³	%		kg/m³	%
06-Dec-99	R-ZS-1	Zone S fill - Lift #2, CH 30+13	-	17.9	29.1	11.2	11.1	100.0	100.0	97.9	95.4	92.1	88.5	83.1	73.0	67.8	63.6	58.9	56.1	51.5	46.7	44.3	2165	8.8	-	2111	97.5
01-Nov-99	R-ZS-2	Zone S fill - Lift #4, CH 31+38	-	16.4	27.7	11.3	11.3	100.0	100.0	98.0	97.0	93.7	90.7	90.0	83.4	80.3	75.1	70.7	66.6	60.9	53.1	45.0	2110	8.4	2.701	2084	98.8
27-Nov-99	R-ZS-3	Zone S fill - Lift #4, CH 29+79	-	13.7	27.4	11.7	13.1	100.0	100.0	95.3	94.1	92.5	90.7	87.1	83.8	80.0	73.0	70.9	67.3	62.4	54.5	47.5	2075	9.0	-	2047	98.7
17-Dec-99	R-ZS-4	Zone S fill - Lift 2, CH 39+31	936.9	24.2	15.3	8.9	13.0	100.0	100.0	100.0	99.7	99.6	98.4	97.7	95.0	92.3	88.3	84.0	77.8	70.9	59.2	55.4	2000	10.8	-	2009	100.0
MEAN				18.6	24.9	10.8	12.2	100.0	100.0	97.8	96.6	93.0	92.8	88.2	84.3	80.1	75.5	71.1	67.0	61.4	53.4	48.1	2095	9.3	2.70		
MEDIAN				17.2	27.6	11.3	12.3	100.0	100.0	98.0	96.2	94.1	92.2	88.6	84.6	80.2	75.1	70.8	67.0	61.7	53.8	46.3	2093	8.9	2.70		
MAXIMUM				24.2	29.1	11.7	13.1	100.0	100.0	100.0	99.7	99.6	98.4	97.7	95.0	92.3	88.3	84.0	77.8	70.9	59.2	55.4	2165	10.8	2.70		
MINIMUM				15.7	15.3	8.9	11.1	100.0	100.0	95.3	94.1	92.1	88.5	80.1	73.0	67.8	63.6	58.9	56.1	51.5	46.7	44.3	2000	8.4	2.70		

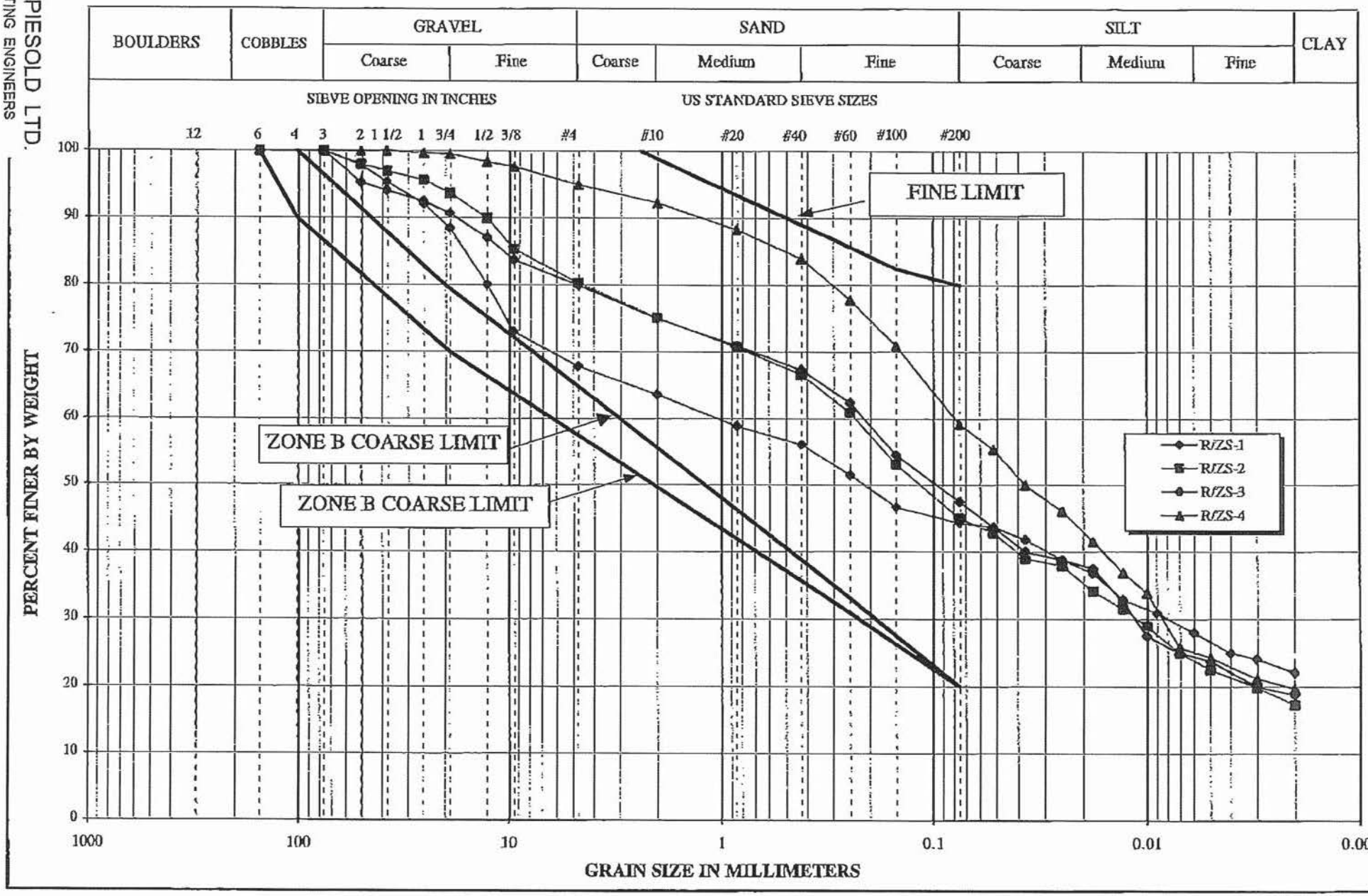
Notes:

1. Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Bulk Specific Gravity (ASTM C127)

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250/500 PAGE .021

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE S RECORD SAMPLES - GRADATION CURVES



KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

JAN 14 '00 13:34
INVESTIGATION\SGB-2.PGS 34 of 500 PAGE.022

Knight Piésold CONSULTING	DATE: Dec. 21, 1999	FILE NO.: 11162/10.F01/F02/F05/F07
	TIME:	REF NO.: 99-044
Knight Piésold, Mt. Polley Site *Fax: (250) 790-2268* *Phone: (250) 790-2215*	OPERATOR:	PAGES: 1 of 24
	SENDER: s.22	APPROVED:

TO:	KP Vancouver	**FAX :**	604-685-0147
ATTN:	s.22		
CC:	George Headley, Ministry of Energy and Mines		
SUBJECT:	Mount Polley Stage 2C Construction Progress Report #8		

Dear John,

Please find attached Progress Report No. 8 for Stage 2C Construction at the Mount Polley Mine. This document is for the reporting period December 1 to 15, 1999.

Best Regards,

s.22

Knight Piésold

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION
PROGRESS REPORT NO. 8
DECEMBER 1 TO 15, 1999

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 2C construction activities over the reporting period. Knight Piésold Ltd. (KP) carried out QA/QC activities over this period.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 IBM), Project Engineer

The following MPMC management personnel were on site during the reporting period:

- Eric LeNeve, Tailings Coordinator
- Don Parsons, Mine Superintendent

1.2 WEATHER

Conditions over the reporting period were mixed, with temperatures typically ranging from 0° to –15°C. Construction activities were suspended due to snowfall on December 1, 2, 3, 6, 10, 11, 12, and 15.

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Knight Piésold
CONSULTING

1.3 DESIGN AND CONTRACT DEVELOPMENT

There were no design modifications or contractual developments over the reporting period.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Cycloning operations for 1999 were terminated on October 19. Since that time, bulk tailings have been point-discharged from the upper dump valve at the northwest corner of the tailings facility. Over the reporting period, the bulk tailings discharge trench was relocated southwest of its original position, to direct flows centrally within the tailings facility.

Following Stage 2C construction, a tailings pipeline system will be re-instated along the embankments. Bulk tailings will be strategically discharged from the upstream embankment crests, to promote the development of adequate beaches adjacent to the embankments, and to control the positioning of the supernatant pond.

SECTION 2.0 - CONSTRUCTION ACTIVITIES

The following activities were carried out by MPMC and Peterson Contracting over the reporting period:

Stage 2C Embankment Construction

- Preparation work was carried out within Borrow Areas #2 and #4. This included overburden stripping, snow removal, and wasting of all saturated and/or frozen till materials.

- Zone B & S surface preparation was carried out as required prior to placement of each lift. This included stripping of ice and snow from all surfaces prior to fill placement.

- As part of the crest El. 941m design change, additional upstream Zone B fill placement was required from CH 26+80 to CH 32+00. During the reporting period, foundation preparation and

wasting of loose u/s face material was completed along the upstream Perimeter embankment from CH 28+00 to CH 32+00. Prior to fill placement, a 1-meter thick Coarse Bearing Layer was placed over saturated foundation from CH 30+95 to CH 32+00. Zone B till was then placed to the existing Perimeter embankment crest from CH 27+70 to CH 32+00.

- During foundation preparation activities, the buried solid CPT u/s toe drain was intercepted and damaged. This section of pipe was excavated out and replaced, and the trench was backfilled with till material and compacted.

- Foundation preparation was carried out at the Perimeter embankment left abutment, within the Zone S core footprint from CH 44+18 to CH 44+50.

- Both dayshift and nightshift Zone B & S fill placement was carried out over the reporting period. Dayshift construction activities took place on December 1, 7, 8, 9, 10, and 13. Nightshift work activities were carried out on December 7, 8, 9, and 14.

- Over the reporting period, Zones B & S fill placement activities were carried out along the Perimeter embankment from CH 34+75 to CH 38+50 (work on lifts #1 to 4). In addition, Zone S fill placement was carried out at the Perimeter embankment left end from CH 43+15 to CH 44+50 (to approx. El. 938m).

- During the reporting period, sumps were excavated within the upstream CBL Zone B area at various locations along the Perimeter embankment, and were pumped to drain puddles from the Zone S/B interface.

- During till placement, Borrow Area #2 was utilized from December 1 to 10. Borrow Area #4 was used to source till material after December 13.

- Dozer work was carried out along the Main embankment, pushing upstream cycloned sand to the u/s Zone S core contact. Surface snow was removed from the cycloned sand, to prevent it from becoming trapped within the u/s Zone B area.

- Along the left end of the Perimeter embankment, work was carried out to pull upstream cycloned sand for utilization within the u/s Zone B fill area. Also over the reporting period, dozer work was carried out to spread upstream cycloned sand piles within the Perimeter embankment. Zone B areas.

Fill Placement Summary

Embankment Zone	Volume Placed over Period (m^3)	Total Volume to Date (m^3)	Total Volume Required (m^3)	Percent Complete (%)
S (till core)	11,012	31,015	82,120	38
B (till)	5,506	30,485	52,610	58
CBL (rockfill)	673	31,853	31,853	100
F (filter sand)	0	2,300	2,300	100
Stg 3 toe berm (rockfill)	0	3,507	-	-

Note: Fill volumes required for Stage 2C construction have been updated to include for the El. 941m design change.

Miscellaneous

- Grader work was carried out along TSF access roads.

- Over the reporting period, Zone FS filter sand material was spread onto TSF access road haul routes, to provide traction for trucks.

- During the reporting period, a culvert was removed from the Perimeter embankment left abutment area.

- Along the Main embankment right abutment, an access road was dozed adjacent to the u/s drainage ditch. This road will be used to facilitate equipment access during backfilling of the ditch with till basin liner material.

- During the reporting period, MPMC personnel relocated concrete blocks and sections of pipe from original laydown area upstream of the Perimeter embankment right abutment to a new area downstream of the Perimeter embankment.

- Over the reporting period, cycloned sand upstream of the Perimeter embankment was excavated and used for d/s access ramp construction.

- s.22 contract surveyor) carried out a survey of Borrow Area #2, and sent the data to KP Vancouver. Plan and section drawings were updated to present the current status of the Borrow Area, and were sent back to IM on-site.

SECTION 3.0 - KNIGHT PIÉSOLD ACTIVITIES

3.1 GENERAL

KP activities over the reporting period included the following:

Stage 2C Embankment Construction

- Over the reporting period, MPMC had s.22 contract surveyor) provide inspection services during nightshift construction operations. Results of the MPMC inspector reports along with QA/QC records were provided to the KP Site Engineer for review and compilation.

- Nuclear densometer record testing was carried out on all placed and compacted Zone B and S materials, to measure achieved field dry density and moisture content values. The minimum acceptable field density requirement for compacted Zone B material is 92% of Standard Maximum Dry Density (SMDD), and 95% SMDD for Zone S core material. Densometer testing confirmed that the required compaction specifications were achieved.

- During construction, KP provided ongoing inspection of the following: stripping of unsuitable materials within Borrow Areas #2 and #4, excavated till materials for embankment construction, embankment surfaces prior to fill placement, lift thickness.

- IM inspected and approved u/s Perimeter embankment foundation preparation from CH 28+00 to CH 32+00. IM also approved foundation preparation at the Perimeter embankment left abutment, within the Zone S footprint from CH 44+18 to CH 44+50.

Miscellaneous

- IM inspected the Main embankment right abutment u/s drainage ditch, and the access road constructed alongside the ditch.

- During the reporting period, IM faxed KP Van re: Stage 2C construction status.

- Progress Report No. 7 was written and issued for the reporting period November 16 to 30, 1999.

- Daily summaries of QA/QC and construction activities were submitted to MPMC.

- IM reviewed an invoice received by MPMC by MTS Testing for lab testing services to November 30.

3.2 MONITORING

3.2.1 General

On-going monitoring of instrumentation was continued over the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

3.2.2 Vibrating Wire Piezometers

The Perimeter Embankment instrumentation Planes D and F piezometers within the downstream cycloned sand trial berm were previously monitored by KP and MPMC personnel. Piezometric pressures have indicated that drained conditions have been achieved. Cycloned sand deposition was completed within the downstream trial area on 19-Oct-99.

MPMC representatives read all other active TSF piezometers on December 1 and 8. The following observations are based on the summary data shown on Figures 1 to 10.

- Foundation Piezometers
  All foundation piezometers have generally remained static.

- Fill Piezometers
  Pore pressures in the vicinity of B2-PE2-03 (Zone S), C2-PE2-05 (Zone S) and A2-PE2-03 (Zone B) increased then dropped slightly, likely as a result of Zone CS placement. The remainder of the fill piezometers have remained relatively static.

- Drain Piezometers
  All piezometers located within the drains have remained static. This indicates that the drains are free draining and are functioning as designed.

- Tailings Piezometers
  Plane C tailings piezometers were reacting to the rise in pond level until they stopped functioning at the end of May, 1999. Plane B tailings piezometers continue to mimic the pond level. The tailings piezometers at Plane A reacted to the placement of Zone CS material, and have since dropped slightly.

3.2.3 Drain Flows

Due to the high water level in the Seepage Collection Pond at the Main Embankment, the outlets of the foundation drains have been flooded, and the flows have not been recorded since December 22,

1998. MPMC plans to lower the level of the pond in Spring 2000, to continue monitoring of all foundation drain flows.

MPMC constructed small weirs at the Main Embankment Outlet Drains to monitor Chimney Drain flows. No data has been collected due to the low observed flow levels.

The flows from outlet drains OD-4, 5, and 6 were measured on October 5, since then the water level in the Perimeter Embankment Seepage Collection Pond has been too high to measure flows from the outlet drains. Monitoring of the outlet drain flows will recommence after the pond level has been lowered.

3.2.4 Standpipe Piezometer Levels

The water level in standpipe piezometer GW96-9 (downstream of the right abutment of the Main Embankment) was not been monitored this season due to a break in the pipe. The pipe was repaired in the Fall of this year, and is now frozen. Weekly readings of GW96-9 will recommence in the Spring.

3.2.5 Survey Monuments

New survey points will be installed following the completion of Stage 2C construction in order to measure any settlements prior to the beginning of Stage 3 Construction.

3.3 QA/QC and Laboratory Testing

Over the reporting period, Zone S Control sample C/ZS-4 was collected from Borrow Area #2, and was sent to MTS for laboratory testing. Also over the period, lab test results were received from MTS Testing for Control sample C/ZS-3 and Record sample R/ZS-3. These materials were found suitable for Zone S or B till construction materials, and the test summaries have been attached.

Knight Piésold
CONSULTING

Submitted by,

s.22

Knight Piésold

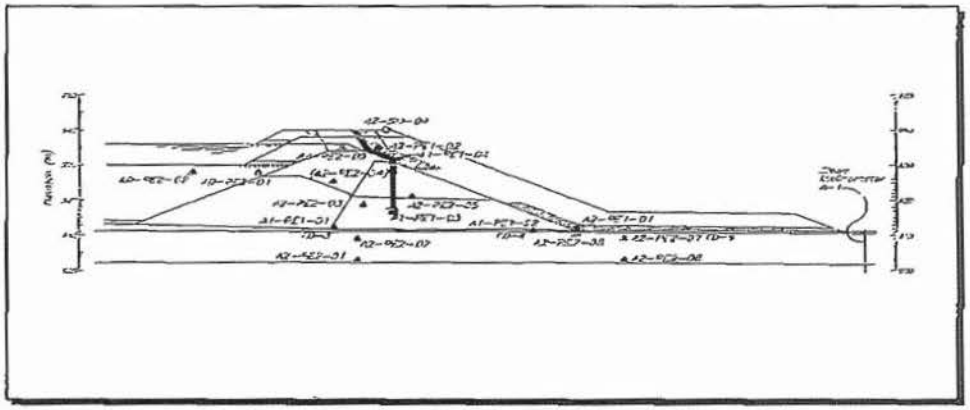
Distribution: Eric LeNeve, Tailings Coordinator, MPMC, Site
Don Parsons, Mine Superintendent, MPMC, Site
George Headley, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, Project Director/John Wilkinson, Project Manager, KP Vancouver

INVESTIGATION-KCB-2 Page 44 of 500

DEC 21 '99 14:43

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS



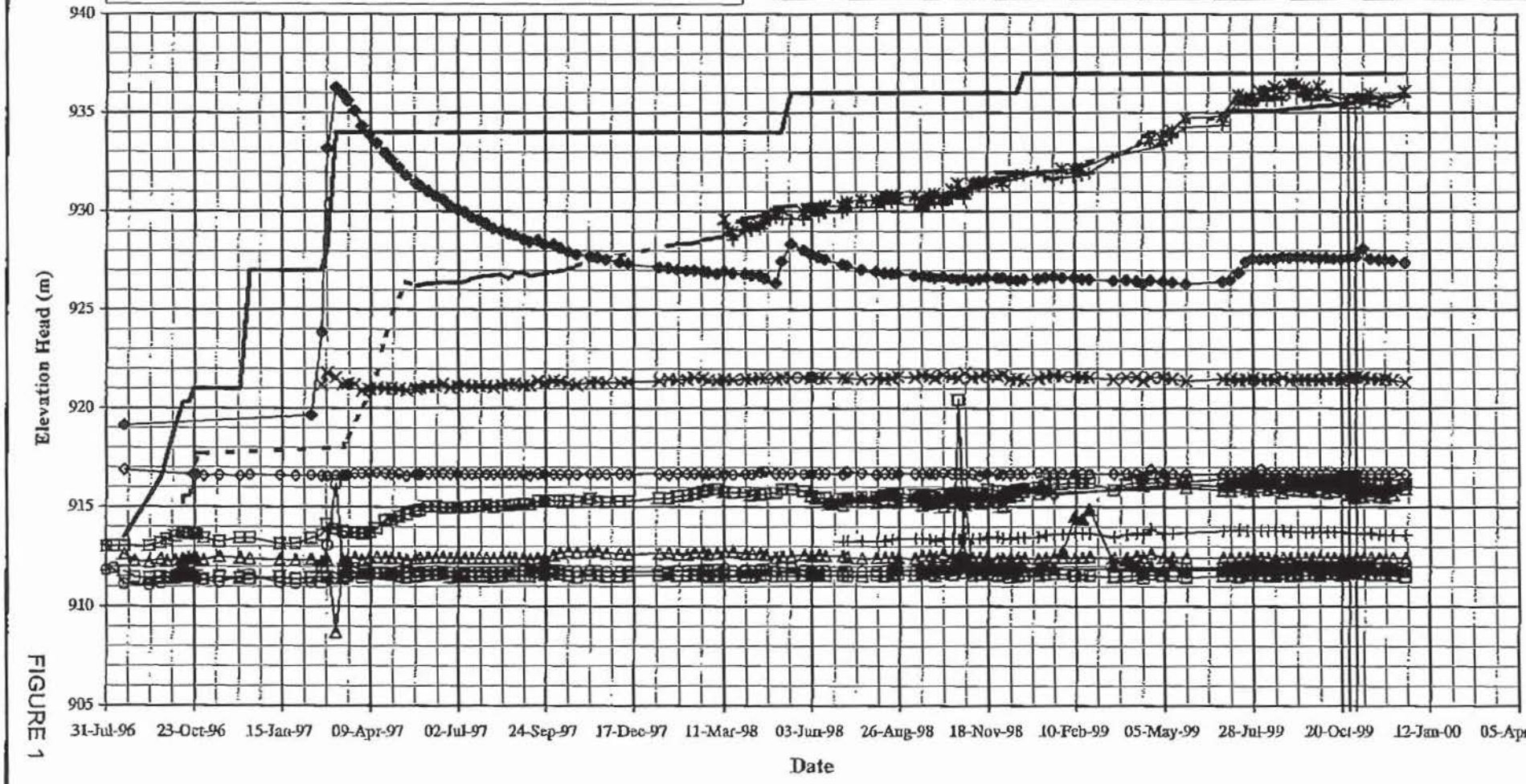


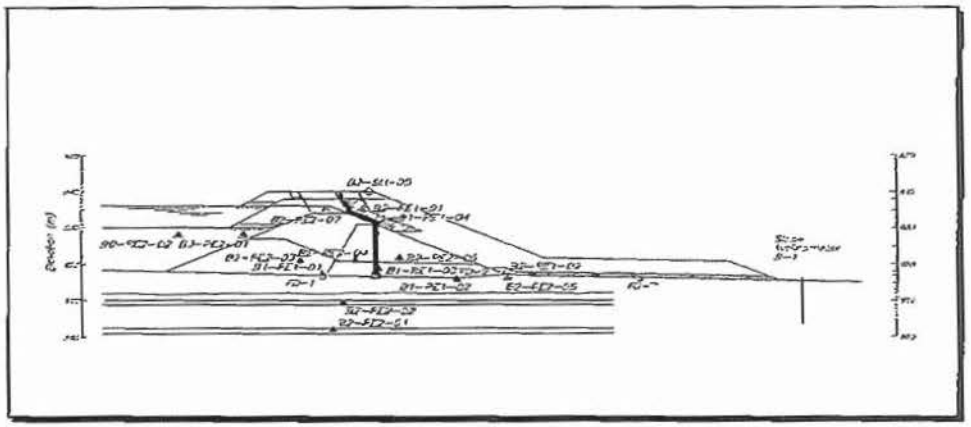
FIGURE 1

INVESTIGATION\GSR 2 Page 25 of 500.GE.011

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS



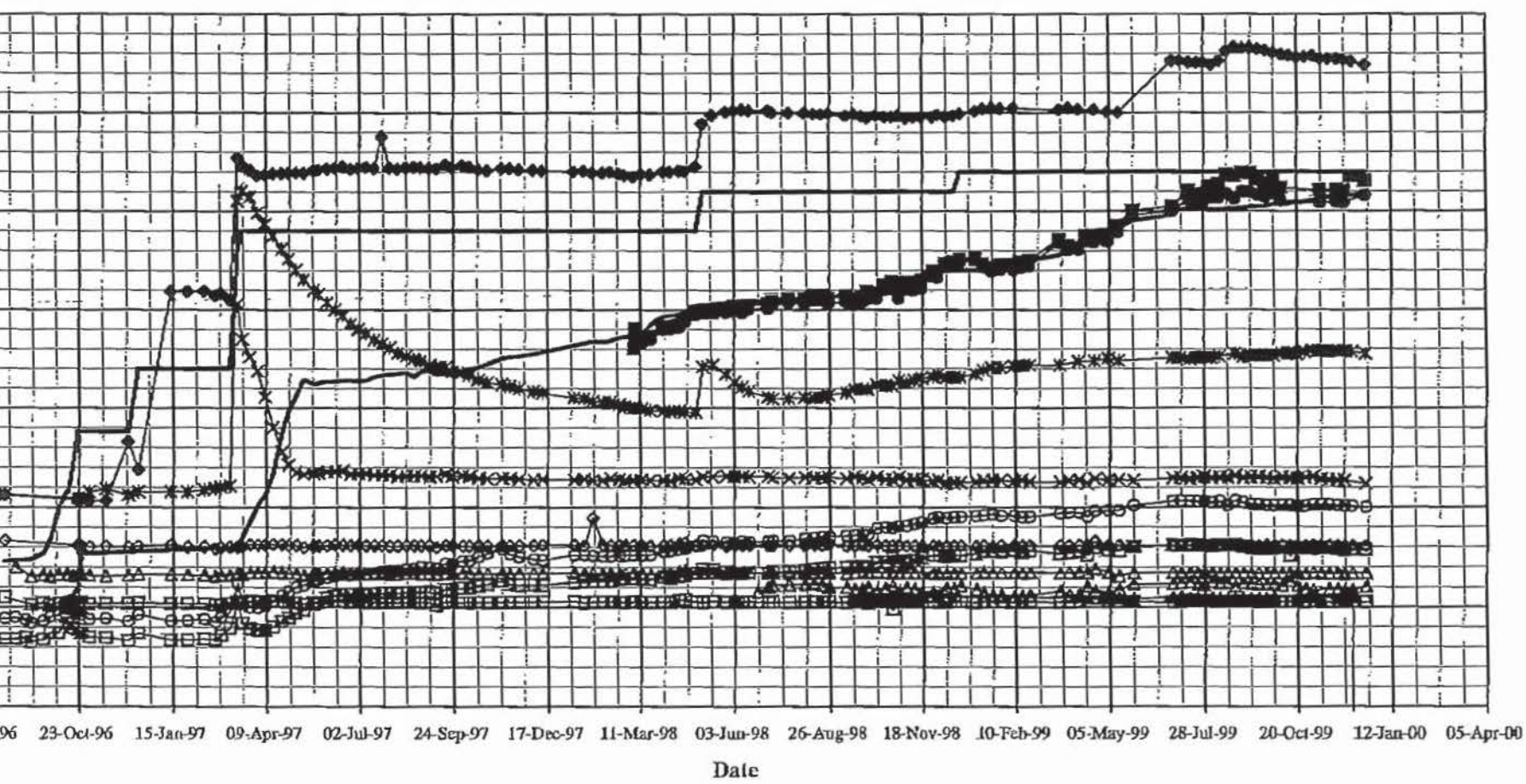


FIGURE 2

INVESTIGATION\GDP 2.DGN 21-DEC-99 14:43:46 PAGE.012

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

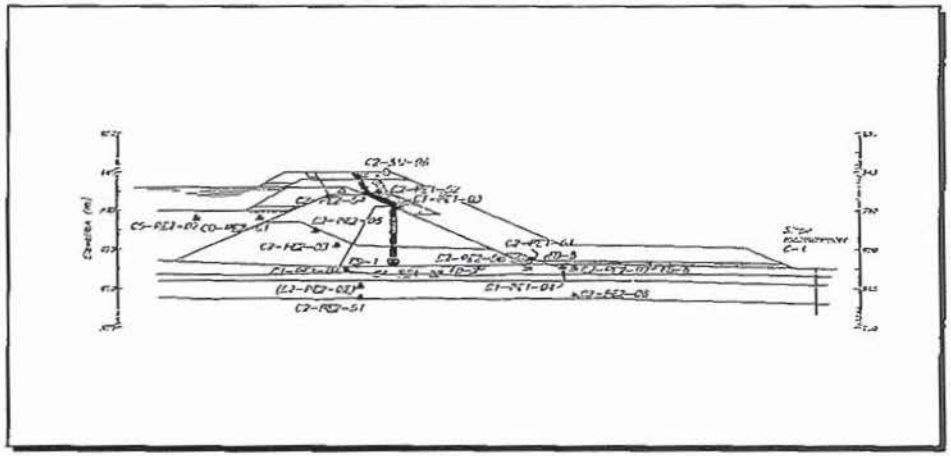
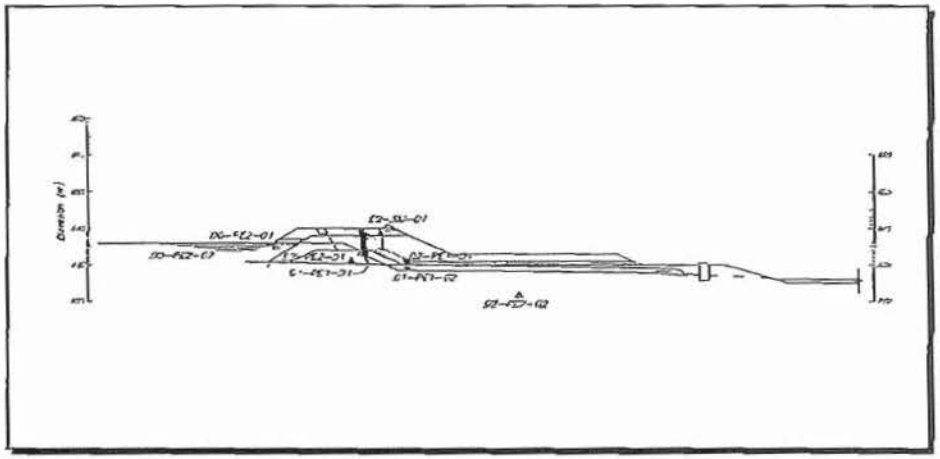


FIGURE 3

INVESTIGATION KGS 2 Page 47 of 500 PAGE.013

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS



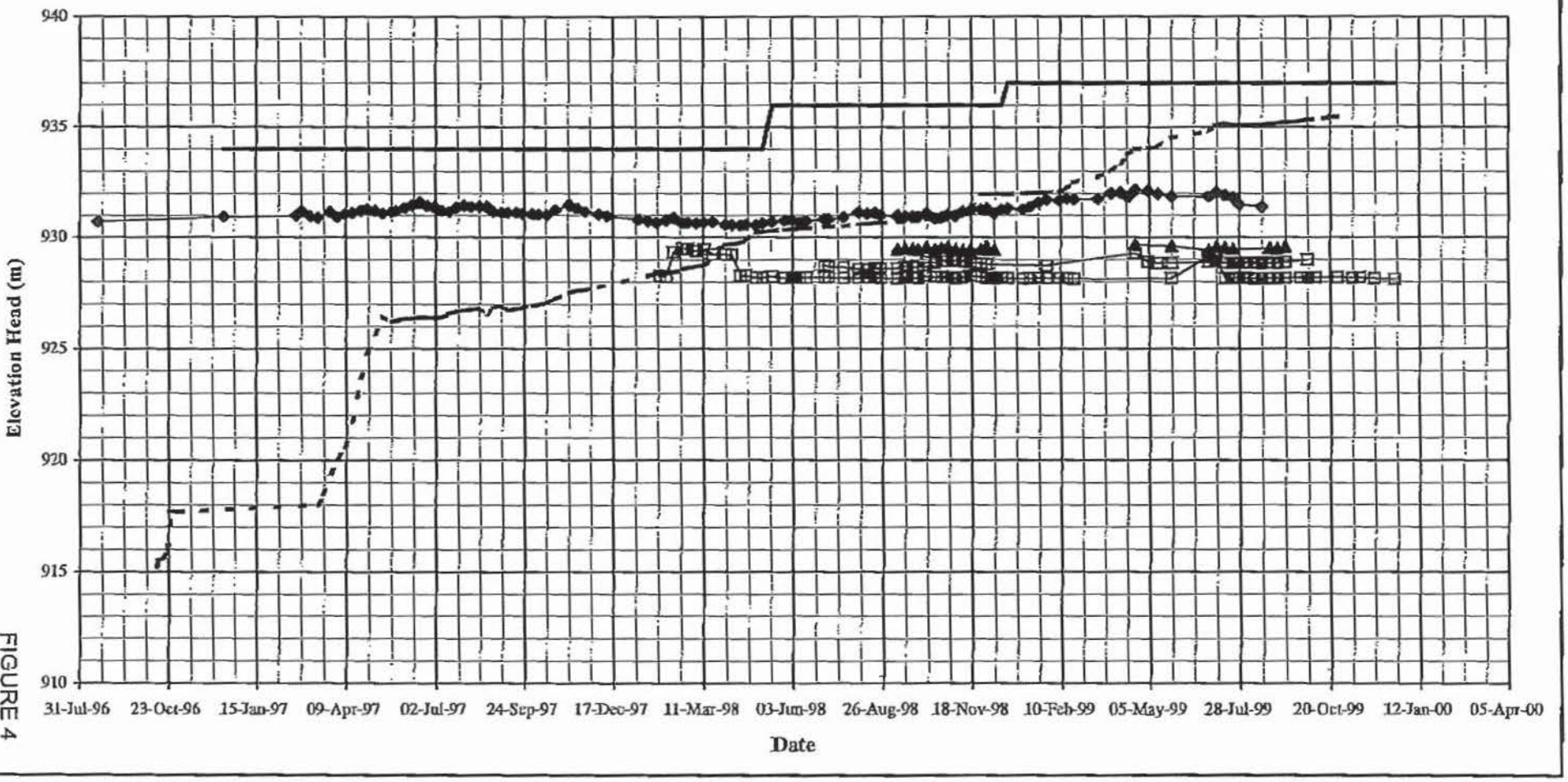


FIGURE 4

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INVESTIGATION KGB2 Page 48 of 500
2599 PAGE.014

DEC 21 '99 14:44

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

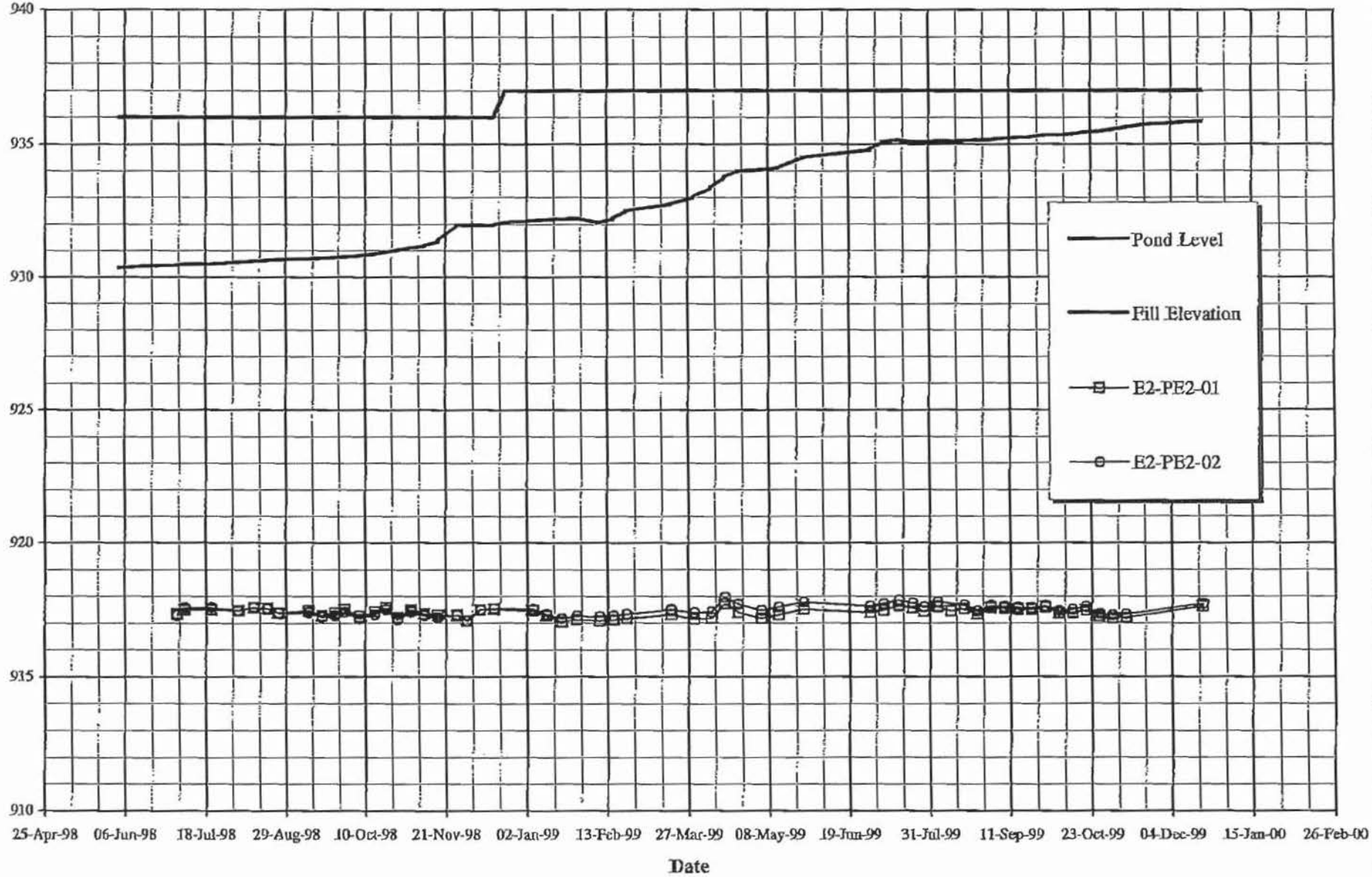


FIGURE 5

INVESTIGATION\KSB2.PRS 2300 49 of 500 E.015

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE A FOUNDATION PIEZOMETERS

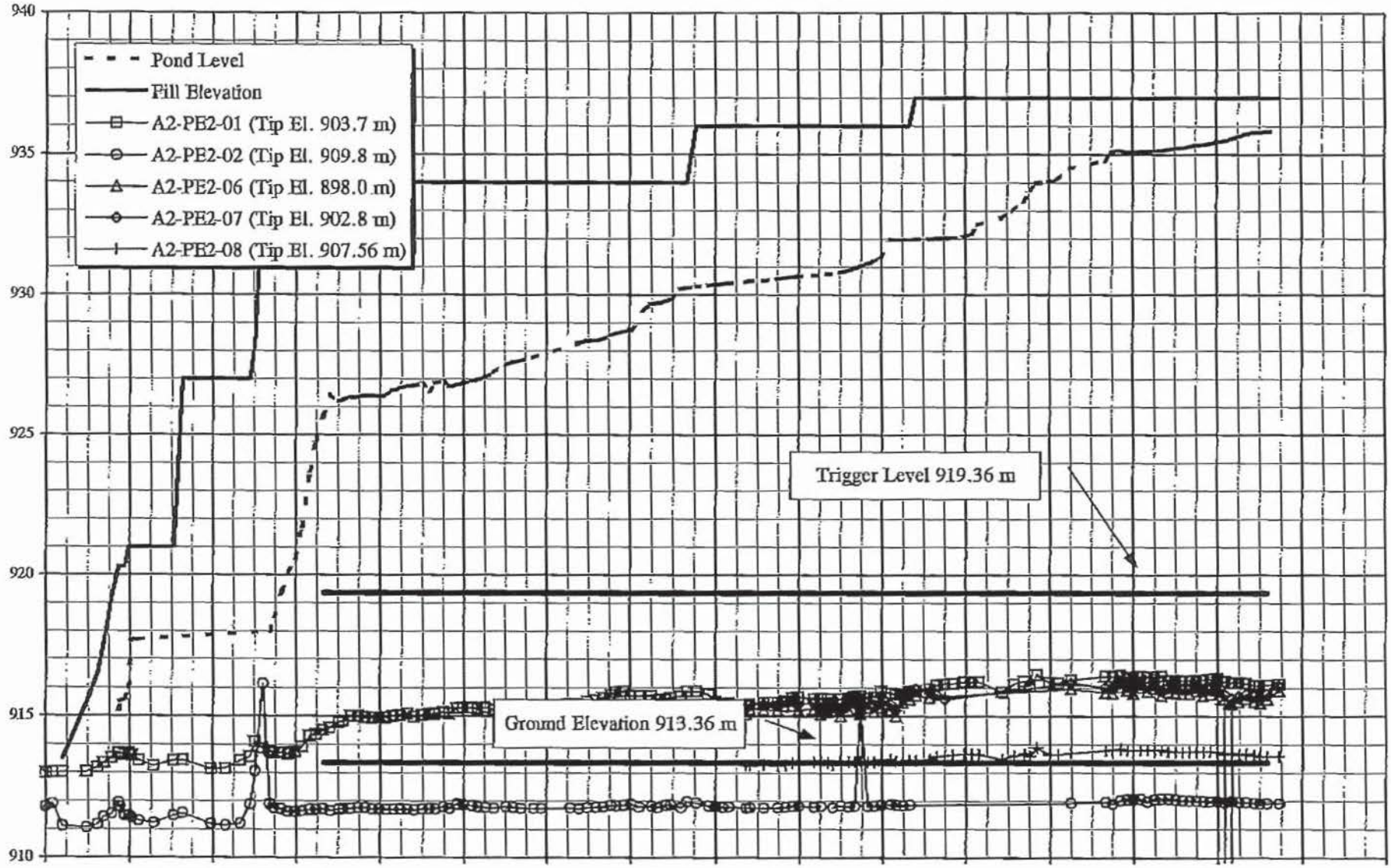


FIGURE 6

INVESTIGATION KGB-2 Page 50 of 50 PAGE.016

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE B FOUNDATION PIEZOMETERS

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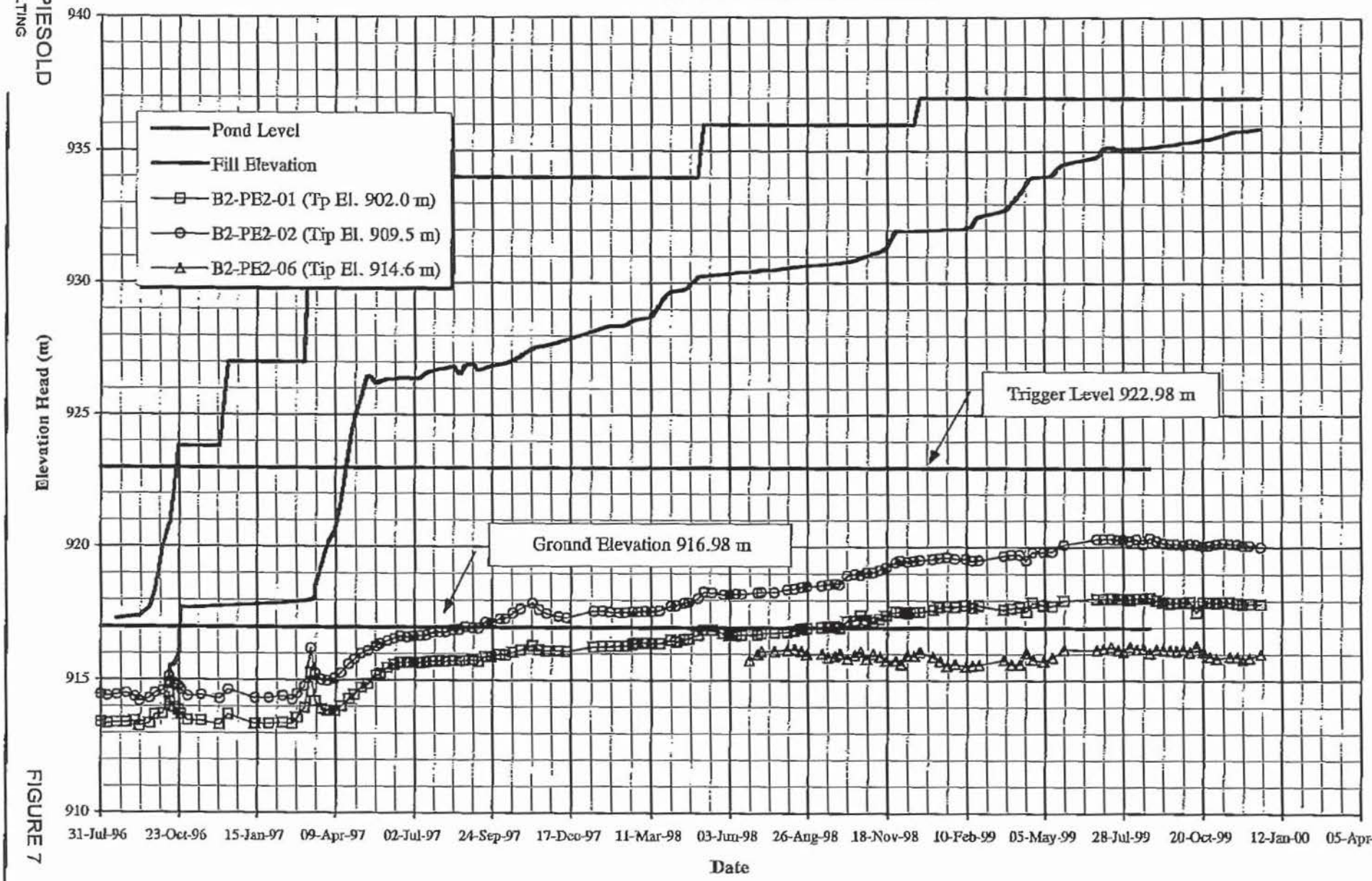


FIGURE 7

INVESTIGATION KCB-2 Page 51 of 500
250/99 2258 PAGE.017

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C FOUNDATION PIEZOMETERS

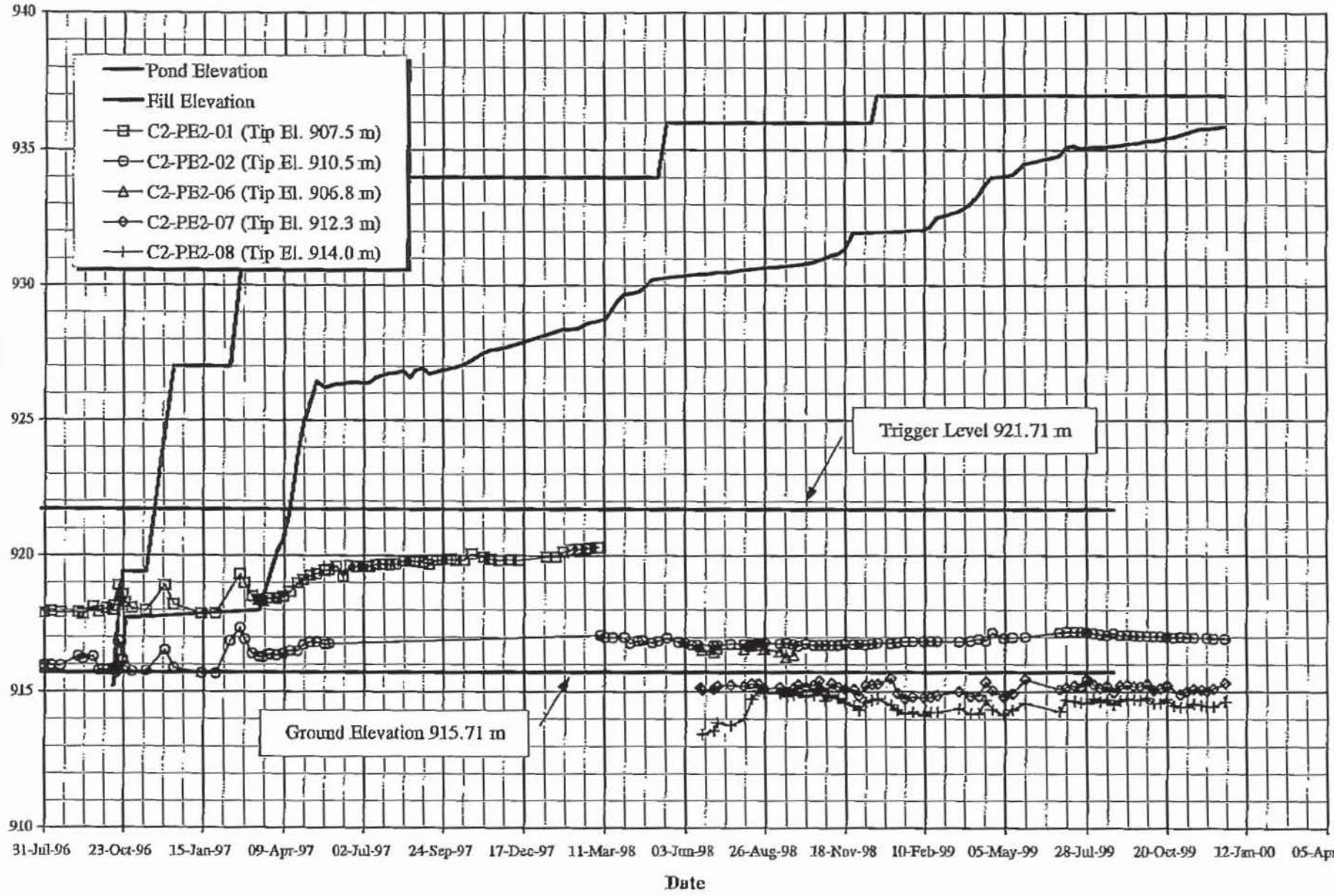


FIGURE 8

INVESTIGATION KGD 2 Page 52 of 500 PAGE.018

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE D FOUNDATION PIEZOMETERS

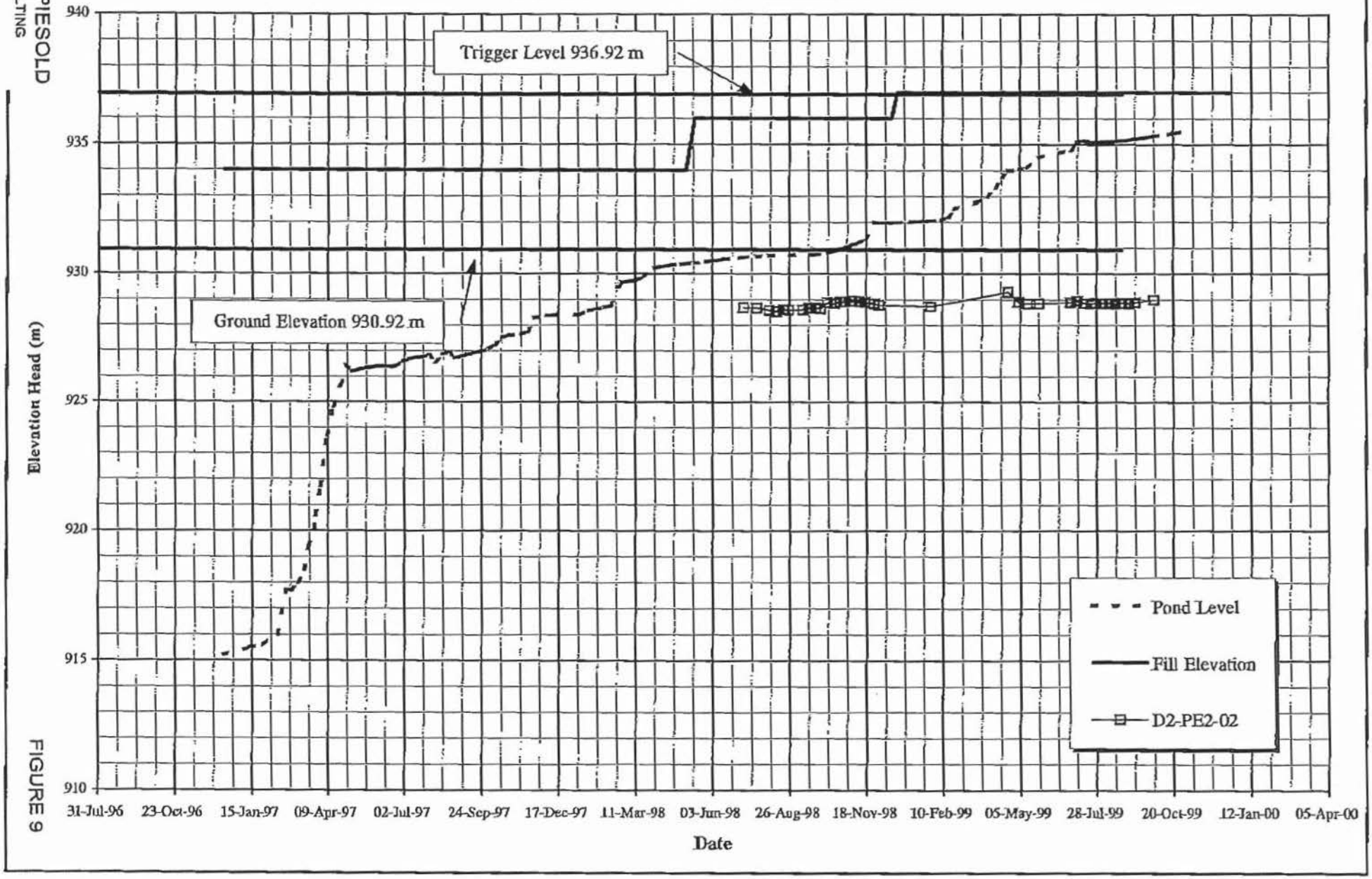
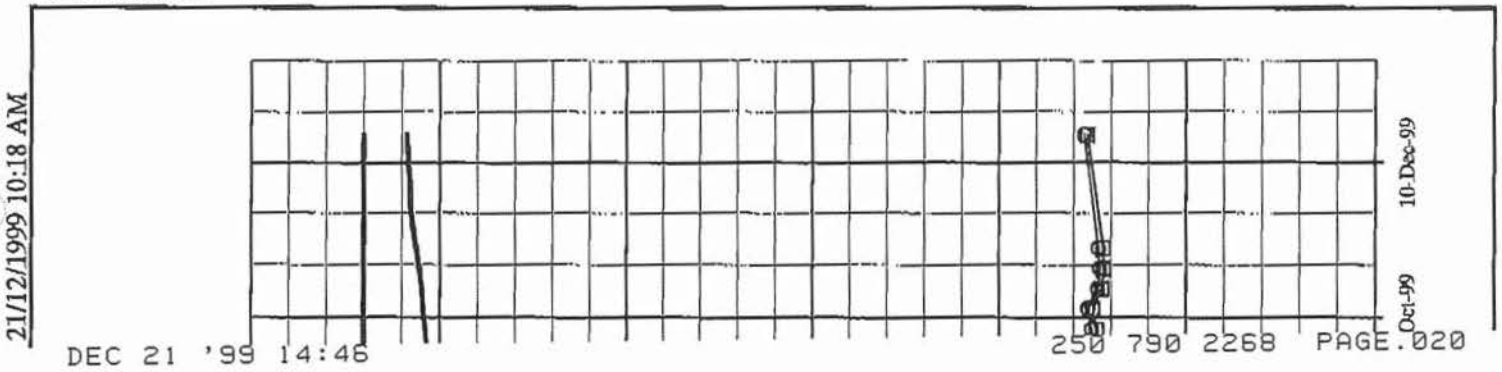


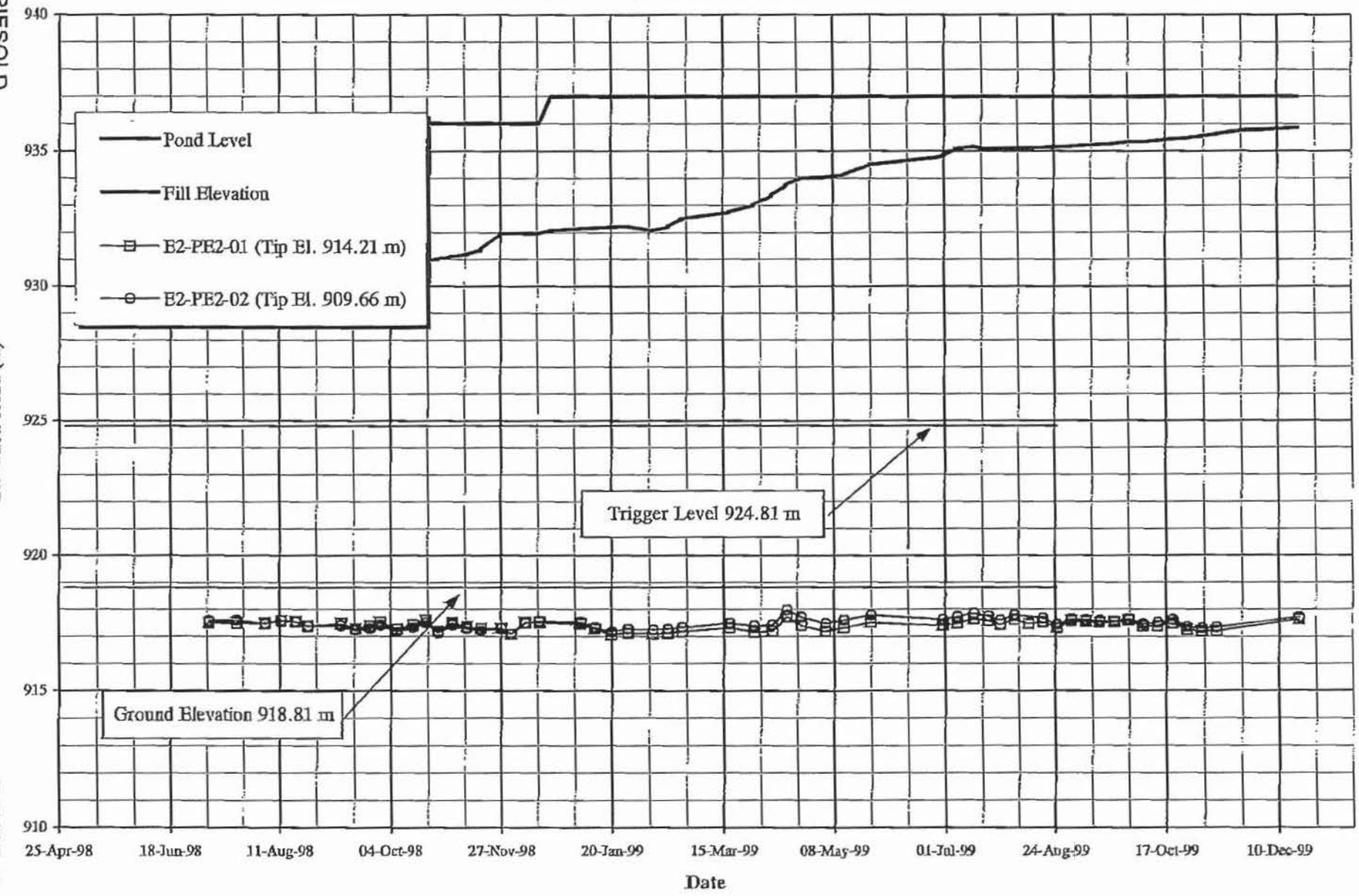
FIGURE 9

INVESTIGATION KSP2 Page 53 of 500 PAGE.019


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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE E FOUNDATION PIEZOMETERS



KNIGHT PIESOLD CONSULTING

FIGURE 10

INVESTIGATION 1582 Page 55 of 500 PAGE.001

DEC 21 '99 14:52

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE S CONTROL TEST SUMMARY SHEET

A:\[C2S-SUM.xls]Summary Table 21-Dec-99

Date Sampled	Sample No.	Location	Elev. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Lab w/c %	C3 (Particle Size Distribution) 152.4 6	76.2 3	50.8 2	38.1 1.1/2	25.4 1	19.05 3/4	12.7 1/2	9.525 3/8	4.75 #4	3.353 #6	2 #10	1.191 #16	0.85 #20	0.594 #30	0.425 #40	0.25 #60	0.15 #100	0.075 #200	C4 Standard Proctor Max Dry Density kg/m³	Optimum w/c %	C6 Specific Gravity
																									Clay			
03-Sep-99	C/ZS-1	Borrow Area 2, Exc. Face	-	17.5	25.5	8.0	-	100.0	100.0	-	100.0	100.0	98.7	-	93.0	86.1	83.8	-	78.2	-	74.1	71.4	-	61.1	52.8	2015	11.2	-
22-Sep-99	C/ZS-2	Borrow Area 2, Exc. Face	-	16.8	26.8	10.0	11.6	100.0	100.0	-	94.8	92.1	91.0	-	85.6	79.5	77.2	-	71.5	-	67.4	64.6	-	54.3	45.8	2042	10.6	-
29-Nov-99	C/ZS-3	Borrow Area 2, Exc. Face	-	14.8	24.3	9.5	12.1	100.0	100.0	100.0	98.5	94.2	91.2	85.7	80.1	75.2	-	70.7	-	66.8	-	63.3	58.3	50.7	42.1	2180	7.6	2.649
		MEAN		16.4	25.5	9.2	11.9	100.0	100.0		97.8	95.4	93.6		86.2	80.3	80.5		74.8		70.8	68.4		55.4	46.9	2079	9.8	2.65
		MEDIAN		16.8	25.5	9.5	11.9	100.0	100.0		98.5	94.2	91.2		85.6	79.5	80.5		74.8		70.8	68.6		54.3	45.8	2042	10.6	2.65
		MAXIMUM		17.5	26.8	10.0	12.1	100.0	100.0		100.0	100.0	98.7		93.0	86.1	83.8		78.2		74.1	71.4		61.1	52.8	2180	11.2	2.65
		MINIMUM		14.8	24.3	8.0	11.6	100.0	100.0		94.8	92.1	91.0		80.1	75.2	77.2		71.5		67.4	63.3		50.7	42.1	2015	7.6	2.65

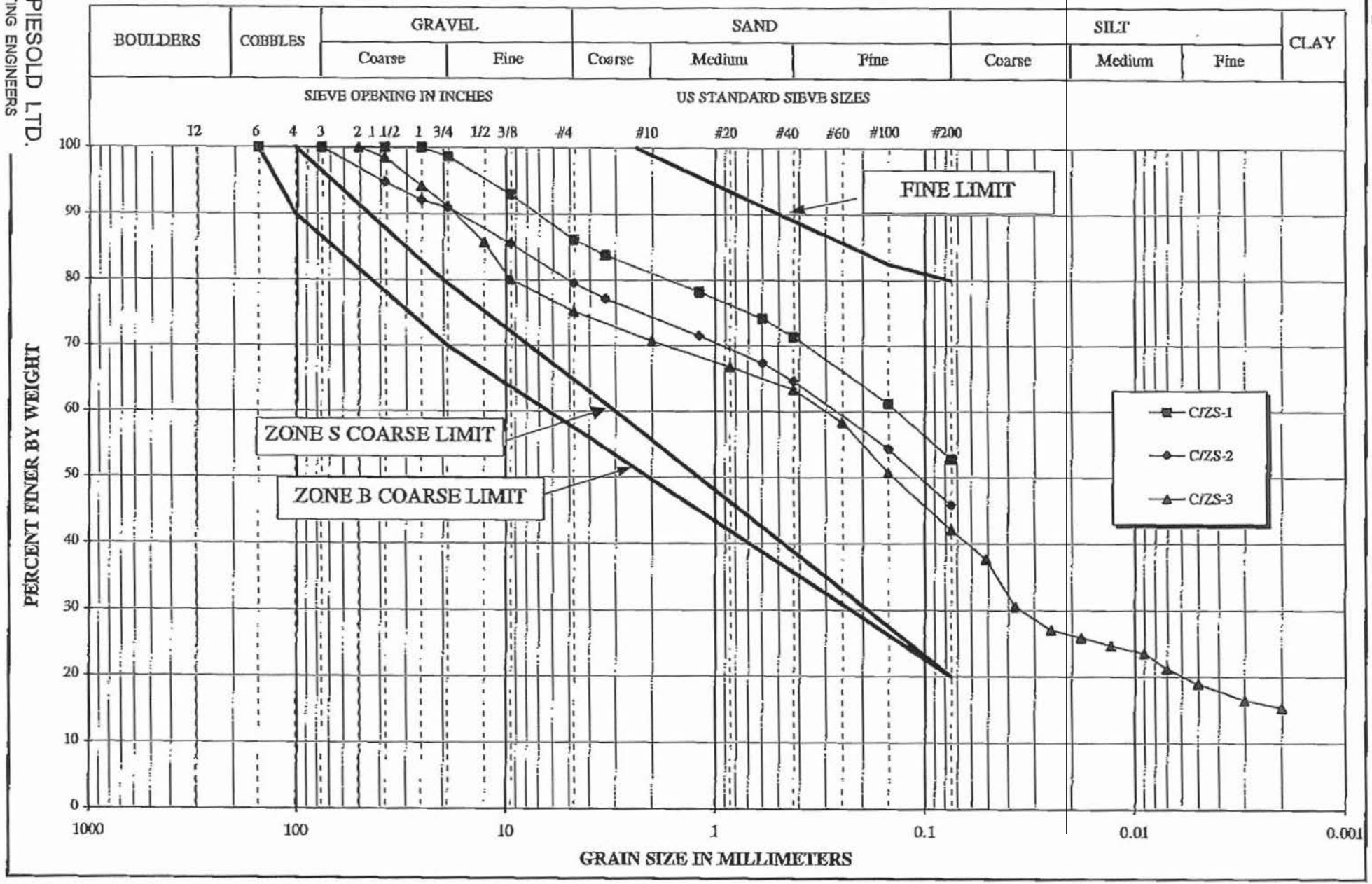
Notes:

1. Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

C1 Atterberg Limits (ASTM D4318)
C2 Moisture Content (ASTM D2216)
C3 Particle Size Distribution (ASTM D422)
C4 Laboratory Compaction (ASTM D698)
C6 Bulk Specific Gravity (ASTM C127)

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE S CONTROL SAMPLES - GRADATION CURVES



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INVESTIGATION\SB 2 Page 57 of 500E.003

DEC 21 '99 14:53

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION

ZONE S RECORD TEST SUMMARY SHEET

A:\[R-ZS-SUM.xls]Summary Table 21-Dec-99

Date Sampled	Sample No.	Location	Elev. (m)	R1 Atterberg Limits PL %	LL %	PI %	R2 Field m/c %	R3 (Particle Size Distribution) 152.4 mm 6	76.2 3	50.8 2	38.1 1.5	25.4 1.000	19.05 0.750	12.7 0.500	9.525 0.375	4.75 #4	2 #10	0.85 #20	0.425 #40	0.25 #60	0.15 #100	0.075 #200	R4 Standard Proctor Max.Dry Density kg/m³	Optimum m/c %	R6 Specific Gravity
								6	3	2	1 1/2	1	3/4	3/8	3/8	#4	#10	#20	#40	#60	#100	Clay			
05-Oct-99	R-ZS-1	Zone S fill - lift #2, CH 39+13	-	17.9	29.1	11.2	11.1	100.0	100.0	97.9	95.4	92.1	88.5	80.1	73.0	67.8	63.6	58.9	56.1	51.5	56.7	44.3	2165	8.8	-
01-Nov-99	R-ZS-2	Zone S fill - lift #4, CH 31+38	-	16.4	27.7	11.3	11.5	100.0	100.0	98.0	97.0	95.7	93.7	90.0	85.4	80.3	75.1	70.7	66.6	60.9	53.1	45.0	2170	8.4	2.701
27-Nov-99	R-ZS-3	Zone S fill - lift #4, CH 29+79	-	15.7	27.4	11.7	13.1	100.0	100.0	95.3	94.1	92.5	90.7	87.1	83.8	80.0	75.0	70.9	67.3	62.4	54.5	47.5	2075	9.0	-
		MEAN		16.7	28.1	11.4	11.9	100.0	100.0	97.1	95.5	93.4	91.0	85.7	80.7	76.0	71.2	66.8	63.3	58.3	54.8	45.6	2117	8.7	2.70
		MEDIAN		16.4	27.7	11.3	11.5	100.0	100.0	97.9	95.4	92.5	90.7	87.1	83.8	80.0	75.0	70.7	66.6	60.9	54.5	45.0	2110	8.8	2.70
		MAXIMUM		17.9	29.1	11.7	13.1	100.0	100.0	98.0	97.0	95.7	93.7	90.0	85.4	80.3	75.1	70.9	67.3	62.4	56.7	47.5	2165	9.0	2.70
		MINIMUM		15.7	27.4	11.2	11.1	100.0	100.0	95.3	94.1	92.1	88.5	80.1	73.0	67.8	63.6	58.9	56.1	51.5	53.1	44.3	2075	8.4	2.70

Notes:

1. Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

R1 Atterberg Limits (ASTM D4318)

R2 Moisture Content (ASTM D2216)

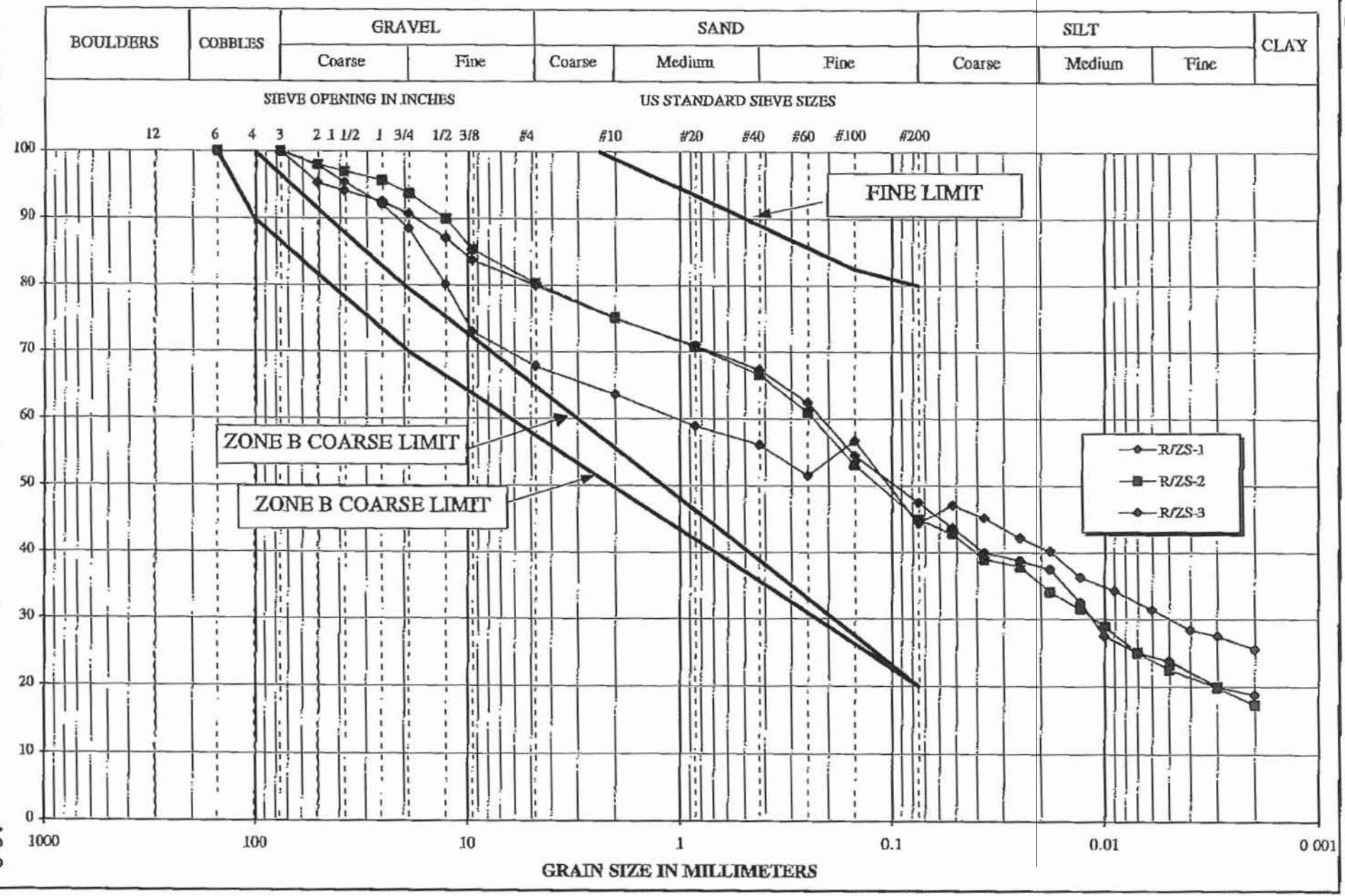
R3 Particle Size Distribution (ASTM D422)

R4 Laboratory Compaction (ASTM D1557)

R6 Bulk Specific Gravity (ASTM C127)

INVESTIGATION KGB 2 Page 58 of 500 250 /99 22:08 PAGE.004

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE S RECORD SAMPLES - GRADATION CURVES



KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

A3-2

DEC 21 '99 14:54
INVESTIGATION KGB2 Page 59 of 500 PAGE.005

Knight Piésold CONSULTING	**DATE:** Dec. 14, 1999	**FILE NO.:**	11162/10.F01/F02/F05/F07
	TIME:	**REF NO.:**	99-041
Knight Piésold, Mt. Polley Site *Fax: (250) 790-2268* *Phone: (250) 790-2215*	**OPERATOR:**	**PAGES:**	1 of 24
	SENDER: s.22	**APPROVED:**	

TO:	KP Vancouver	**FAX :**	604-685-0147
ATTN:	s.22		
CC:	George Headley, Ministry of Energy and Mines		
SUBJECT:	Mount Polley Stage 2C Construction Progress Report #7		

Dear John,

Please find attached Progress Report No. 7 for Stage 2C Construction at the Mount Polley Mine. This document is for the reporting period November 16 to 30, 1999.

Best Regards,

s.22

Knight Piésold

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION
PROGRESS REPORT NO. 7
NOVEMBER 16 TO 30, 1999

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 2C construction activities over the reporting period. Knight Piésold Ltd. (KP) carried out QA/QC activities over this period.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 (IBM), Project Engineer (on-site as of 25-Nov-99)

The following MPMC management personnel were on site during the reporting period:

- Eric LeNeve, Tailings Coordinator
- Don Parsons, Mine Superintendent

1.2 WEATHER

Conditions over the reporting period were generally mixed. During the first half of the period, conditions were mostly warm, with overcast skies and some showers. Near the end of the reporting period, temperatures were typically below freezing, with occasional snow.

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1.3 DESIGN AND CONTRACT DEVELOPMENTS

Over the reporting period, KP issued a design change to MPMC for Stage 2C construction to crest El. 941m, from the original design El. 940m. This will allow freeboard to be maintained until early 2001. MPMC is currently in the process of obtaining a permit revision for this increased crest elevation for Stage 2C construction. Copies of the three Figures associated with this design change have been included in this report.

Some design modifications were made in order to construct the Stage 2C embankments to El. 941m, while maintaining a reasonable crest width and constant crest offset from SOL around the facility:

- Along the Main embankment (approx. CH 15+60 to 26+80), the d/s face slope was slightly flattened to 1.75H:1V. At crest El. 941m, the original design total crest width of 8 meters will be maintained.

- Along the Main embankment left abutment and Perimeter embankment right abutment (approx. CH 26+80 to 32+00), various design modifications were made. These include 1.5H:1V u/s and d/s face slopes, and a 3.5 meter upstream shift of the u/s embankment toe. This additional upstream construction is required to maintain a constant 2 meter offset from the SOL to the u/s Zone S core contact along the entire tailings embankment. At crest El. 941m, a total width of 8 meters will be maintained.

- Along the Perimeter embankment (approx. CH 32+00 to 44+35), placement of an upstream Coarse Bearing Layer (CBL) over the tailings beach was initiated during the previous reporting period, and was completed on 17-Nov-99. This CBL zone was constructed due to insufficient upstream cycloned sand being available for Stage 2C construction along the Perimeter embankment. Above the CBL, Zone B till material will be placed with an u/s face slope of 1.5H:1V. The d/s Zone S face slope has been slightly flattened to 1.5H:1V, and the total crest width at El. 941m has been reduced to 6.5 meters.

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1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Cycloning operations for 1999 were terminated on October 19. Since that time, bulk tailings have been point-discharged from the upper dump valve at the northwest corner of the tailings facility. Following Stage 2C construction, a tailings pipeline system will be re-instated along the embankments. Bulk tailings will be strategically discharged from the upstream embankment crests, to promote the development of adequate beaches adjacent to the embankments, and to control the positioning of the supernatant pond.

SECTION 2.0 - CONSTRUCTION ACTIVITIES

The following activities were carried out by MPMC and Peterson Contracting over the reporting period:

Stage 2C Embankment Construction

- Preparation work was carried out within Borrow Area #2. This included overburden stripping, wasting of all saturated till materials, snow removal, and removal of frozen till materials.

- Zone B & S surface preparation was carried out as required prior to placement of each lift. This included snow removal, wasting of any saturated upper layers of previously placed materials, and removal of rockfill and cycloned sand contaminants from Stage 2B embankment crest.

- As part of the crest El. 941m design change, additional upstream Zone B fill placement is required from CH 26+80 to CH32+00. During the reporting period, foundation preparation and wasting of loose u/s face material was carried out along the upstream Perimeter embankment area from CH 28+00 to CH32+00.

- During foundation preparation activities, the buried solid CPT u/s toe drain was intercepted and damaged between CH 28+90 and CH 29+25. This section of pipe was excavated out and replaced, and the trench was backfilled with till material and nominally compacted.

- Dayshift and nightshift Coarse Bearing Layer rockfill placement along the upstream side of the Perimeter embankment crest was completed on November 17.

- Construction of a Stage 3 rockfill toe confining berm began along the downstream left side of the Main embankment. This work was carried out on November 22 and 23.

- Dayshift and nightshift Zone B & S fill placement was carried out from November 23 to 29. Construction activities were carried out along the Perimeter embankment from CH 27+80 to CH 35+75 (work on lifts #1 to 6).

- Dozer work was carried out along the Main embankment, pushing upstream cycloned sand to the u/s Zone S core contact.

- At the left end of the Perimeter embankment, an excavator pulled back Coarse Bearing Layer material which had been placed upstream of the design toe, for use within the Zone B Stage 2C area.

Fill Placement Summary

Embankment Zone	Volume Placed over Period (m^3)	Total Volume to Date (m^3)	Total Volume Required (m^3)	Percent Complete (%)
S (till core)	16,068	20,003	82,120	24
B (till)	8,034	24,979	52,610	47
CBL (rockfill)	6,180	31,180	31,180	100
F (filter sand)	2,300	2,300	2,300	100
Stg 3 toe berm (rockfill)	3,507	3,507	-	-

Note: Fill volumes required for Stage 2C construction have been updated to include for the El. 941m design change.

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Miscellaneous

- Grader work was carried out along TSF access roads.
- During the reporting period, the water return pipeline from the Perimeter embankment seepage collection pond was removed from the embankment crest.
- Over the reporting period, cycloned sand upstream of the Perimeter embankment was excavated and used for d/s access ramp construction.
- Neil Giesbrecht and Brian Stanga (contract surveyors) carried out construction survey control.

SECTION 3.0 - KNIGHT PIÉSOLD ACTIVITIES

3.1 GENERAL

KP activities over the reporting period included the following:

Stage 2C Embankment Construction

- Over the reporting period, Peterson Contracting carried out Zone B and S till placement during both dayshift and nightshift operations. KP authorized for Steve Syme and Neil Giesbrecht to provide nightshift construction inspection services on behalf of KP.
- Nuclear densometer record testing was carried out on all placed and compacted Zone B and S materials, to measure achieved field dry density and moisture content values. The minimum acceptable field density requirement for compacted Zone B material is 92% of Standard Maximum Dry Density (SMDD), and 95% SMDD for Zone S core material. Densometer testing confirmed that the required compaction specifications were achieved.

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- During construction, KP provided ongoing inspection of the following: stripping of unsuitable materials within Borrow Area#2, excavated till materials for embankment construction, embankment surfaces prior to fill placement, lift thickness.

- IM inspected u/s Perimeter embankment foundation preparation work from CH 28+00 to CH 32+00.

Stage 2C Crest E. 941m Design Change

- KP faxed E. LeNeve (MPMC) re: Stage 2C crest elevation requirements for various freeboard durations, and a proposed Perimeter embankment configuration for Stage 2C crest El. 941m.

- KP faxed E. LeNeve approximate Stage 2C till volumes (Zones B & S) for various crest elevations.

- KP faxed E. LeNeve embankment configurations for El. 941m design change, with both u/s and d/s embankment configurations from CH 26+80 to CH 32+00. MPMC decided to adopt the u/s embankment configuration, in order to maintain a constant 2 meter offset from the SOL to the u/s Zone S core contact throughout the embankments.

- KP issued a design change to MPMC for Stage 2C embankment construction to El. 941m.

Miscellaneous

- No KP representatives were on-site during the period 10-Nov-99 to 24-Nov-99, due to a lack of construction activities requiring QA/QC services.

- Progress Report No. 6 was issued for the reporting period November 1 to 15, 1999.

- KP faxed E. LeNeve preliminary Stage 3 TSF drawings, including Main embankment d/s toe confining berm and spine drain configurations.

- Daily summaries of QA/QC and construction activities were submitted to MPMC.

3.2 MONITORING

3.2.1 General

On-going monitoring of instrumentation was continued over the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

3.2.2 Vibrating Wire Piezometers

The Perimeter Embankment instrumentation Planes D and F piezometers within the downstream cycloned sand trial berm were previously monitored by KP and MPMC personnel. Piezometric pressures have indicated that drained conditions have been achieved. Cycloned sand deposition was completed within the downstream trial area on 19-Oct-99.

MPMC representatives read all other active TSF piezometers on November 17, 25, and December 1. The following observations are based on the summary data shown on Figures 1 to 10.

- Foundation Piezometers
  All foundation piezometers have generally remained static.

- Fill Piezometers
  Pore pressures in the vicinity of B2-PE2-03 (Zone S), C2-PE2-05 (Zone S) and A2-PE2-03 (Zone B) increased then dropped slightly, likely as a result of Zone CS placement. The remainder of the fill piezometers have remained relatively static.

- Drain Piezometers
  All piezometers located within the drains have remained static. This indicates that the drains are free draining and are functioning as designed.

- Tailings Piezometers

Plane C tailings piezometers were reacting to the rise in pond level until they stopped functioning at the end of May, 1999. Plane B tailings piezometers continue to mimic the pond level. The tailings piezometers at Plane A reacted to the placement of Zone CS material, and have since dropped slightly.

3.2.3 Drain Flows

Due to the high water level in the Seepage Collection Pond at the Main Embankment, the outlets of the foundation drains have been flooded, and the flows have not been recorded since December 22, 1998. MPMC plans to lower the level of the pond in Spring 2000, to continue monitoring of all foundation drain flows.

MPMC constructed small weirs at the Main Embankment Outlet Drains to monitor Chimney Drain flows. No data has been collected due to the low observed flow levels.

The flows from outlet drains OD-4, 5, and 6 were measured on October 5, since then the water level in the Perimeter Embankment Seepage Collection Pond has been too high to measure flows from the outlet drains. Monitoring of the outlet drain flows will recommence after the pond level has been lowered.

3.2.4 Standpipe Piezometer Levels

The water level in standpipe piezometer GW96-9 (downstream of the right abutment of the Main Embankment) was not been monitored this season due to a break in the pipe. The pipe was repaired in the Fall of this year, and is now frozen. Weekly readings of GW96-9 will recommence in the Spring.

3.2.5 Survey Monuments

New survey points will be installed following the completion of Stage 2C construction in order to measure any settlements prior to the beginning of Stage 3 Construction.

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3.3 QA/QC and Laboratory Testing

Thirteen (13) concrete test cylinders were previously cast during backfilling of the Main and Perimeter embankment outlet pipe trenches. These cylinders were delivered to the MTS laboratory for compressive strength testing after periods ranging from 3 to 28 days. Test results for eleven (11) samples were received over previous reporting periods. Test results for the two (2) remaining samples were received over this reporting period, with results indicating that the design objectives are being exceeded.

Over the reporting period, Zone S record sample R/ZS-3 was collected from the lift #4 (above grade) Perimeter embankment at CH 29+80. Control Zone S sample C/ZS-3 was collected from Borrow Area #2 during the reporting period. These samples were both sent to MTS for laboratory testing.

Submitted by,

s.22

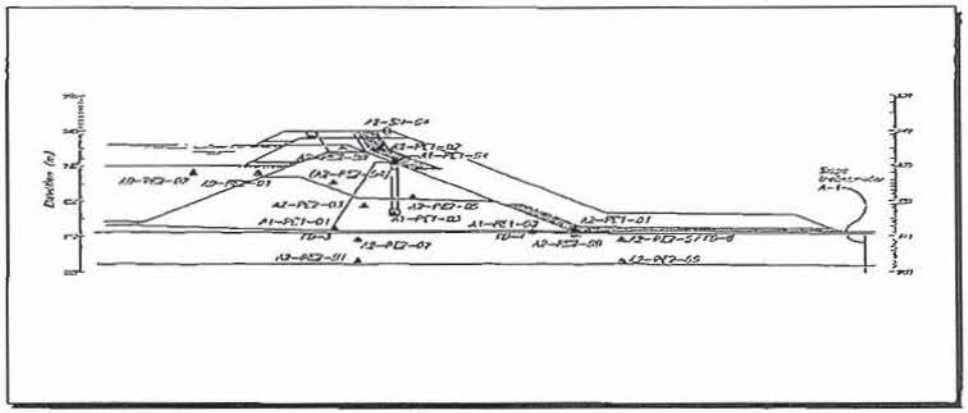
Knight Piésold

Distribution: Eric LeNeve, Tailings Coordinator, MPMC, Site
Don Parsons, Mine Superintendent, MPMC, Site
George Headley, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, Project Director/John Wilkinson, Project Manager, KP Vancouver

DEC 14 '99 16:12

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS



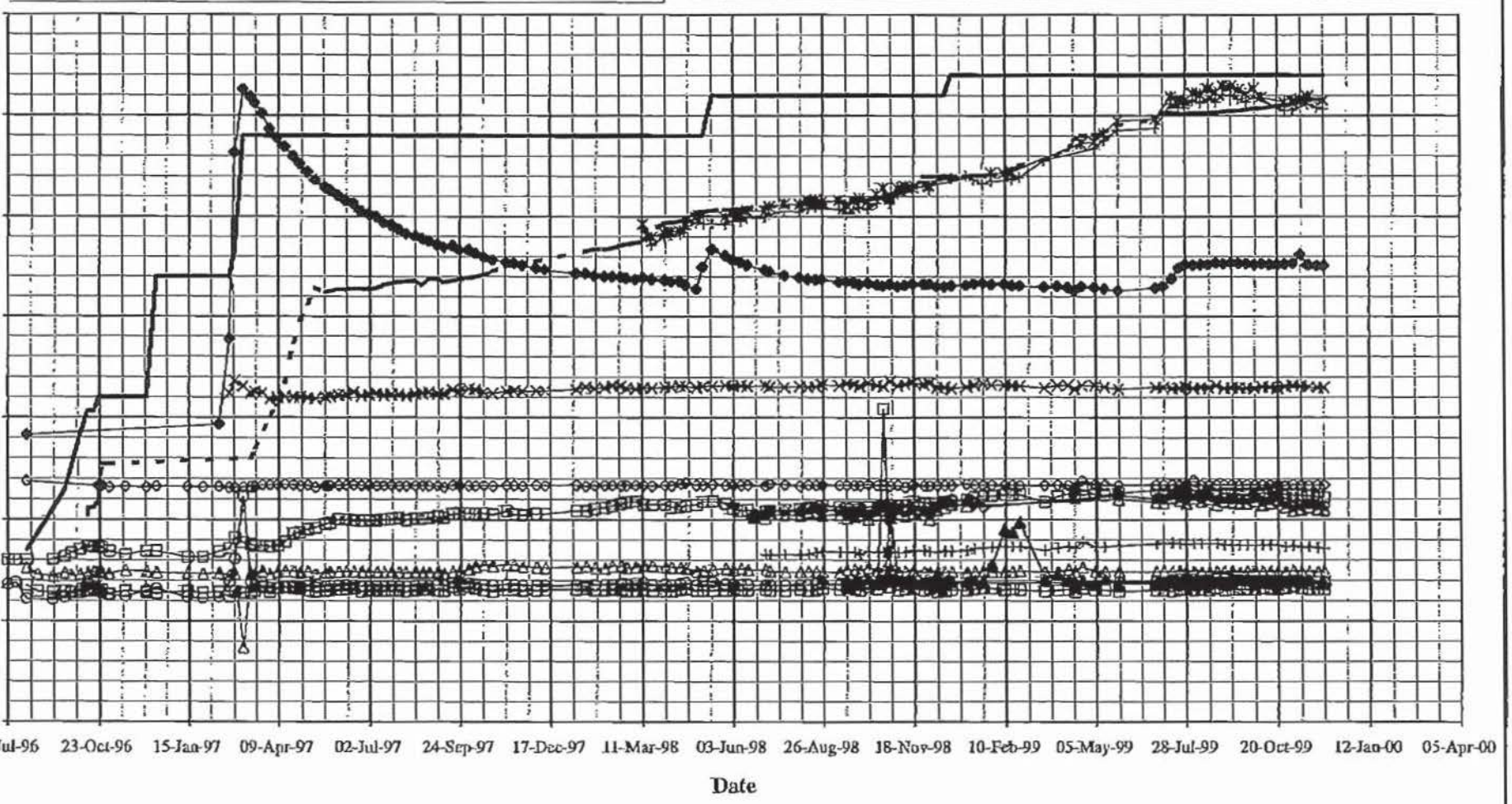


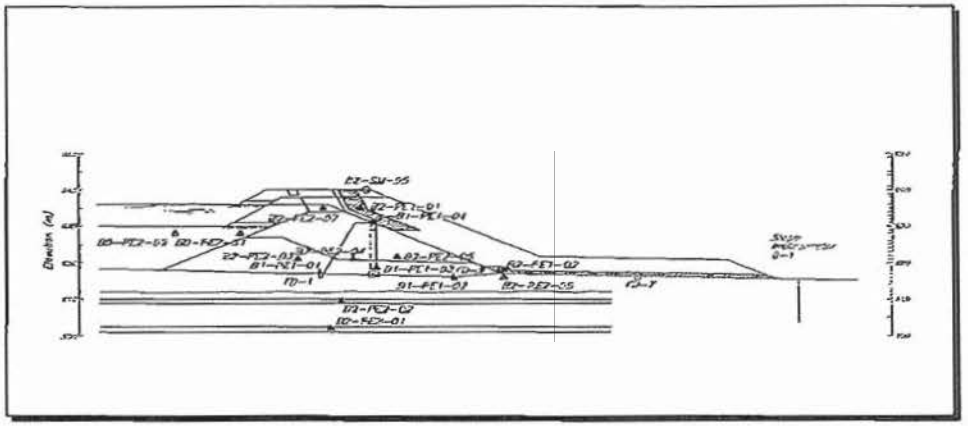
FIGURE 1

INVESTIGATION-KGB-2-2000 70 of 500 PAGE.011

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS



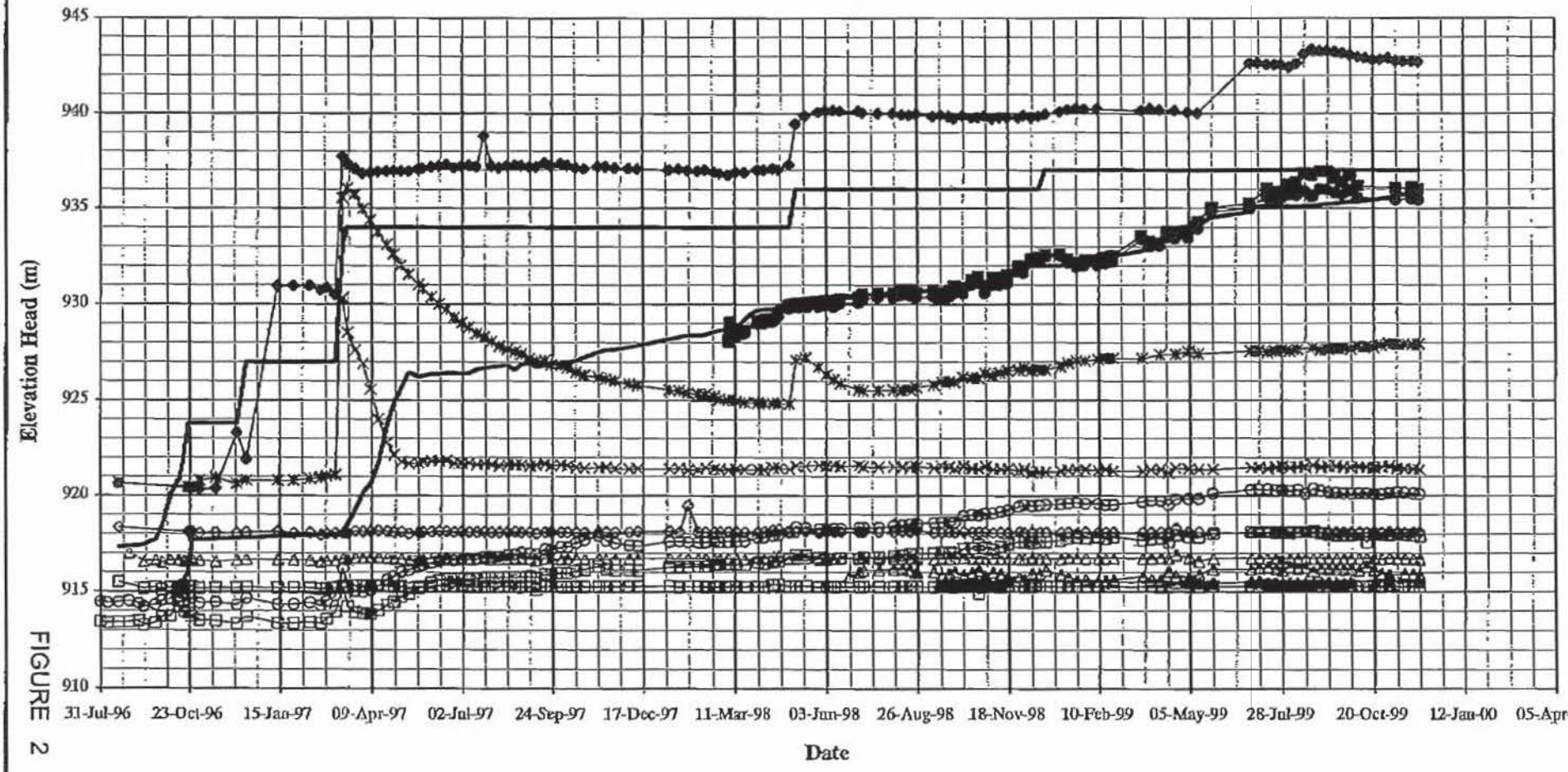


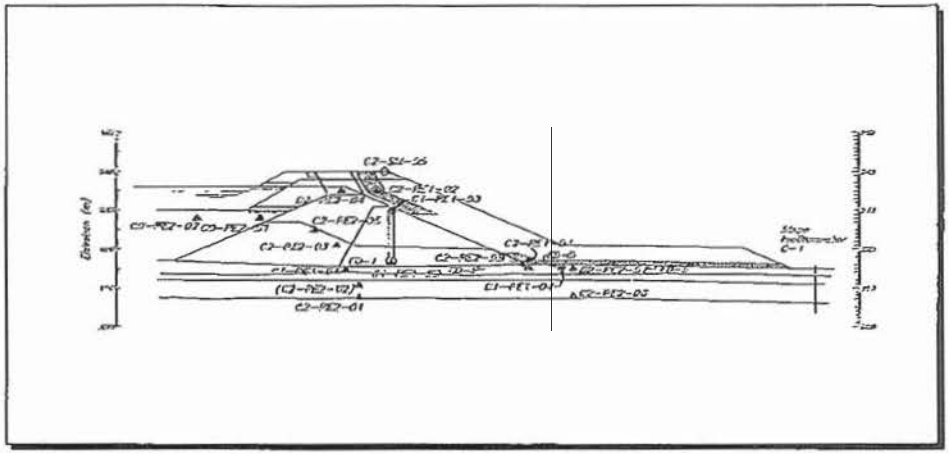
FIGURE 2

INVESTIGATION\SB-2.doc Page 71 of 500 E.012

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS



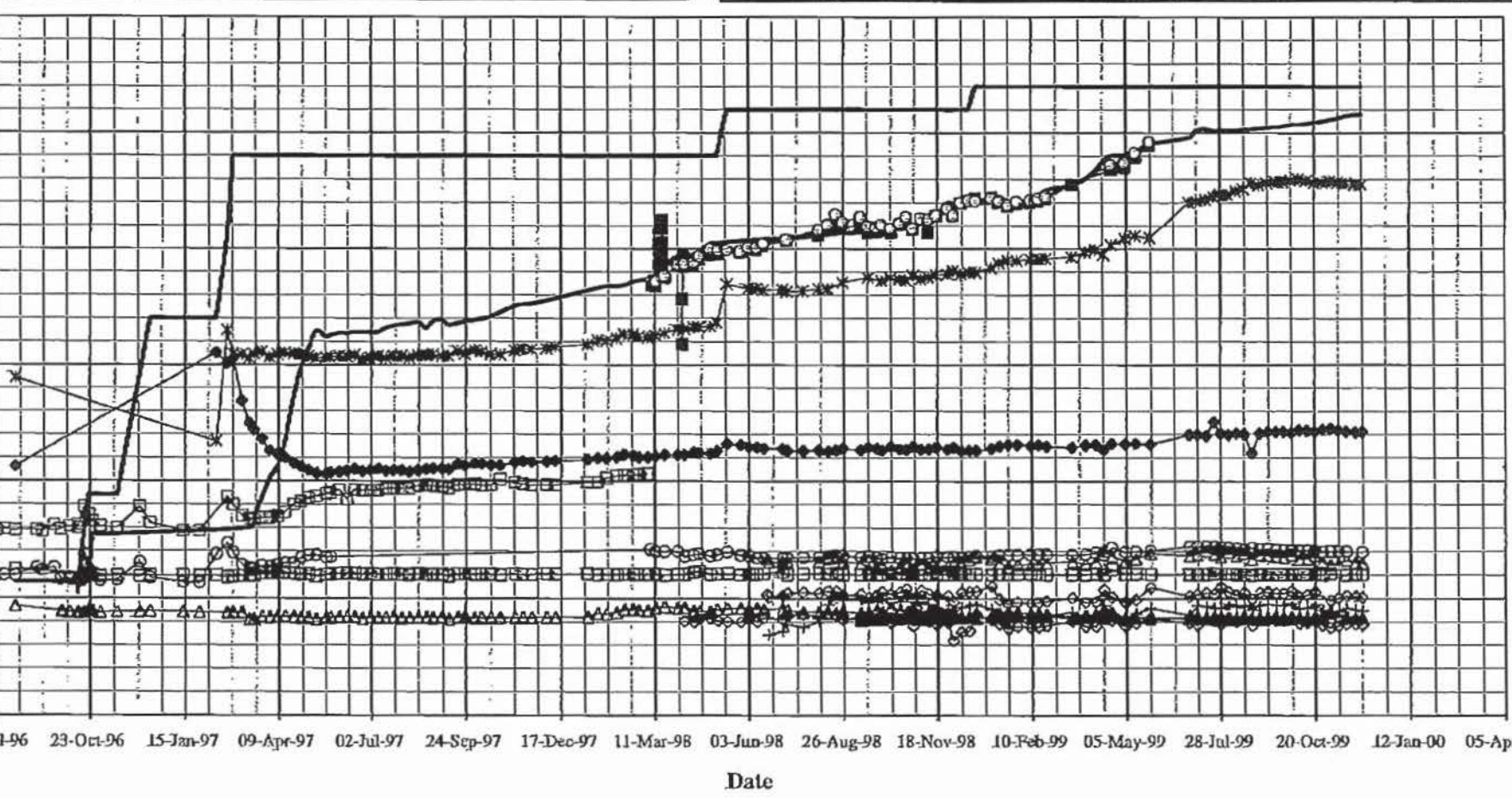


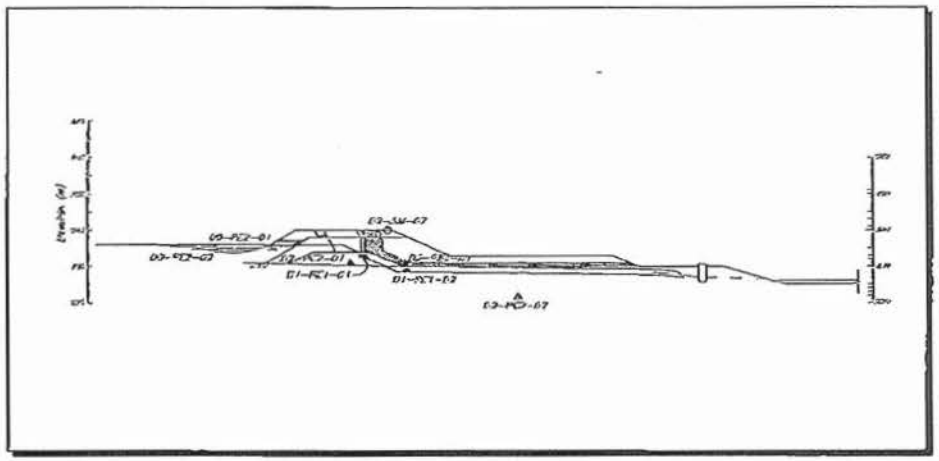
FIGURE 3

INVESTIGATION SCB-2 Page 72 of 500 E.013

DEC 14 '99 16:13

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS



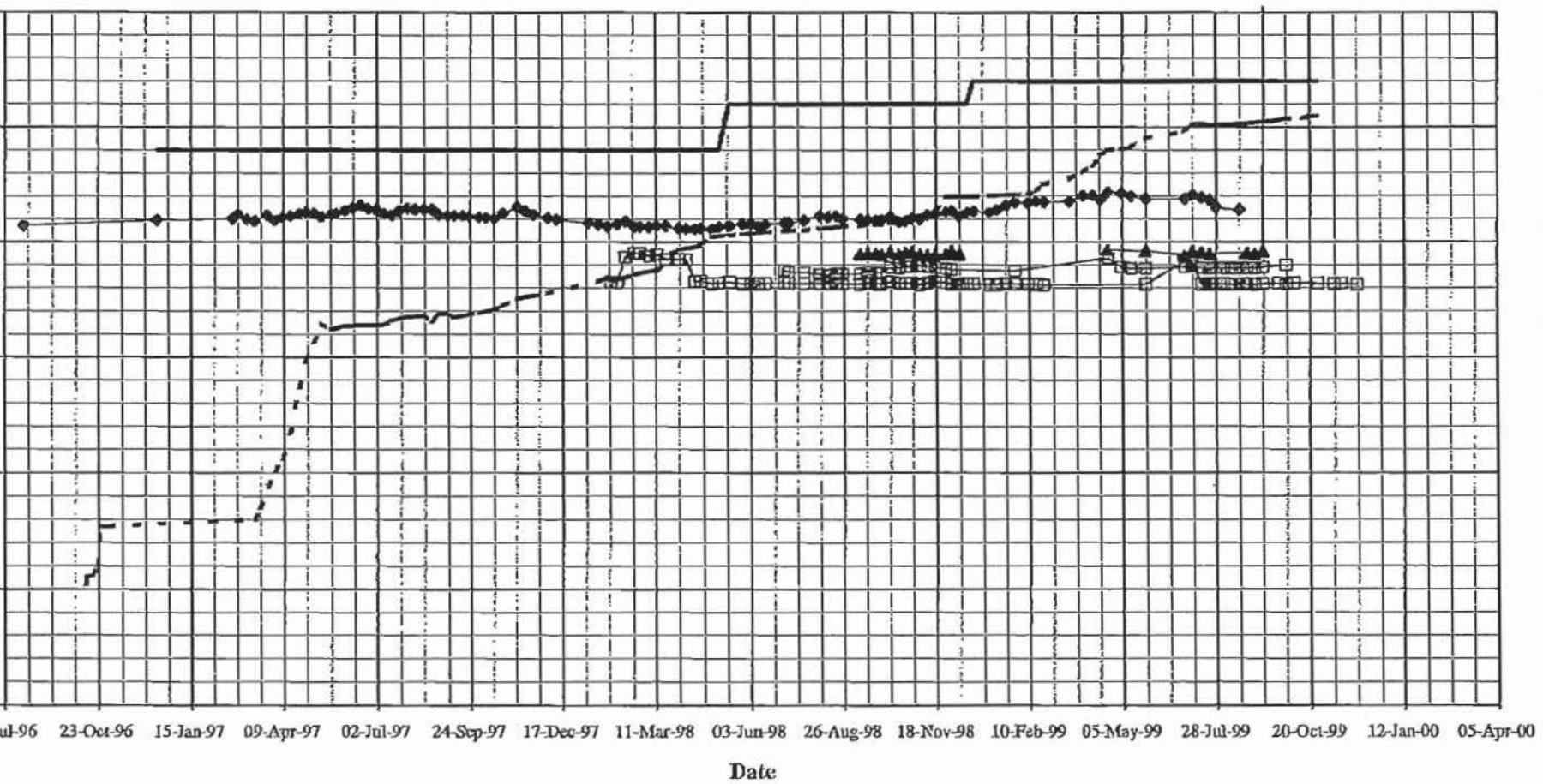


FIGURE 4

INVESTIGATION KGB-2 Page 73 of 500 .014

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

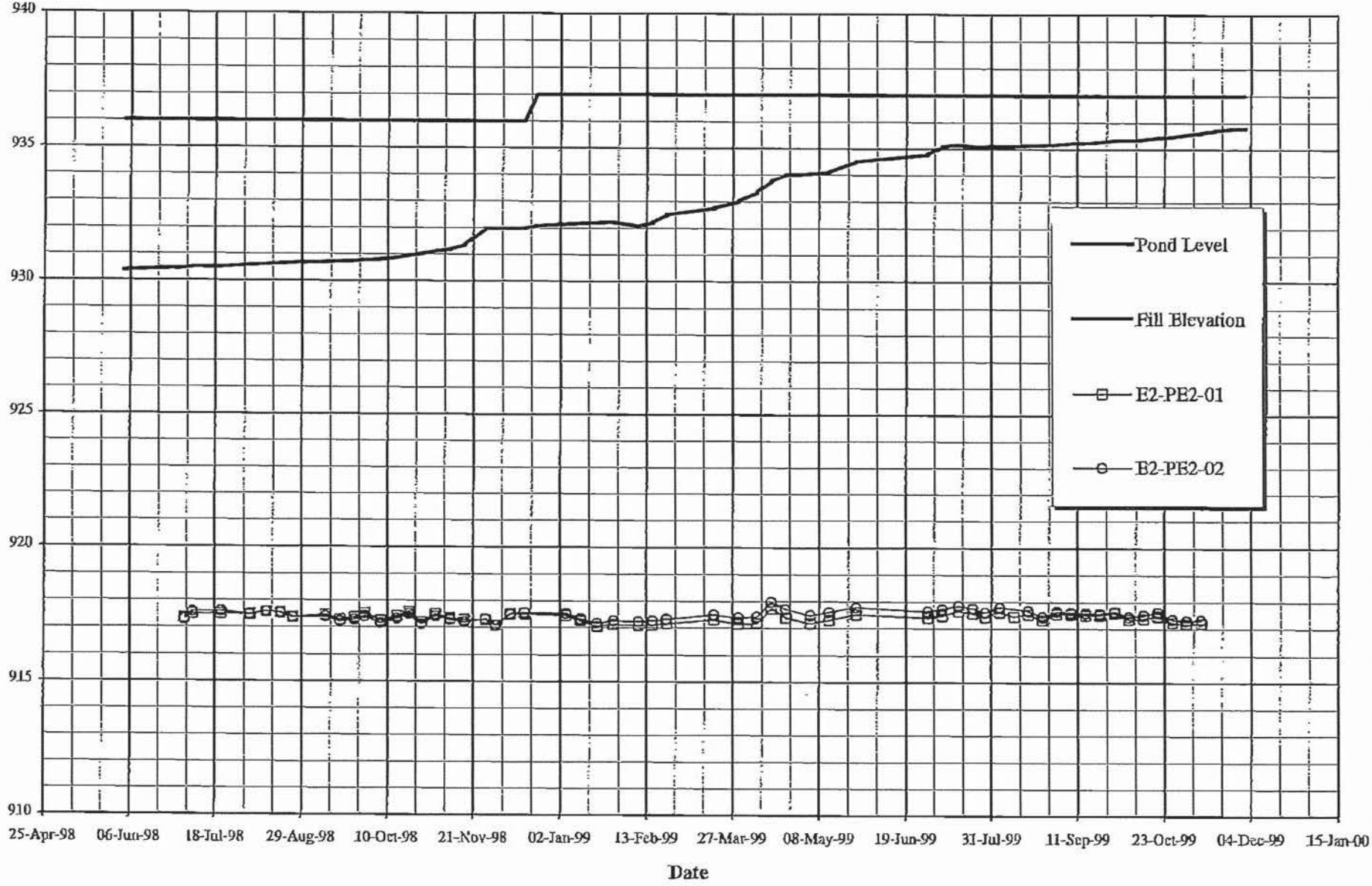


FIGURE 5

INVESTIGATION, KGB-2 Page 74 of 500 PAGE.015

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE A FOUNDATION PIEZOMETERS

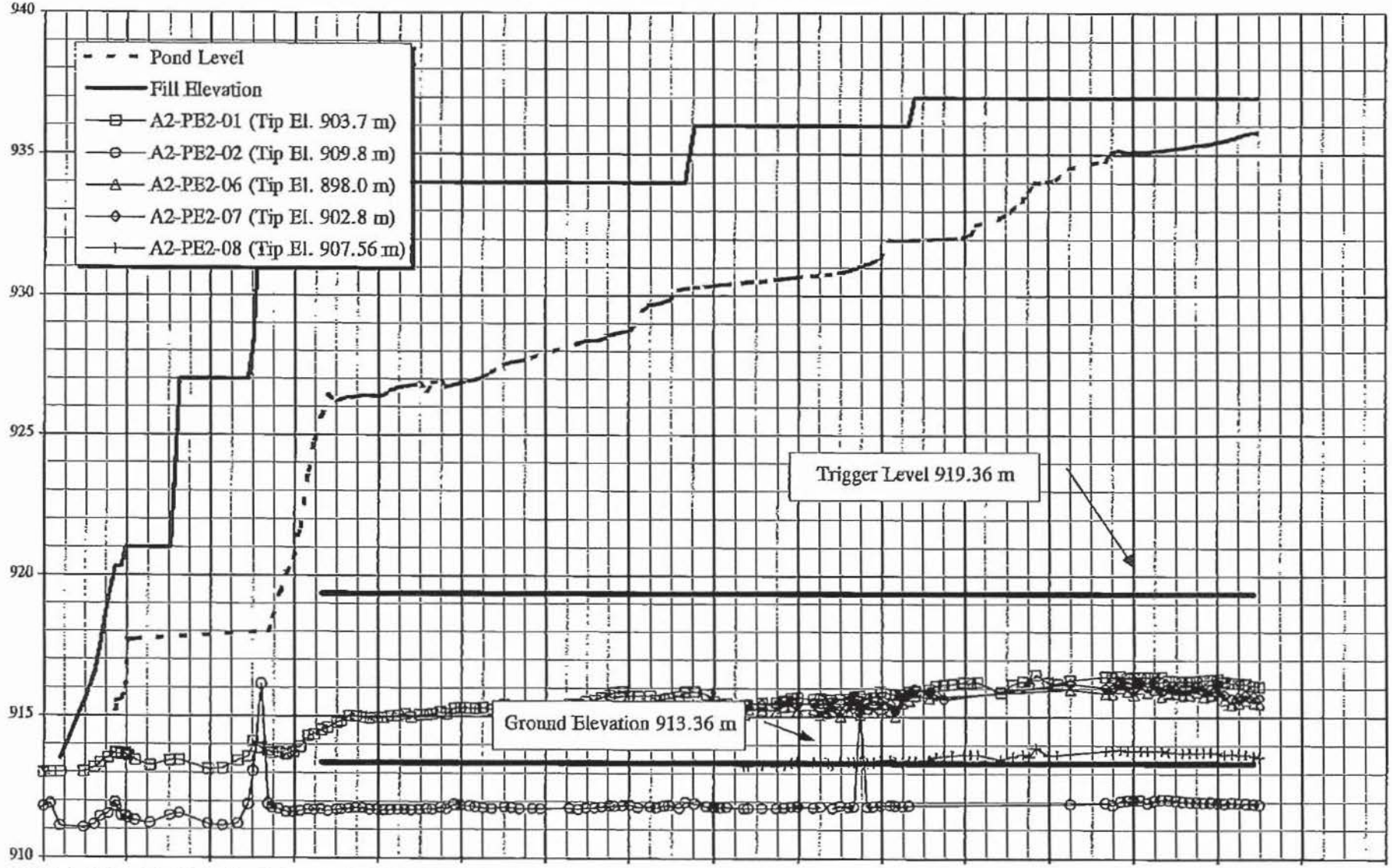


FIGURE 6

INVESTIGATION SGB-2 Page 75 of 500 E.016

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE B FOUNDATION PIEZOMETERS

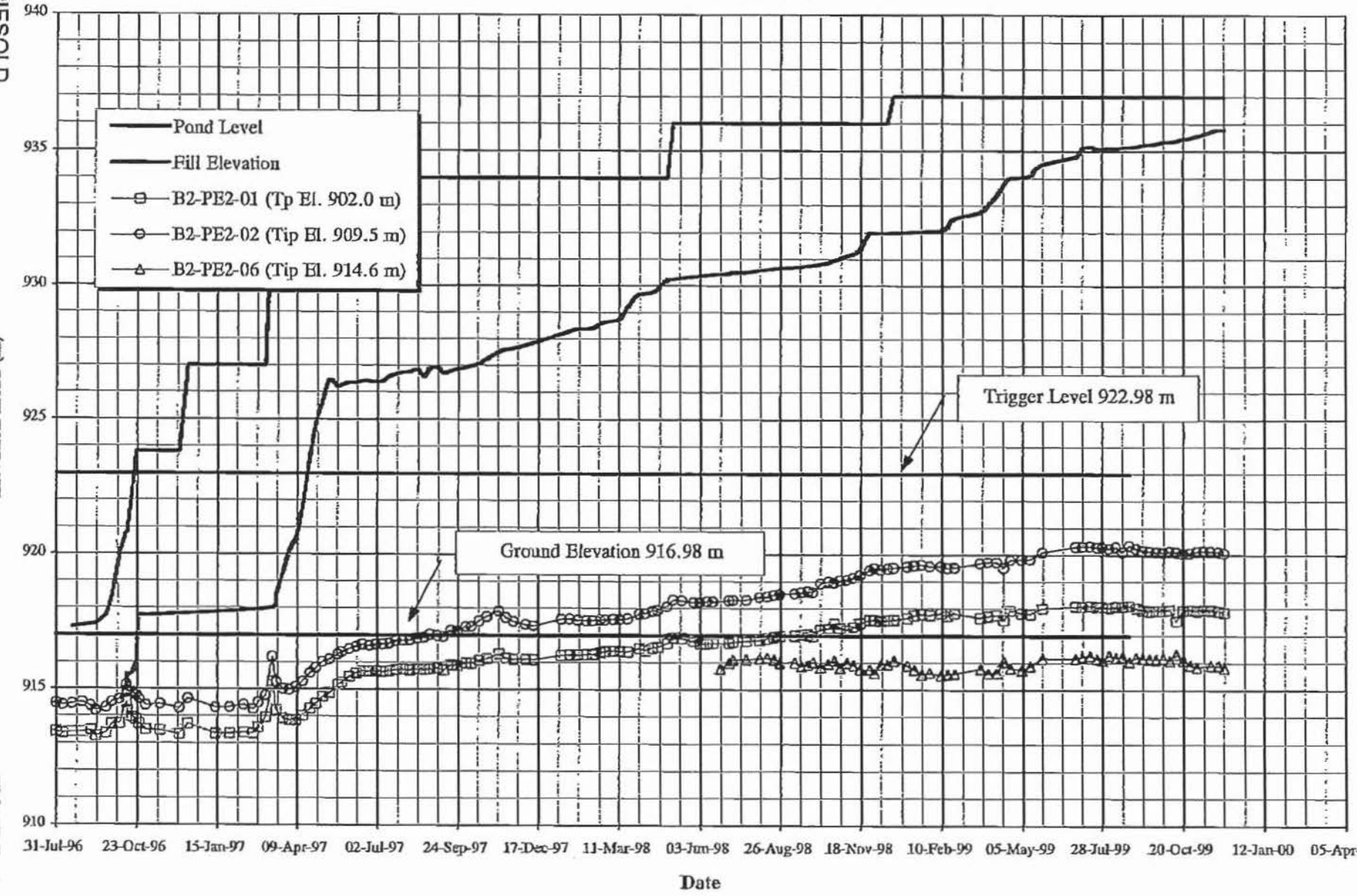


FIGURE 7

INVESTIGATION, KCB-2, 2000 PAGE 017

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C FOUNDATION PIEZOMETERS

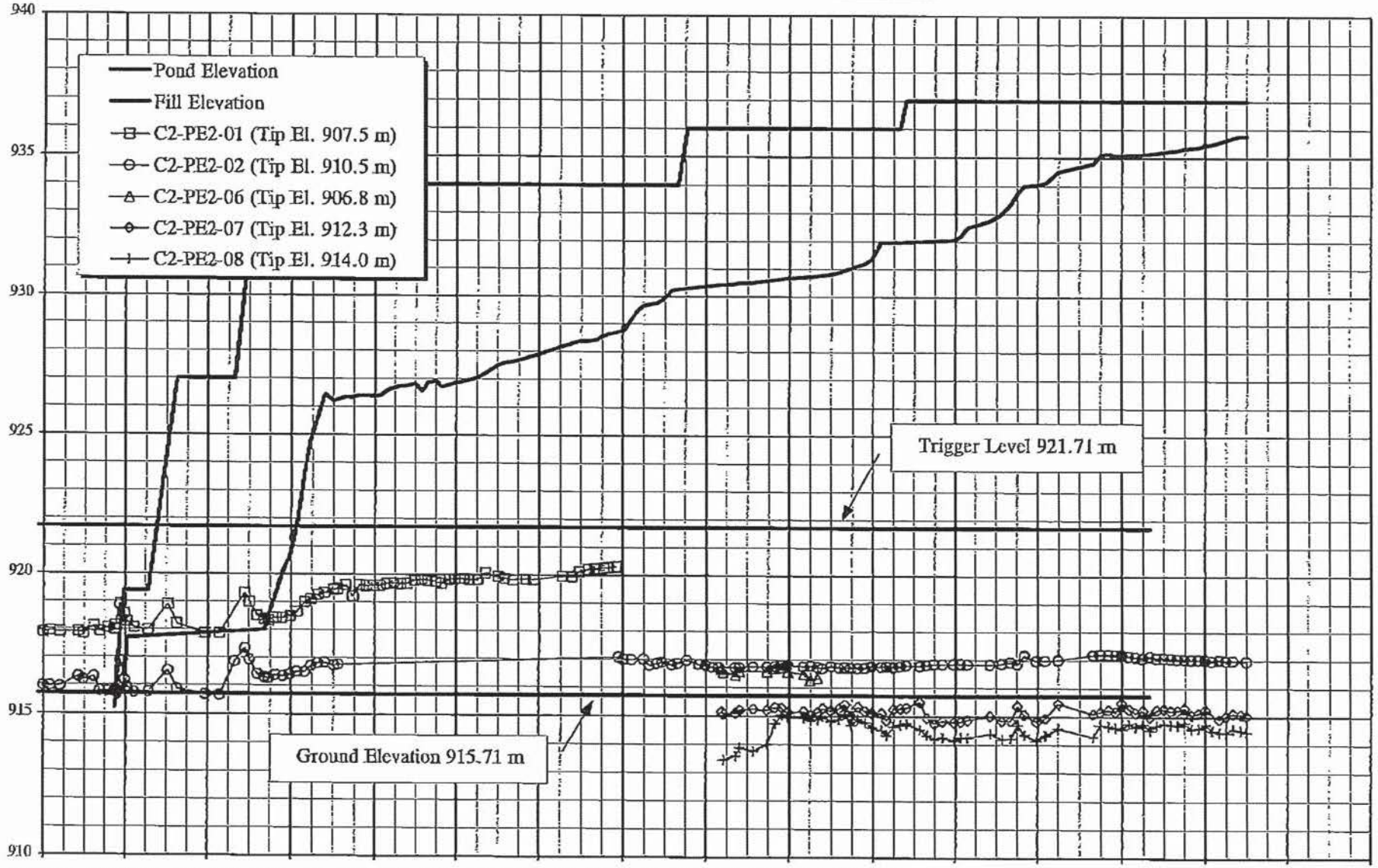


FIGURE 8

INVESTIGATION KGB-2 Page 77 of 500 250.018

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KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE D FOUNDATION PIEZOMETERS

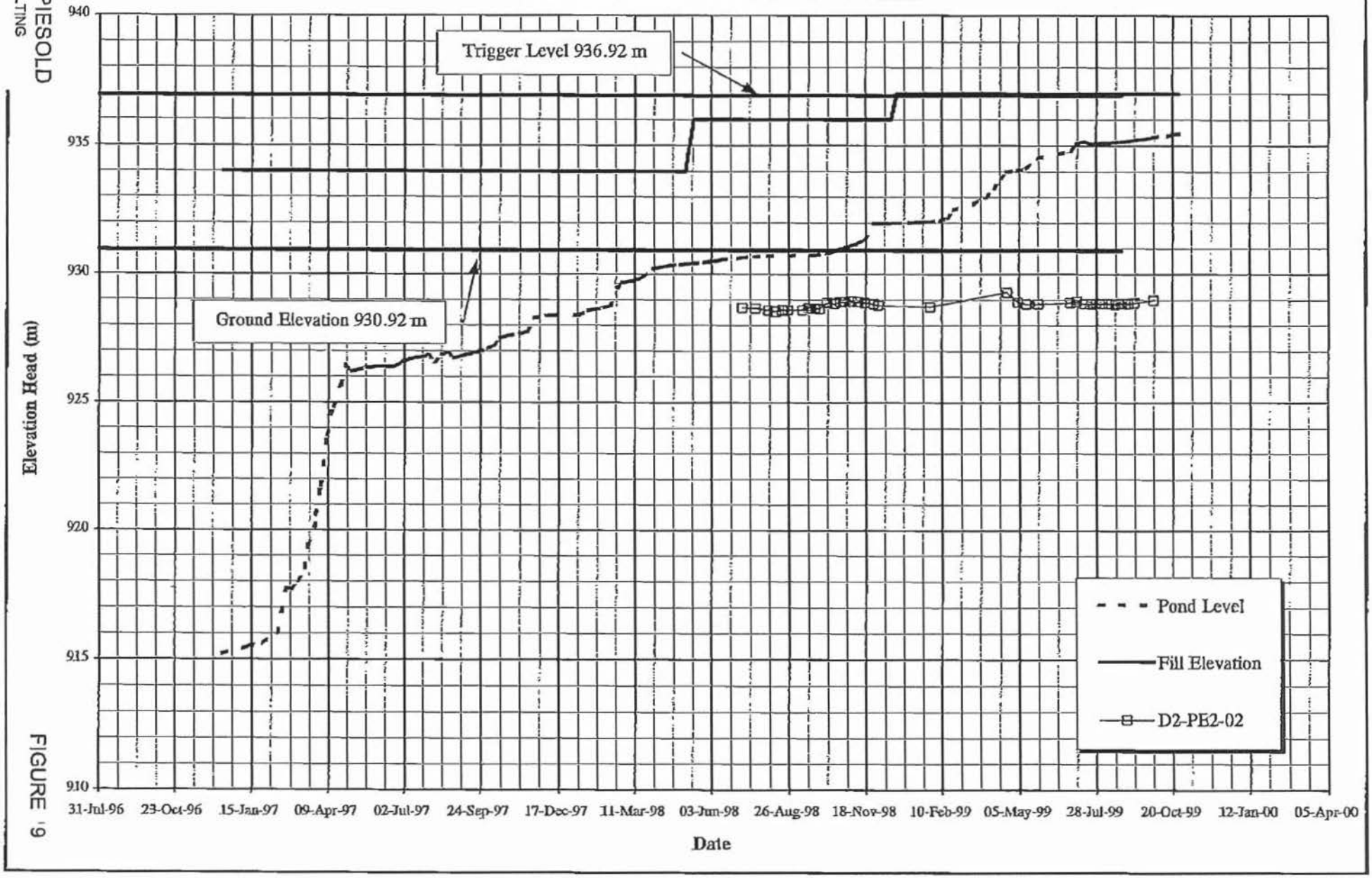


FIGURE '9

INVESTIGATION\SGS-2-2000\78 of 500\E.019

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DEC. 14. 1999 4:01PM MOUNT POLLEY MINING NO. 036 P. 6/7

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE E FOUNDATION PIEZOMETERS

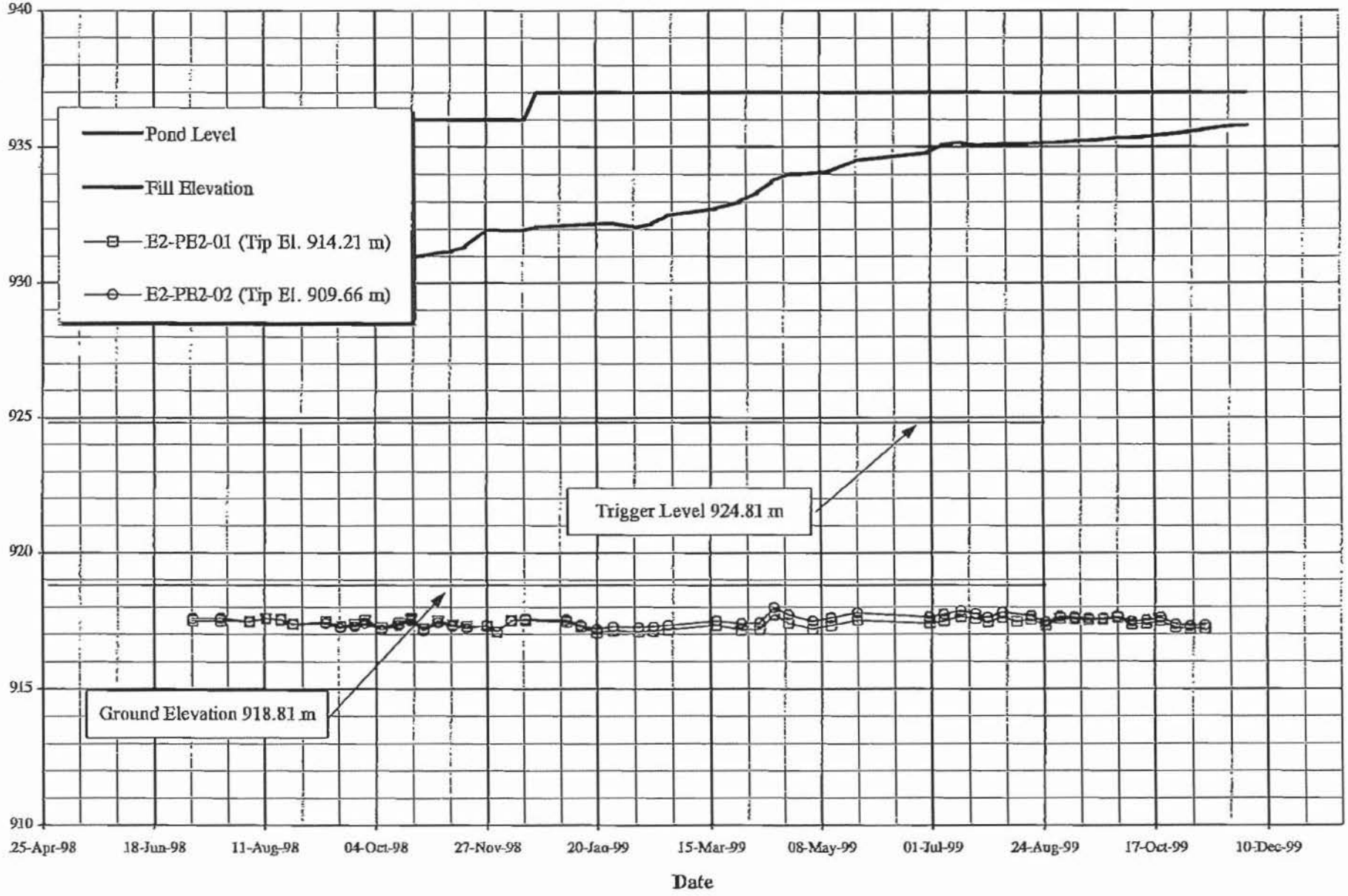
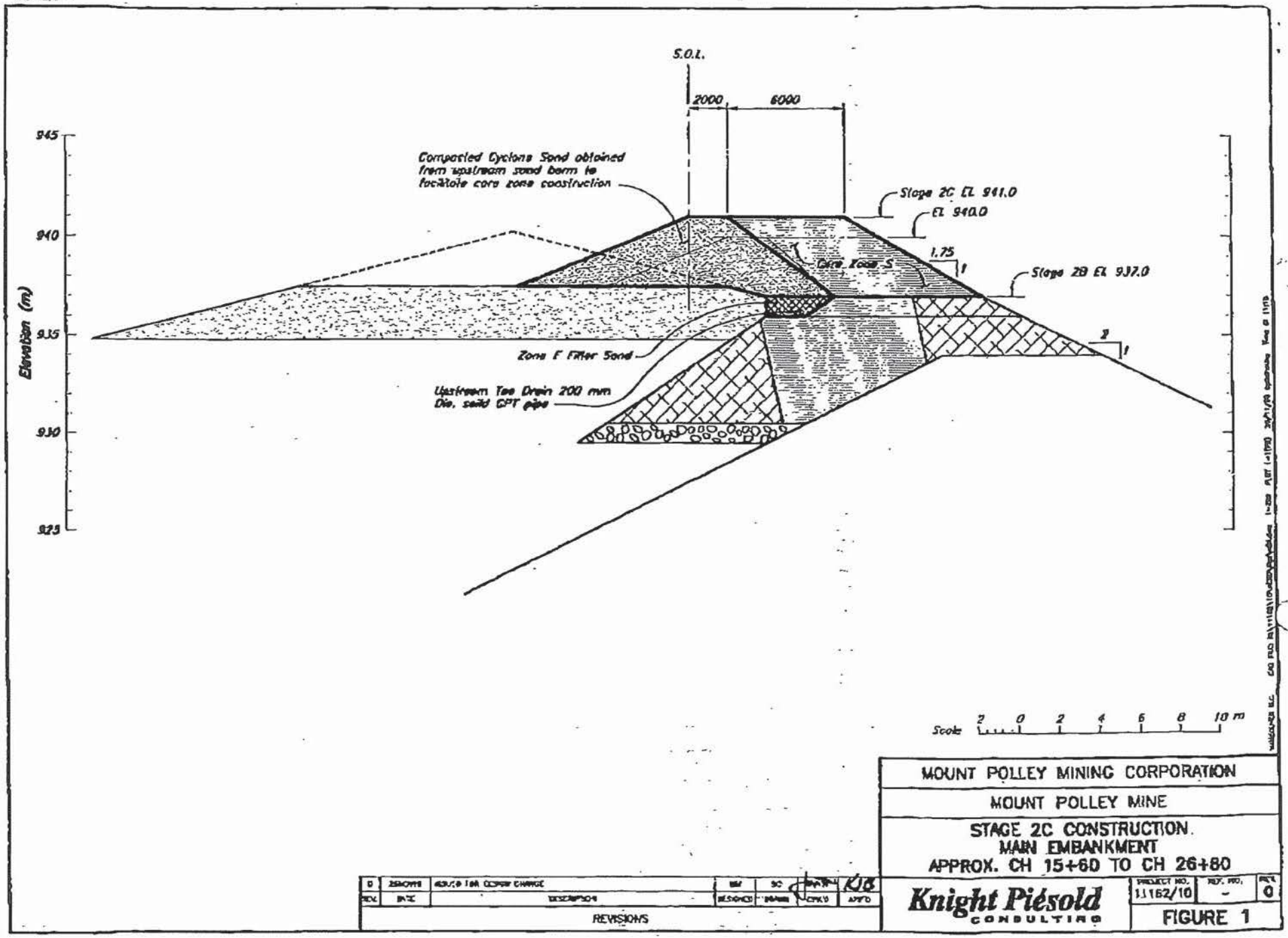


FIGURE 10

INVESTIGATION-KCB-2 Page 79 of 500
250/750 2288 PAGE.020



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REV.	DATE	DESCRIPTION	DESIGNED	DRAWN	CHK'D	APP'D

REVISIONS

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

STAGE 2C CONSTRUCTION.
MAIN EMBANKMENT
APPROX. CH 15+60 TO CH 26+80

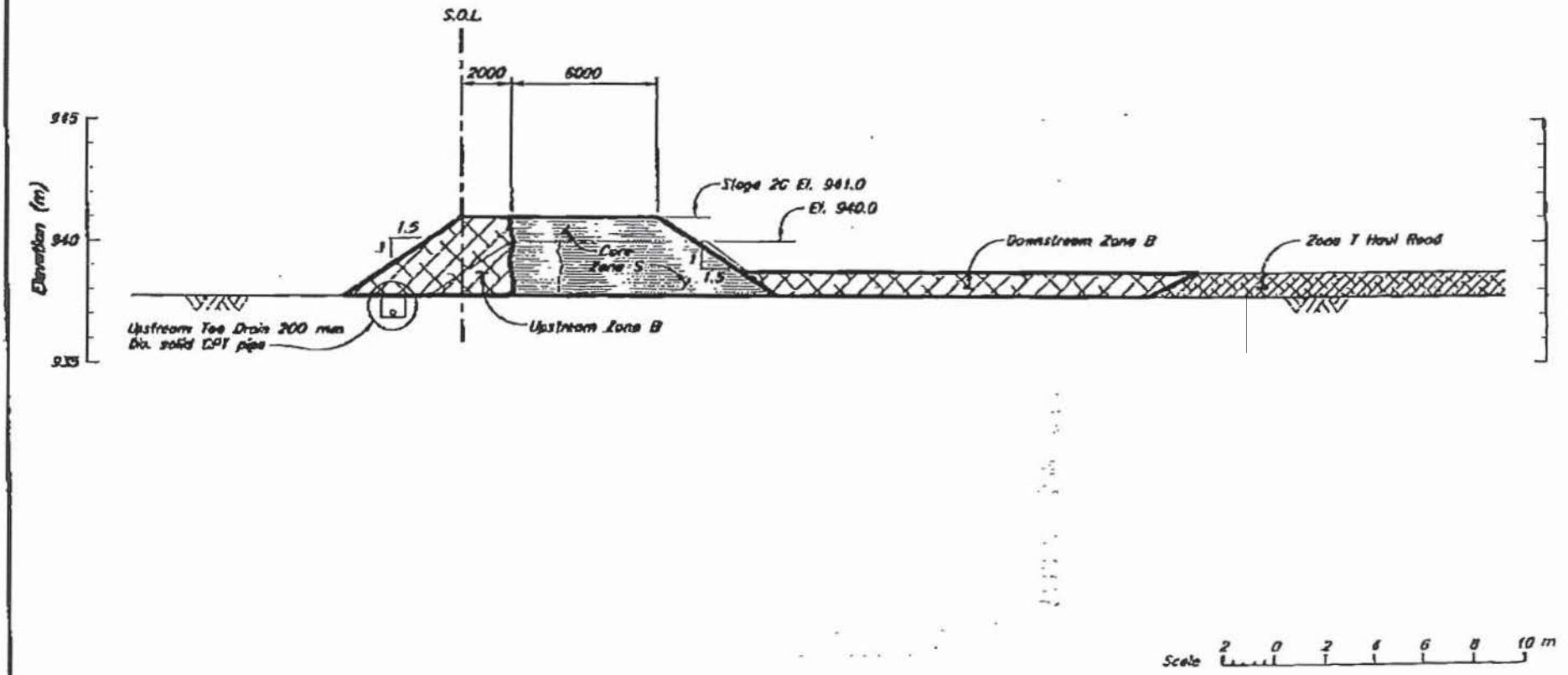
Knight Piésold CONSULTING

PROJECT NO. 1.1162/10 | REF. NO. - | REV. 0

FIGURE 1

RECEIVED TIME NOV.26. 12:54PM PRINT TIME NOV.26. 12:56PM
DEC 14 '99 16:15
INVESTIGATION 98B-2 PAGE 80 OF 500
DEC.14.1999 4:08PM MOUNT POLLEY

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REVISIONS						
REV.	DATE	DESCRIPTION	ORIGINATED	CHECKED	REVIEWED	APPROVED
0	25/11/99	ISSUED FOR DESIGN CHANGE	MW	EC		LJB

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

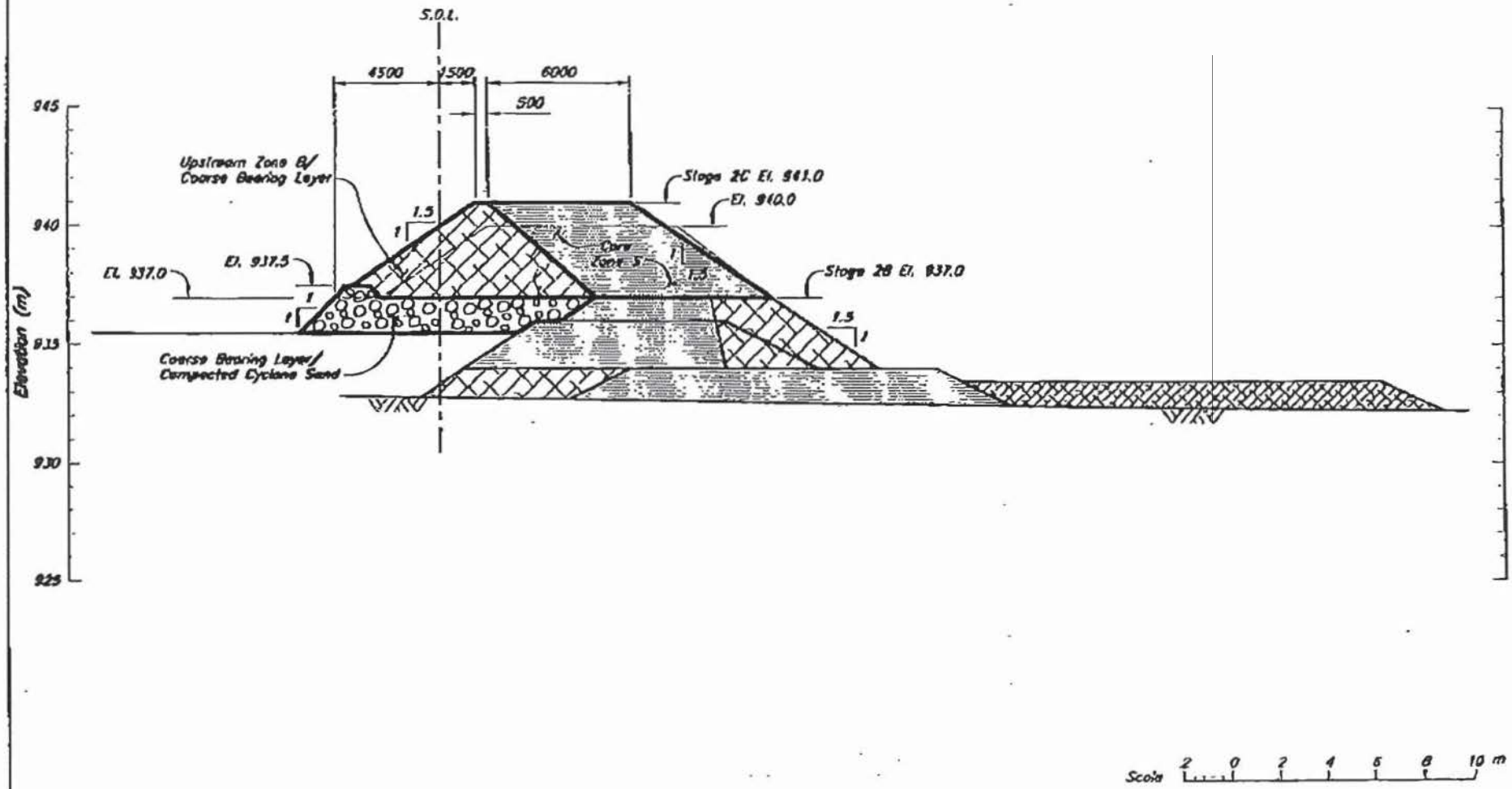
STAGE 2C CONSTRUCTION
MAIN AND PERIMETER EMBANKMENT
APPROX. CH 26+80 TO CH 32+00

Knight Piésold CONSULTING

PROJECT NO. 1162/10 | REF. NO. — | REV. 0

FIGURE 2

DEC.14.1999 4:08PM INVENT FULLY FITTING NO.330 P.22/24
INVESTIGATION\KCB-2.Page 81 of 500
250 / 1500 2288 PAGE .022



MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
STAGE 2C CONSTRUCTION PERIMETER EMBANKMENT APPROX. CH 32+00 TO CH 44+35		
Knight Piésold CONSULTING	PROJECT NO. 11162/10	REV. 0
	FIGURE 3	

REV.	DATE	DESCRIPTION	DESIGNED	DRAWN	CHKD	APP'D
0	29NOV99	ISSUED FOR DESIGN CHANGE	RN	SC		KB

REVISIONS

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DEC 14 '99 16:16
INVESTIGATION 1CB-2 2000 82 of 500E.023

MTS - MATERIALS TESTING SERVICES
Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
V0L 1N0

CLIENT Mount Polley Mining (1)
CC

ATTN: s.22 (250) 790-2268

PROJECT Mt. Polley - T.S.F. Stage 2C

SET NO. 11 NO. OF SPECIMENS 3 DATE RECEIVED 99.Nov.01 DATE CAST 99.Oct.27

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m2)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Nov.03	7	102.0	204.0	203	0.00817	24.8	
B	Nov.24	28	102.0	204.0	292	0.00817	35.7	
C	Nov.24	28	102.0	204.0	296	0.00817	36.2	

SPEC. STRENGTH 20.00 MPa
CEMENT TYPE
CEMENT CONTENT kg/m³
AGGREGATE SIZE mm
ADMIXTURE
SUPPLIER
MIX NO. 20MPA
TRUCK NO.
TICKET NO
BATCH TIME
LOAD VOLUME m³
CUMULATIVE VOL. m³

CONCRETE TEMP °C
AIR TEMP °C
CAST TIME
CAST BY CLIENT
MOLD TYPE PLASTIC
INITIAL CURING TEMP. MAXIMUM °C MINIMUM °C

SLUMP mm
AIR CONTENT %
DENSITY
PLASTIC kg/m³
HARDENED 2423 kg/m³

LOCATION:
not given

COMMENTS:
Cylinders received in laboratory 5 days after cast date.

TEST METHOD: CSA CAN S A23#2 UNLESS OTHERWISE NOTED END OF REPORT

A B C D E F

** TYPE OF FAILURE - REQ'D WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

PER

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of the test results is provided only on written request.

MTPO BINDER

Knight Piésold
CONSULTING

Knight Piésold Ltd.
1400 - 750 West Pender St. Tel: +1 (604) 685-0543
Vancouver, BC V6C 2T8 Fax: +1 (604) 685-0147
CANADA Fax: +1 (604) 687-2203

DATE:	November 23, 1999	**FILE NO:**	11162/10.01
TIME:	10:45 am	**REF. NO.:**	9/2748 (99-039)
OPERATOR:		**PAGES:**	1 of 44
SENDER:	s.22	**APPROVED:**	

TO:	MPMC	**FAX:**	
ATTN:	Don Parsons, Eric LeNeve	**cc:**	George Headley (Min. of Energy and Mines)
SUBJECT:	Mount Polley Progress Report No. 6		

Dear Don and Eric,

Please find attached Progress Report No. 6, for Mount Polley Stage 2C Construction. This document is for the reporting period November 1 to 15, 1999.

Best regards,

s.22

Knight Piésold Ltd.

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION
PROGRESS REPORT NO. 6
NOVEMBER 1 TO 15, 1999

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 2C construction activities over the reporting period. Knight Piésold Ltd. (KP) carried out QA/QC activities over this period.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 (IBM), Project Engineer (On-Site November 1 to 9)

The following MPMC management personnel were on site during the reporting period:

- Eric LeNeve, Tailings Coordinator
- Don Parsons, Mine Superintendent

1.2 WEATHER

Conditions over the reporting period were generally mixed. From November 1 to 5, temperatures were below freezing, with snow on November 3. The remainder of the reporting period generally followed a warming trend, with mostly overcast skies and occasional showers.

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1.3 DESIGN AND CONTRACT DEVELOPMENTS

IBM and Eric LeNeve (MPMC) discussed a possible Stage 2C design modification, for the embankment to be constructed to crest El. 940.5m or 941m (current Stg. 2C design for El. 940m).

There were no contractual issues brought to the attention of Knight Piésold over the reporting period.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Cycloning operations for 1999 were terminated on October 19. Since that time, bulk tailings have been point-discharged from the upper dump valve at the northwest corner of the tailings facility. Following Stage 2C construction, a tailings pipeline system will be re-instated along the embankments. Bulk tailings will be strategically discharged from the upstream embankment crests, to promote the development of adequate beaches adjacent to the embankments, and to control the positioning of the supernatant pond.

Cycloned sand and Coarse Bearing Layer materials were placed along the upstream face of the Perimeter embankment during the reporting period. These materials were keyed into the upstream cycloned sand berm (El. 940m) along the Main embankment. As of November 13, a minimum embankment elevation of 937.5 metres had been established along the Perimeter embankment, which provides incremental storage capacity until the end of December 1999, plus freeboard for both PMP storage and the 1.0 metre wave run-up. On-going Stage 2C construction activities will continue to raise the dam crest over the next several weeks. The final Stage 2C embankment configuration will provide incremental storage capacity and the required freeboard through year 2000 operations.

SECTION 2.0 - CONSTRUCTION ACTIVITIES

The following activities were carried out by MPMC and Peterson Contracting over the reporting period:

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Stage 2C Embankment Construction

- Preparation work was carried out within Borrow Area #2, with wasting of all saturated till materials.

- Zone B & S surface preparation (wasting of saturated upper layer of till material) carried out prior to placement of additional lifts.

- Zone B & S fill placement and compaction was carried out from November 1 to 3. Work was carried out along the Perimeter embankment from CH 28+00 to CH 28+60 (lift #3), and from CH 30+85 to CH 32+05 (lift #4).

- Dozer work was carried out by MPMC to spread the cycloned sand piles along the upstream Main and Perimeter embankments.

- MPMC excavator dug ditch between Perimeter embankment crest and u/s cycloned sand piles, to promote drainage of cycloned sand. A pump was installed within trench to drain collected water.

- MPMC dozer work was carried out along the Stage 2B Main embankment crest, to remove contaminants and re-establish a clean till contact for Stage 2C till placement. During this work, the water return pipeline from the M.E. seepage collection pond was ruptured immediately u/s of the Stage 2B core zone. The pumps were promptly shut off, but the pipe still requires removal prior to Stage 2C fill placement.

- MPMC excavator work was carried out to remove unsuitable materials from the Main embankment left abutment crest, which had previously been placed to control rutting.

- Placement of Coarse Bearing Layer rockfill along the upstream Perimeter embankment, within areas not covered by 1999 cycloning operations. Over the reporting period, this work was carried out from November 3 to 13, and continued again on November 16. Night shift rockfill placement began in addition to dayshift operations on November 9.

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Fill Placement Summary

Embankment Zone	Volume Placed over Period (m^3)	Total Volume to Date (m^3)	Total Volume Required (m^3)	Percent Complete (%)
S (till core)	655	3,935	65,000	6.1
B (till)	2,625	16,945	32,000	53.0
CBL (rockfill)	25,000	25,000	18,600 *	est. 80 *
F (filter sand)	2,300	2,300	2,300	100.0

Note: Fill volumes required for Stage 2C construction have been updated to include for the Perimeter embankment upstream CBL and Zone CS/B design change. Actual CBL volumes have exceeded estimated requirements due to large tailings displacement during placement; CBL percent completion has therefore only been estimated.

Cone Penetration Testing

- ConeTec Investigations and Mud Bay Drilling were on-site from November 2 to 4. Cone penetration testing (CPT), including seismic shear wave measurements and pore pressure dissipation tests were carried out along the upstream Main and Perimeter embankment cycloned sand piles, as well as within the downstream Trial Berm area. A total of 23 holes were pushed, with 9 holes within the d/s Trial Berm, and 7 holes u/s of each the Main and Perimeter embankments.

- Prior to CPT testing, MPMC created access onto the u/s Main and Perimeter embankment cycloned sand piles for the track-mounted drill rig and ConeTec truck.

Miscellaneous

- Grader work was carried out along TSF access roads.

- Surveyor picked up all CPT test hole locations, as well as the previously installed Main embankment u/s toe drain piezometer A1-PE1-04.

SECTION 3.0 - KNIGHT PIÉSOLD ACTIVITIES

3.1 GENERAL

KP activities over the reporting period included the following:

Stage 2C Embankment Construction

- Nuclear densometer record testing was carried out on all placed and compacted Zone B and S materials, to measure achieved field dry density and moisture content values. The minimum acceptable field density requirement for compacted Zone B material is 92% of Standard Maximum Dry Density (SMDD), and 95% SMDD for Zone S core material. Densometer testing confirmed that the required compaction specifications were achieved.

Miscellaneous

- Progress Report No. 5 was issued for the reporting period October 16 to 31, 1999.
- Daily summaries of QA/QC and construction activities were submitted to MPMC.
- Planes D and F piezometers within downstream trial berm, and the new Plane A piezometer A1-PE1-04 were monitored, and the piezometer plots were updated. Planes D and F d/s trial berm piezometer plots were forwarded to KP Vancouver for inclusion into the Stage 3 design report.
- IBM oversaw the Cone Penetration Testing program from November 2 to 4.
- IBM assisted MPMC tailings operator with pumping water from the non-perforated u/s toe drain trench, prior to backfilling portion with Zone F filter sand.

- Lab summary tables were updated for Zone S Control and Record testing carried out over the reporting period.

3.2 MONITORING

3.2.1 General

On-going monitoring of instrumentation was continued over the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

3.2.2 Vibrating Wire Piezometers

The Perimeter Embankment instrumentation Planes D and F piezometers within the downstream cycloned sand trial berm were monitored by Knight Piésold, and are presented on Figures 1 to 10. As shown on these plots, piezometric pressures are still dissipating marginally and indicate virtually drained conditions following completion of the cycloned sand deposition within the downstream trial area on 19-Oct-99.

MPMC representatives read all other active TSF piezometers on November 3, 10 and 17. The following observations are based on the summary data shown on Figures 11 to 20.

- Foundation Piezometers
  All foundation piezometers have generally remained static and have not reacted to placement of upstream Zone CS material.

- Fill Piezometers
  Pore pressures in the vicinity of B2-PE2-03 (Zone S), C2-PE2-05 (Zone S) and A2-PE2-03 (Zone B) have increased, likely as a result of Zone CS placement. The remainder of the piezometers placed in the engineered fill have remained relatively static.

- Drain Piezometers

All piezometers located within the drains have remained static. This indicates that the drains are free draining and are functioning as designed.

- Tailings Piezometers
  Plane C tailings piezometers were reacting to the rise in pond level until they stopped functioning at the end of May, 1999. Plane B tailings piezometers continue to mimic the pond level, while the tailings piezometers at Plane A have reacted to the placement of Zone CS material.

3.2.3 Drain Flows

Due to the high water level in the Seepage Collection Pond at the Main Embankment, the outlets of the foundation drains have been flooded, and the flows have not been recorded since December 22, 1998. MPMC plans to lower the level of the pond in Spring 2000, to continue monitoring of all foundation drain flows. Measured foundation drain flows are summarized on Table 1.

MPMC constructed small weirs at the Main Embankment Outlet Drains to monitor Chimney Drain flows. No data has been collected due to the low observed flow levels.

The flows from outlet drains OD-4, 5, and 6 were measured on October 5, since then the water level in the Perimeter Embankment Seepage Collection Pond has been too high to measure flows from the outlet drains. The flows, summarized on Table 2 and Figure 21, increased during the first phase cycloned sand deposition within the downstream trial berm, and began dissipating prior to completion of cycloned sand discharge.

3.2.4 Standpipe Piezometer Levels

The water level in standpipe piezometer GW96-9 (downstream of the right abutment of the Main Embankment) has not been monitored this season due to a break in the pipe. The pipe will be repaired in the future and readings will recommence.

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3.2.5 Survey Monuments

New survey points will be installed following the completion of Stage 2C construction in order to measure any settlements prior to the beginning of Stage 3 Construction.

3.3 QA/QC and Laboratory Testing

Ten (13) concrete test cylinders were previously cast during backfilling of the Main and Perimeter embankment outlet pipe trenches. These cylinders were delivered to the MTS laboratory for compressive strength testing after periods ranging from 3 to 28 days. Test results for four (4) samples were received over the previous reporting period. Test results for seven (7) additional samples were received over this reporting period, with results indicating that the design objectives are being exceeded.

Over the reporting period, Zone S record sample R/ZS-2 was collected from the lift #4 Perimeter embankment at CH 31+38. This sample was sent to MTS for laboratory testing. In addition, -#4 material from previously collected samples C/ZS-1 and 2 were also sent to MTS for Atterburg limits testing. Over the reporting period, lab test results were received from MTS Testing for samples C/ZS-1, 2 as well as R/ZS-1, and 2. All materials were all found suitable for Zone S or B till construction materials.

Submitted by,

s.22

Knight Piésold

Distribution: Eric LeNeve, Tailings Coordinator, MPMC, Site
Don Parsons, Mine Superintendent, MPMC, Site
George Headley, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, Project Director/John Wilkinson, Project Manager, KP Vancouver

J:\JOB\DATA\10162-9\SITE 2b\Piezos\MPPiez-d 16/11/1999

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-02
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 935.02m)

FIGURE (1)

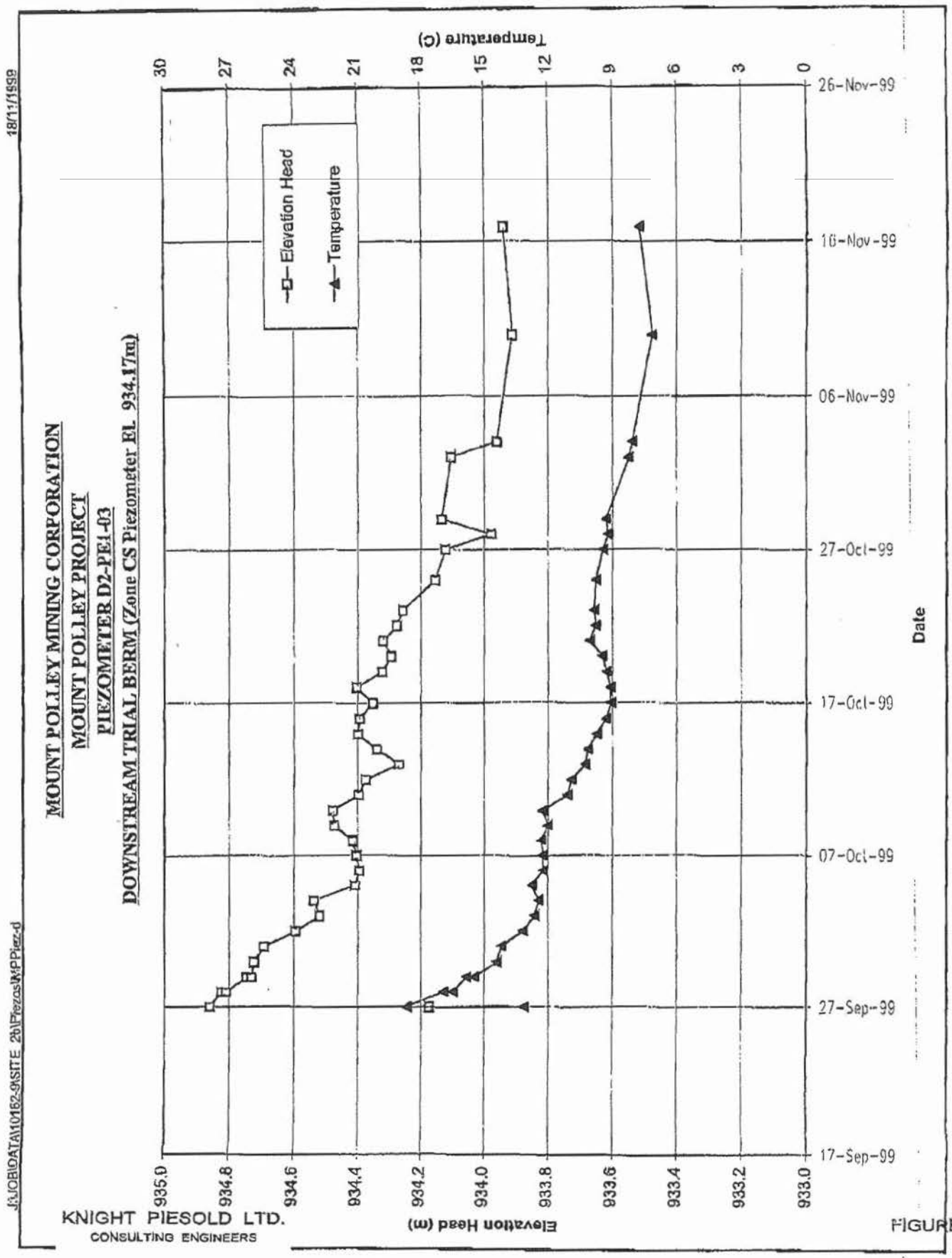

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-03
DOWNSTREAM TRIAL BERM (Zone CS Piezometer EL. 934.17m)
Elevation Head
Temperature
Elevation Head (m)
Temperature (C)
Date
935.0
934.8
934.6
934.4
934.2
934.0
933.8
933.6
933.4
933.2
933.0
30
27
24
21
18
15
12
9
6
3
0
26-Nov-99
16-Nov-99
06-Nov-99
27-Oct-99
17-Oct-99
07-Oct-99
27-Sep-99
17-Sep-99
18/11/1999
J:\JOB\DATA\10162-9\SITE 2b\Piezos\MPPiez-d
KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

FIGURE (2)

J:\JOB\DATA\10162-9\SITE 2b\Piezos\MPPiez-5 18/11/1999

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CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-04
DOWNSTREAM TRIAL BERM (Zone CS Piezometer EL. 933.27m)

FIGURE (3)

J:\JOB\DATA\0162-9\SITE 2b\Piezos\MPPiez-d 18/11/1999

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-05
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.36m)

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

FIGURE (4)

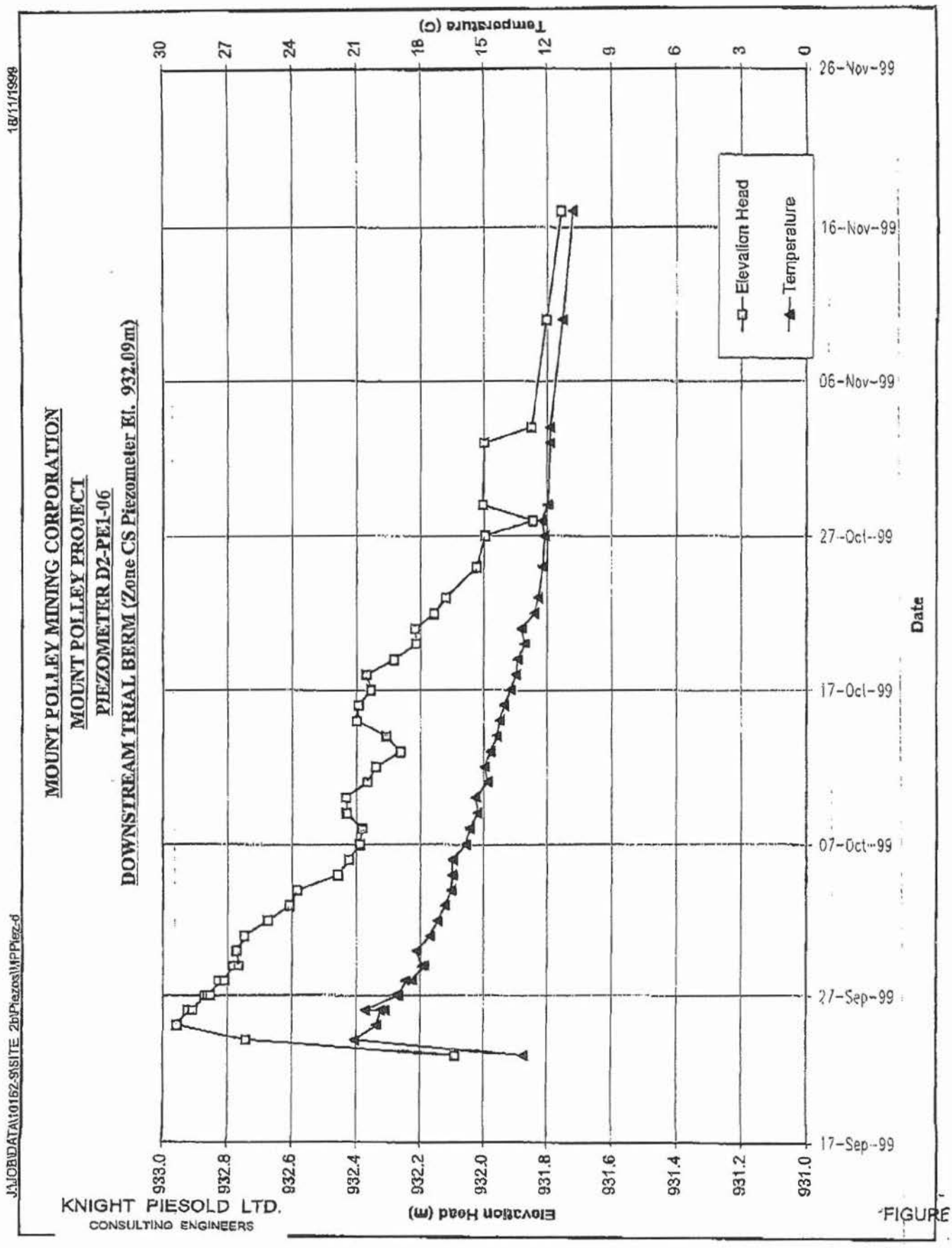

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-06
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.09m)
Elevation Head (m)
Temperature (C)
Date
Elevation Head
Temperature
933.0
932.8
932.6
932.4
932.2
932.0
931.8
931.6
931.4
931.2
931.0
30
27
24
21
18
15
12
9
6
3
0
26-Nov-99
16-Nov-99
06-Nov-99
27-Oct-99
17-Oct-99
07-Oct-99
27-Sep-99
17-Sep-99
18/11/1999
J:\JOB\DATA\10162-99\SITE 2b\Piezos\MPPiez-d
KNIGHT PIESOLD LTD.
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FIGURE 5

J:\IO8\DATA\10162-9\SITE 2b\Piezos\MPPiez-F 18/11/1999

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-01
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 935.00m)

FIGURE 5

J:\JOB\DATA\10162-6\SITE 2b\Piezos\MPPiez-f 18/11/1999

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-02
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 934.16m)

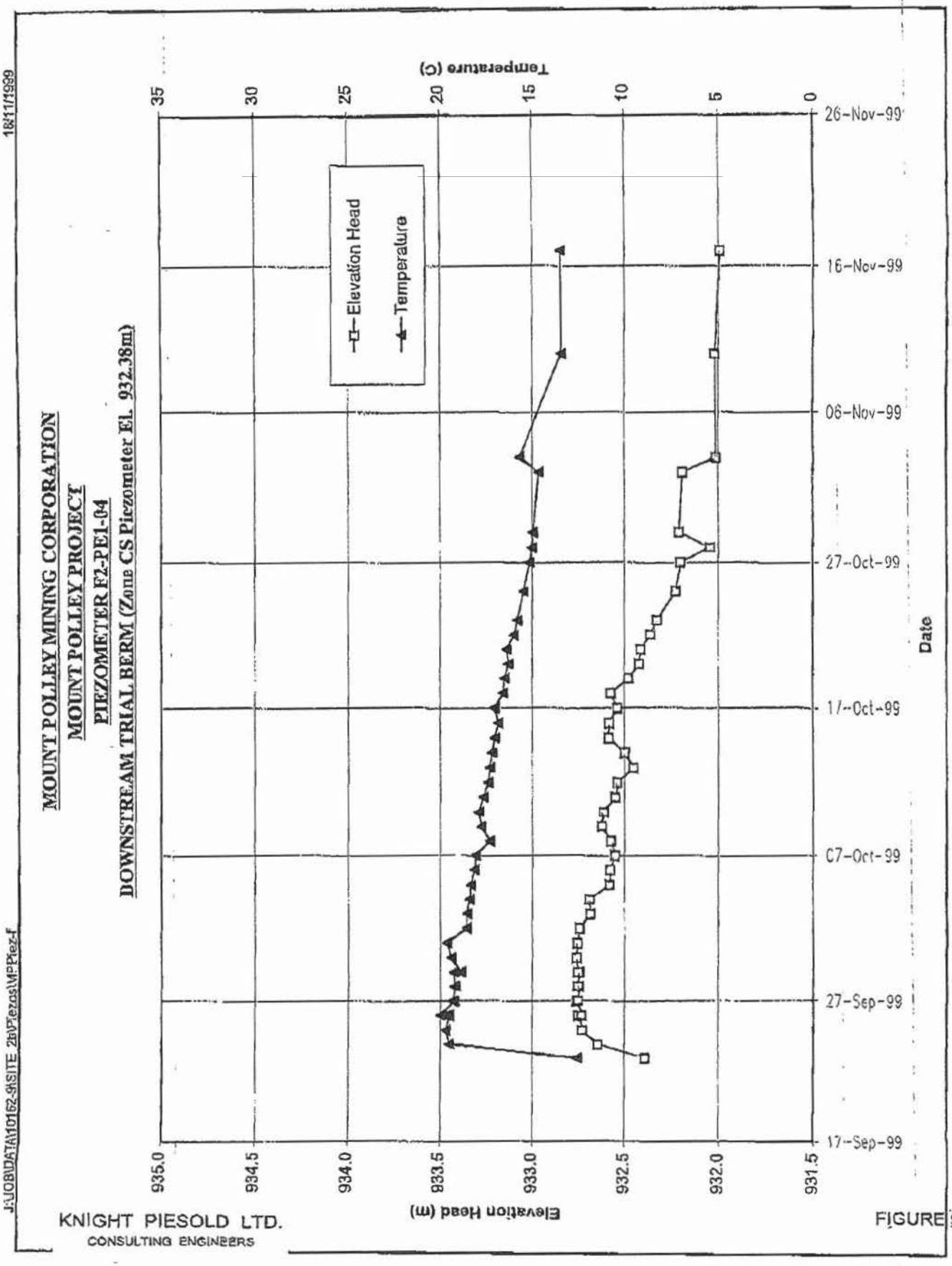
FIGURE 7

J:\JOB\DATA\10162-9\SITE 2b\Piezos\MPPiez-F 18/11/1999

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-03
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 933.28m)

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

FIGURE 8


MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-04
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.38m)
Elevation Head
Temperature
Elevation Head (m)
Temperature (C)
Date
935.0
934.5
934.0
933.5
933.0
932.5
932.0
931.5
35
30
25
20
15
10
5
0
26-Nov-99
16-Nov-99
06-Nov-99
27-Oct-99
17-Oct-99
07-Oct-99
27-Sep-99
17-Sep-99
18/11/1999
J:\JOB\DATA\10162-9\SITE 2b\Piezos\WP\Piez-f
KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS
FIGURE 9

J:\JOB\DATA\10162-9\SITE 2b\Piezos\MPPiez-f 18/11/1999

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-05
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.10m)

FIGURE 10

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS

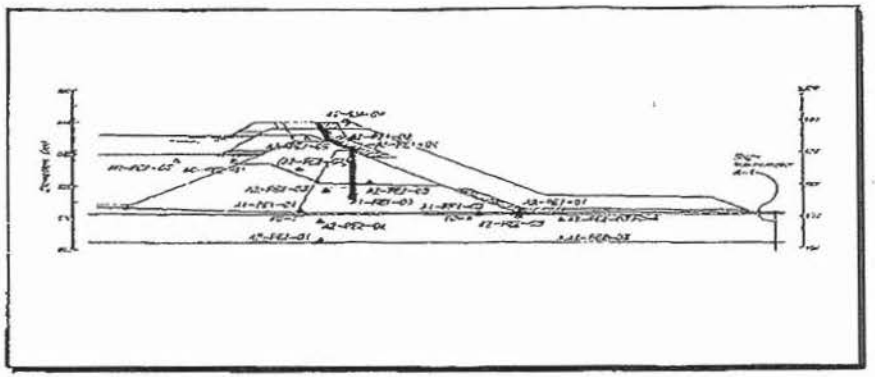
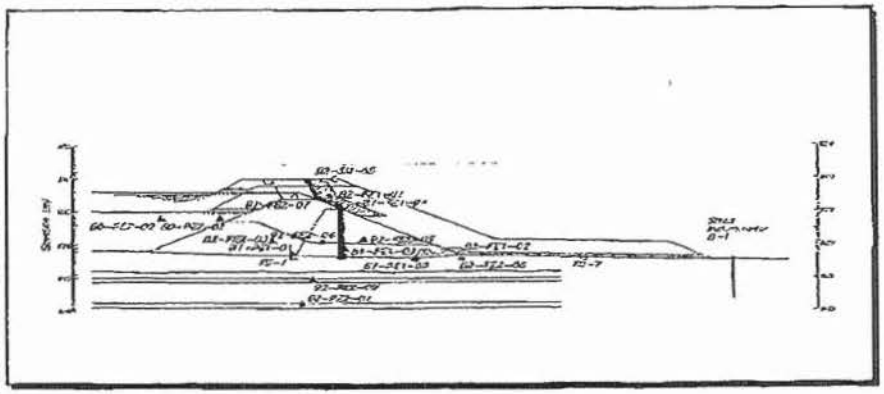


FIGURE 11

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS



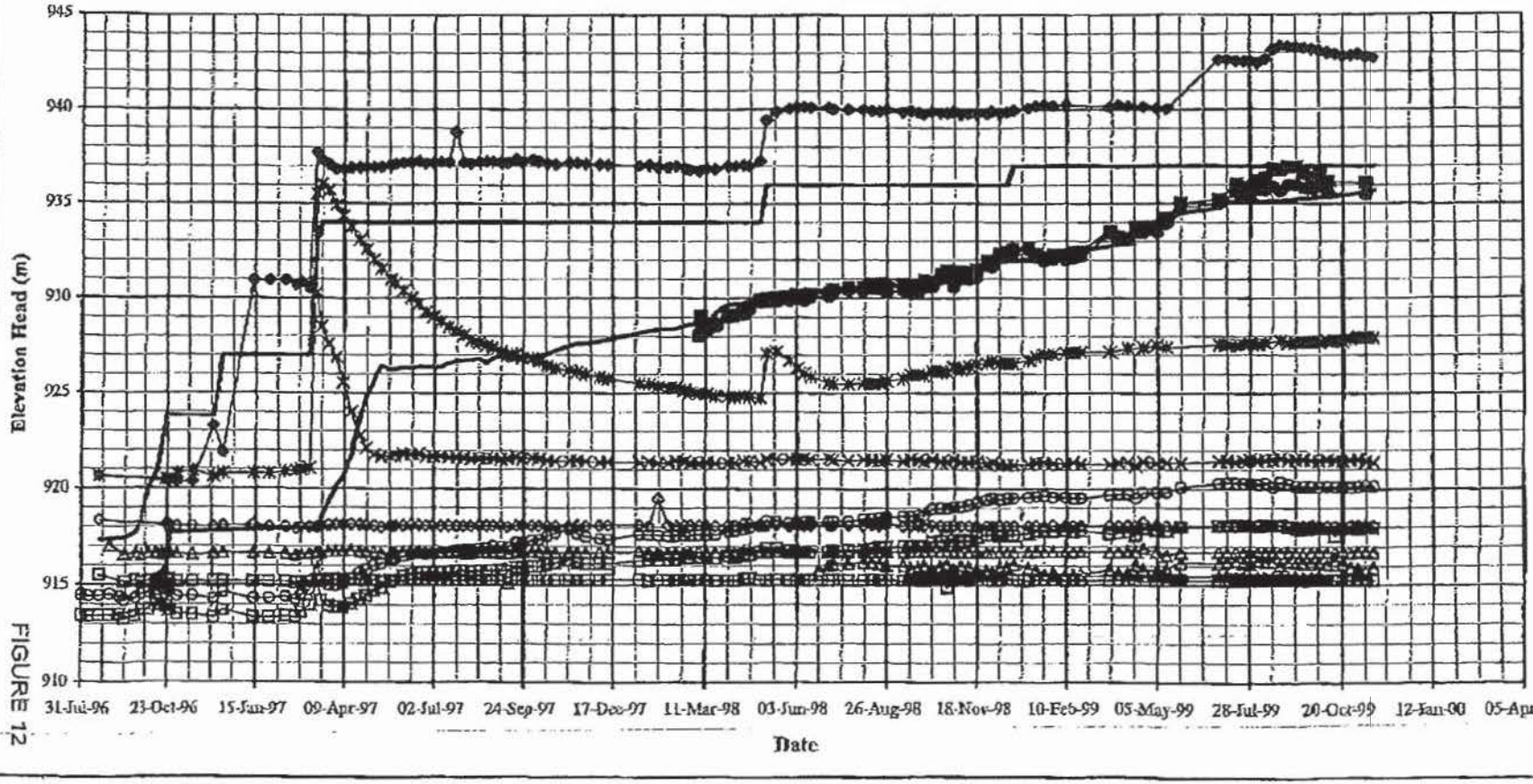


FIGURE 12

NOV-23-99 TUE 12:10 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P.21/44
NOV 23 '99 11:06 SS6.0N 604 685 0147 PAGE.021
MOUNT POLLEY MINING INVESTIGATION PROJECT 2 PAGE 104 OF 500

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

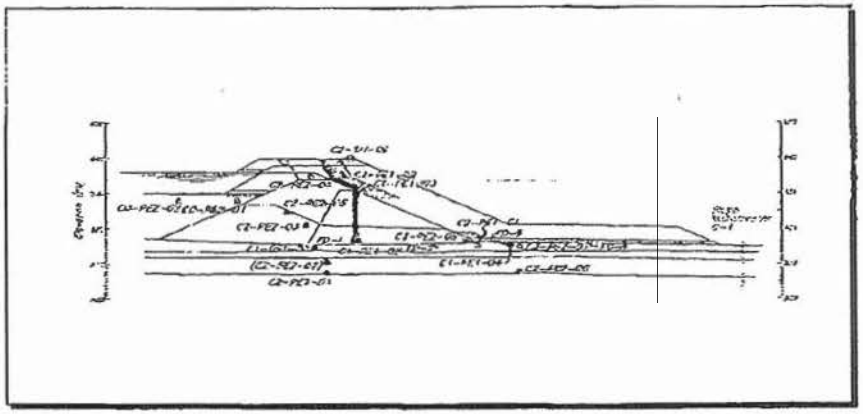
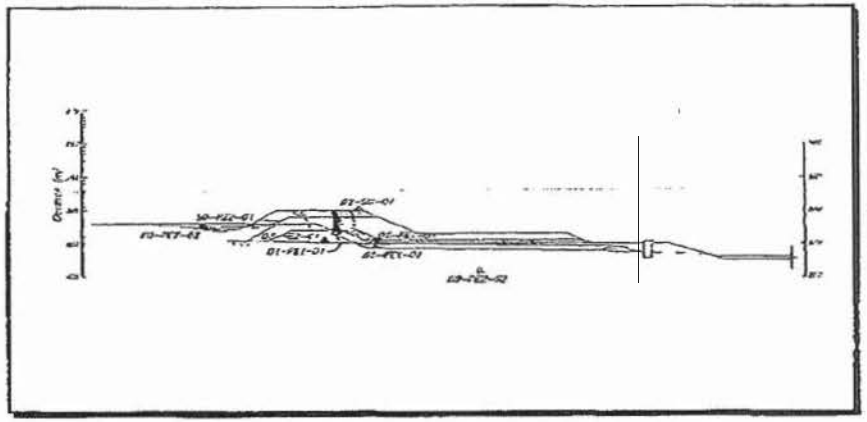


FIGURE 13

MPPiez-d All Piezos 18/11/1999 11:41 AM

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS



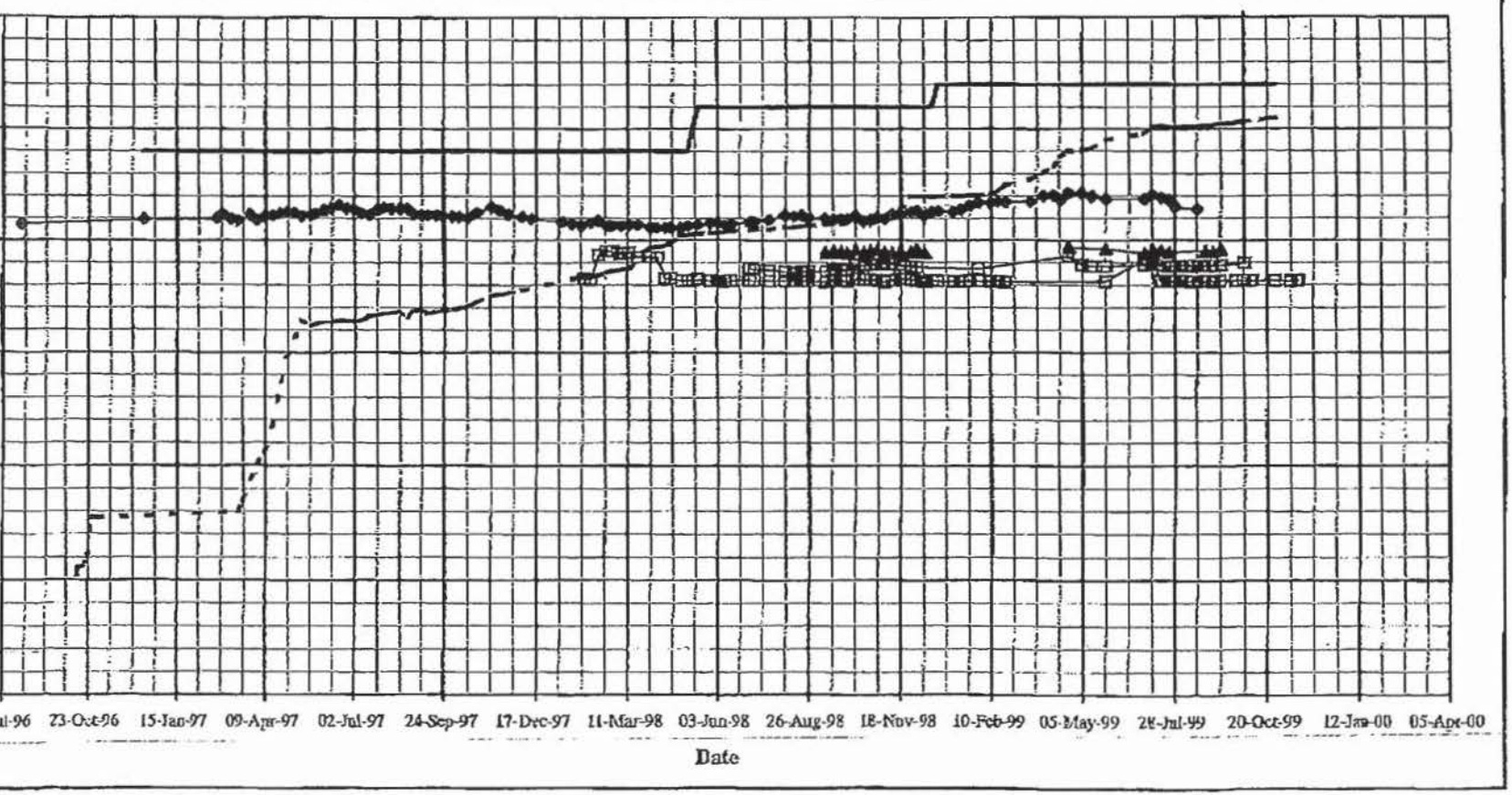


FIGURE 14

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

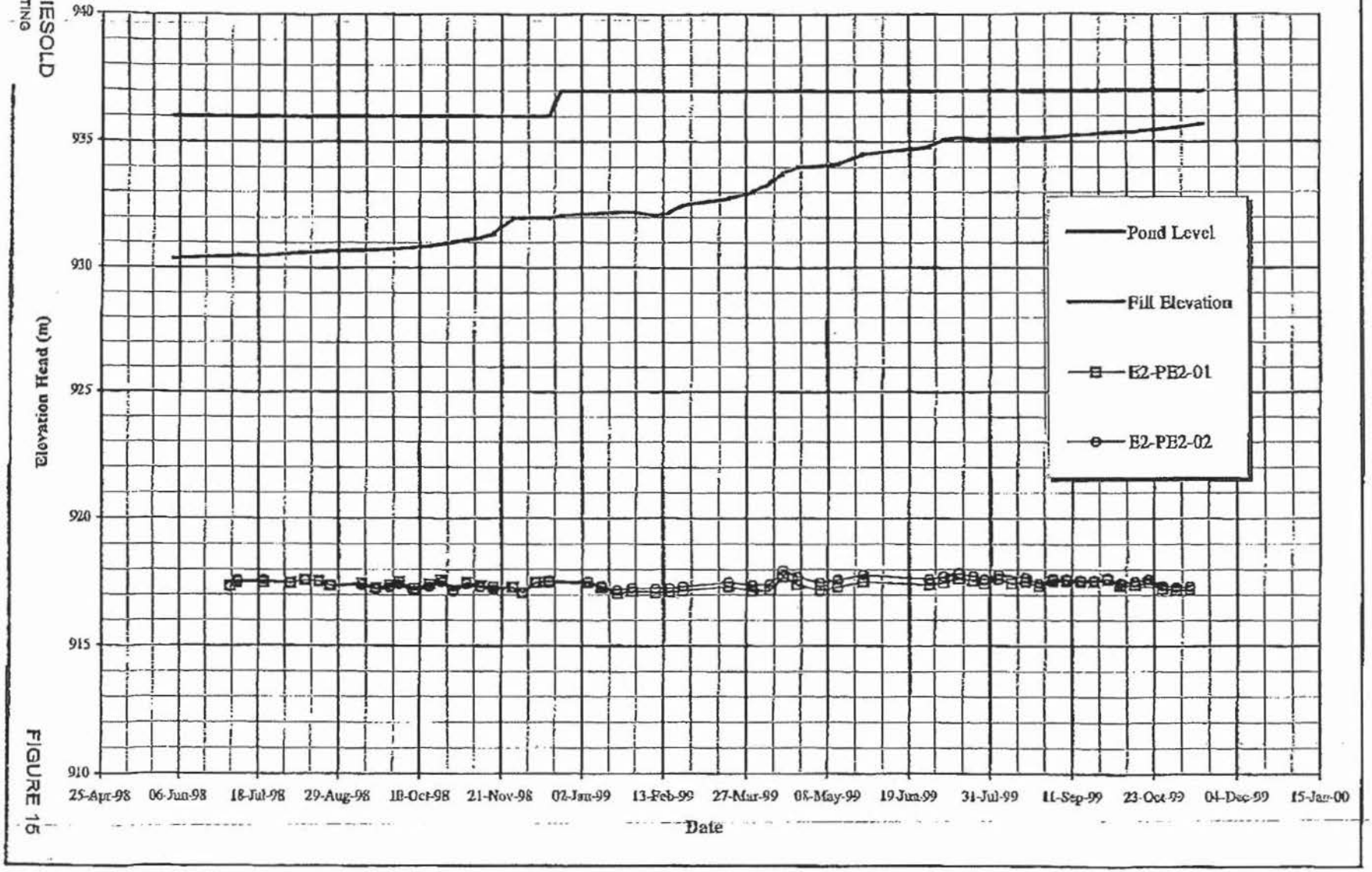


FIGURE 15

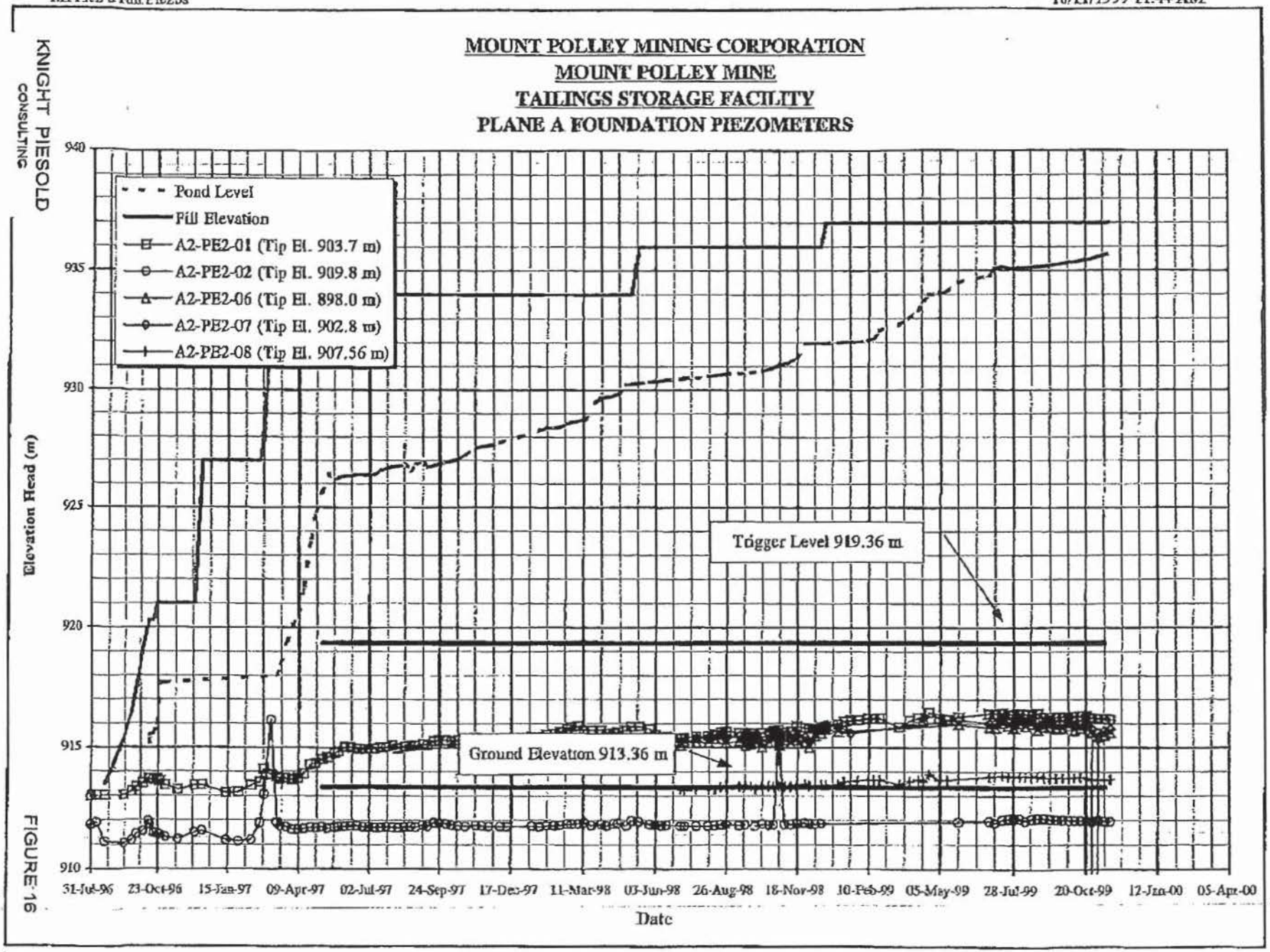
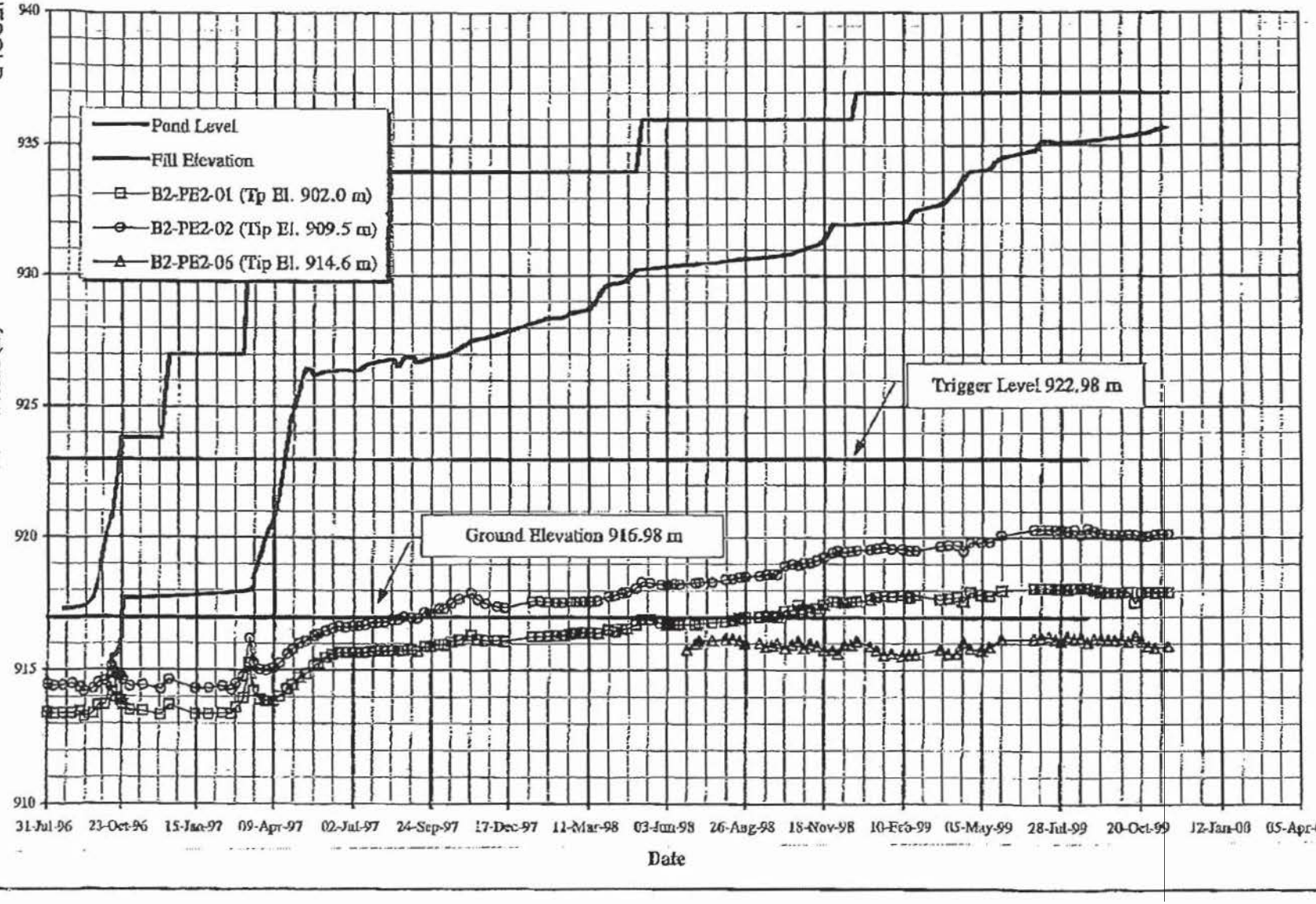


FIGURE 16

NOV-23-99 TUE 12:11 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P.25/44
NOV 23 '99 11:08 S2/17.P SEG.ON
SKINNIN POLLY MINE INVESTIGATION KCB-2 Page 108 of 500
604 685 0147 PAGE.025

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE B FOUNDATION PIEZOMETERS



KNIGHT PIESOLD CONSULTING

FIGURE 17

NOV-23-99 TUE 12:12 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P.26/44
NOV 23 '99 11:08 SEG.ON P.18/25
SNINIM YJJOP TNUOM
INVESTIGATION RCB-2 Page 109 of 300
604 685 0147 PAGE.026

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C FOUNDATION PIEZOMETERS

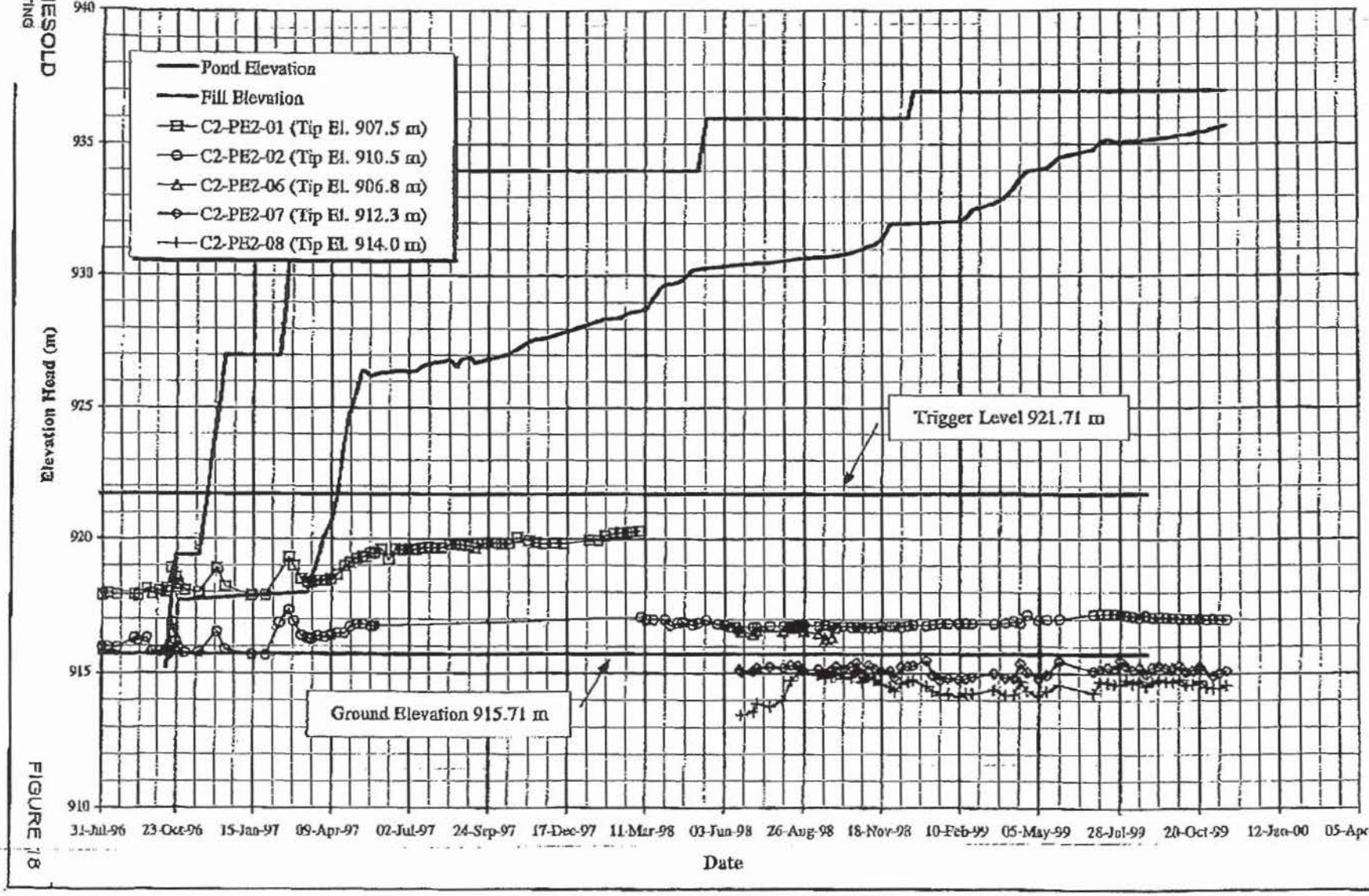


FIGURE 18

NOV-23-99 TUE 12:12 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P.21/44
NOV 23 '99 11:09 S36.ON S2/61.P
SNINIM YJJOP TNUOM
INVESTIGATION\RCB2 PAGE 1.81 of 500
604 685 0147 PAGE.027

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE D FOUNDATION PIEZOMETERS

KNIGHT PIESOLD CONSULTING

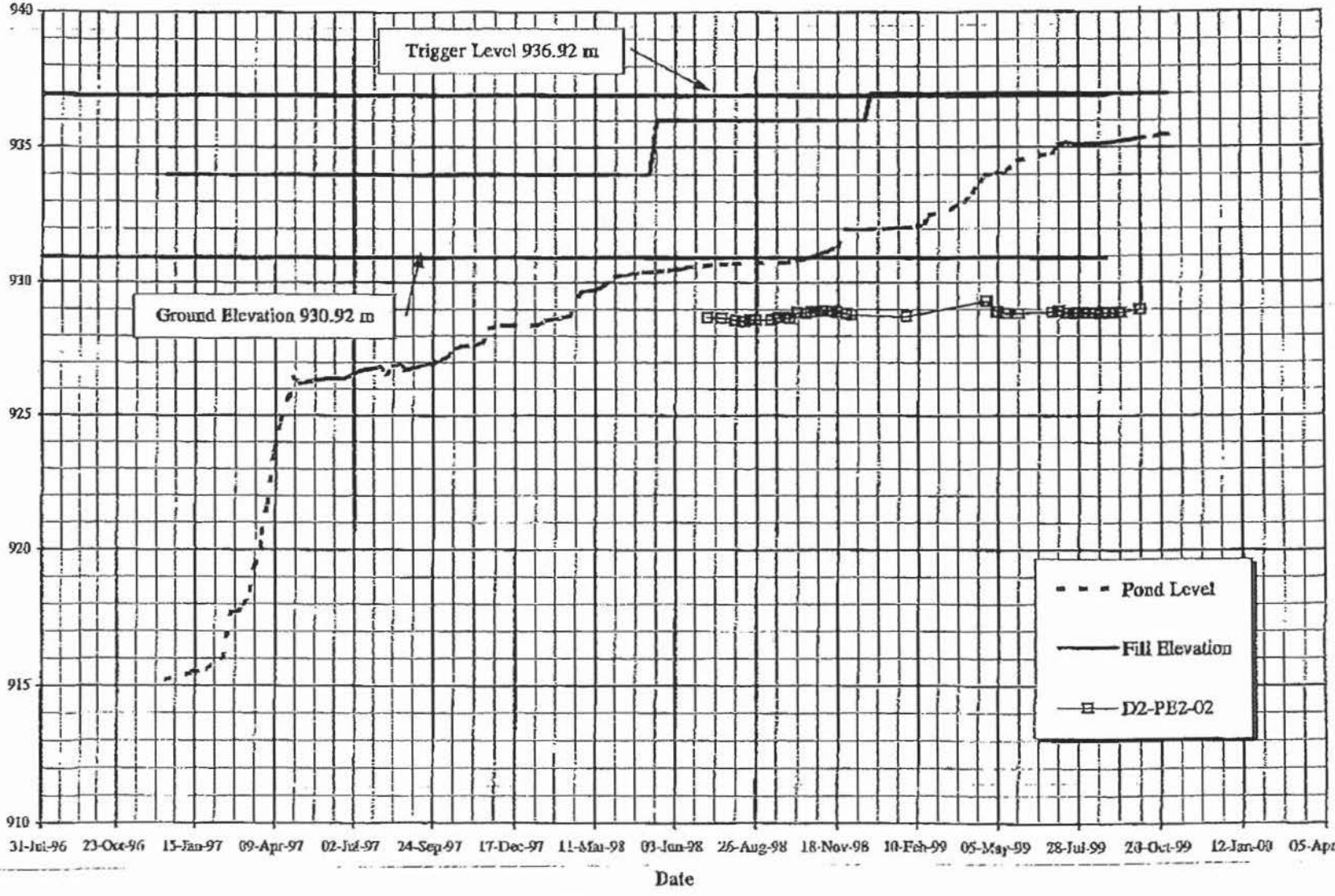
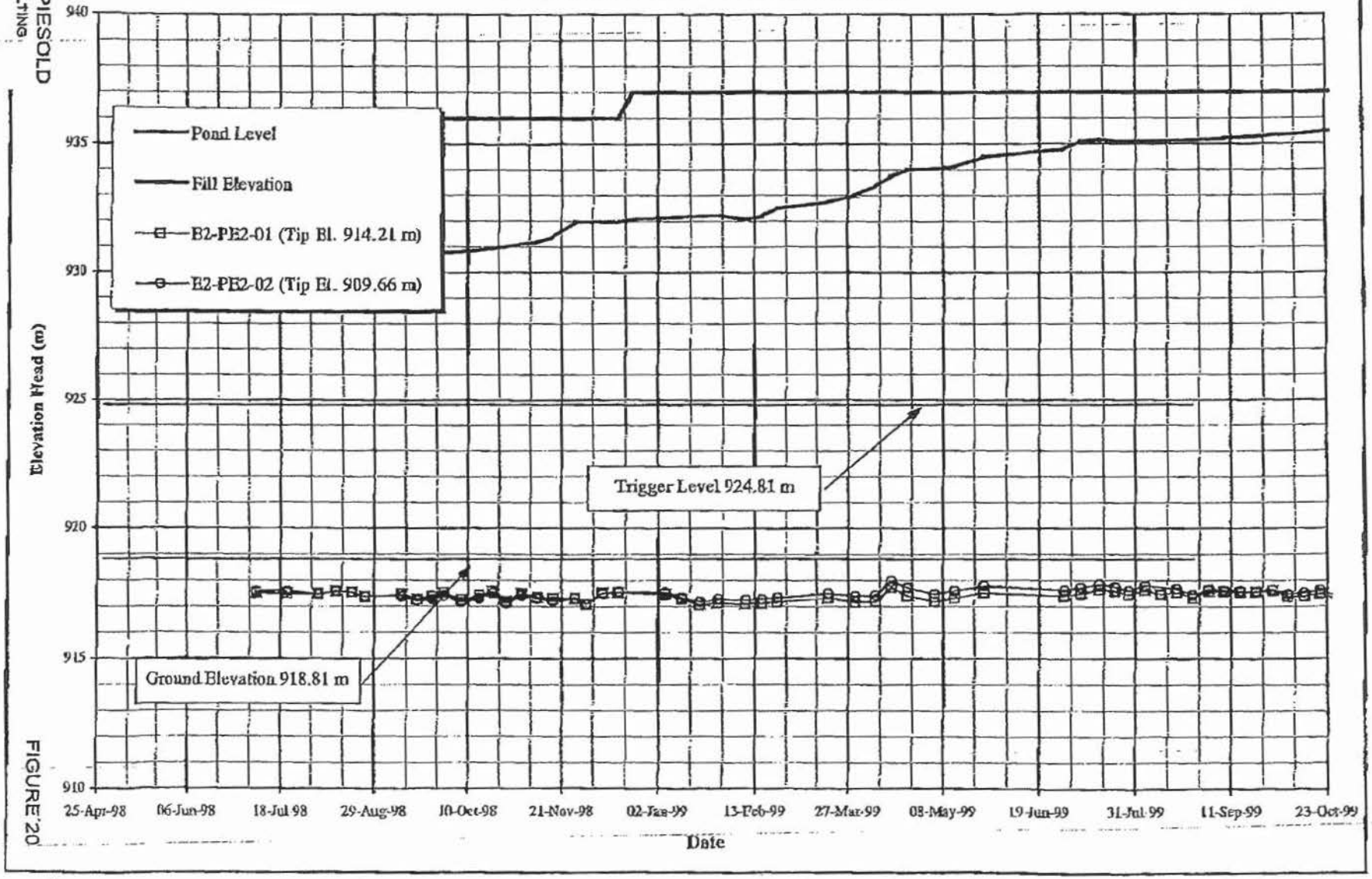


FIGURE 19

NOV-23-99 TUE 12:13 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P.28/44
NOV 23 '99 11:09 SS2/02 P.28/44
SNINIW YJJOP TNUOM INVESTIGATION\RCB-2 Page 1.11.pi500
604 685 0147 PAGE.028

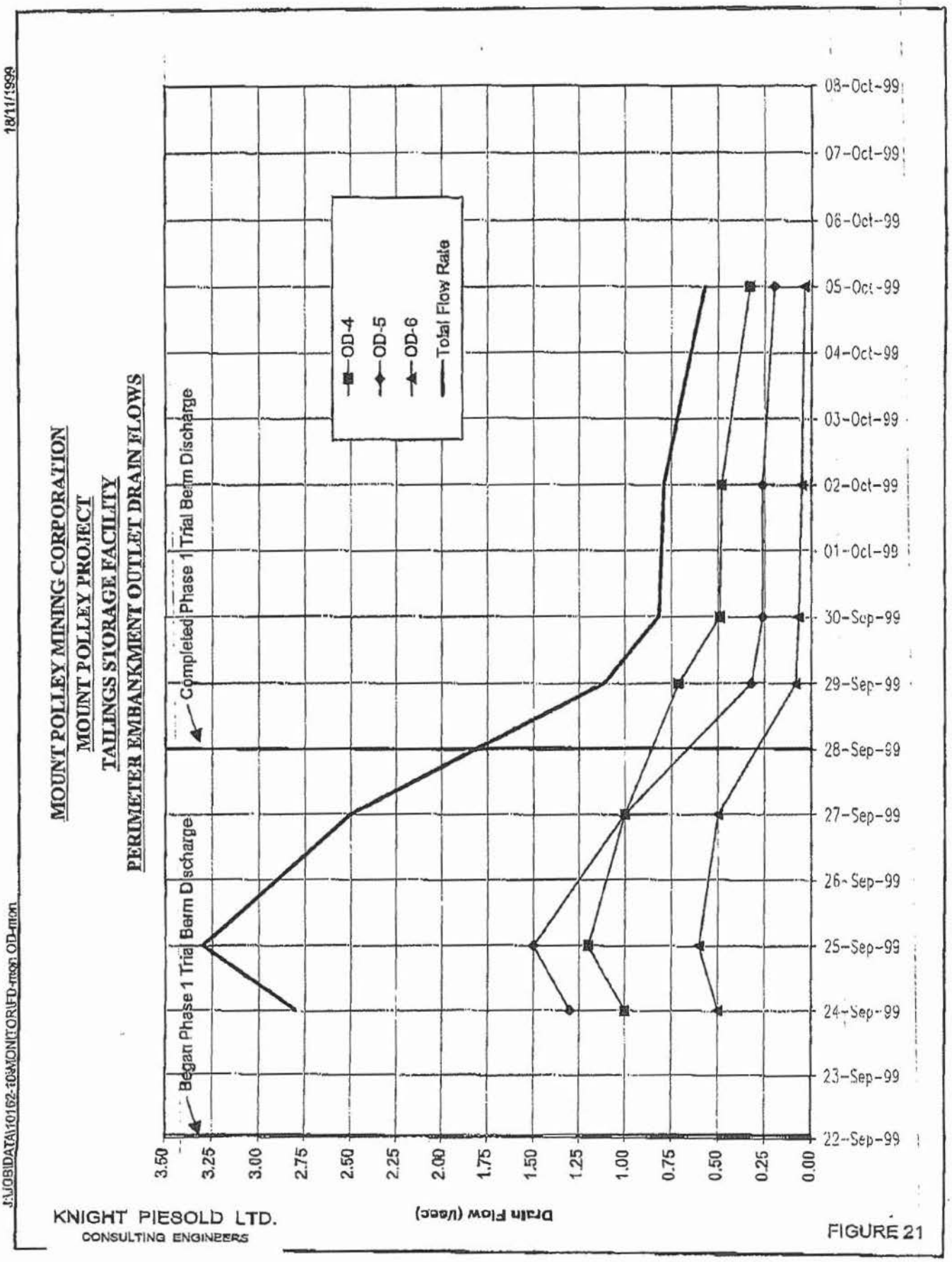
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE E FOUNDATION PIEZOMETERS



KNIGHT PIESOLD CONSULTING

FIGURE 20

NOV 23 '99 11:09 S2/12.P SEG.ON
NOV-23-99 TUE 12:13 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P.29/44
MOUNT POLLEY MINING INVESTIGATION KGS-2 Page 12 of 500 0104/12 05:20PM 1999.BI.NON
604 685 0147 P.029


MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY
PERIMETER EMBANKMENT OUTLET DRAIN FLOWS
18/11/1999
J:\JOBDATA\10162-10\MONITOR\FD-mon OD.mon
OD-4
OD-5
OD-6
Total Flow Rate
Began Phase 1 Trial Berm Discharge
Completed Phase 1 Trial Berm Discharge
08-Oct-99
07-Oct-99
06-Oct-99
05-Oct-99
04-Oct-99
03-Oct-99
02-Oct-99
01-Oct-99
30-Sep-99
29-Sep-99
28-Sep-99
27-Sep-99
26-Sep-99
25-Sep-99
24-Sep-99
23-Sep-99
22-Sep-99
3.50
3.25
3.00
2.75
2.50
2.25
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Drain Flow (l/sec)
KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS
FIGURE 21

NOV-23-99 TUE 12:14 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P. 31/44

NOV 23 '99 11:10 P.1
NO.941

TABLE 1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

MAIN EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

SAMPLING DATE	FD-1			FD-2			FD-3			FD-4			FD-5			Total Flow Rate			Pond El. (m)	GW96-9 (GW Well) Elev. Above Top of Casing el.well 9 (m)
	Flow Rate			Flow Rate			Flow Rate			Flow Rate			Flow Rate							
Date	(l/min)	(l/sec)	Comments	(l/min)	(l/sec)	Comments	(l/min)	(l/sec)	Comments	(l/min)	(l/sec)	Comments	(l/min)	(l/sec)	Comments	(l/min)	(l/sec)	Comments	Pond Elev.	
28-Aug-96	0.82	0.08	Clear	0.69	0.01	Clear	5.37	0.09	Clear	1.77	0.03	Tr. cloudy	-	-	-	12.25	0.20	FD-3, FD-4 incomplete		
01-Sep-96	1.53	0.06	Clear	0.82	0.01	Clear	6.56	0.11	Cloudy	1.25	0.02	V. Cloudy	-	-	-	12.18	0.20	FD-3, FD-4 incomplete		
05-Sep-96	1.66	0.04	Clear	0.62	0.01	Clear	2.71	0.05	Clear	0.93	0.02	Cloudy	-	-	-	6.16	0.11	FD-3, FD-4 incomplete		
10-Sep-96	1.04	0.03	Clear	0.66	0.01	Clear	2.17	0.04	Clear	0.31	0.01	Clear	-	-	-	5.65	0.09	FD-3, FD-4 incomplete		
27-Sep-96	3.10	0.05	Clear	0.90	0.01	Clear	3.10	0.05	Clear	1.00	0.02	Clear	-	-	-	7.90	0.13	FD-3, FD-4 incomplete		
05-Oct-96	5.94	0.08	Clear	0.77	0.01	Clear	4.53	0.07	Tr. cloudy	6.16	0.10	Tr. cloudy	-	-	-	16.20	0.27	FD-3, FD-4 incomplete		
12-Oct-96	3.90	0.07	Clear	1.00	0.02	Clear	3.50	0.06	Clear	1.80	0.03	Clear	-	-	-	10.80	0.17	FD-3, FD-4 incomplete	915.20	
13-Oct-96	4.10	0.07	Clear	0.90	0.02	Clear	13.50	0.23	Clear	1.70	0.03	Clear	-	-	-	20.20	0.34	FD-3 complete, FD-4 incomplete	915.50	
14-Oct-96	3.80	0.06	Clear	1.00	0.02	Clear	15.00	0.25	Clear	5.40	0.09	Clear	-	-	-	25.20	0.42	FD-3 complete, FD-4 complete	915.23	
17-Oct-96	3.90	0.10	Clear	0.80	0.01	Clear	16.80	0.28	Clear	5.40	0.09	Clear	-	-	-	28.70	0.48		915.44	
18-Oct-96	9.80	0.16	Clear	1.00	0.02	Clear	26.40	0.44	Clear	9.00	0.15	Clear	-	-	-	45.90	0.77		915.50	
23-Oct-96	4.10	0.10	Clear	0.60	0.01	Clear	20.60	0.34	Clear	5.90	0.10	Clear	-	-	-	33.39	0.56		915.03	
27-Oct-96	1.00	0.10	Clear	1.50	0.03	Clear	24.20	0.40	Clear	6.60	0.11	Clear	-	-	-	38.10	0.64		916.00	
15-Mar-97	1.89	0.06	Clear	1.35	0.02	Clear	8.95	0.15	Clear	3.19	0.05	Clear	-	-	-	17.34	0.29	pig installed, sump pumped out	918.00	
05-May-97	3.48	0.06	Clear	1.15	0.02	Clear	8.39	0.14	Clear	2.97	0.05	Clear	-	-	-	15.88	0.26	pig installed, sump pumped out	918.10	
02-Apr-97	2.90	0.04	Clear	1.12	0.02	Clear	8.40	0.14	Clear	3.46	0.06	Clear	-	-	-	15.93	0.25	pig installed, sump pumped out	920.27	
23-Apr-97	4.14	0.07	Clear	0.95	0.02	Clear	11.56	0.19	Clear	2.35	0.04	Clear	-	-	-	18.99	0.32	pig installed, sump pumped out	923.70	
24-Apr-97	3.16	0.05	Clear	0.84	0.01	Clear	12.78	0.21	Clear	2.05	0.03	Clear	-	-	-	18.78	0.31	pig installed, sump pumped out	923.35	
29-Apr-97	3.90	0.15	Clear	0.59	0.01	Clear	10.52	0.17	Clear	1.78	0.03	Clear	-	-	-	15.52	0.26	pig installed, sump pumped out	924.41	
04-May-97	3.60	0.06	Clear	0.76	0.01	Clear	14.13	0.24	Clear	1.92	0.03	Clear	-	-	-	20.43	0.34	pig out, pumped down	923.05	
13-May-97	8.04	0.07	Clear	0.79	0.01	Clear	14.85	0.25	Clear	1.93	0.03	Clear	-	-	-	25.61	0.36	pig out, pumped down	924.43	
20-May-97	4.11	0.07	Clear	0.77	0.01	Clear	17.09	0.28	Clear	1.85	0.03	Clear	-	-	-	23.82	0.40	pig out, pumped down	926.20	
28-May-97	3.99	0.07	Clear	0.80	0.01	Clear	15.71	0.26	Clear	1.87	0.03	Clear	-	-	-	22.37	0.37	pig out, pumped down	926.25	
10-Jun-97	4.15	0.07	Clear	0.82	0.01	Clear	18.35	0.31	Clear	1.89	0.03	Clear	-	-	-	25.21	0.42	pig out, pumped down	926.36	
17-Jun-97	4.10	0.07	Clear	0.78	0.01	Clear	19.99	0.33	Clear	1.85	0.03	Clear	-	-	-	25.66	0.44	pig out, pumped down	926.46	
24-Jun-97	3.97	0.07	Clear	0.84	0.01	Clear	17.74	0.29	Clear	1.83	0.03	Clear	-	-	-	23.88	0.40	pig out, pumped down	926.19	
04-Jul-97	3.93	0.07	Clear	0.69	0.01	Clear	14.72	0.25	Clear	1.73	0.03	Clear	-	-	-	21.07	0.35	pig out, pumped down	926.19	
08-Jul-97	4.05	0.07	Clear	0.72	0.01	Clear	18.07	0.30	Clear	1.88	0.03	Clear	-	-	-	24.72	0.41	pig out, pumped down	926.39	
15-Jul-97	4.11	0.07	Clear	0.89	0.01	Clear	17.38	0.26	Clear	2.24	0.04	Clear	-	-	-	22.61	0.38	pig out, pumped down	926.51	
22-Jul-97	4.06	0.07	Clear	0.91	0.02	Clear	15.53	0.26	Clear	2.05	0.03	Clear	-	-	-	22.45	0.38	pig out, pumped down	926.66	
29-Jul-97	4.00	0.07	Clear	0.85	0.01	Clear	20.48	0.34	Clear	2.11	0.04	Clear	-	-	-	27.84	0.46	pig out, pumped down	926.73	
05-Aug-97	4.13	0.07	Clear	0.79	0.01	Clear	18.35	0.31	Clear	1.97	0.03	Clear	-	-	-	25.24	0.42	pig out, pumped down	926.75	
18-Aug-97	4.12	0.07	Clear	0.78	0.01	Clear	24.19	0.40	Clear	2.02	0.03	Clear	-	-	-	31.11	0.52	pig out, pumped down	926.82	
20-Aug-97	4.13	0.07	Clear	0.76	0.01	Clear	15.95	0.27	Clear	1.80	0.03	Clear	-	-	-	22.64	0.38	pig out, pumped down	926.73	
26-Aug-97	4.02	0.08	Clear	0.76	0.01	Clear	18.73	0.31	Clear	1.92	0.03	Clear	-	-	-	26.05	0.43	pig out, pumped down	926.80	
03-Sep-97	4.48	0.07	Clear	0.76	0.01	Clear	16.93	0.28	Clear	1.76	0.03	Clear	-	-	-	23.95	0.40	pig out, pumped down	926.93	
09-Sep-97	4.57	0.08	Clear	0.75	0.01	Clear	16.04	0.27	Clear	1.81	0.03	Clear	-	-	-	23.17	0.39	pig out, pumped down	926.71	
17-Sep-97	4.62	0.08	Clear	0.77	0.01	Clear	16.31	0.28	Clear	1.76	0.03	Clear	-	-	-	23.86	0.40	pig out, pumped down	926.88	
23-Sep-97	4.64	0.08	Clear	0.78	0.01	Clear	17.35	0.30	Clear	1.83	0.03	Clear	-	-	-	25.00	0.42	pig out, pumped down	926.65	
02-Oct-97	4.78	0.08	Clear	0.81	0.01	Clear	16.36	0.28	Clear	1.86	0.03	Clear	-	-	-	24.22	0.40	pig out, pumped down	926.92	0.055
05-Oct-97	4.69	0.08	Clear	0.81	0.01	Clear	16.01	0.27	Clear	1.95	0.03	Clear	-	-	-	23.46	0.39	pig out, pumped down	926.97	0.065
16-Oct-97	5.14	0.09	Clear	1.11	0.02	Clear	17.86	0.30	Clear	2.34	0.04	Clear	-	-	-	26.42	0.44	pig out, pumped down	927.06	0.095
14-Oct-97	5.13	0.09	Clear	0.92	0.02	Clear	16.23	0.27	Clear	1.98	0.03	Clear	-	-	-	24.26	0.40	pig out, pumped down	927.23	0.095
06-Nov-97	5.31	0.09	Clear	1.20	0.02	Clear	17.70	0.30	Clear	2.39	0.04	Clear	-	-	-	26.63	0.45	pig out, pumped down	927.51	Frozen
11-Nov-97	4.90	0.08	Clear	0.66	0.01	Clear	18.58	0.31	Clear	1.87	0.03	Clear	-	-	-	26.00	0.43	pig out, pumped down	927.60	Frozen
21-Nov-97	4.37	0.07	Clear	0.76	0.01	Clear	17.91	0.30	Clear	1.79	0.03	Clear	-	-	-	24.83	0.41	pig out, pumped down	927.60	Frozen
28-Nov-97	4.14	0.07	Clear	0.77	0.01	Clear	18.13	0.30	Clear	1.85	0.03	Clear	-	-	-	24.94	0.42	pig out, pumped down	927.65	Frozen
04-Dec-97	4.05	0.07	Clear	0.55	0.01	Clear	17.67	0.29	Clear	1.78	0.03	Clear	-	-	-	24.33	0.41	pig out, pumped down	927.35	Frozen

NOV 23 '99 11:10 P.1
NO.941
POLLY MINING
INVESTIGATION KCB-2 Page 184 of 600
TO:KNIGHT PIESOLD
604 685 0147 PAGE.031

TABLE 1 (continued)

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

MAIN EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

02-Jan-98	3.81	0.06	Clear	0.74	0.01	Clear	16.30	0.27	Clear	1.73	0.03	Clear	-	-	-	22.58	0.38	pipe out, pumped down	928.10	Frozen
14-Jan-98	3.85	0.06	Clear	0.68	0.01	Clear	16.57	0.28	Clear	1.72	0.03	Clear	-	-	-	22.99	0.38	pipe out, needs pumping	928.25	Frozen
21-Jan-98	3.57	0.06	Clear	0.74	0.01	Clear	16.42	0.27	Clear	1.82	0.03	Clear	-	-	-	22.55	0.38	pipe out, needs pumping	928.30	Frozen
01-Apr-98	3.84	0.06	Clear	0.67	0.01	Clear	15.54	0.26	Clear	1.52	0.03	Clear	-	-	-	21.57	0.36	pipe out, pond pumped down	929.70	-
17-Apr-98	3.81	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	1.57	0.02	Clear	6.93	0.11	Clear	27.79	0.46	pipe out, pond pumped down	929.55	-
25-May-98	3.81	0.06	Clear	0.69	0.01	Clear	15.38	0.26	Clear	1.57	0.02	Clear	6.93	0.11	Clear	27.79	0.46	pipe out, pond pumped down	930.03	-
02-Jun-98	3.83	0.06	Clear	0.78	0.01	Clear	15.58	0.24	Clear	1.42	0.02	Clear	6.80	0.11	Clear	28.10	0.47	pipe out, pond pumped down	930.36	-
10-Jun-98	3.83	0.06	Clear	0.79	0.01	Clear	14.60	0.24	Clear	1.44	0.02	Clear	7.51	0.13	Clear	28.17	0.47	pipe out, pond pumped down	930.39	-
16-Jun-98	3.77	0.06	Clear	0.78	0.01	Clear	16.56	0.27	Clear	1.41	0.02	Clear	7.93	0.13	Clear	30.24	0.50	pipe out, pond pumped down	930.42	-
07-Jul-98	3.89	0.06	Clear	0.76	0.01	Clear	16.14	0.27	Clear	2.17	0.04	Clear	12.53	0.21	Clear	35.69	0.59	FD-5 is spilling onto FD-3 providing higher values than normal	930.45	
07-Jul-98	3.74	0.06	Clear	0.72	0.01	Clear	16.03	0.27	Clear	2.22	0.04	Clear	9.46	0.16	Clear	32.34	0.54	negative value is below top of casing	930.50	-0.835
24-Jul-98	3.53	0.06	Clear	0.72	0.01	Clear	15.75	0.26	Clear	1.96	0.03	Clear	8.50	0.15	Clear	30.66	0.51	-	930.58	0.28
12-Aug-98	3.46	0.06	Clear	0.67	0.01	Clear	15.96	0.27	Clear	1.99	0.03	Clear	7.30	0.12	Clear	29.24	0.49	-	930.61	0.33
19-Aug-98	3.17	0.05	Clear	0.56	0.01	Clear	15.83	0.26	Clear	2.26	0.04	Clear	8.68	0.13	Clear	29.90	0.50	-	930.64	-
10-Sep-98	3.19	0.06	Clear	0.57	0.01	Clear	16.35	0.27	Clear	2.01	0.03	Clear	8.92	0.15	Clear	30.57	0.51	-	930.70	-
17-Sep-98	3.53	0.06	Clear	0.63	0.01	Clear	16.42	0.27	Clear	2.20	0.04	Clear	8.52	0.14	Clear	31.30	0.52	-	930.73	-
24-Sep-98	3.62	0.06	Clear	0.66	0.01	Clear	15.64	0.26	Clear	2.06	0.03	Clear	7.77	0.13	Clear	29.73	0.50	-	930.77	-
07-Oct-98	3.73	0.06	Clear	1.05	0.02	Clear	14.22	0.24	Clear	2.16	0.04	Clear	13.39	0.22	Clear	36.74	0.53	positive value is above top of casing	930.81	0.18
15-Oct-98	3.81	0.06	Clear	1.10	0.02	Clear	14.53	0.24	Clear	2.36	0.04	Clear	15.83	0.26	Clear	37.84	0.63	-	930.87	
21-Oct-98	3.94	0.07	Clear	1.12	0.02	Clear	15.35	0.26	Clear	2.93	0.05	Clear	18.45	0.31	Clear	41.82	0.70	-	930.95	
17-Nov-98	KUA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Sump flooded, needs to be pumped		0.11	
27-Nov-98	4.23	0.07	Clear	1.04	0.02	Clear	14.28	0.24	Clear	2.35	0.04	Clear	11.76	0.20	Clear	33.62	0.56		931.35	-0.03
02-Dec-98	4.33	0.07	Clear	0.92	0.02	Clear	14.16	0.24	Clear	2.37	0.04	Clear	11.46	0.19	Clear	30.26	0.50		931.97	-0.03
09-Dec-98	4.34	0.07	Clear	0.79	0.01	Clear	16.56	0.28	Clear	2.01	0.03	Clear	9.78	0.16	Clear	33.49	0.56		931.97	Frozen
16-Dec-98	4.33	0.07	Clear	0.97	0.02	Clear	13.92	0.23	Clear	2.81	0.05	Clear	19.30	0.32	Clear	41.37	0.69		931.97	Frozen
22-Dec-98	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded, needs to be pumped down	931.99	Frozen
05-Jan-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded needs to be pumped down	932.00	Frozen
12-Jan-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded needs to be pumped down	932.02	Frozen
20-Jan-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded needs to be pumped down	932.03	Frozen
28-Jan-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded needs to be pumped down	932.05	Frozen
09-Feb-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded needs to be pumped down	932.06	Frozen
16-Feb-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded needs to be pumped down	932.07	Frozen
23-Feb-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded needs to be pumped down	932.08	Frozen
08-Mar-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded needs to be pumped down	933.08	Frozen
30-Mar-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded needs to be pumped down	934.08	Frozen
06-Apr-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA	Flooded needs to be pumped down	935.08	Frozen
29-Sep-99	SNA	SNA		SNA	SNA		SNA	SNA		SNA	SNA		26.60	0.44	Clear	SNA	SNA	FD-5 above sump water surface	935.34	

NOV 23 '99 11:11 146.ON POLLY MINING INVESTIGATION KCB-2 Page 135 of 600 604 685 0147 PAGE.032

NOV-23-99 TUE 12:15 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P. 33/44
NOV 23 '99 11:11 SESSION P.25/52
NOV.18.'99 12:05PM MOUNT POLLY MINING INVESTIGATION SESSION P.16 OF 500 E. 033

TABLE 2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

PERIMETER EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

H:\MINGDATA\Engdocs\Geotechnical\Weekly Piezo Readings\[FD-mon OD-mon.xls]OD-Mon

November 18, 1999

SAMPLING DATE	OD-4			OD-5			OD-6			Total Flow Rate		
	Flow Rate			Flow Rate			Flow Rate					
Date	OD4(l/min)	(l/sec)	Comments	OD5(l/min)	(l/sec)	Comments	OD6(l/min)	(l/sec)	Comments	Tot(l/min)	(l/sec)	Comments
17-Sep-99	#NA	#NA		#NA	#NA		#NA	#NA		-	-	Drains Flooded
24-Sep-99	60.00	1.00		78.00	1.30		30.00	0.50		168.00	2.80	Flows Estimated
25-Sep-99	72.00	1.20		90.00	1.50		36.00	0.60		198.00	3.30	Flows Estimated
27-Sep-99	60.00	1.00		60.00	1.00		30.00	0.50		150.00	2.50	Flows Estimated
29-Sep-99	42.60	0.71		19.20	0.32		4.92	0.08		66.72	1.11	* Flows Measured *
30-Sep-99	29.40	0.49		15.60	0.26		4.02	0.07		49.02	0.82	* Flows Measured *
02-Oct-99	28.80	0.48		15.60	0.26		3.00	0.05		47.40	0.79	* Flows Measured *
05-Oct-99	19.80	0.33		12.00	0.20		2.46	0.04		34.26	0.57	* Flows Measured *

11/12/1999 09:48 6045612087 MTS PAGE 01

MTS - MATERIALS TESTING SERVICES

Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

CLIENT Mount Polley Mining (1)

CC

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1NO

ATTN: s.22

PROJECT Mt. Polley - T.S.F. Stage 2C

SET NO. 1 NO. OF SPECIMENS 1 DATE RECEIVED 99.Oct.11 DATE CAST 99.Oct.08

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m²)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Nov.05	28	102.0	204.0	233	0.00817	28.5	

SPEC. STRENGTH	20.00 MPa	CONCRETE TEMP	°C	SLUMP	mm
CEMENT TYPE		AIR TEMP	°C	AIR CONTENT	%
CEMENT CONTENT	kg/m³	CAST TIME		DENSITY	
AGGREGATE SIZE	mm	CAST BY	CLIENT	PLASTIC	kg/m³
ADMIXTURE		MOLD TYPE	PLASTIC	HARDENED 2412	kg/m³
SUPPLIER		INITIAL CURING TEMP.: MAXIMUM	°C	MINIMUM °C	
MIX NO.	20MPA	LOCATION:			
TRUCK NO.		C-1-99 - LA-1st lift			
TICKET NO.		COMMENTS:			
BATCH TIME		25MPa concrete supplied			
LOAD VOLUME	m³				
CUMULATIVE VOL	m³				

TEST METHOD: CSA CAN 3 A23.2 UNLESS OTHERWISE NOTED

A ☒ B ☐ C ☐ D ☐ E ☐ F ☐

** TYPE OF FAILURE - RECORDED WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

Page 1 END OF REPORT

PER

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of the test results is provided only on written request.

RECEIVED TIME NOV.12. 10:48AM PRINT TIME NOV.12 12:53PM MOUNT POLLY MINING

NOV 23 '99 11:11

MTS - MATERIALS TESTING SERVICES

Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1NO

CLIENT Mount Polley Mining (1)
CC

ATTN: s.22

PROJECT Mt. Polley - T.S.F. Stage 2C

SET NO 4 NO. OF SPECIMENS 1 DATE RECEIVED 99.Oct.11 DATE CAST 99.Oct.08

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m^2)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Nov.05	28	102.0	204.0	257	0.00817	31.5	

SPEC. STRENGTH	20.00 MPa	CONCRETE TEMP	°C	SLUMP	mm
CEMENT TYPE		AIR TEMP	°C	AIR CONTENT	%
CEMENT CONTENT	kg/m^3	CAST TIME		DENSITY	
AGGREGATE SIZE	mm	CAST BY	CLIENT	PLASTIC	kg/m^3
ADMIXTURE		MOLD TYPE	PLASTIC	HARDENED 2402	kg/m^3
SUPPLIER		INITIAL CURING TEMP.: MAXIMUM	°C	MINIMUM °C	
MIX NO	20MPA	LOCATION: C-4-99 RA-1st lift			
TRUCK NO.					
TICKET NO.		COMMENTS: 25MPa concrete supplied			
BATCH TIME					
LOAD VOLUME	m^3				
CUMULATIVE VOL.	m^3				

TEST METHOD: CSA CAN 8 A23.2 UNLESS OTHERWISE NOTED

A B C D E F

** TYPE OF FAILURE - REQ'D WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

Page 1 END OF REPORT

PER

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MTS - MATERIALS TESTING SERVICES

Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1N0

CLIENT Mount Polley Mining (1)
CC

ATTN: s.22

PROJECT Mt. Polley - T.S.F. Stage 2C

SET NO. 5 NO. OF SPECIMENS 1 DATE RECEIVED 99.Oct.11 DATE CAST 99.Oct.08

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m2)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Nov.05	28	102.0	204.0	251	0.00817	30.7	

SPEC STRENGTH 20.00 MPa
CEMENT TYPE
CEMENT CONTENT kg/m³
AGGREGATE SIZE mm
ADMIXTURE
SUPPLIER
MIX NO. 20MPA
TRUCK NO.
TICKET NO
BATCH TIME
LOAD VOLUME m³
CUMULATIVE VOL. m³

CONCRETE TEMP °C
AIR TEMP °C
CAST TIME
CAST BY CLIENT
MOLD TYPE PLASTIC
INITIAL CURING TEMP.- MAXIMUM °C MINIMUM °C

SLUMP mm
AIR CONTENT %
DENSITY
PLASTIC kg/m³
HARDENED 2400 kg/m³

LOCATION:
C-5-99 ~ RA-1st pour

COMMENTS:
25mMPa concrete supplied

TEST METHOD: CSA CAN 3 A23#2 UNLESS OTHERWISE NOTED
A B C D E F
** TYPE OF FAILURE - REQ'D WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

Page 1 END OF REPORT

PER

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MTS - MATERIALS TESTING SERVICES

Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1NO

CLIENT / CC: Mount Polley Mining (1)

ATTN: s.22

PROJECT: Mt. Polley - T.S.F. Stage 2C

SET NO. 6 | NO. OF SPECIMENS 1 | DATE RECEIVED 99.Oct.11 | DATE CAST 99.Oct.08

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m2)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Nov.05	28	102.0	204.0	239	0.00817	29.3	

SPEC STRENGTH	20.00 MPa	CONCRETE TEMP	°C	SLUMP	mm
CEMENT TYPE		AIR TEMP	°C	AIR CONTENT	%
CEMENT CONTENT	kg/m³	CAST TIME		DENSITY	
AGGREGATE SIZE	mm	CAST BY	CLIENT	PLASTIC	kg/m³
ADMIXTURE		MOLD TYPE	PLASTIC	HARDENED	2407 kg/m³
SUPPLIER		INITIAL CURING TEMP.- MAXIMUM	°C	MINIMUM	°C
MIX NO.	20MPA				
TRUCK NO					
TICKET NO.					
BATCH TIME					
LOAD VOLUME	m³				
CUMULATIVE VOL.	m³				

LOCATION:
C-6-99 - RA-1st pour

COMMENTS:
25MPa concrete supplied

TEST METHOD: CSA CAN3 A23.2 UNLESS OTHERWISE NOTED

A B C D E P

** TYPE OF FAILURE - REQ'D WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

Page 1 END OF REPORT

PER

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MTS - MATERIALS TESTING SERVICES

Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1NO

CLIENT Mount Polley Mining (1)
CC

ATTN: s.22

PROJECT Mt. Polley - T.S.F. Stage 2C

SET NO. 8 NO. OF SPECIMENS 1 DATE RECEIVED 99.Oct.11 DATE CAST 99.Oct.09

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m²)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Nov.08	30	102.0	204.0	257	0.00817	31.5	

SPEC. STRENGTH	20.00 MPa	CONCRETE TEMP	°C	SLUMP	mm
CEMENT TYPE		AIR TEMP	°C	AIR CONTENT	%
CEMENT CONTENT	kg/m³	CAST TIME		DENSITY	
AGGREGATE SIZE	mm	CAST BY	CLIENT	PLASTIC	kg/m³
ADMIXTURE		MOLD TYPE	PLASTIC	HARDENED	2399 kg/m³
SUPPLIER		INITIAL CURING TEMP.: MAXIMUM	°C	MINIMUM	°C
MIX NO.	20MPA				
TRUCK NO.					
TICKET NO.					
BATCH TIME					
LOAD VOLUME					
CUMULATIVE VOL	m³ / m³				

LOCATION:
C-8-99 - LA-2nd pour

COMMENTS:
25MPa concrete supplied

TEST METHOD: CSA CAN 3 A23.2 UNLESS OTHERWISE NOTED

A B C D E F

** TYPE OF FAILURE - REQ'D WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

Page 1 END OF REPORT

PER

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of the test results is provided only on written request.

MTS - MATERIALS TESTING SERVICES

Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1NO

CLIENT Mount Polley Mining (1)
CC

ATTN: s.22

PROJECT Mt. Polley - T.S.F. Stage 2C

SET NO. 10 NO. OF SPECIMENS 1 DATE RECEIVED 99.Oct.11 DATE CAST 99.Oct.09

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m²)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Nov.08	30	102.0	204.0	263	0.00817	32.2	

SPEC STRENGTH	20.00 MPa	CONCRETE TEMP	°C	SLUMP	mm
CEMENT TYPE		AIR TEMP	°C	AIR CONTENT	%
CEMENT CONTENT	kg/m³	CAST TIME		DENSITY	
AGGREGATE SIZE	mm	CAST BY	CLIENT	PLASTIC	kg/m³
ADMIXTURE		MOLD TYPE	PLASTIC	HARDENED 2371	kg/m³
SUPPLIER		INITIAL CURING TEMP.: MAXIMUM	°C	MINIMUM	°C
MIX NO	20MPA	LOCATION: C-10-99 - RA-2nd pour			
TRUCK NO.					
TICKET NO.		COMMENTS: 25MPa concrete supplied			
BATCH TIME					
LOAD VOLUME	m³				
CUMULATIVE VOL.	m³				

TEST METHOD: CSA CAN3 A23.2 UNLESS OTHERWISE NOTED

A B C D E F

** TYPE OF FAILURE - REQ'D WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

Page 1 END OF REPORT

PER

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of the test results is provided only on written request.

MTS - MATERIALS TESTING SERVICES

Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1NO

CLIENT Mount Polley Mining (1)
CC

ATTN: s.22

PROJECT Mt. Polley - T.S.F. Stage 2C

SET NO. 11 NO OF SPECIMENS 3 DATE RECEIVED 99.Nov.01 DATE CAST 99.Oct.27

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m²)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Nov.03	7	102.0	204.0	203	0.00817	24.8	
B	Nov.24	28	102.0	204.0		0.00817		
C	Nov.24	28	102.0	204.0		0.00817		

SPEC STRENGTH	20.00 MPa	CONCRETE TEMP	°C	SLUMP	mm
CEMENT TYPE		AIR TEMP	°C	AIR CONTENT	%
CEMENT CONTENT	kg/m³	CAST TIME		DENSITY	
AGGREGATE SIZE	mm	CAST BY	CLIENT	PLASTIC	kg/m³
ADMIXTURE		MOLD TYPE	PLASTIC	HARDENED 2423	kg/m³
SUPPLIER		INITIAL CURING TEMP.: MAXIMUM	°C	MINIMUM °C	
MIX NO	20MPA	LOCATION: not given			
TRUCK NO.					
TICKET NO		COMMENTS: Cylinders received in laboratory 5 days after cast date.			
BATCH TIME					
LOAD VOLUME	m³				
CUMULATIVE VOL.	m³				

TEST METHOD: C39A CAN 3 A23.2 UNLESS OTHERWISE NOTED

A ☒ B ☒ C ☐ D ☐ E ▥ F ☐

** TYPE OF FAILURE - REQ'D WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

Page 1 END OF REPORT

PER

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of the test results is provided only on written request.

NOV 23 '99 11:13

NOV-23-99 TUE 12:11 PM KNIGHT PIESOLD FAX NO. 604 685 0141

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE S CONTROL TEST SUMMARY SHEET

A:\[C-2S-SUM.xl]Summary Table 18-Nov-99

Date Sampled	Sample No.	Location	Elev. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Lab m/c %	C3 (Particle Size Distribution) 152.4 mm 6	76.2 mm 3	38.1 mm 1.5	25.4 mm 1	19.05 mm 0.750	9.525 mm 0.375	4.7498 mm 0.187	3.3528 mm 0.132	1.1913 mm 0.047	0.594 mm 0.023	0.4191 mm 0.017	0.150 mm 0.006	0.0737 mm 0.003	C4 Standard Proctor Max Dry Density kg/m³	Optimum m/c %	C6 Specific Gravity
								6	3	1 1/2	1	3/4	3/8	#4	#6	#16	#30	#40	#100	#200			
3-Sep-99	C/ZS-1	Borrow Area 2, Exc. Face		17.5	25.5	8.0	-	100.0	100.0	100.0	100.0	98.7	93.0	86.1	83.8	78.2	74.1	71.4	61.1	52.8	2015	11.2	-
22-Sep-99	C/ZS-2	Borrow Area 2, Exc. Face		16.8	26.8	10.0	11.6	100.0	100.0	94.8	92.1	91.0	85.6	79.5	77.2	71.5	67.4	64.6	54.3	45.8	2042	10.6	-
MEAN				17.2	26.2	9.0	11.6	100.0	100.0	97.4	96.0	94.8	89.3	82.8	80.5	74.8	70.8	68.0	57.7	49.3	2029	10.9	#DIV/0!
MEDIAN				17.2	26.2	9.0	11.6	100.0	100.0	97.4	96.0	94.8	89.3	82.8	80.5	74.8	70.8	68.0	57.7	49.3	2029	10.9	#NUM!
MAXIMUM				17.5	26.8	10.0	11.6	100.0	100.0	100.0	100.0	98.7	93.0	86.1	83.8	78.2	74.1	71.4	61.1	52.8	2042	11.2	0.00
MINIMUM				16.8	25.5	8.0	11.6	100.0	100.0	94.8	92.1	91.0	85.6	79.5	77.2	71.5	67.4	64.6	54.3	45.8	2015	10.6	0.00

Notes:

1. Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

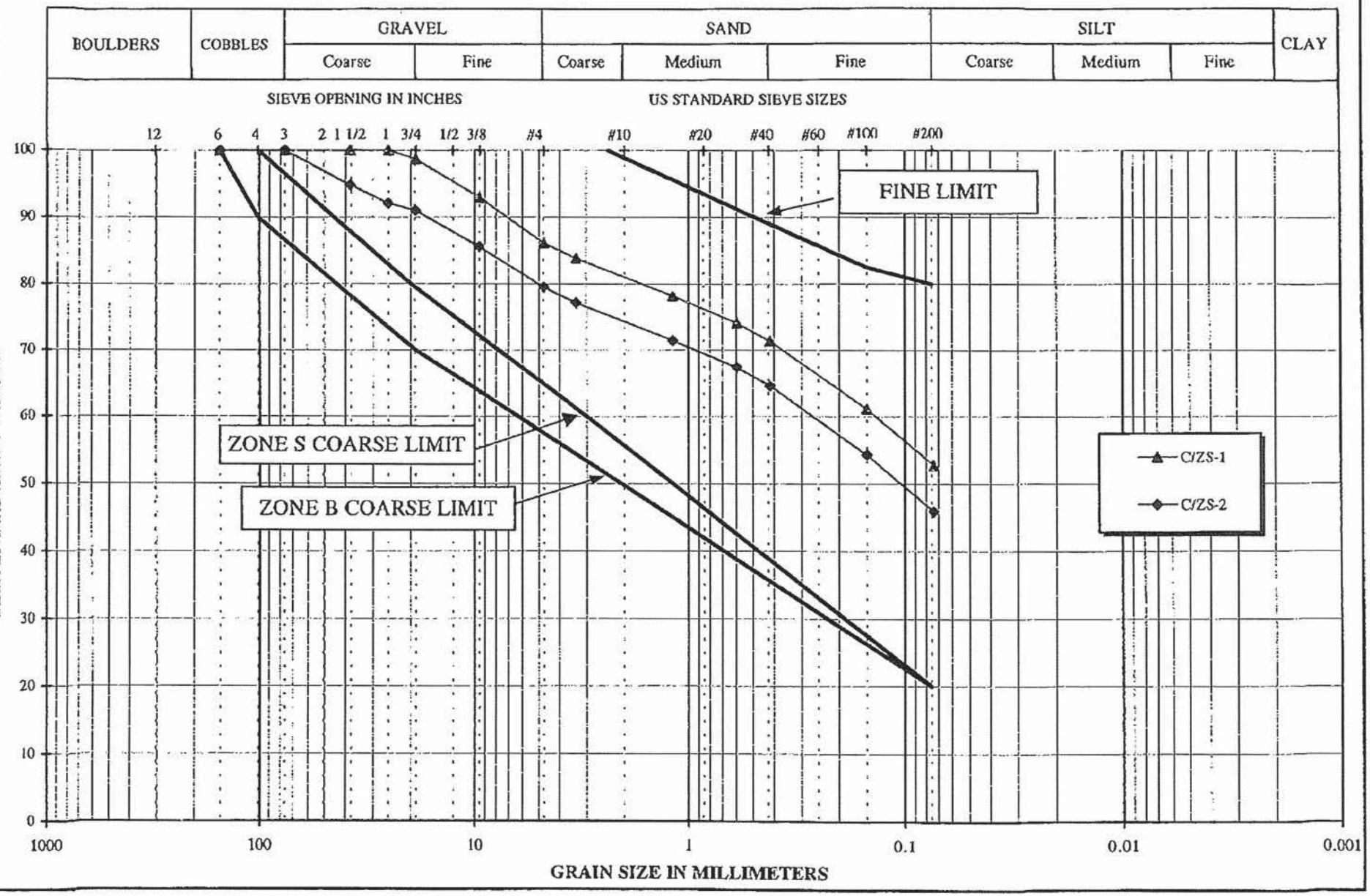
C1 Atterberg Limits (ASTM D4318)
C2 Moisture Content (ASTM D2216)
C3 Particle Size Distribution (ASTM D422)
C4 Laboratory Compaction (ASTM D1557)
C6 Bulk Specific Gravity (ASTM C127)

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P.41/44

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE S CONTROL SAMPLES - GRADATION CURVES

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS



NOV 23 '99 11:14
INVESTIGATION OF SEP-01 Page 125 of 502
NOV-23-99 TUE 12:11 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P. 42/44

NOV 23 '99 11:14

NOV-23-99 TUE 12:18 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P. 43/44

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE S RECORD TEST SUMMARY SHEET

A:\[R-ZS-SUM.xls]Summary Table 18-Nov-99

Date Sampled	Sample No.	Location	Elev. (m)	R1 Atterberg Limits PL %	LL %	PI %	R2 Field m/c %	R3 (Particle Size Distribution) 152.4 6	76.2 3	50.8 2	38.1 1.5	25.4 1.000	19.05 0.750	12.7 0.500	9.525 0.375	4.75 #4	2 #10	0.85 #20	0.425 #40	0.25 #60	0.15 #100	0.075 #200	R4 Standard Proctor Max Dry Density kg/m³	Optimum m/c %	R6 Specific Gravity
								6	3	2	1 1/2	1	3/4	1/2	3/8	#4	#10	#20	#40	#60	#100	Clay			
5-Oct-99	R-ZS-1	Zone S fill - fill #2, CH 30+13	-	17.9	29.1	11.2	11.1	100.0	100.0	97.9	95.4	92.1	88.5	80.1	73.0	67.8	63.6	58.9	56.1	51.5	56.7	44.3	2165	8.8	-
1-Nov-99	R-ZS-2	Zone S fill - fill #4, CH 31+38	-	16.4	27.7	11.3	11.5	100.0	100.0	98.0	97.0	95.7	93.7	90.0	85.4	80.3	75.1	70.7	66.6	60.9	53.1	45.0	2110	8.4	2.701
MEAN				17.2	28.4	11.3	11.3	100.0	100.0	98.0	96.2	93.9	91.1	85.1	79.2	74.1	69.4	64.8	61.4	56.2	54.9	44.7	2138	8.6	2.70
MEDIAN				17.2	28.4	11.3	11.3	100.0	100.0	98.0	96.2	93.9	91.1	85.1	79.2	74.1	69.4	64.8	61.4	56.2	54.9	44.7	2138	8.6	2.70
MAXIMUM				17.9	29.1	11.3	11.5	100.0	100.0	98.0	97.0	95.7	93.7	90.0	85.4	80.3	75.1	70.7	66.6	60.9	56.7	45.0	2165	8.8	2.70
MINIMUM				16.4	27.7	11.2	11.1	100.0	100.0	97.9	95.4	92.1	88.5	80.1	73.0	67.8	63.6	58.9	56.1	51.5	53.1	44.3	2110	8.4	2.70

Notes:

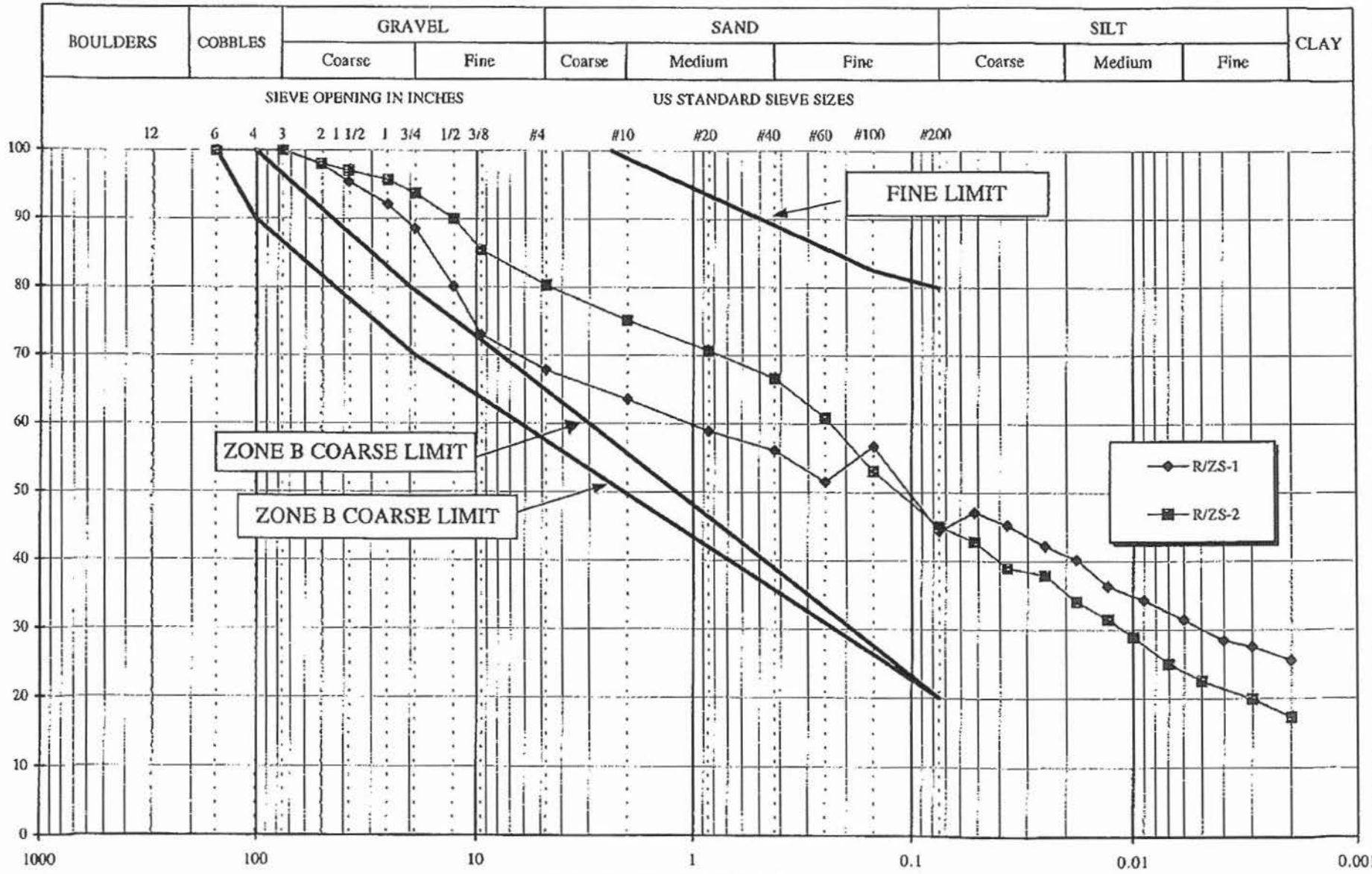
1. Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Bulk Specific Gravity (ASTM C127)

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604 685 0147 PAGE.043

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE S RECORD SAMPLES - GRADATION CURVES

KNIGHT PIESOLD LTD.
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NOV 23 '99 11:15
INVESTIGATION-KGP-2-Page 127 of 500
NOV-23-99 TUE 12:18 PM KNIGHT PIESOLD FAX NO. 604 685 0147 P.44/44
604.685.0147.044

MTPO BINDER

Knight Piésold CONSULTING	**DATE:** Nov 8, 1999	**FILE NO.:**	11162/10.F01/F02/F05/F07
	TIME:	**REF NO.:**	99-038
Knight Piésold, Mt. Polley Site *Fax: (250) 790-2268* *Phone: (250) 790-2215*	**OPERATOR:**	**PAGES:**	1 of 44
	SENDER: s.22	**APPROVED:**	

TO:	KP Vancouver	**FAX :**	604-685-0147
ATTN:	s.22		
CC:	George Headley, Ministry of Energy and Mines		
SUBJECT:	Mount Polley Stage 2C Construction Progress Report #5		

Dear John,

Please find attached Progress Report No. 5 for Stage 2C Construction at the Mount Polley Mine. This document is for the reporting period October 16 to 31, 1999.

Best Regards,

s.22

Ian Manning
Knight Piésold

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION
PROGRESS REPORT NO. 5
OCTOBER 16 TO 31, 1999

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 2C construction activities over the reporting period. Knight Piésold Ltd. (KP) carried out QA/QC activities over this period.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 (LAG), Senior Engineer (left site October 26)
- s.22 (IBM), Project Engineer (arrived on site October 25)

The following MPMC management personnel were on site during the reporting period:

- Eric LeNeve, Tailings Coordinator
- Don Parsons, Mine Superintendent

1.2 WEATHER

Conditions were generally mixed, with mostly cloudy skies over the reporting period. There were some sunny breaks near the end of October, and mixed snow and rain on October 27 and 28.

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CONSULTING

1.3 CONTRACT DEVELOPMENTS

Over the reporting period, MPMC awarded the remainder of Stage 2C construction to Peterson Contracting.

KP approved a construction modification proposed by MPMC, to allow for the solid toe drain trench upstream of the Perimeter embankment to be backfilled and nominally compacted with either Zone F filter sand or till.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

From October 16 to 19, tailings underflow (Zone CS) cycloned sand was discharged upstream of the Perimeter Embankment crest. On October 19 MPMC shut down all cycloning operations for 1999, at which time tailings beaches and/or cycloned sand had been established along approximately 90% of the upstream Perimeter embankment. As described in Progress Report No. 4, a design change was previously issued to allow for Zone B till material to be constructed upstream of the Perimeter embankment Zone S core, in place of the original design Zone CS cycloned sand.

A significant beach continues to be present upstream of the Main Embankment Zone CS. Wind erosion of the cycloned sand was not observed over the reporting period.

Over the reporting period, Eric LeNeve (MPMC) stated that it will probably not be possible to measure Main embankment foundation drain flows until Spring 2000. At that time a new pump will be installed within the seepage collection pond, allowing for the pond and sump water levels to be lowered below the foundation drain outlet levels.

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SECTION 2.0 - CONSTRUCTION ACTIVITIES

The following activities were carried out over the reporting period:

Cycloned Sand Operations

- Movement, maintenance, and removal of the tailings lines and 20" cyclones on the Perimeter Embankment.

- Maintenance and optimization of cyclones, and Stage 2C discharging of Zone CS cycloned sand along the u/s Perimeter Embankment (suspended cycloning operations on October 19).

Downstream Cycloned Sand Trial

- A second phase containment berm was placed upstream of the initial rockfill containment berm. The second phase containment berm was constructed from cycloned sand, to approximately the same height as the Phase 1 rockfill berm.

- Cycloning within the Phase 2 downstream trial berm took place between October 15 and 19. Cyclones #1 and #3 were used to discharge within the trial berm area, the same cyclones as used during Phase 1 deposition.

Upstream Toe Drains and Outlet Pipes

- The area along the Main Embankment upstream toe drain trench was cleared and dewatered in preparation for toe drain pipe installation. Zone F filter sand bedding was placed within the Main embankment u/s toe drain trench, followed by placement of the perforated CPT toe drain, and a 2 meter wide by 1 meter deep Zone F filter sand surround.

- The Main embankment left and right abutment outlet pipes were connected to the seepage pond conveyance pipes. Trenches were excavated to connect the pipes, and new sections of solid CPT conveyance pipes were installed between the outlet and original conveyance pipes. The trenches

were bedded to 150mm with Zone F filter sand, with additional sand placed to 500mm above the pipes. Till material was then placed and plate compacted to surface.

- The Perimeter embankment right abutment upstream toe drain outlet pipe was installed. The downstream seepage collar was bedded in a filter sand/bentonite mix and backfilled with a 10% till/bentonite mix. Zone F filter sand was placed 1m u/s and 2m d/s of this seepage collar to surface. The remainder of the pipe and seepage collars were encased in 25 MPa mass concrete. Between the filter sand and upstream seepage collar, fiber-reinforced concrete was supplied and poured to surface. Both upstream of the first seepage collar and downstream of the filter sand, standard concrete was poured to 200mm above the outlet pipe level. In addition, the T-fitting connection to the upstream toe drain was also encapsulated within concrete.

- Within the Zones B and S sections of the Perimeter embankment right abutment outlet trench, the trench walls were cut back, and till material was placed and compacted in 300mm lifts to surface. Within the downstream access road section of the outlet trench, Zone T rockfill was placed within the trench. Downstream of the access road, the outlet pipe will route flows into a trench, which will be extended to the Perimeter embankment seepage collection pond.

- A trench was excavated within original ground upstream of the Perimeter embankment, for positioning of the non-perforated u/s toe drain between the Main and Perimeter embankments. The solid CPT toe drain was installed within the trench, which was backfilled and plate compacted with the excavated till materials. In an area adjacent to the Perimeter embankment right end outlet trench, the solid u/s toe drain was backfilled and nominally compacted with Zone F filter sand material.

Stage 2C Embankment Construction

- Foundation preparation from CH 28+00 to CH 28+60 of the Perimeter embankment, as well as at the Main embankment right abutment.

- Zone B & S fill placement and compaction was carried out by Peterson Contracting on October 27. Work was carried out within the Perimeter embankment area from CH 28+00 to CH 28+60 (lifts #1 and 2), and from CH 30+65 to CH 30+85 (lift #4).

- Overburden stripping within Borrow Area #2.

- Along the Main embankment, 1 meter height of Zone CS cycloned sand was pushed over the u/s toe drain and filter sand, to the upstream Zone S contact.

- Dozer work was carried out to push down the cycloned sand piles along the upstream Perimeter embankment.

Fill Placement Summary

Embankment Zone	Volume Placed over Period (m^3)	Total Volume to Date (m^3)	Total Volume Required (m^3)	Percent Complete (%)
S (till core)	520	3,280	65,000	5.0
B (till)	2,070	14,320	32,000	44.8
CBL (rockfill)	0	0	18,600	0
F (filter sand)	2,300	2,300	2,300	100.0

Note: Fill volumes required for Stage 2C construction have been updated to include for the Perimeter embankment upstream CBL and Zone CS/B design change.

Miscellaneous

- Zone T rockfill was placed upslope of the bio-solids containment area to create a pad for the off-loading of the bio-solids transport trucks.

- Road upgrading at the "5-corners" intersection was carried out for truck access to the bio-solids area.

- The tailings facility reclaim barge was relocated approximately 40 meters upstream within the barge channel.

SECTION 3.0 - KNIGHT PIÉSOLD ACTIVITIES

3.1 GENERAL

KP activities over the reporting period included the following:

Downstream Cycloned Sand Trial

- The Plane D and F piezometers within downstream trial berm were monitored daily and the piezometer plots were updated.

- Phase 2 cycloning operations were monitored within the downstream trial area.

- Seepage was observed through the Phase 1 rockfill berm toe at the northwest corner of the cycloned sand trial area. Also during cycloned sand deposition, the Phase 2 sand berm was breached by bulk tailings discharge through a cyclone underflow.

Upstream Toe Drains and Outlet Pipes

- Inspected the preparation, dewatering and toe drain installation within the Main Embankment upstream toe drain trench.

- Inspected installation of the solid u/s toe drain pipe between the Main and Perimeter embankments, as well as the Perimeter embankment right abutment outlet pipe installation.

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Stage 2C Embankment Construction

- Geologic sections through Borrow Area #2 were sent to KP Vancouver, for creation of AutoCAD sections and inclusion of surveyed existing status borrow geometry.

- Piezometer Planes A, B, and C upstream crest piezometer stands were relocated to the upstream Zone S contact, prior to dozing of cycloned sand over the u/s toe drain.

- Foundation conditions were approved for Zones B/S fill placement along the Perimeter embankment CH 28+00 to CH 28+60.

- Nuclear densometer record testing was carried out on all placed and compacted Zone B and S materials, to measure achieved field dry density and moisture content values. The minimum acceptable field density requirement for compacted Zone B material is 92% of Standard Maximum Dry Density (SMDD), and 95% SMDD for Zone S core material. Densometer testing confirmed that the required compaction specifications were achieved.

Miscellaneous

- Progress Report No. 4 was issued for the reporting period October 1 to 15, 1999.

- Daily summaries of QA/QC and construction activities were submitted to MPMC.

- KP Vancouver sent preliminary Stage 3 construction fill quantities to Eric LeNeve (MPMC) for budgeting purposes.

- Leon Gous reviewed the site water balance with Greg Smyth (MPMC).

- Leon Gous inspected the tailings pipeline at the fist 180 degree bend from the mill, at the location of a wear hole.

- Two vibrating wire piezometer leads were damaged during installation of the Main embankment u/s toe drain. These leads were repaired over the reporting period with splice kits.

- Vibrating wire piezometer A1-PE1-04 was installed within the Main embankment u/s toe drain. This piezometer was installed within Zone F filter sand material at instrumentation Plane A.

- A Site Memo was issued to MPMC, summarizing KP on-site work activities to be carried out during the period October 28 to November 2.

- Faxes were sent to RST and SINCO, requesting quotes for supply of Stage 2C vibrating wire piezometers. MPMC ordered the ten (10) required piezometers from SINCO.

3.2 MONITORING

3.2.1 General

On-going monitoring of instrumentation was continued over the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

3.2.2 Vibrating Wire Piezometers

The Perimeter Embankment instrumentation Planes D and F piezometers within the downstream cycloned sand trial berm were monitored daily by Knight Piésold, and are presented on Figures 1 to 10. As shown on these plots, piezometric pressures are still dissipating marginally and indicate virtually drained conditions following completion of the first phase cycloned sand deposition within the downstream trial area on 28-Sept-99.

MPMC representatives read all other active TSF piezometers on October 20, 27 and November 3. The following observations are based on the summary data shown on Figures 11 to 20.

- Foundation Piezometers
  All foundation piezometers have generally remained static and have not reacted to placement of upstream Zone CS material.

- Fill Piezometers
  Pore pressures in the vicinity of B2-PE2-03 (Zone S), C2-PE2-05 (Zone S) and A2-PE2-03 (Zone B) have increased, likely as a result of Zone CS placement. The remainder of the piezometers placed in the engineered fill have remained relatively static.

- Drain Piezometers
  All piezometers located within the drains have remained static. This indicates that the drains are free draining and are functioning as designed.

- Tailings Piezometers
  Plane C tailings piezometers were reacting to the rise in pond level until they stopped functioning at the end of May, 1999. Plane B tailings piezometers continue to mimic the pond level, while the tailings piezometers at Plane A have reacted to the placement of Zone CS material.

3.2.3 Drain Flows

Due to the high water level in the Seepage Collection Pond at the Main Embankment, the outlets of the foundation drains have been flooded, and the flows have not been recorded since December 22, 1998. MPMC plans to lower the level of the pond in Spring 2000, to continue monitoring of all foundation drain flows. Measured foundation drain flows are summarized on Table 1.

MPMC constructed small weirs at the Main Embankment Outlet Drains to monitor Chimney Drain flows. No data has been collected due to the low observed flow levels.

The flows from outlet drains OD-4, 5, and 6 were measured on October 5, since then the water level in the Perimeter Embankment Seepage Collection Pond has been too high to measure flows from the outlet drains. The flows, summarized on Table 2 and Figure 21, increased during the first phase

cycloned sand deposition within the downstream trial berm, and began dissipating prior to completion of cycloned sand discharge.

3.2.4 Standpipe Piezometer Levels

The water level in standpipe piezometer GW96-9 (downstream of the right abutment of the Main Embankment) has not been monitored this season due to a break in the pipe. The pipe will be repaired in the future and readings will recommence.

3.2.5 Survey Monuments

New survey points will be installed following the completion of Stage 2C construction in order to measure any settlements prior to the beginning of Stage 3 Construction.

3.3 QA/QC and Laboratory Testing

Over the reporting period, bi-weekly composite samples of overflow and underflow were collected by MPMC from each cyclone. In addition, bi-weekly composite sampling of the mill feed was carried out. All bi-weekly composite cycloned sand underflow, overflow and mill feed tailings samples are tested by MPMC personnel.

Ten (10) concrete test cylinders were previously cast during backfilling of the Main embankment outlet pipe trenches. These cylinders were delivered to the MTS laboratory for compressive strength testing after periods ranging from 3 to 28 days. Test results for four (4) samples were received over the reporting period, with results indicating that the design objectives are being met or exceeded.

During installation of the Main embankment right end outlet pipe, three (3) additional concrete test cylinders were collected and sent to MTS laboratories for compressive strength testing.

As requested by MPMC, filter sand Control sample C/ZFS-6 was collected from the fine ore stockpile and tested over the reporting period. Particle size analysis determined that this material does not contain sufficient fines, and was deemed unsuitable for use as Zone F filter sand material.

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Over the reporting period, three (3) Zone F filter sand Record samples R/ZFS-1, 2, and 3 were collected from the Main embankment upstream toe drain. Particle size analyses were carried out on all samples, which all generally met the gradation specifications. Although Record sample R/ZFS-2 was found to be slightly coarser than the coarse gradation limit, it still met the applicable filter relationships with adjacent construction materials. All Zone F Record samples were therefore considered acceptable as Zone F construction material.

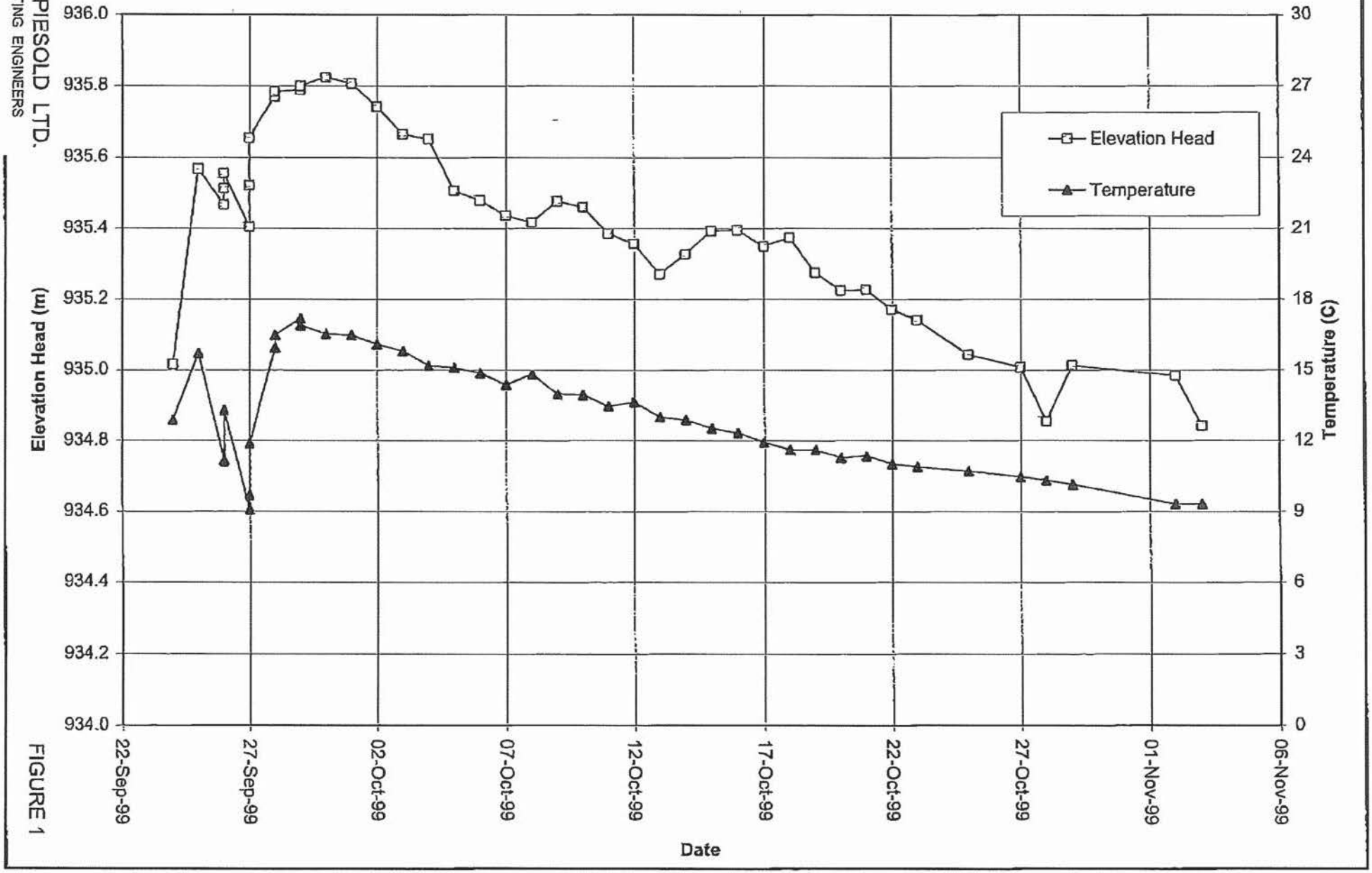
Submitted by,

s.22

Knight Piésold

Distribution: Eric LeNeve, Tailings Coordinator, MPMC, Site
Don Parsons, Mine Superintendent, MPMC, Site
George Headley, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, Project Director/John Wilkinson, Project Manager, KP Vancouver

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-02
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 935.02m)

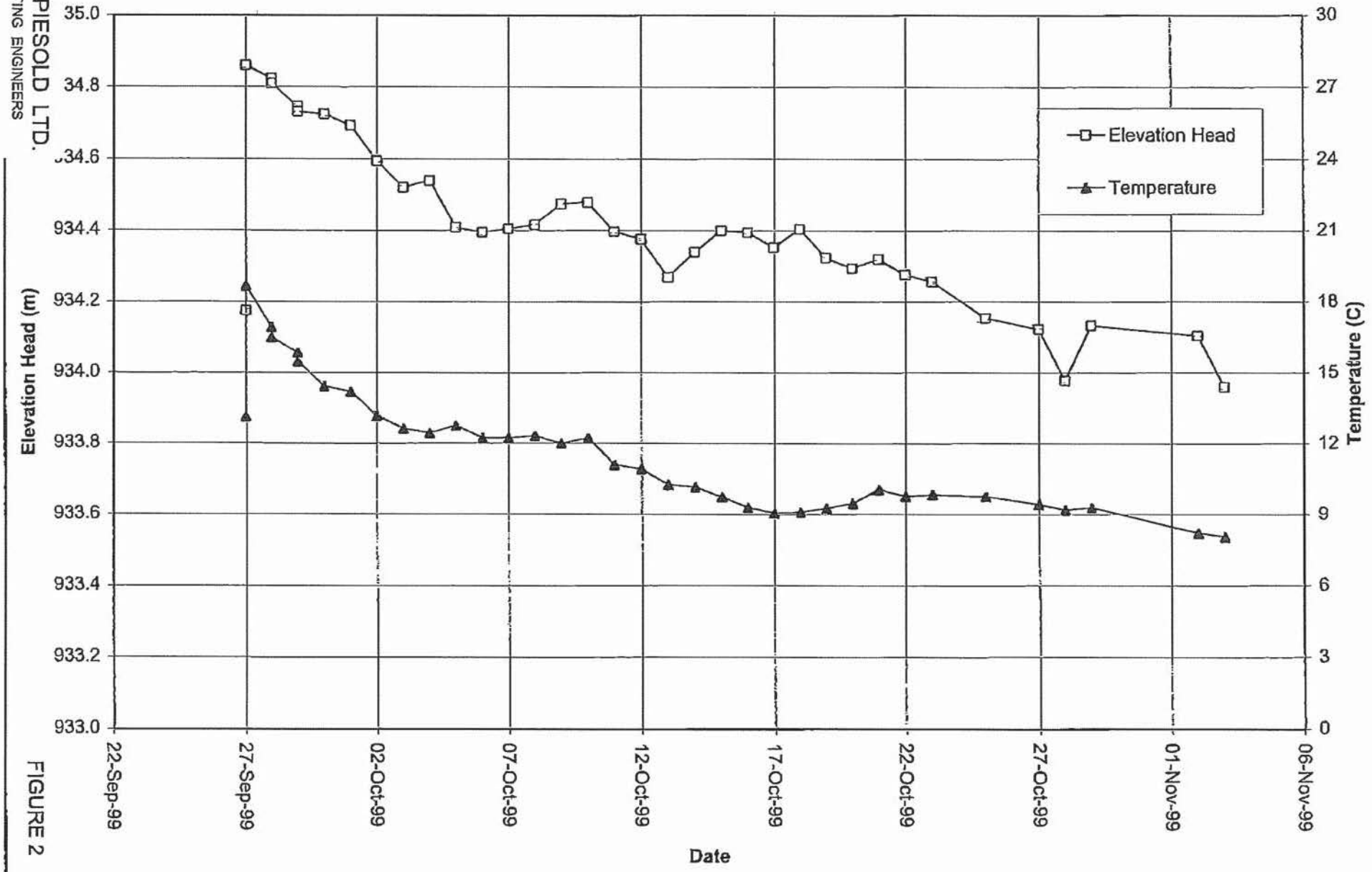


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FIGURE 1

NOV 08 '99 13:33
INVESTIGATION\SCB-2 Page 140 of 500 250/550 2268 PAGE.013

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-03
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 934.17m)



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FIGURE 2

NOV 08 '99 13:33 P.014
INVESTIGATION KSB-2 Page 141 of 500

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-04
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 933.27m)

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

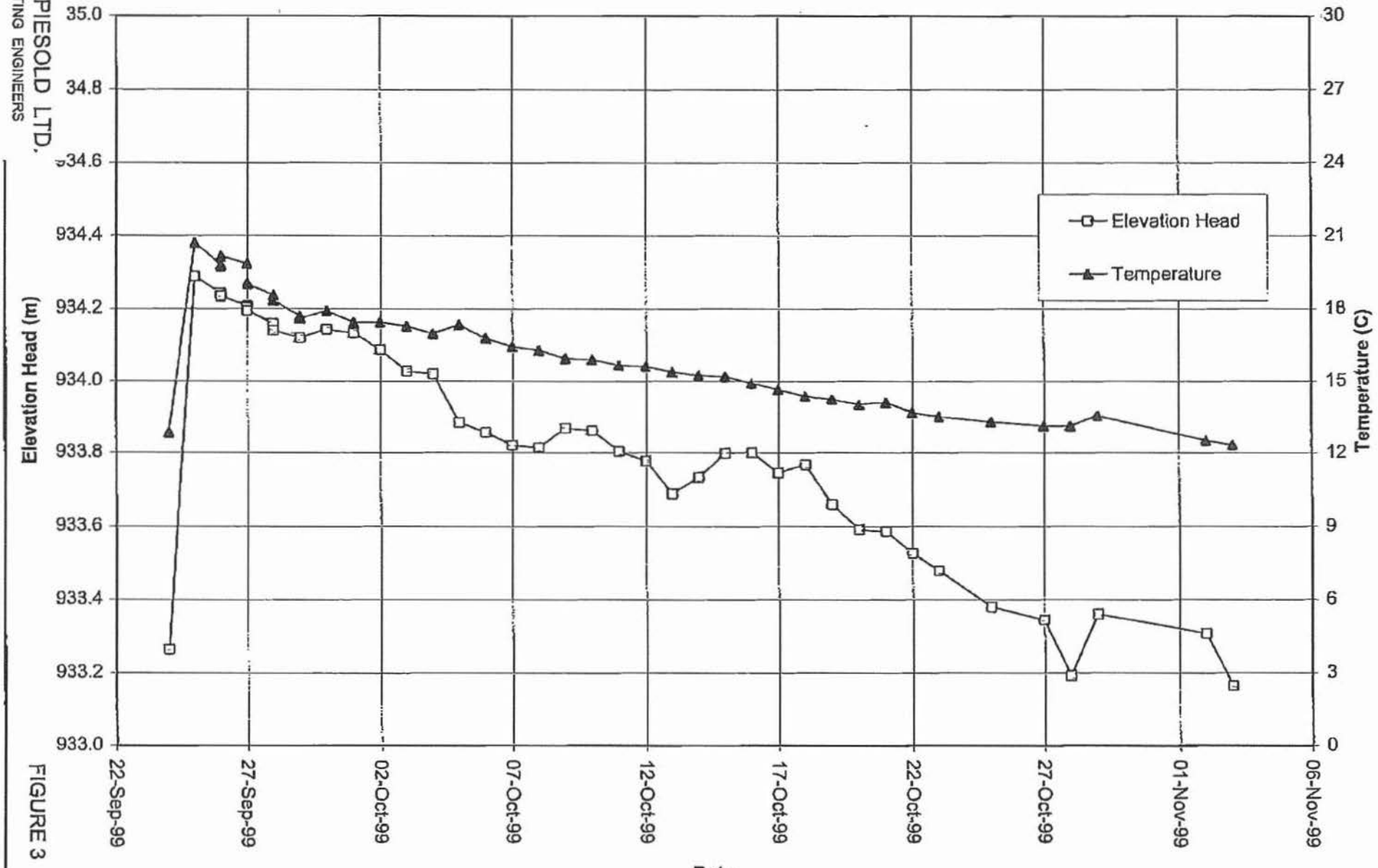


FIGURE 3

NOV 08 '99 13:34
INVESTIGATION KGB-2 Page 142 of 500
250 790 2268 PAGE.015

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-05
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.36m)

KNIGHT PIESOLD LTD.
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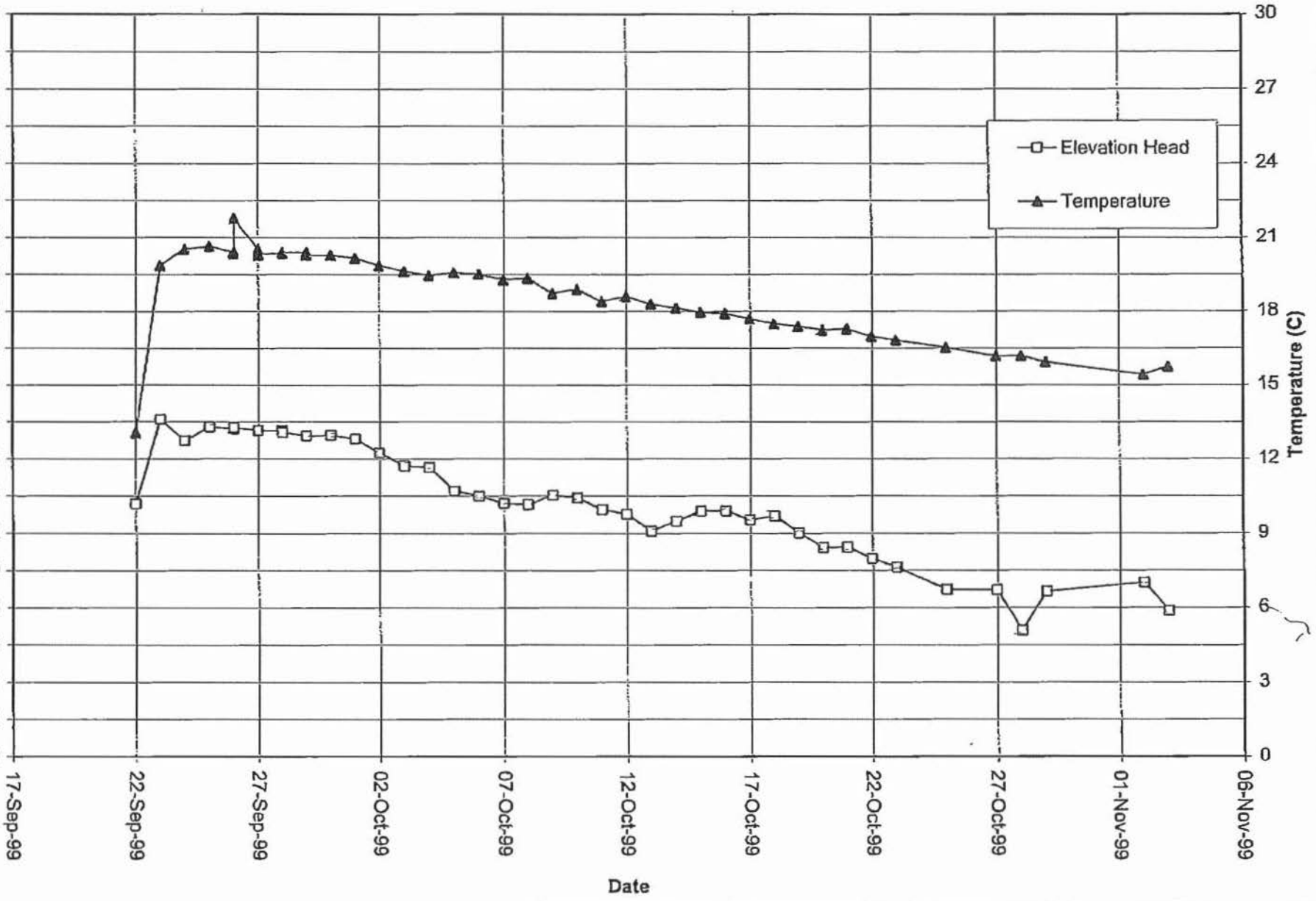
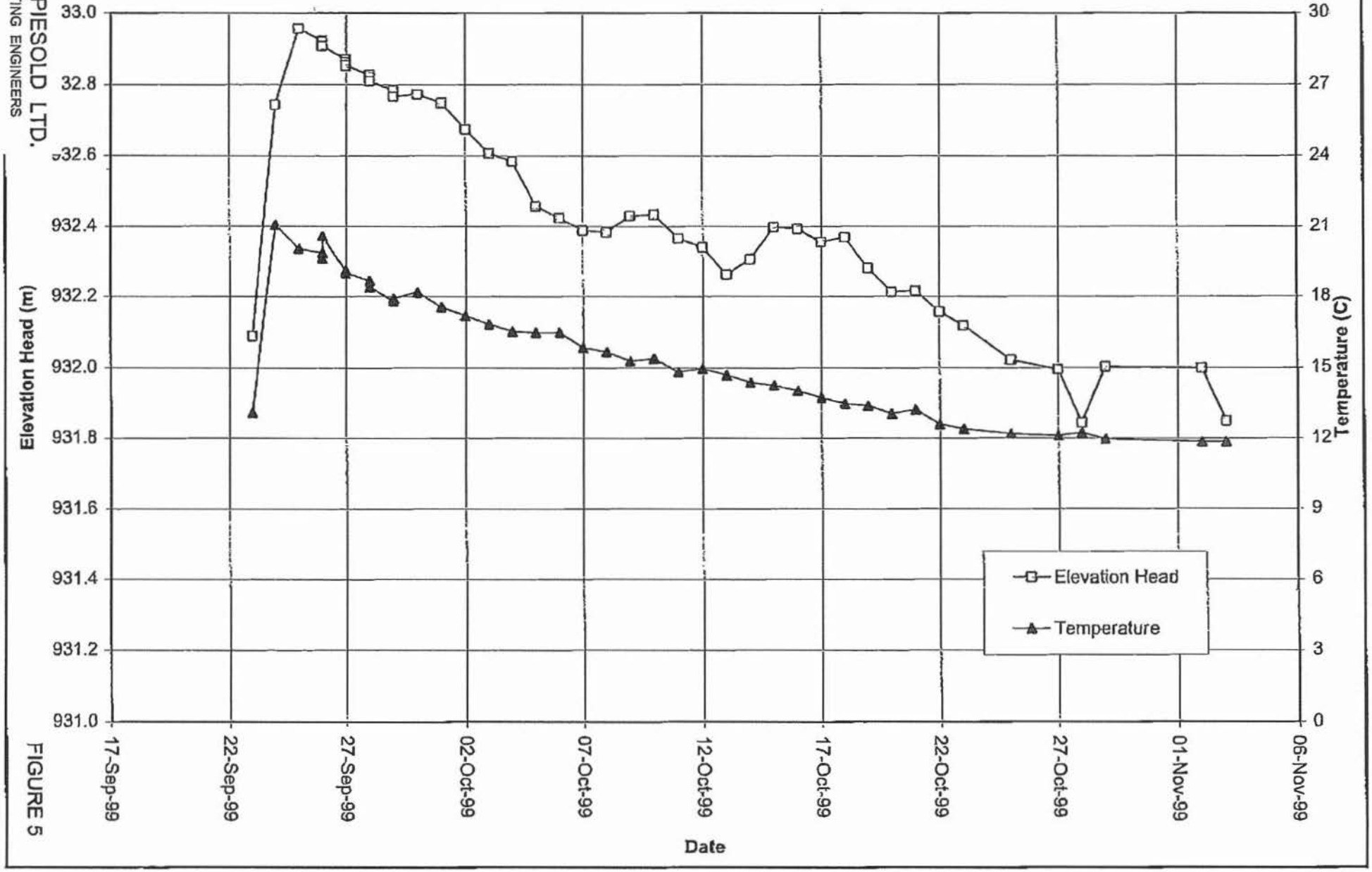


FIGURE 4

NOV 08 '99 13:34
INVESTIGATION KCB-2 Page 143 of 500
250 790 2268 PAGE.016
NOV. 8.1999 2:28PM MOUNT POLLY MINING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-06
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.09m)

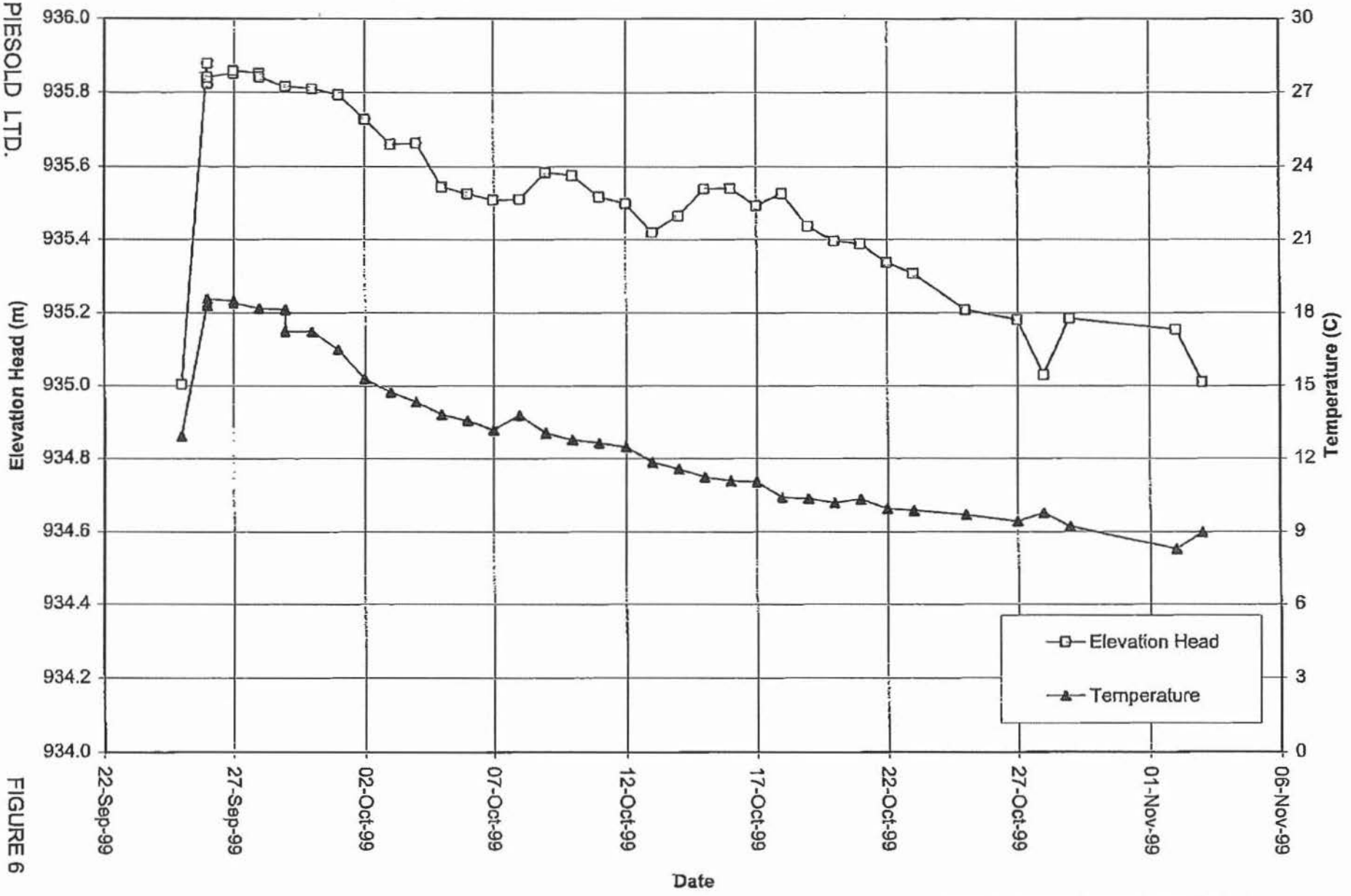


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FIGURE 5

NOV 08 '99 13:34
INVESTIGATION KCB-2 Page 144 of 500 PAGE.017
250/90 2268

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-01
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 935.00m)

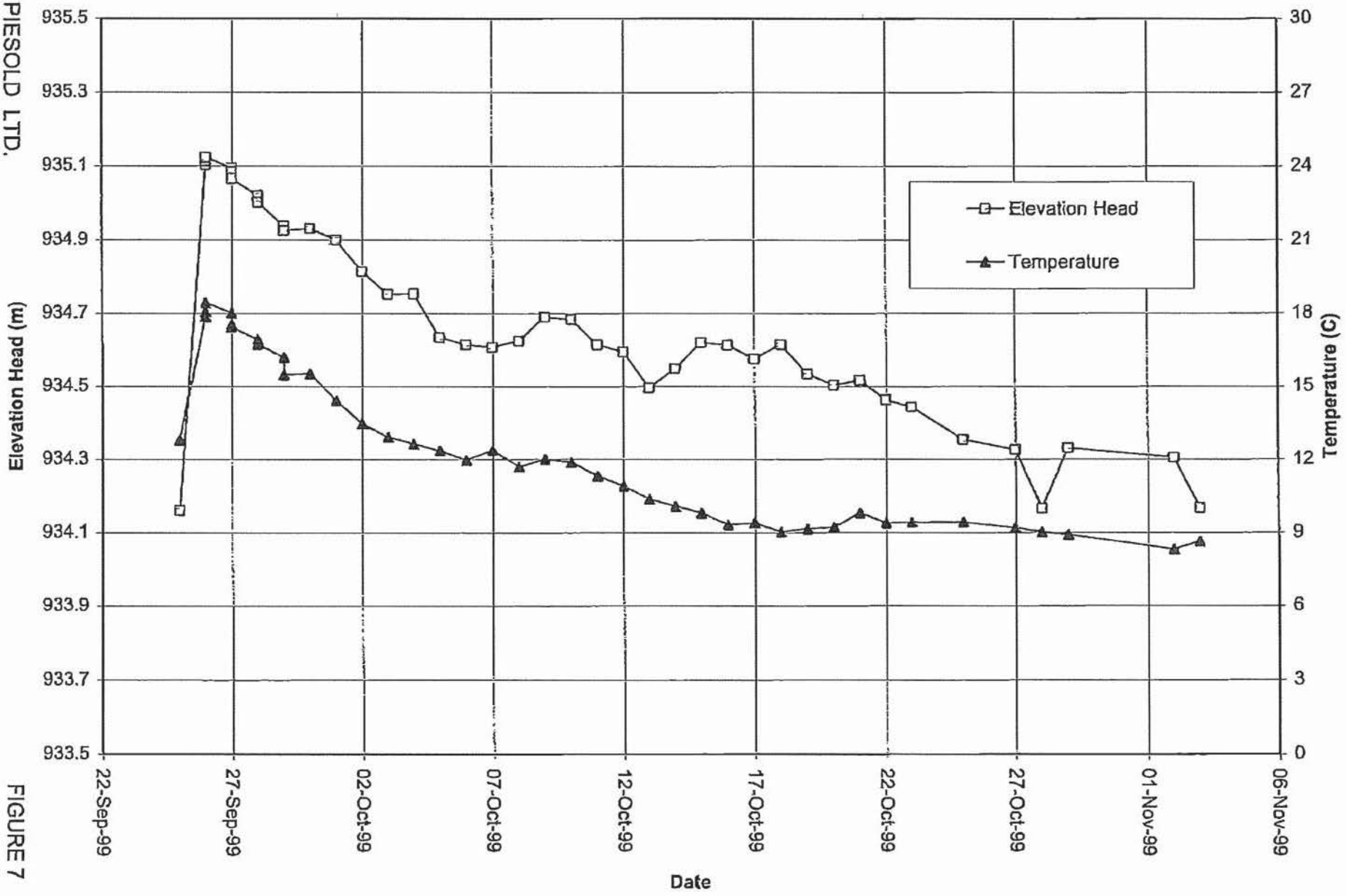


KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

FIGURE 6

NOV 08 '99 13:34
INVESTIGATION KSB-2 Page 145 of 500 250/KSB 22688.018

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-02
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 934.16m)

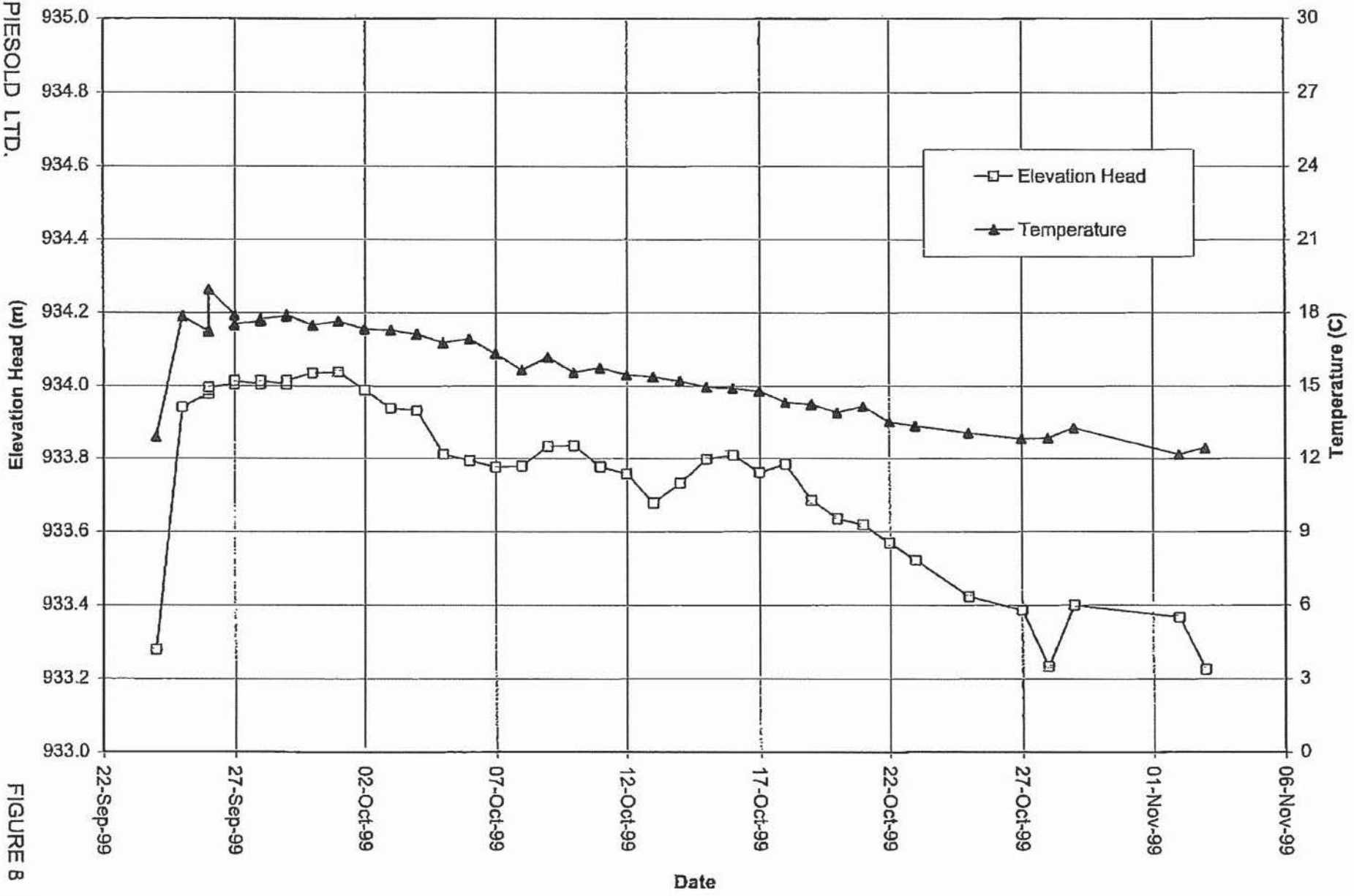


KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

FIGURE 7

NOV 08 '99 13:34
INVESTIGATION HOLE 2 Page 46 of 500 .019

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-03
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 933.28m)



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FIGURE 8

NOV 08 '99 13:35
INVESTIGATION KGB-2 Page 147 of 500 250/90 2268 PAGE.020
NOV. 8.1999 - 2:27PM MOUNT POLLEY MINING NO.995

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-04
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.38m)

KNIGHT PIESOLD LTD.
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FIGURE 9

NOV 08 '99 13:35
INVESTIGATION KCB-2 Page 148 of 500
250 790 2268 PAGE.021
NOV. 8.1999 2:27PM MOUNT POLLEY MINING NO.036 P.044

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-05
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.10m)

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

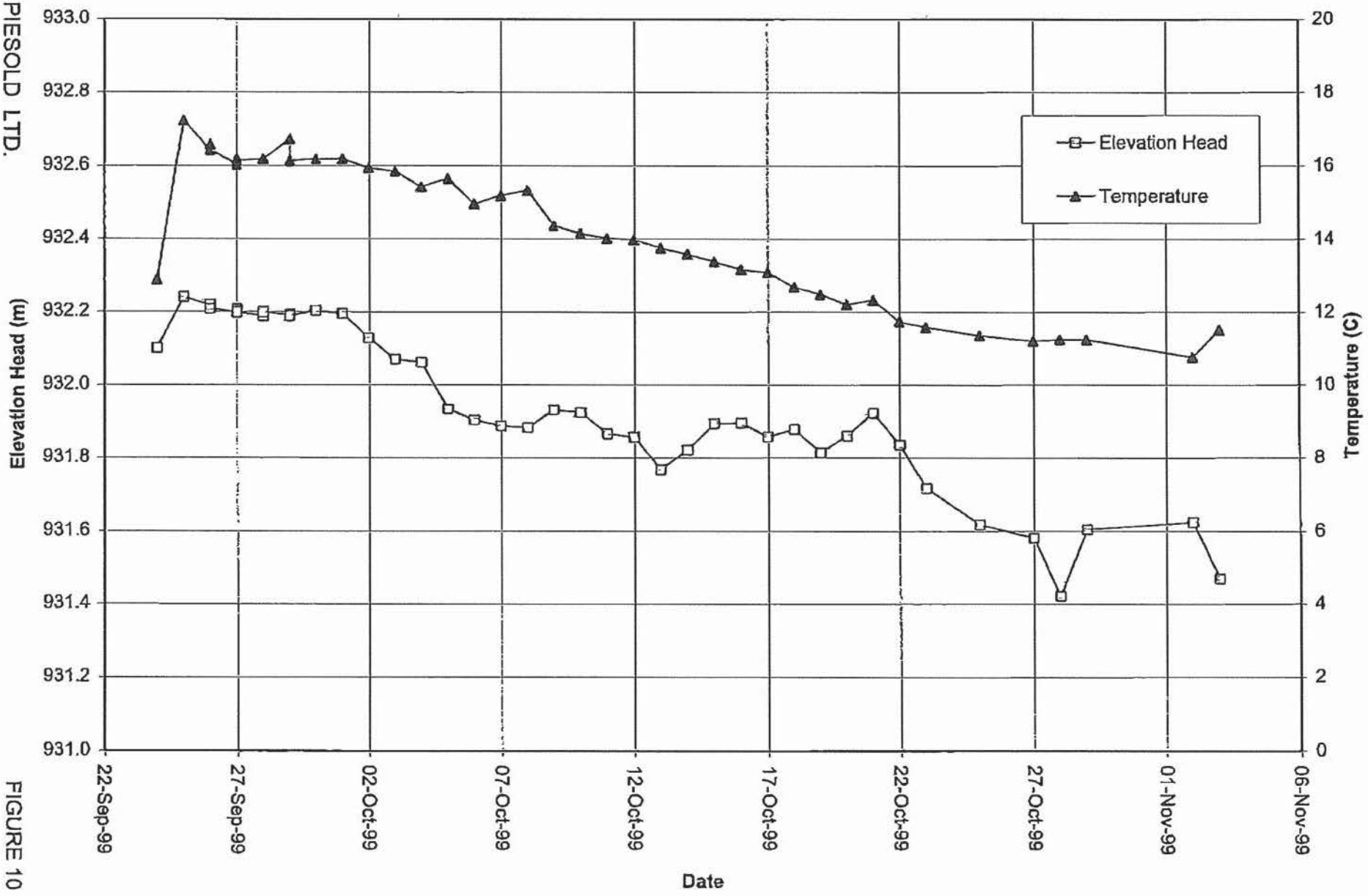
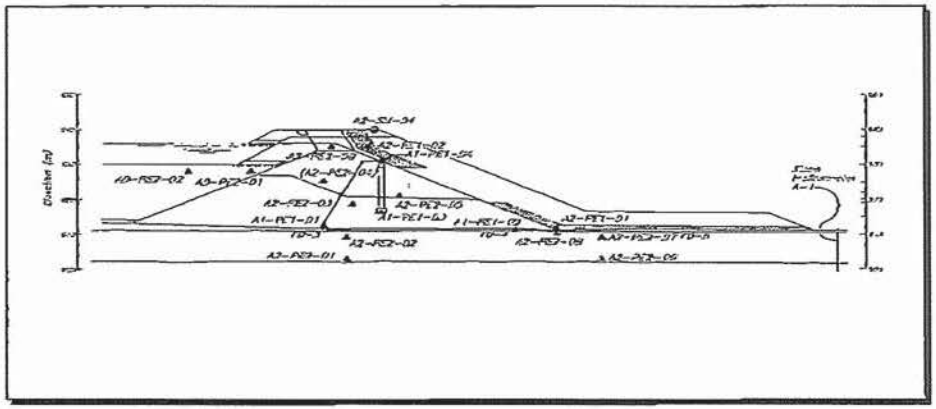
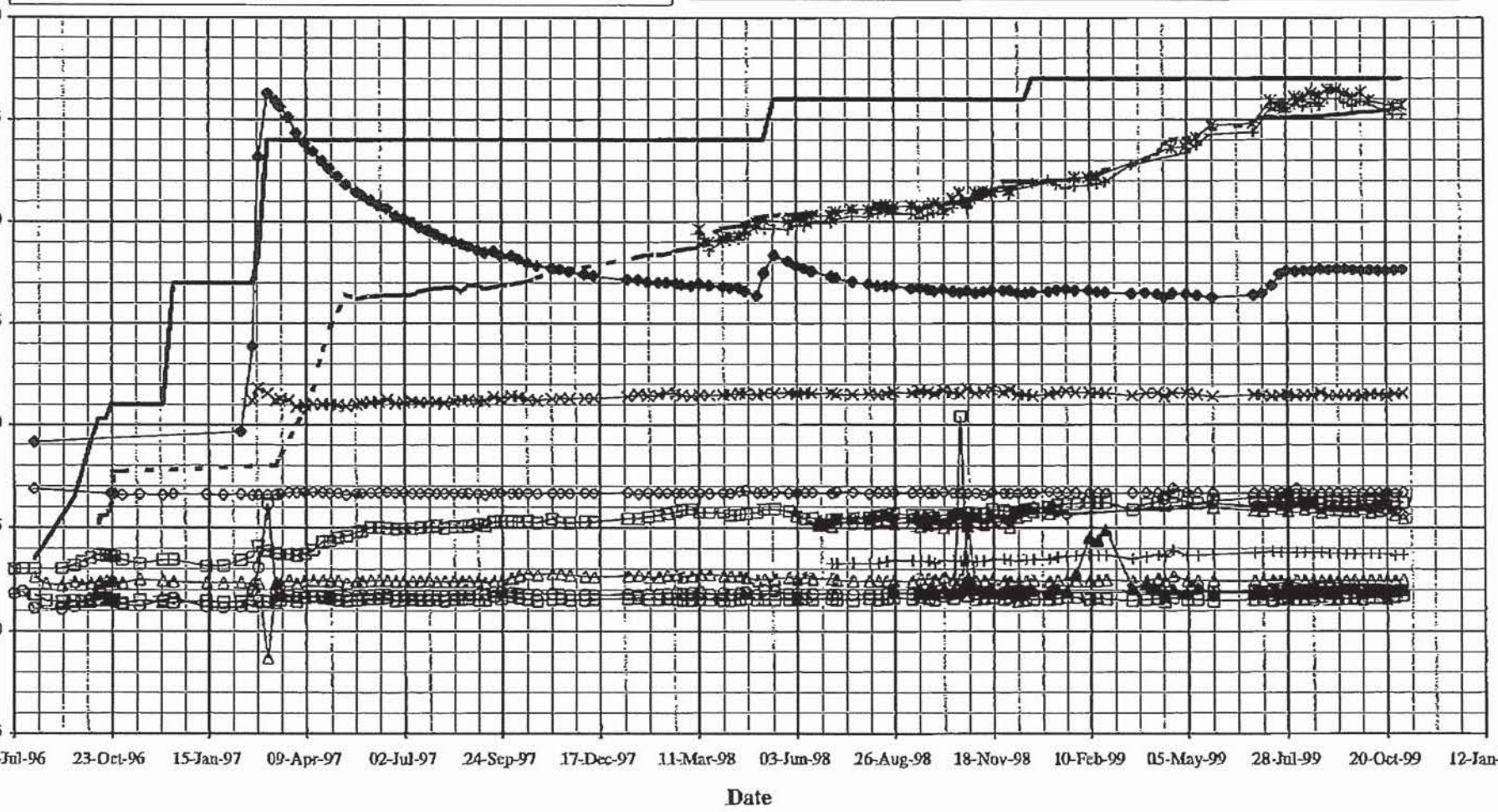


FIGURE 10

NOV 08 '99 13:35 INVESTIGATION KGB-2 Page 149 of 500 250 790 2268 PAGE.022
NOV. 8.1999 2:27PM MOUNT POLLEY MINING NO.022 P.22/44

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS





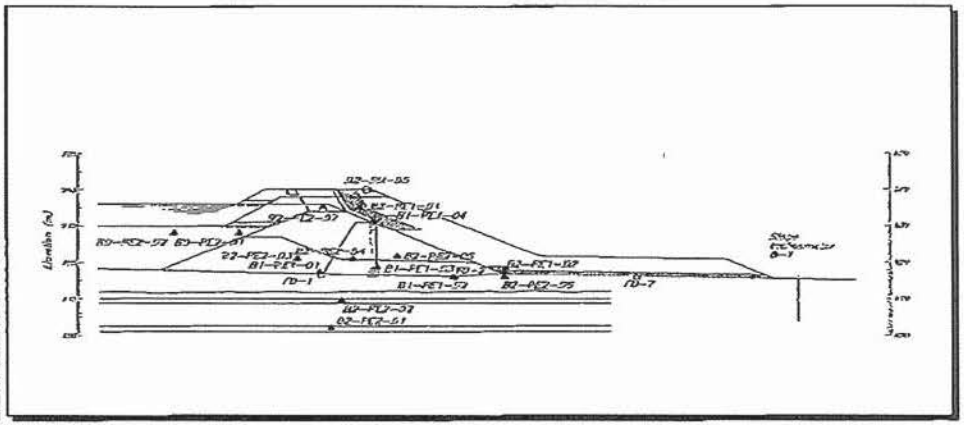
KNIGHT PIESOLD CONSULTING

FIGURE 11

NOV 08 '99 13:35
INVESTIGATION KCB-2 Page 150 of 500
250 790 2268 PAGE.023

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS



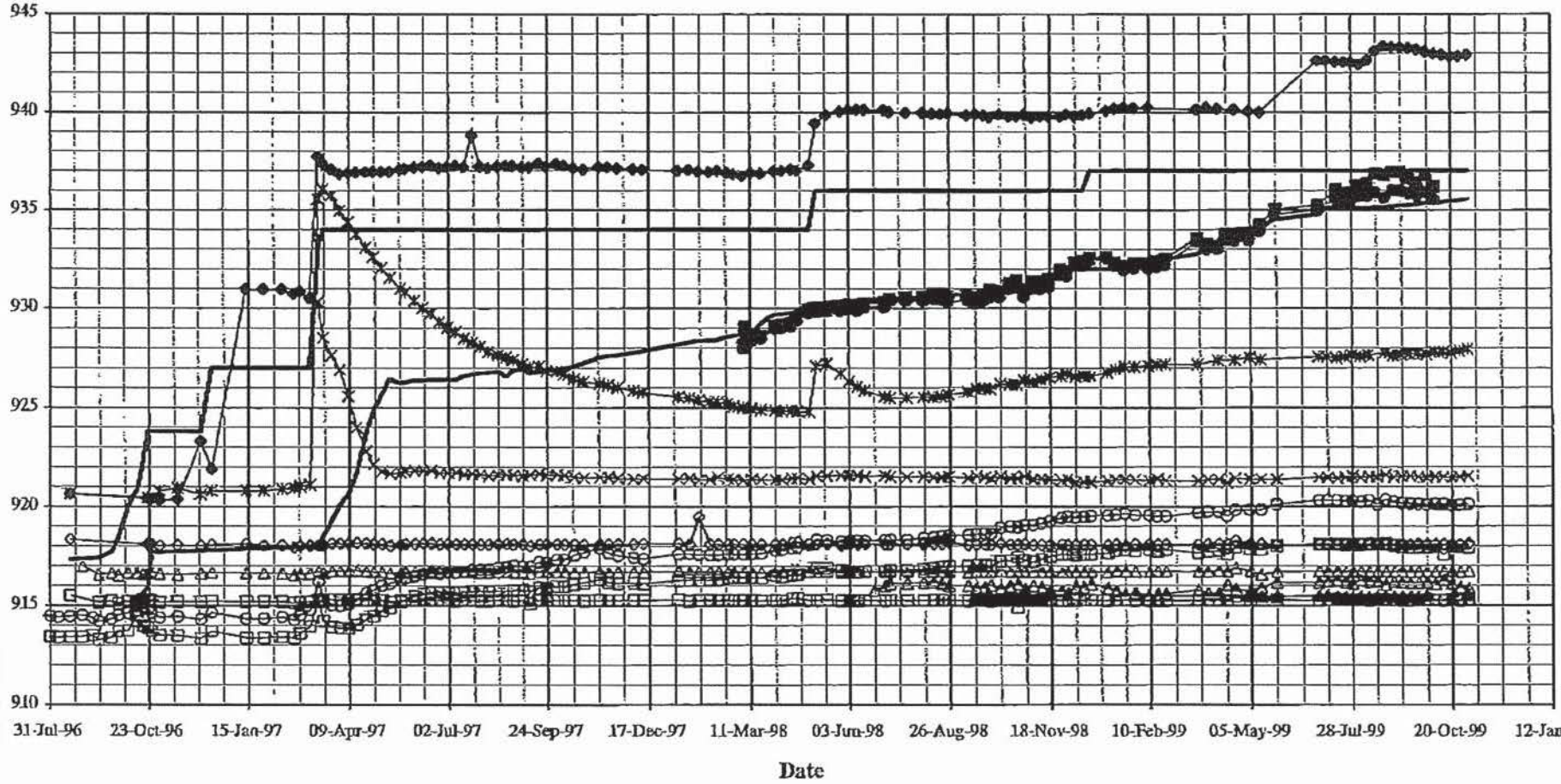


FIGURE 12

NOV 08 '99 13:36
INVESTIGATION KCB-2 Page 151 of 500
250 790 2268 PAGE.024
NOV. 8.1999 2:08PM MOUNT POLLEY MINING INV.006 P.024

NOV 08 '99 13:36

KNIGHT PIESOLD
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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

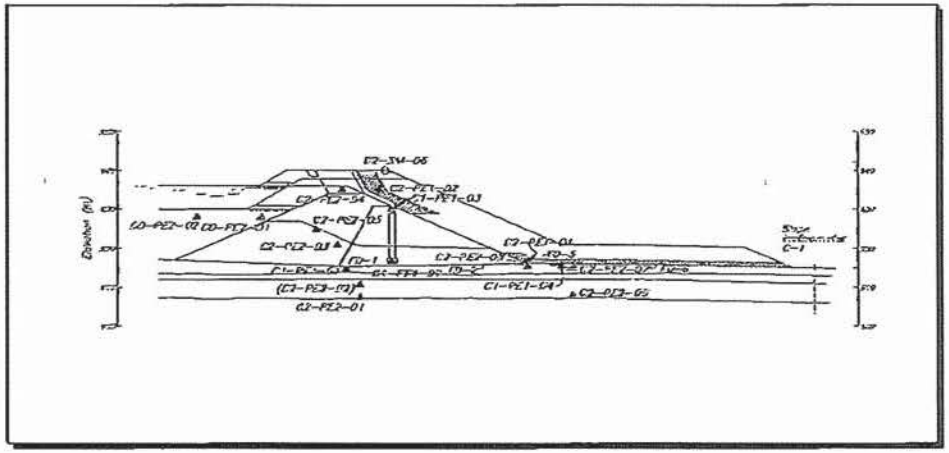
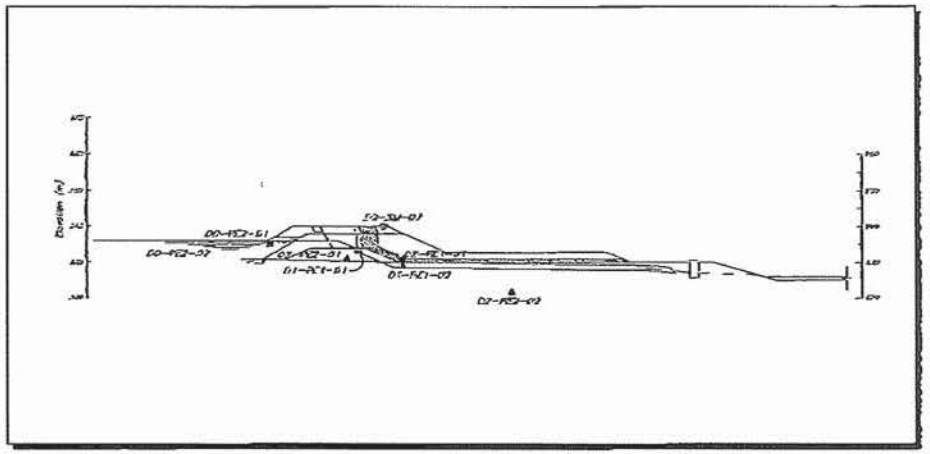
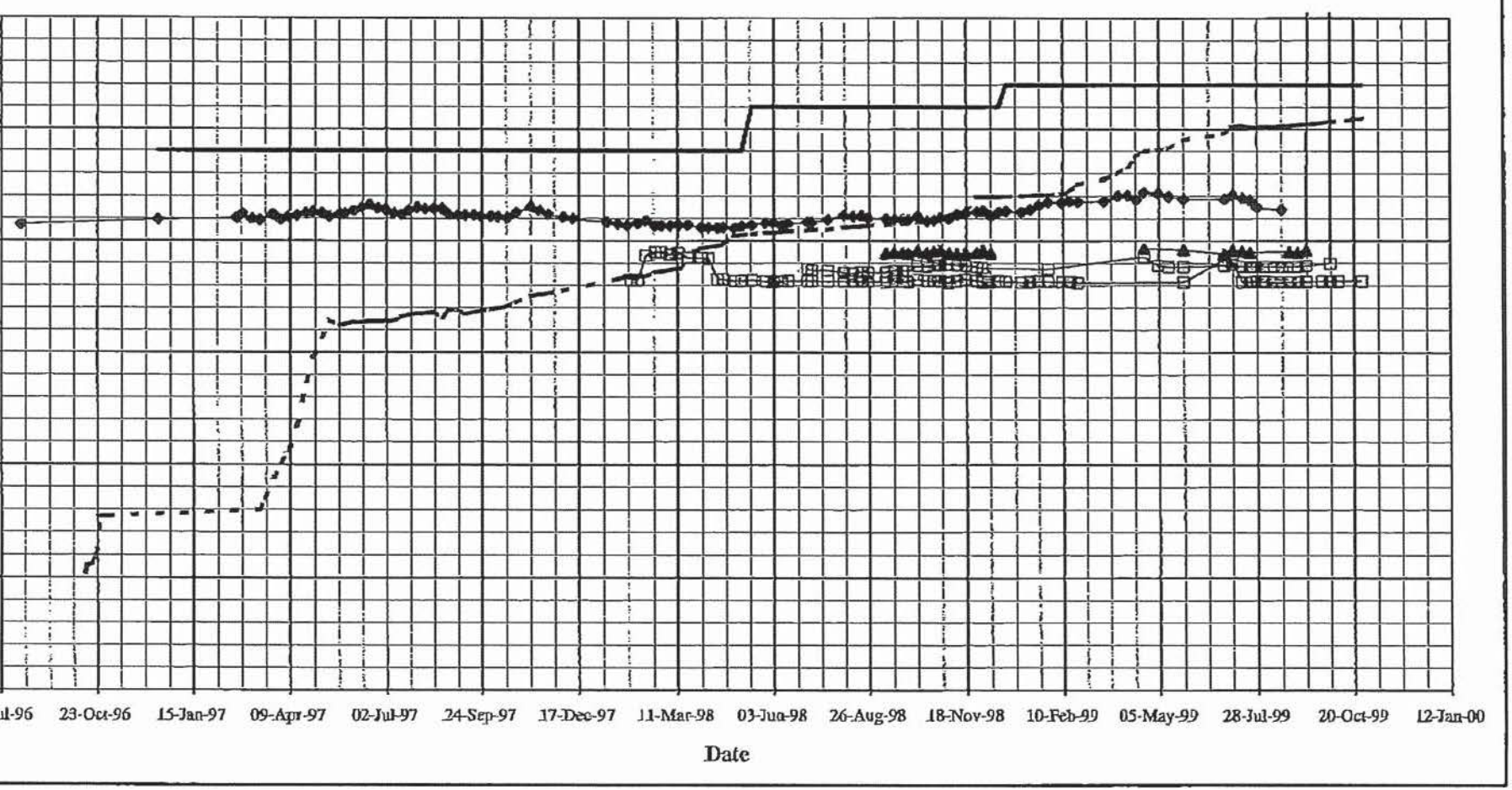


FIGURE 13

INVESTIGATION KGB-2 Page 152 of 500
250/90-2268 PAGE.025

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS



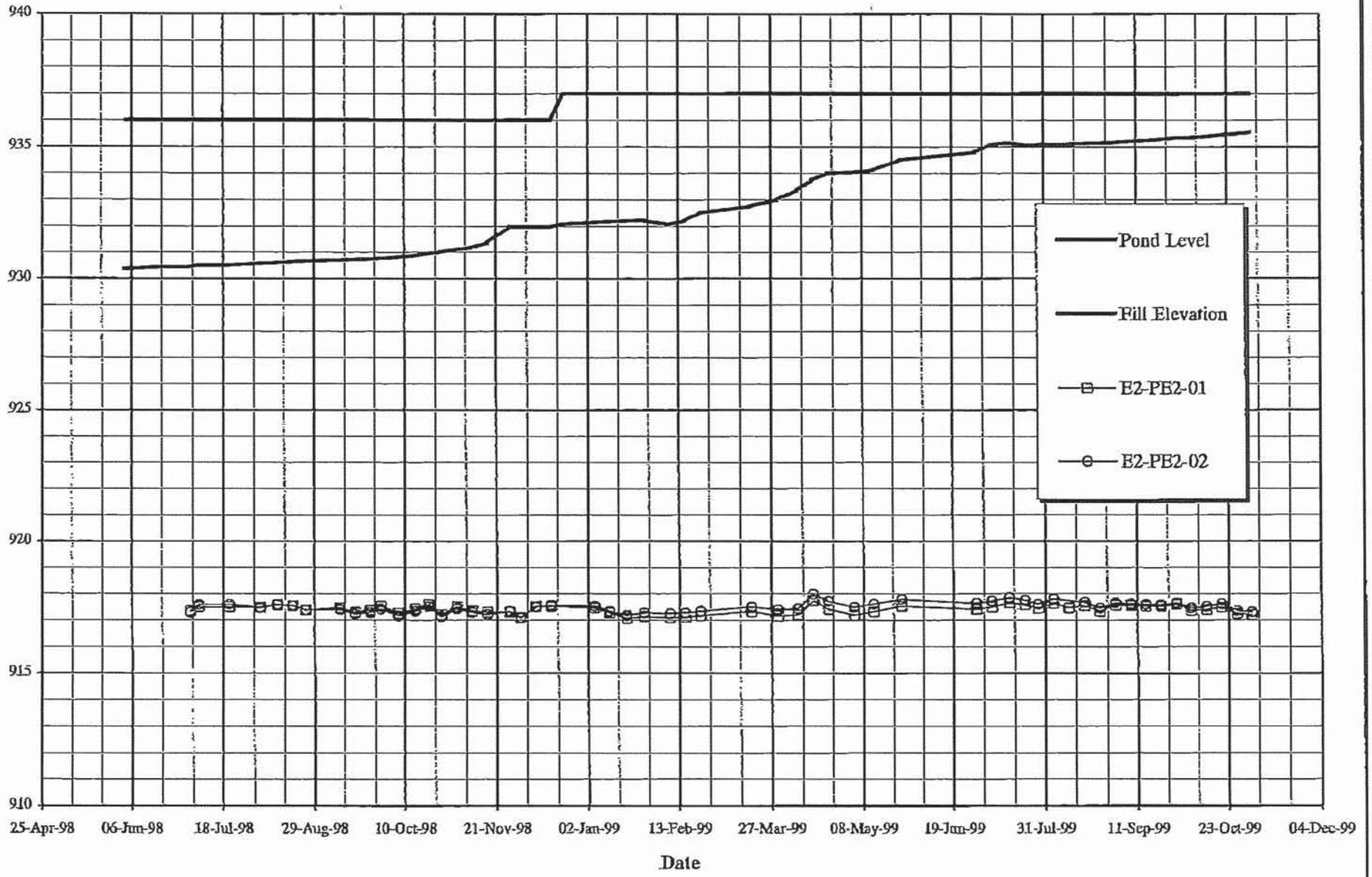


KNIGHT PIESOLD CONSULTING

FIGURE 14

NOV 08 '99 13:36 INVESTIGATION\08-22\08153\153A001.026

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS



KNIGHT PIESOLD CONSULTING

FIGURE 15

NOV 08 '99 13:37
INVESTIGATION KSB-2 Page 154 of 500 2250/ISO 22868.027
NOV. 8.1999 2:23PM MOUNT POLLEY MINING

NOV 08 '99 13:37

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE A FOUNDATION PIEZOMETERS

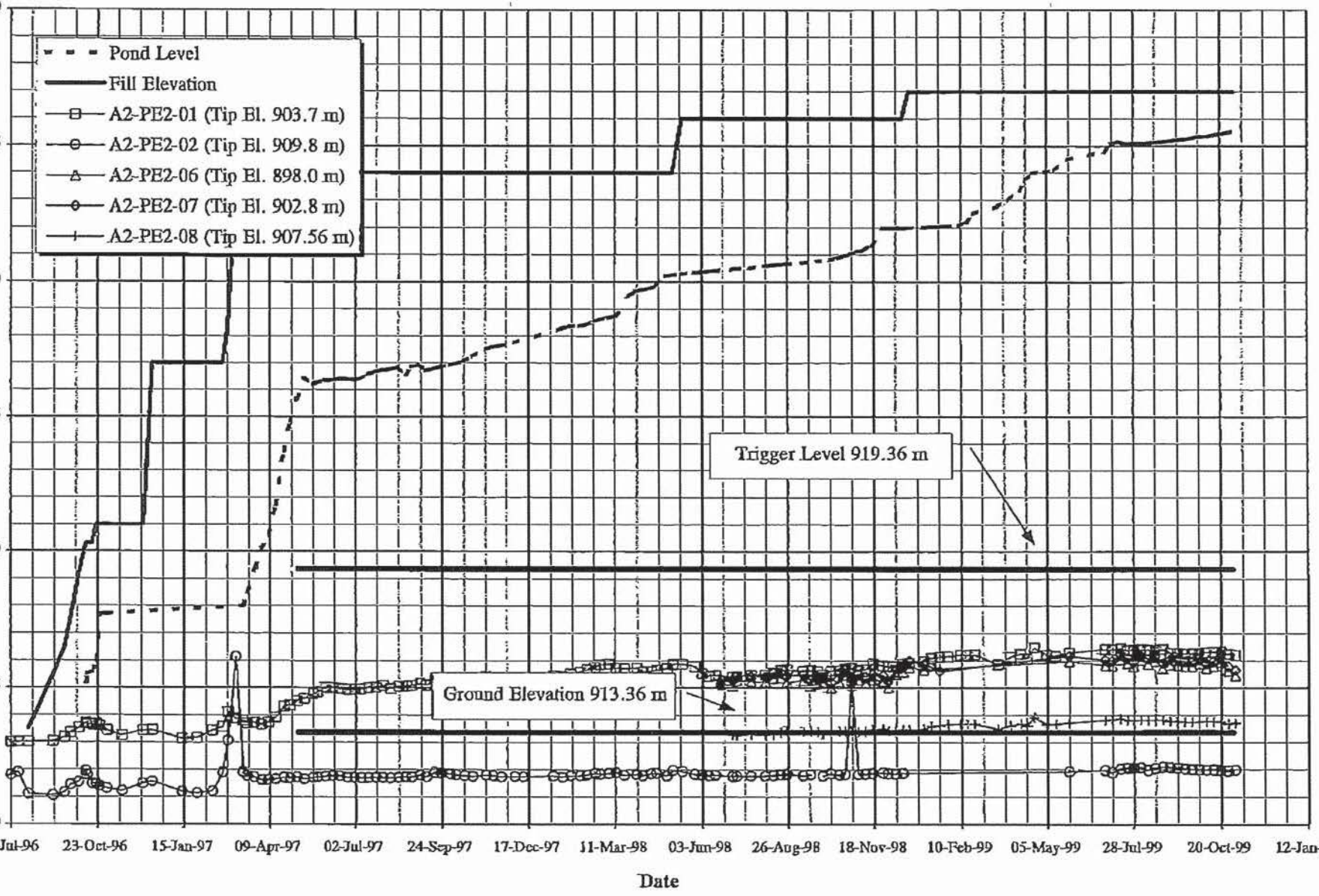


FIGURE 16

INVESTIGATION\99-2200\55 of 100E.028

NOV 08 '99 13:38

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE B FOUNDATION PIEZOMETERS

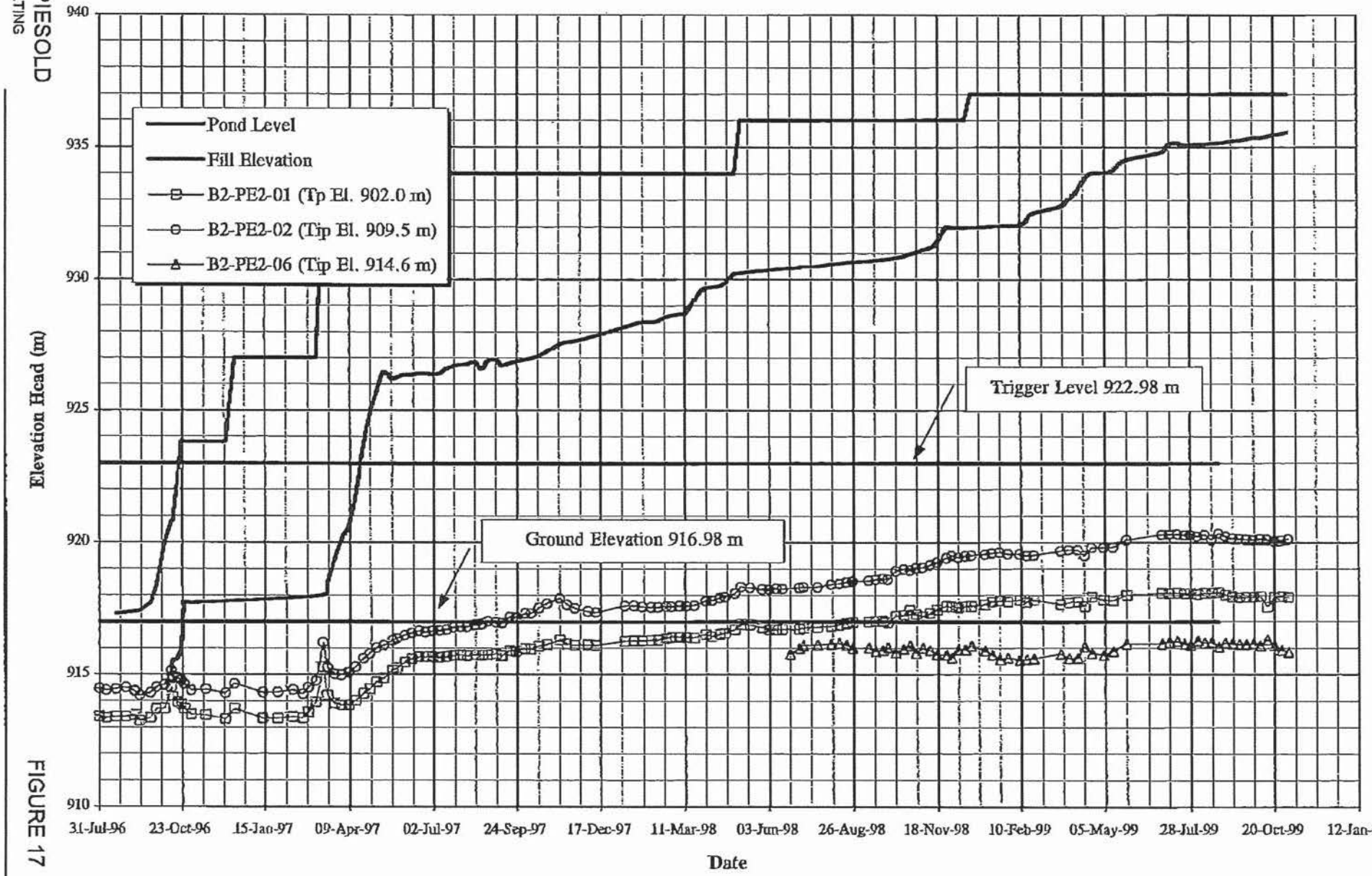


FIGURE 17

INVESTIGATION KGB-2 Page 156 of 500 2250 2268 PAGE.029

NOV 08 '99 13:38

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C FOUNDATION PIEZOMETERS

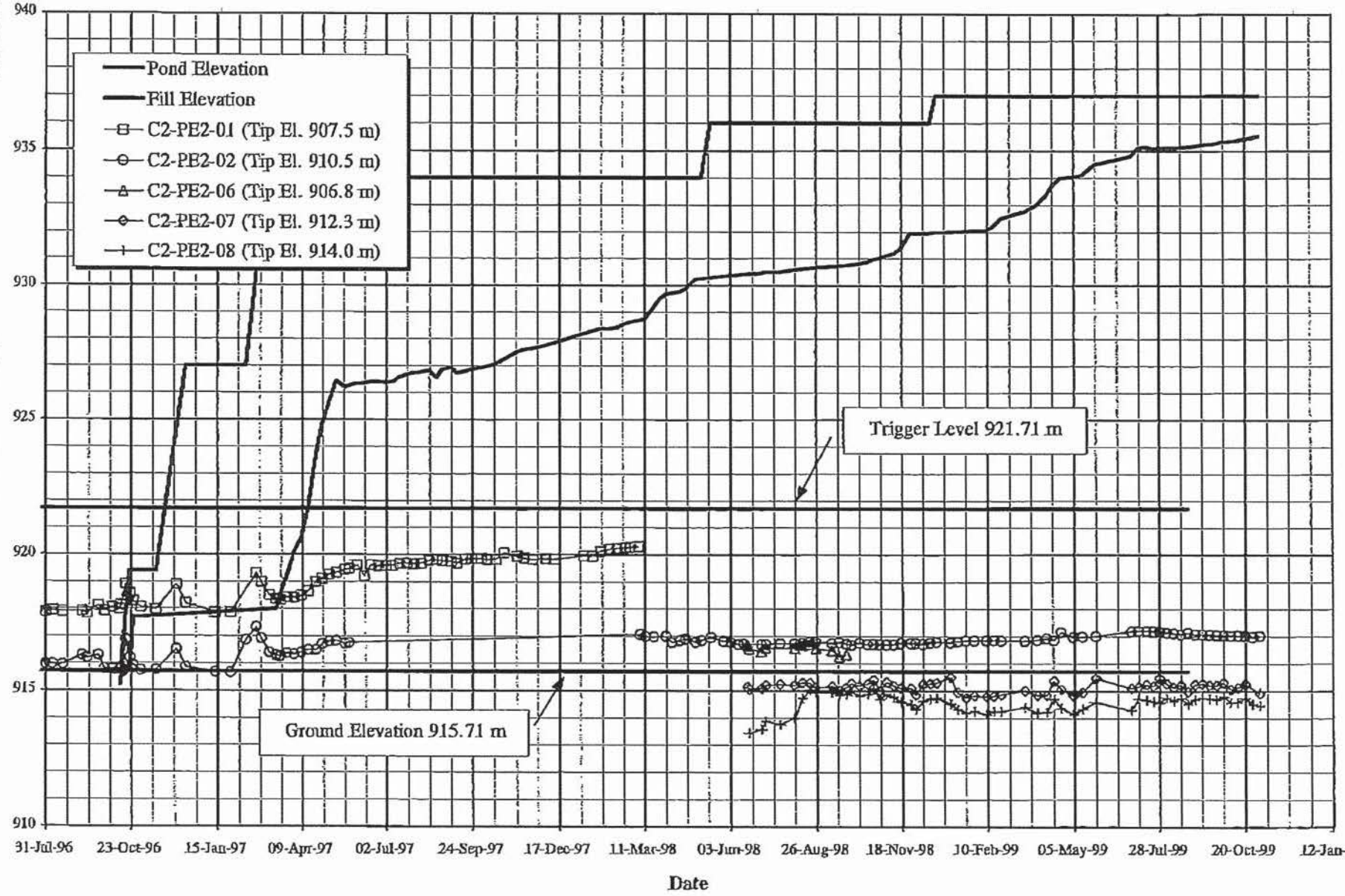


FIGURE 18

INVESTIGATION\1999\2299157\FIG18.DOC

NOV 08 '99 13:38

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE D FOUNDATION PIEZOMETERS

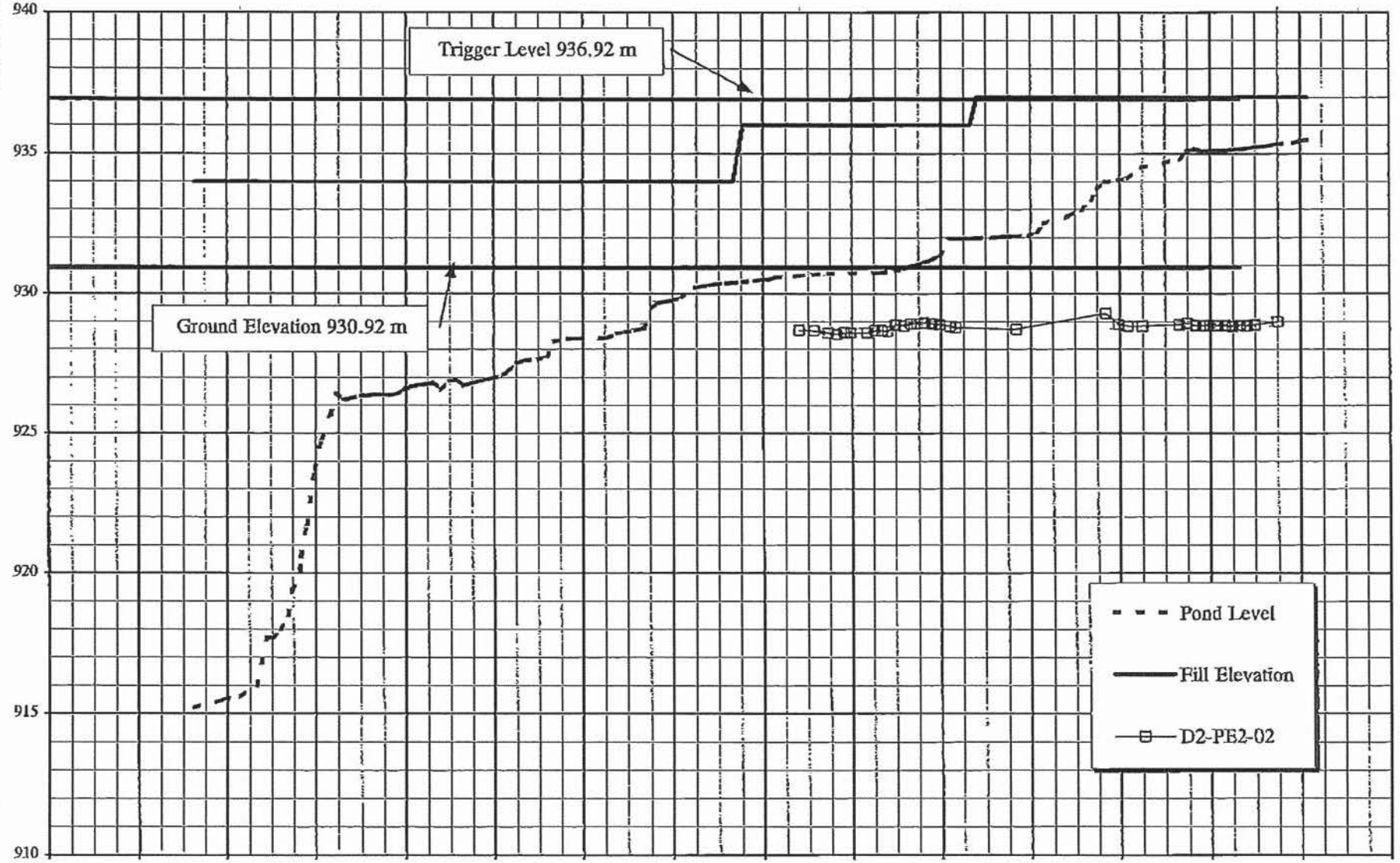


FIGURE 19

NOV. 8.1999 2:30PM MOUNT POLLY MINING INV.NO. P.01/44

INVESTIGATION\1998-2\2998158.A00E.031

NOV 08 '99 13:38

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE E FOUNDATION PIEZOMETERS

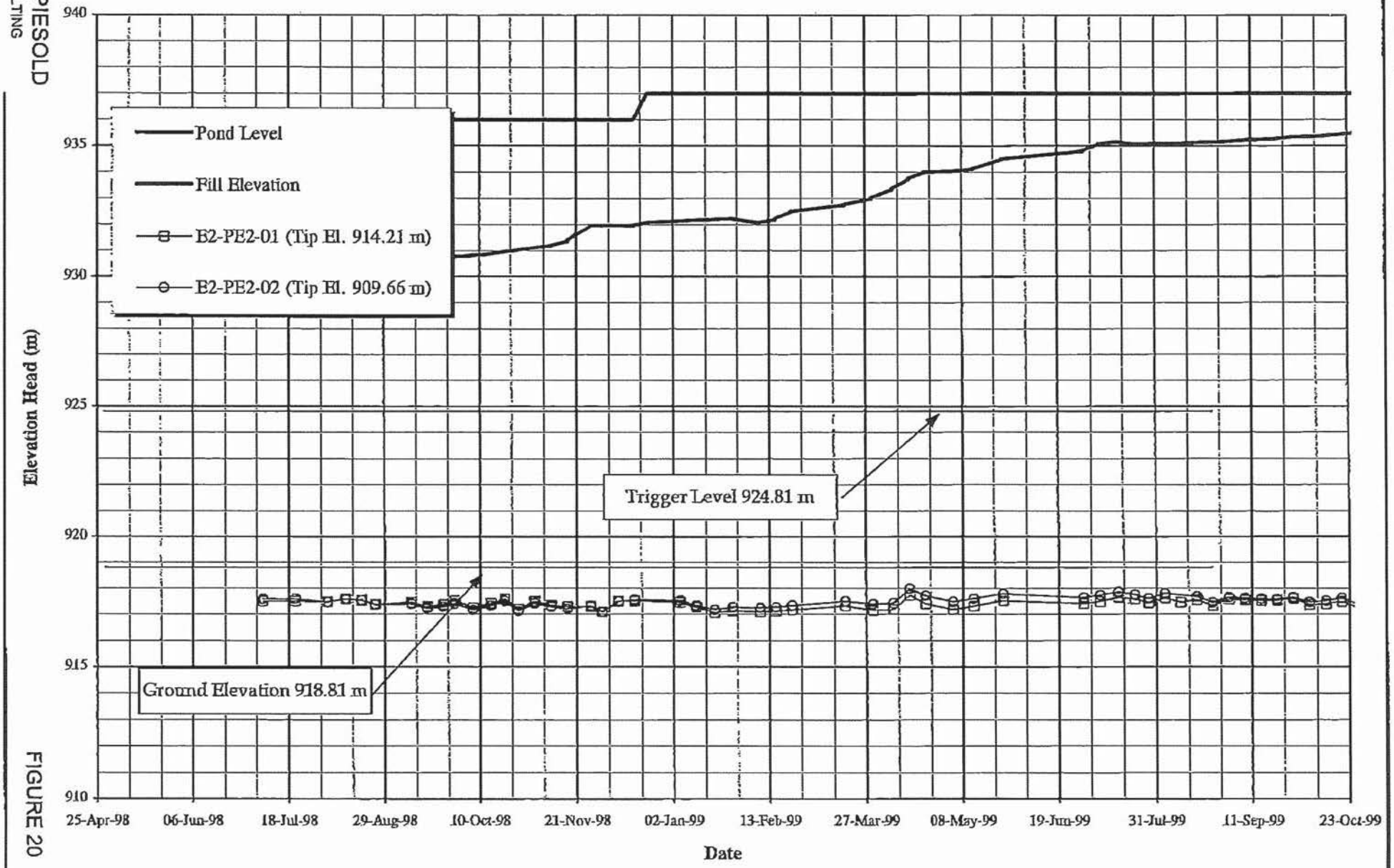


FIGURE 20

INVESTIGATION KCB-2 Page 159 of 500
250 790 2268 PAGE.032

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY
PERIMETER EMBANKMENT OUTLET DRAIN FLOWS

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FIGURE 21

NOV 08 '99 13:39
INVESTIGATION KGB-2 Page 160 of 500 PAGE.033
250 790 2268

NOV 08 '99 13:39

NOV. 8.1999 2:31PM MOUNT POLLEY MINING NO. 002

TABLE 1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

MAIN EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

M:\ENV\DATA\Data\Electronic\Weekly Flow Readings\FD.xxx\FD-xxx.xls]FD-Main

Note: The elevation for the top of the casing for Ground Water Well GW96-9 is approximately 916.78 m. The ground elevation is 916.18 m.

November 8, 1999

SAMPLING DATE	FD-1			FD-2			FD-3			FD-4			FD-5			Total Flow Rate			Pond El (m)	GW96-9 (GW Well)
	Flow Rate			Flow Rate			Flow Rate			Flow Rate			Flow Rate							Elev. Above Top of Casing of well 9 (m)
Date	FD-1(usgpm)	(l/sec)	Comments	FD-2(usgpm)	(l/sec)	Comments	FD-3(usgpm)	(l/sec)	Comments	FD-4(usgpm)	(l/sec)	Comments	FD-5(usgpm)	(l/sec)	Comments	Total(usgpm)	(l/sec)	Comments	Pond Elev.	
28-Aug-96	4.62	0.08	Clear	0.49	0.01	Clear	5.37	0.09	Clear	1.77	0.03	Tr. cloudy	-	-	-	12.25	0.20	FD-3, FD-4 incomplete		
01-Sep-96	3.55	0.06	Clear	0.82	0.01	Clear	6.56	0.11	Cloudy	1.25	0.02	V. Cloudy	-	-	-	12.18	0.20	FD-3, FD-4 incomplete		
05-Sep-96	2.60	0.04	Clear	0.62	0.01	Clear	2.71	0.05	Clear	0.93	0.02	Cloudy	-	-	-	6.86	0.11	FD-3, FD-4 incomplete		
10-Sep-96	2.04	0.03	Clear	0.66	0.01	Clear	2.17	0.04	Clear	0.81	0.01	Clear	-	-	-	5.68	0.09	FD-3, FD-4 incomplete		
27-Sep-96	3.10	0.05	Clear	0.70	0.01	Clear	3.10	0.05	Clear	1.00	0.02	Clear	-	-	-	7.90	0.13	FD-3, FD-4 incomplete		
05-Oct-96	4.94	0.08	Clear	0.77	0.01	Clear	4.33	0.07	Tr. cloudy	6.16	0.10	Tr. cloudy	-	-	-	16.20	0.27	FD-3, FD-4 incomplete		
12-Oct-96	3.90	0.07	Clear	1.00	0.02	Clear	3.50	0.06	Clear	1.80	0.03	Clear	-	-	-	10.20	0.17	FD-3, FD-4 incomplete	915.20	
13-Oct-96	4.20	0.07	Clear	0.90	0.02	Clear	13.50	0.23	Clear	1.70	0.03	Clear	-	-	-	20.30	0.34	FD-3 complete, FD-4 incomplete	915.59	
14-Oct-96	3.80	0.06	Clear	1.00	0.02	Clear	15.00	0.25	Clear	5.40	0.09	Clear	-	-	-	25.20	0.42	FD-3 complete, FD-4 incomplete	915.23	
17-Oct-96	5.90	0.10	Clear	0.80	0.01	Clear	16.60	0.28	Clear	5.40	0.09	Clear	-	-	-	28.70	0.48		915.44	
18-Oct-96	9.80	0.16	Clear	1.00	0.02	Clear	26.10	0.44	Clear	9.00	0.15	Clear	-	-	-	45.90	0.77		915.39	
23-Oct-96	6.20	0.10	Clear	0.80	0.01	Clear	20.40	0.34	Clear	5.90	0.10	Clear	-	-	-	33.30	0.56		915.63	
27-Oct-96	6.00	0.10	Clear	1.50	0.03	Clear	24.20	0.40	Clear	6.40	0.11	Clear	-	-	-	38.10	0.64		916.00	
15-Mar-97	3.89	0.06	Clear	1.35	0.02	Clear	8.91	0.15	Clear	3.19	0.05	Clear	-	-	-	17.34	0.29	pig installed, sump pumped out	918.00	
16-Mar-97	3.48	0.06	Clear	1.15	0.02	Clear	8.37	0.14	Clear	2.87	0.05	Clear	-	-	-	15.88	0.26	pig installed, sump pumped out	918.20	
02-Apr-97	2.10	0.04	Clear	1.12	0.02	Clear	8.40	0.14	Clear	3.46	0.06	Clear	-	-	-	15.08	0.25	pig installed, sump pumped out	920.27	
23-Apr-97	4.14	0.07	Clear	0.94	0.02	Clear	11.56	0.19	Clear	2.35	0.04	Clear	-	-	-	18.99	0.32	pig installed, sump pumped out	923.70	
24-Apr-97	3.16	0.05	Clear	0.84	0.01	Clear	12.73	0.21	Clear	2.05	0.03	Clear	-	-	-	18.78	0.31	pig installed, sump pumped out	923.75	
29-Apr-97	2.90	0.05	Clear	0.59	0.01	Clear	10.32	0.17	Clear	1.71	0.03	Clear	-	-	-	15.52	0.26	pig installed, sump pumped out	924.81	
08-May-97	3.60	0.06	Clear	0.76	0.01	Clear	14.15	0.24	Clear	1.92	0.03	Clear	-	-	-	20.43	0.34	pig out, pumped down	925.86	
13-May-97	4.04	0.07	Clear	0.79	0.01	Clear	14.85	0.25	Clear	1.95	0.03	Clear	-	-	-	21.63	0.36	pig out, pumped down	926.43	
20-May-97	4.11	0.07	Clear	0.77	0.01	Clear	17.09	0.28	Clear	1.85	0.03	Clear	-	-	-	23.82	0.40	pig out, pumped down	926.20	
28-May-97	3.99	0.07	Clear	0.80	0.01	Clear	15.71	0.26	Clear	1.87	0.03	Clear	-	-	-	22.37	0.37	pig out, pumped down	926.25	
10-Jun-97	4.15	0.07	Clear	0.82	0.01	Clear	18.35	0.31	Clear	1.89	0.03	Clear	-	-	-	25.21	0.42	pig out, pumped down	926.34	
17-Jun-97	4.10	0.07	Clear	0.78	0.01	Clear	19.93	0.33	Clear	1.85	0.03	Clear	-	-	-	26.66	0.44	pig out, pumped down	926.40	
24-Jun-97	3.97	0.07	Clear	0.84	0.01	Clear	17.24	0.29	Clear	1.83	0.03	Clear	-	-	-	23.88	0.40	pig out, pumped down	926.39	
01-Jul-97	3.93	0.07	Clear	0.69	0.01	Clear	14.72	0.25	Clear	1.73	0.03	Clear	-	-	-	21.07	0.35	pig out, pumped down	926.38	
08-Jul-97	4.06	0.07	Clear	0.72	0.01	Clear	18.07	0.30	Clear	1.88	0.03	Clear	-	-	-	24.72	0.41	pig out, pumped down	926.39	
15-Jul-97	4.11	0.07	Clear	0.88	0.01	Clear	15.38	0.26	Clear	2.24	0.04	Clear	-	-	-	22.61	0.38	pig out, pumped down	926.57	
22-Jul-97	4.06	0.07	Clear	0.91	0.02	Clear	15.83	0.26	Clear	2.05	0.03	Clear	-	-	-	22.85	0.38	pig out, pumped down	926.66	
29-Jul-97	4.40	0.07	Clear	0.85	0.01	Clear	20.48	0.34	Clear	2.11	0.04	Clear	-	-	-	27.84	0.46	pig out, pumped down	926.73	
05-Aug-97	4.33	0.07	Clear	0.79	0.01	Clear	18.35	0.31	Clear	1.97	0.03	Clear	-	-	-	25.34	0.42	pig out, pumped down	926.75	
13-Aug-97	4.12	0.07	Clear	0.78	0.01	Clear	24.19	0.40	Clear	2.02	0.03	Clear	-	-	-	31.11	0.52	pig out, pumped down	926.82	
20-Aug-97	4.13	0.07	Clear	0.76	0.01	Clear	15.95	0.27	Clear	1.80	0.03	Clear	-	-	-	22.64	0.38	pig out, pumped down	926.75	
26-Aug-97	4.62	0.08	Clear	0.76	0.01	Clear	18.75	0.31	Clear	1.92	0.03	Clear	-	-	-	26.05	0.43	pig out, pumped down	926.86	
03-Sep-97	4.48	0.07	Clear	0.76	0.01	Clear	16.95	0.28	Clear	1.76	0.03	Clear	-	-	-	23.95	0.40	pig out, pumped down	926.93	
09-Sep-97	4.57	0.08	Clear	0.75	0.01	Clear	16.04	0.27	Clear	1.81	0.03	Clear	-	-	-	23.17	0.39	pig out, pumped down	926.71	
17-Sep-97	4.62	0.08	Clear	0.77	0.01	Clear	16.71	0.28	Clear	1.78	0.03	Clear	-	-	-	23.88	0.40	pig out, pumped down	926.88	
23-Sep-97	4.64	0.08	Clear	0.78	0.01	Clear	17.75	0.30	Clear	1.83	0.03	Clear	-	-	-	25.00	0.42	pig out, pumped down	926.85	
02-Oct-97	4.78	0.08	Clear	0.82	0.01	Clear	16.76	0.28	Clear	1.86	0.03	Clear	-	-	-	24.22	0.40	pig out, pumped down	926.92	0.695
08-Oct-97	4.69	0.08	Clear	0.81	0.01	Clear	16.01	0.27	Clear	1.95	0.03	Clear	-	-	-	23.46	0.39	pig out, pumped down	926.97	0.695
16-Oct-97	5.14	0.09	Clear	1.11	0.02	Clear	17.86	0.30	Clear	2.31	0.04	Clear	-	-	-	26.42	0.44	pig out, pumped down	927.06	0.695
24-Oct-97	5.13	0.09	Clear	0.92	0.02	Clear	16.23	0.27	Clear	1.98	0.03	Clear	-	-	-	24.26	0.40	pig out, pumped down	927.23	0.695
06-Nov-97	5.31	0.09	Clear	1.20	0.02	Clear	17.70	0.30	Clear	2.39	0.04	Clear	-	-	-	26.80	0.45	pig out, pumped down	927.51	Frozen
13-Nov-97	4.90	0.08	Clear	0.65	0.01	Clear	18.58	0.31	Clear	1.87	0.03	Clear	-	-	-	26.00	0.43	pig out, pumped down	927.60	Frozen
21-Nov-97	4.37	0.07	Clear	0.76	0.01	Clear	17.91	0.30	Clear	1.79	0.03	Clear	-	-	-	24.83	0.41	pig out, pumped down	927.63	Frozen
28-Nov-97	4.14	0.07	Clear	0.77	0.01	Clear	18.18	0.30	Clear	1.85	0.03	Clear	-	-	-	24.94	0.42	pig out, pumped down	927.65	Frozen
04-Dec-97	4.00	0.07	Clear	0.85	0.01	Clear	17.67	0.29	Clear	1.78	0.03	Clear	-	-	-	24.33	0.41	pig out, pumped down	927.75	Frozen

INVESTIGATION NOV-22-1999 01:50E . 034

TABLE 1 (continued)

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

MAIN EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

02-Jan-98	3.81	0.06	Clear	0.74	0.01	Clear	16.30	0.27	Clear	3.73	0.09	Clear	-	-	-	22.58	0.38	pig out, pumped down	928.10	Frozen
14-Jan-98	3.85	0.06	Clear	0.80	0.01	Clear	16.57	0.28	Clear	3.77	0.09	Clear	-	-	-	22.99	0.38	pig out, needs pumping	928.25	Frozen
21-Jan-98	3.57	0.06	Clear	0.74	0.01	Clear	16.42	0.27	Clear	3.82	0.09	Clear	-	-	-	22.55	0.38	pig out, needs pumping	928.30	Frozen
08-Apr-98	3.84	0.06	Clear	0.67	0.01	Clear	15.54	0.26	Clear	3.52	0.09	Clear	-	-	-	21.57	0.36	pig out, pond pumped down	929.70	-
17-Apr-98	3.82	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	3.37	0.02	Clear	6.33	0.11	Clear	27.19	0.46	pig out, pond pumped down	929.85	-
25-May-98	3.82	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	3.37	0.02	Clear	6.33	0.11	Clear	27.19	0.46	pig out, pond pumped down	930.10	-
02-Jun-98	3.52	0.06	Clear	0.78	0.01	Clear	15.58	0.26	Clear	3.42	0.02	Clear	6.80	0.11	Clear	28.10	0.47	pig out, pond pumped down	930.36	-
10-Jun-98	3.83	0.06	Clear	0.79	0.01	Clear	14.60	0.24	Clear	3.44	0.02	Clear	7.51	0.13	Clear	28.17	0.47	pig out, pond pumped down	930.39	-
16-Jun-98	3.77	0.06	Clear	0.78	0.01	Clear	16.35	0.27	Clear	3.41	0.02	Clear	7.93	0.13	Clear	30.24	0.50	pig out, pond pumped down	930.42	-
03-Jul-98	3.89	0.06	Clear	0.76	0.01	Clear	16.14	0.27	Clear	2.37	0.04	Clear	12.53	0.21	Clear	35.69	0.59	FD-5 is spilling onto FD-4 providing higher values than normal	930.43	
07-Jul-98	3.71	0.06	Clear	0.72	0.01	Clear	16.03	0.27	Clear	2.22	0.04	Clear	9.66	0.16	Clear	32.34	0.54	negative value is below top of casing	930.50	-0.135
24-Jul-98	3.53	0.06	Clear	0.72	0.01	Clear	15.75	0.26	Clear	1.96	0.03	Clear	8.70	0.15	Clear	30.66	0.51	-	930.58	0.28
12-Aug-98	3.46	0.06	Clear	0.62	0.01	Clear	15.96	0.27	Clear	1.90	0.03	Clear	7.30	0.12	Clear	29.34	0.49	-	930.61	0.33
19-Aug-98	3.17	0.05	Clear	0.56	0.01	Clear	15.83	0.26	Clear	2.26	0.04	Clear	8.08	0.13	Clear	29.90	0.50	-	930.64	-
10-Sep-98	3.60	0.06	Clear	0.57	0.01	Clear	16.35	0.27	Clear	2.03	0.03	Clear	8.02	0.13	Clear	30.57	0.51	-	930.70	-
17-Sep-98	3.53	0.06	Clear	0.63	0.01	Clear	16.42	0.27	Clear	2.20	0.04	Clear	8.32	0.14	Clear	31.30	0.52	-	930.73	-
24-Sep-98	3.62	0.06	Clear	0.64	0.01	Clear	15.61	0.26	Clear	2.06	0.03	Clear	7.77	0.13	Clear	29.73	0.50	-	930.77	-
07-Oct-98	3.72	0.06	Clear	1.05	0.02	Clear	14.22	0.24	Clear	2.36	0.04	Clear	13.39	0.22	Clear	34.74	0.58	positive value is above top of casing	930.81	0.18
15-Oct-98	3.82	0.06	Clear	1.10	0.02	Clear	14.53	0.24	Clear	2.56	0.04	Clear	15.83	0.26	Clear	37.84	0.63	-	930.87	
21-Oct-98	3.94	0.07	Clear	1.12	0.02	Clear	15.35	0.26	Clear	2.95	0.05	Clear	18.46	0.31	Clear	41.82	0.70	-	930.95	
17-Nov-98	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Sump flooded,needs to be pumped		0.11
27-Nov-98	4.21	0.07	Clear	1.01	0.02	Clear	14.28	0.24	Clear	2.35	0.04	Clear	11.76	0.20	Clear	33.62	0.56		931.35	-0.03
02-Dec-98	4.35	0.07	Clear	0.92	0.02	Clear	14.16	0.24	Clear	2.37	0.04	Clear	11.46	0.19	Clear	33.26	0.55		931.97	-0.03
09-Dec-98	4.34	0.07	Clear	0.79	0.01	Clear	16.56	0.28	Clear	2.01	0.03	Clear	9.78	0.16	Clear	33.49	0.56		931.97	Frozen
16-Dec-98	4.33	0.07	Clear	0.97	0.02	Clear	13.92	0.23	Clear	2.83	0.05	Clear	19.32	0.32	Clear	41.37	0.69		931.97	Frozen
22-Dec-98	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded, needs to be pumped down	931.99	Frozen
05-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.00	Frozen
12-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.02	Frozen
30-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.03	Frozen
28-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.05	Frozen
09-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.06	Frozen
16-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.07	Frozen
23-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.08	Frozen
18-Mar-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	933.08	Frozen
30-Mar-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	934.08	Frozen
08-Apr-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	935.08	Frozen
29-Sep-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		26.40	0.44	Clear	#N/A	#N/A	FD-5 above sump water surface	935.34	

NOV 08 '99 13:40

NOV. 8.1999 2:36PM MOUNT POLLEY MINING

TABLE 2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

PERIMETER EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

H:\ENG\DATA\Engdocs\Geotechnical\Weekly Piezo Readings\[FD-mon OD-mon.xls]OD-Mon

November 8, 1999

SAMPLING DATE	OD-4			OD-5			OD-6			Total Flow Rate		
	Flow Rate			Flow Rate			Flow Rate					
Date	OD4(l/min)	(l/sec)	Comments	OD5(l/min)	(l/sec)	Comments	OD6(l/min)	(l/sec)	Comments	Tot(l/min)	(l/sec)	Comments
17-Sep-99	#NA	#NA		#NA	#NA		#NA	#NA		-	-	Drains Flooded
24-Sep-99	60.00	1.00		78.00	1.30		30.00	0.50		168.00	2.80	Flows Estimated
25-Sep-99	72.00	1.20		90.00	1.50		36.00	0.60		198.00	3.30	Flows Estimated
27-Sep-99	60.00	1.00		60.00	1.00		30.00	0.50		150.00	2.50	Flows Estimated
29-Sep-99	42.60	0.71		19.20	0.32		4.92	0.08		66.72	1.11	* Flows Measured *
30-Sep-99	29.40	0.49		15.60	0.26		4.02	0.07		49.02	0.82	* Flows Measured *
02-Oct-99	28.80	0.48		15.60	0.26		3.00	0.05		47.40	0.79	* Flows Measured *
05-Oct-99	19.80	0.33		12.00	0.20		2.46	0.04		34.26	0.57	* Flows Measured *

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.TS - MATERIALS TESTING SERVICES
Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1NO

CLIENT Mount Polley Mining (1)
CC

ATTN: s.22

PROJECT Mt. Polley - T.S.F. Stage 2C

SET NO. 2 NO. OF SPECIMENS 1 DATE RECEIVED 99.Oct.11 DATE CAST 99.Oct.08

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m²)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Oct.15	7	102.0	204.0	185	0.00817	22.6	

SPEC STRENGTH	20.00 MPa	CONCRETE TEMP	°C	SLUMP	mm
CEMENT TYPE		AIR TEMP	°C	AIR CONTENT	%
CEMENT CONTENT	kg/m³	CAST TIME		DENSITY	
AGGREGATE SIZE	mm	CAST BY	CLIENT	PLASTIC	kg/m³
ADMIXTURE		MOLD TYPE	PLASTIC	HARDENED 2398	kg/m³
SUPPLIER		INITIAL CURING TEMP.: MAXIMUM	°C	MINIMUM	°C
MIX NO.	20MPA				
TRUCK NO					
TICKET NO.					
BATCH TIME					
LOAD VOLUME	m³				
CUMULATIVE VOL	m³				

LOCATION:
C-2-99 - LA-1st lift
M.E., left abutment 1st pour

COMMENTS:
25MPa concrete supplied

TEST METHOD: CSA CAN 3 A2302 UNLESS OTHERWISE NOTED

Page 1 END OF REPORT

A B C D E F

** TYPE OF FAILURE - REQ'D WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

PER

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of the test results is provided only on written request.

MTS - MATERIALS TESTING SERVICES
Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1NO

CLIENT Mount Polley Mining (1)
CC

ATTN: s.22

PROJECT Mt. Polley - T.S.F. Stage 2C

SET NO. 7 NO. OF SPECIMENS 1 DATE RECEIVED 99.Oct.11 DATE CAST 99.Oct.09

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m2)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Oct.18	9	102.0	204.0	227	0.00817	27.8	

SPEC STRENGTH 20.00 MPa
CEMENT TYPE
CEMENT CONTENT kg/m³
AGGREGATE SIZE mm
ADMIXTURE
SUPPLIER
MIX NO. 20MPA
TRUCK NO.
TICKET NO.
BATCH TIME
LOAD VOLUME m³
CUMULATIVE VOL. m³

CONCRETE TEMP °C
AIR TEMP °C
CAST TIME
CAST BY CLIENT
MOLD TYPE PLASTIC
INITIAL CURING TEMP.: MAXIMUM °C MINIMUM °C

SLUMP mm
AIR CONTENT %
DENSITY
PLASTIC kg/m³
HARDENED 2405 kg/m³

LOCATION:
C-7-99 - LA-2nd pour
M.E., left abutment 2nd pour

COMMENTS:
25MPa concrete supplied

TEST METHOD: CSA CAN3 A23.2 UNLESS OTHERWISE NOTED

A B C D E F

** TYPE OF FAILURE - REQ'D WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

Page 1 END OF REPORT

PER

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MTS - MATERIALS TESTING SERVICES
Prince George, British Columbia

CONCRETE TEST REPORT

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1NO

CLIENT CO: Mount Polley Mining (1)

PROJECT NO. 1112

ATTN: s.22

PROJECT: Mt. Polley - T.S.F. Stage 2C

SET NO. 3 | NO. OF SPECIMENS 1 | DATE RECEIVED 99.Oct.11 | DATE CAST 99.Oct.08

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m²)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Oct.12	4	102.0	204.0	131	0.00817	16.0	

SPEC STRENGTH	20.00 MPa	CONCRETE TEMP	°C	SLUMP	mm
CEMENT TYPE		AIR TEMP	°C	AIR CONTENT	%
CEMENT CONTENT	kg/m³	CAST TIME		DENSITY	
AGGREGATE SIZE	mm	CAST BY	CLIENT	PLASTIC	kg/m³
ADMIXTURE		MOLD TYPE	PLASTIC	HARDENED 2397	kg/m³
SUPPLIER		INITIAL CURING TEMP.: MAXIMUM	°C	MINIMUM	°C
MIX NO.	20MPA				
TRUCK NO.					
TICKET NO.					
BATCH TIME					
LOAD VOLUME	m³				
CUMULATIVE VOL.	m³				

LOCATION:
C-3-99 - LA-1st lift

COMMENTS:
M.E., left abutment 1st pour
25MPa concrete supplied

TEST METHOD: CSA CAN 3 A23.2 UNLESS OTHERWISE NOTED

A ☒ B ☒ C ☐ D ☐ E ☐ F ☐

** TYPE OF FAILURE - RECD WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

Page 1 END OF REPORT

PER

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of the test results is provided only on written request

MTS - MATERIALS TESTING SERVICES
Prince George, British Columbia

CONCRETE TEST REPORT

PROJECT NO. 1112

CLIENT Mount Polley Mining (1)
CC

TO
Mount Polley Mining Corporation
Box 12
Likely, BC
VOL 1NO

ATTN: s.22

PROJECT
Mt. Polley - T.S.F. Stage 2C

SET NO. 9 | NO. OF SPECIMENS 1 | DATE RECEIVED 99.Oct.11 | DATE CAST 99.Oct.09

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (m²)	COMPRESSIVE STRENGTH (MPa)	TYPE OF FAILURE **
A	Oct.12	3	102.0	204.0	123	0.00817	15.1	

SPEC. STRENGTH	20.00 MPa	CONCRETE TEMP	°C	SLUMP	mm
CEMENT TYPE		AIR TEMP	°C	AIR CONTENT	%
CEMENT CONTENT	kg/m³	CAST TIME		DENSITY	
AGGREGATE SIZE	mm	CAST BY	CLIENT	PLASTIC	kg/m³
ADMIXTURE		MOLD TYPE	PLASTIC	HARDENED	2370 kg/m³
SUPPLIER		INITIAL CURING TEMP.- MAXIMUM	°C	MINIMUM	°C
MIX NO	20MPA				
TRUCK NO.					
TICKET NO.					
BATCH TIME					
LOAD VOLUME	m³				
CUMULATIVE VOL.	m³				

LOCATION:
C-9-99 - RA-2nd pour

COMMENTS: M.E., right abutment 2nd pour
25MPa concrete supplied

TEST METHOD: CSA CAN 3 A2302 UNLESS OTHERWISE NOTED

A ☒ B ☐ C ☐ D ☐ E ☐ F ☐

** TYPE OF FAILURE - REQ'D WHEN CYLINDER FAILS TO MEET SPECIFIED 28 DAY STRENGTH.

Page 1 END OF REPORT

PER

Reporting of these test results constitutes a testing service only. Engineering interpretation or evaluation of the test results is provided only on written request.

NOV 08 '99 13:41

NOV. 8.1999 2:34PM MOUNT POLLEY MINING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE FS CONTROL TEST SUMMARY SHEET

A:\[C:ZFS-SUM.XLS]summable 08-Nov-99

Date Sampled	Sample No.	Location	Elev. (m)	R2	R3 (Particle Size Distribution)											
				Field m/c	75	37.5	25	19.0	9.5	4.75	1.7	1.180	0.600	0.425	0.150	0.075
					Sieve Sizes											
				%	3	1 1/2	1	3/4	3/8	#4	#12	#16	#30	#40	#100	#200
-	C/ZFS-1	Main Embankment Stockpile	-	-	100.0	100.0	100.0	94.2	74.0	44.0	25.4	25.0	19.7	17.4	12.4	9.9
-	C/ZFS-2	Main Embankment Stockpile	-	-	100.0	100.0	100.0	92.9	70.7	37.8	22.4	19.3	15.7	14.1	10.6	8.7
-	C/ZFS-3	Main Embankment Stockpile	-	-	100.0	100.0	100.0	93.6	77.5	48.4	28.9	24.3	18.2	15.6	10.1	7.5
-	C/ZFS-4	Main Embankment Stockpile	-	-	100.0	100.0	100.0	91.5	71.3	40.3	23.1	19.3	14.5	12.4	7.9	5.8
-	C/ZFS-5	Main Embankment Stockpile	-	-	100.0	100.0	98.9	92.9	74.4	41.5	24.3	20.3	15.2	13.0	8.5	6.1
22-Oct-99	C/ZFS-6	Fine Ore Stockpile	-	-	100.0	100.0	100.0	98.2	71.4	41.2	15.3	11.5	7.9	6.4	3.7	1.8
			MEAN	#DIV/0!	100.0	100.0	99.8	93.9	73.2	42.2	23.2	19.9	15.2	13.2	8.9	6.6
			MEDIAN	#NUM!	100.0	100.0	100.0	93.3	72.7	41.4	23.7	19.8	15.5	13.6	9.3	6.8
			MAXIMUM	0.0	100.0	100.0	100.0	98.2	77.5	48.4	28.9	25.0	19.7	17.4	12.4	9.9
			MINIMUM	0.0	100.0	100.0	98.9	92.5	70.7	37.8	15.3	11.5	7.9	6.4	3.7	1.8

Notes:

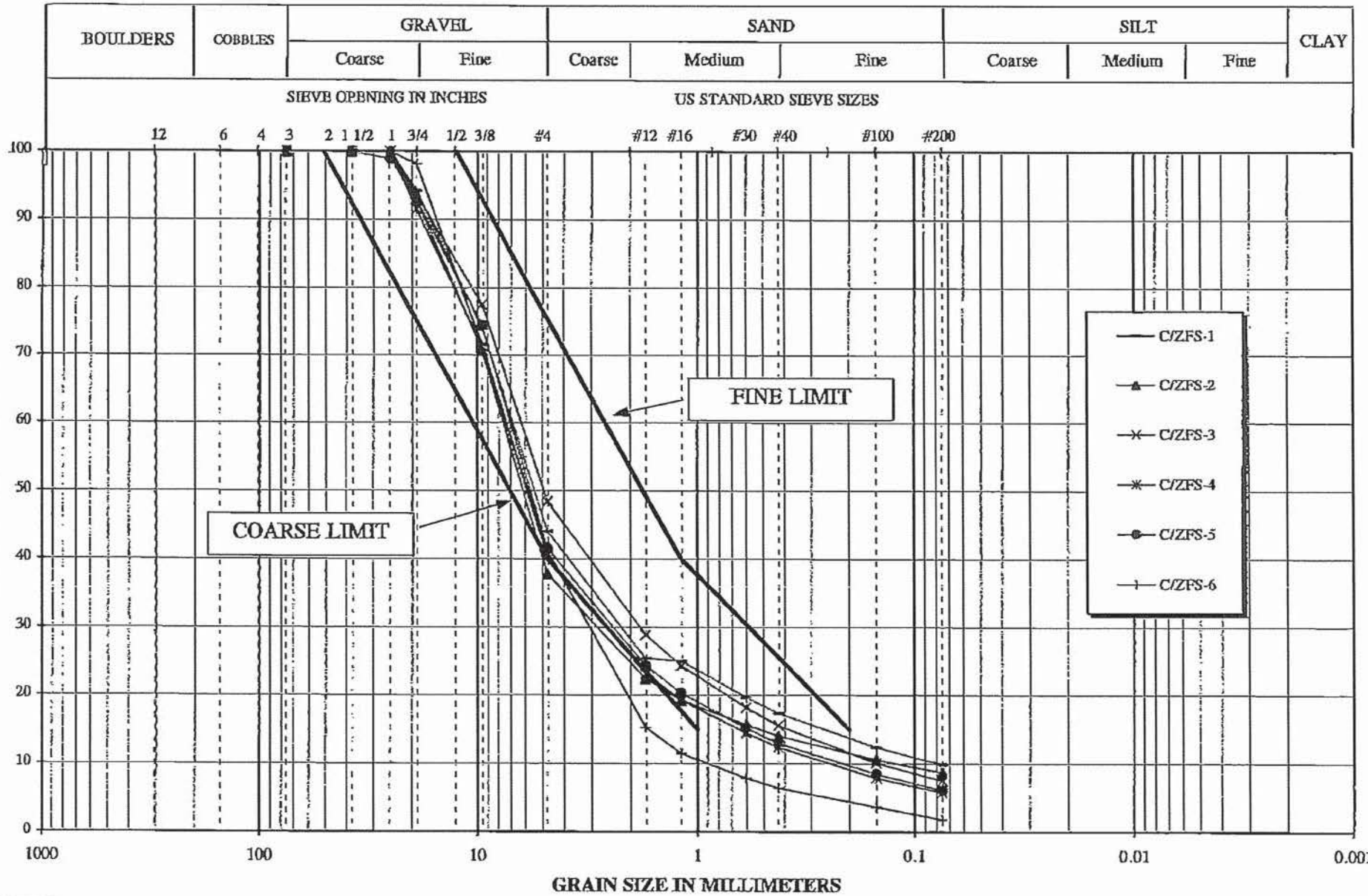
R2 Moisture Content (ASTM D2216)

R3 Particle Size Distribution (ASTM D422)

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KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION.
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE FS CONTROL SAMPLES - GRADATION CURVES



NOV 08 '99 13:42

NOV. 8.1999 2:34PM MOUNT POLLY MINING NO.536 P.43/44

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE FS RECORD TEST SUMMARY SHEET

A:\[R-ZFS-SUM.xls]screen table 08-Nov-99

Date Sampled	Sample No.	Location	Elev. (m)	R2	R3 (Particle Size Distribution)											
				Field m/c	75	37.5	25	19.0	9.5	4.75	1.7	1.180	0.600	0.425	0.150	0.075
					Seive Sizes											
				%	3	1 1/2	1	3/4	3/8	#4	#12	#16	#30	#40	#100	#200
26-Oct-99	R/ZFS-1	M.E. u/s toe drain CH 25+00	-	-	100.0	100.0	100.0	97.3	68.8	49.5	28.9	23.0	14.9	11.2	5.7	1.8
26-Oct-99	R/ZFS-2	M.E. u/s toe drain CH 21+50	-	-	100.0	100.0	100.0	93.8	56.4	34.6	18.6	14.8	10.1	8.0	4.6	2.6
26-Oct-99	R/ZFS-3	M.E. u/s toe drain CH 18+00	-	-	100.0	100.0	100.0	100.0	81.4	54.4	26.6	19.2	11.9	9.4	4.7	1.9
		MEAN		#DIV/0!	100.0	100.0	100.0	97.0	68.9	46.2	24.7	19.0	12.3	9.5	5.0	2.1
		MEDIAN		#NUM!	100.0	100.0	100.0	97.3	68.8	49.5	26.6	19.2	11.9	9.4	4.7	1.9
		MAXIMUM		0.0	100.0	100.0	100.0	100.0	81.4	54.4	28.9	23.0	14.9	11.2	5.7	2.6
		MINIMUM		0.0	100.0	100.0	100.0	93.8	56.4	34.6	18.6	14.8	10.1	8.0	4.6	1.8

Notes:

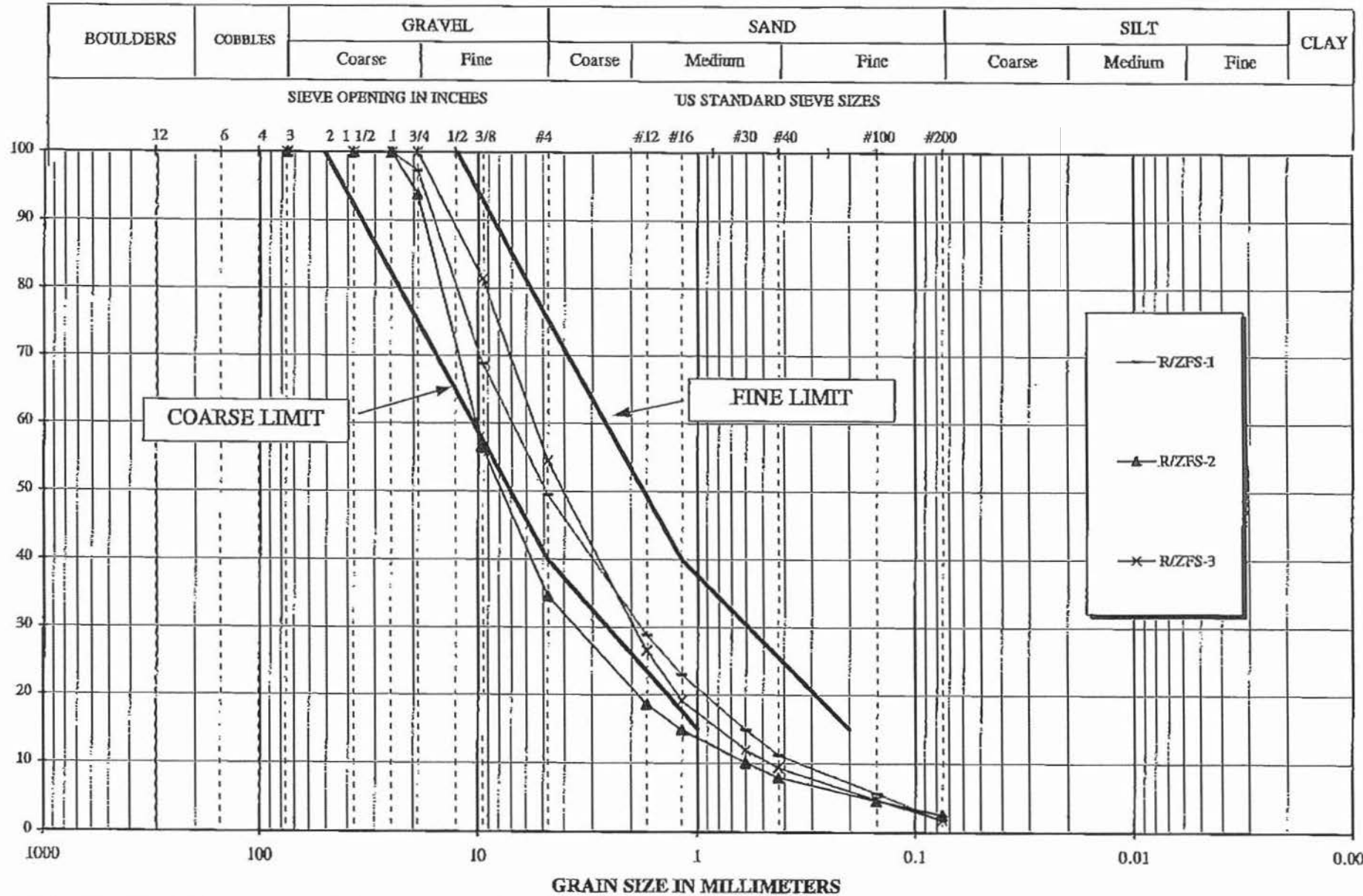
R2 Moisture Content (ASTM D2216)

R3 Particle Size Distribution (ASTM D422)

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250 790 2268 PAGE.043

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CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION.
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE FS RECORD SAMPLES - GRADATION CURVES



Knight Piésold CONSULTING	**DATE:** October 19, 1999	**FILE NO.:**	11162/10.F01/F02/F05/F07
	TIME:	**REF NO.:**	99-030
Knight Piésold, Mt. Polley Site *Fax: (250) 790-2268* *Phone: (250) 790-2215*	**OPERATOR:**	**PAGES:**	1 of 34
	SENDER: s.22	**APPROVED:**	

TO:	KP Vancouver	**FAX :**	604-685-0147
ATTN:	s.22		
CC:	George Headley, Ministry of Energy and Mines		
SUBJECT:	Mount Polley Stage 2C Construction Progress Report #4		

Dear John,

Please find attached Progress Report No. 4 for Stage 2C Construction at the Mount Polley Mine. This document is for the reporting period October 1 to 15, 1999.

Best Regards,

s.22

Knight Piésold

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION
PROGRESS REPORT NO. 4
OCTOBER 1 TO 15, 1999

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 2C construction activities over the reporting period. Knight Piésold Ltd. (KP) carried out QA/QC activities over this period.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- Ken Brouwer (KJB), Project Director (on site October 4 and 5)
- s.22 (IBM), Project Engineer (left site October 7)
- s.22 (LAG), Senior Engineer (arrived on site October 4)

The following MPMC management personnel were on site during the reporting period:

- Eric LeNeve, Tailings Coordinator
- Don Parsons, Mine Superintendent

1.2 WEATHER

Conditions were generally mixed over the reporting period. It was mostly sunny from October 1 to 4. The remainder of the reporting period was generally overcast with some rain and snow on October 12 and 15.

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1.3 CONTRACT DEVELOPMENTS

The following design change request was issued and approved with an amendment during the reporting period:

- Substitution of the Perimeter Embankment upstream Zone CS with Zone B for the Stage 2C raise. The upstream toe drain along the Perimeter Embankment will be postponed until competent beach development along the entire upstream face of the embankment. The Perimeter Embankment right abutment upstream toe drain outlet pipe will be installed as originally intended and the left abutment outlet pipe will be installed along with the upstream toe drain.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Over the reporting period, tailings underflow (Zone CS) cycloned sand was discharged upstream of the Perimeter Embankment crest. A significant beach continues to be present upstream of the Main Embankment Zone CS. Wind erosion of the cycloned sand was not observed over the reporting period.

Tailings beaches and cycloned sand have been established along approximately 90% of the upstream face of the Perimeter Embankment by the end of the reporting period.

SECTION 2.0 - CONSTRUCTION ACTIVITIES

MPMC carried out the following activities during the reporting period:

Cycloned Sand Operations

- Movement and maintenance of the tailings lines and 20" cyclones on the Perimeter Embankment.

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- Continued Stage 2C discharging of Zone CS cycloned sand along the u/s Perimeter Embankment.

- Maintenance and optimization of cyclones.

Downstream Cycloned Sand Trial

- Two test trenches were dug through the cycloned sand cones within the downstream trial berm in order to profile the phreatic surface and collect cycloned sand samples at various depths and locations.

- The test trenches that were excavated within the trial berm area were backfilled with cycloned sand after about 10 days. The trenches were inspected before they were backfilled and both trenches were observed to be drained.

- A second phase containment berm was placed upstream of the initial rockfill containment berm. The second phase containment berm was constructed form cycloned sand and is approximately as high as the first phase rockfill berm.

- Cycloning within the Phase 2 downstream trial berm started on October 15. Two cyclones (#1 and #3) are being used to discharge along the length of the trial berm area.

Stage 2C Embankment Construction

- Dozer foundation stripping continued along the Main Embankment downstream Stage 3 footprint area along the left abutment.

- Zone B & S fill placement and compaction was carried out within the Perimeter Embankment area from CH 28+53 to CH 32+50 to approximately El. 937 m from October 4 to 7 and October 12.

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- Zone S fill was placed to about El. 937 m at the Main Embankment right abutment on October 5 to fill the local low area at the tie-in to original ground. The work was suspended due to construction activities at the Perimeter Embankment and will be completed during Stage 2C Zone S placement.

- The Main Embankment left and right abutment upstream toe drain outlet pipes were installed. In each case the pipes and seepage collars were encased in 25 MPa mass concrete, except for the downstream seepage collar of each outlet pipe that is within the 3 m long filter sand section. These seepage collars were bedded in a filter sand/bentonite mix and backfilled with a 10% till/bentonite mix.

- The upstream area along the Main Embankment crest was cleared and dewatered in preparation for the installation of the upstream toe drain.

- Development of Borrow Area #2 continued. The locations of the geological sections through the borrow area and the active face were surveyed within the active area of the borrow.

Fill Placement Summary

Embankment Zone	Volume Placed over Period (m^3)	Total Volume to Date (m^3)	Total Volume Required (m^3)	Percent Complete (%)
S (till core)	1,100	2,760	65,000	4.2
B (till)	4,900	12,250	32,000	38.3
CBL (rockfill)	0	0	18,600	0
F (filter sand)	0	0	2,300	0

Note: The fill volumes required for Stage 2C have been updated on the basis of the Perimeter Embankment upstream Zone CS/B design change.

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Miscellaneous

- Zone T rockfill was placed upslope of the bio-solids containment area to create a pad for the off-loading of the bio-solids transport trucks.

- The barge channel access road was widened with rockfill in preparation for moving the barge up the channel.

SECTION 3.0 - KNIGHT PIÉSOLD ACTIVITIES

3.1 GENERAL

KP activities over the reporting period included the following:

Downstream Cycloned Sand Trial

- The Plane D and F piezometers within downstream trial berm were monitored daily and the piezometer plots were updated.

- The cycloned sand within the downstream trial berm was inspected by excavating two test trenches. The phreatic surface was determined within the test trenches and the in-situ density and moisture content of the sand was measured with a nuclear densometer at various locations and depths along the trenches. Samples of cycloned sand were taken at various depths and locations for laboratory analyses.

- The construction of the containment berm for the second phase of the downstream cycloned sand trial and the start of the second phase cycloning was monitored.

Stage 2C Embankment Construction

- The geological sections through Borrow Area #2 were completed on the basis of the 1999 Borrow Area #2 Material Investigations.

- Nuclear densometer record testing was carried out on all placed and compacted Zone B and S materials, to measure achieved field dry density and moisture content values. The minimum acceptable field density requirement for compacted Zone B material is 92% of Standard Maximum Dry Density (SMDD), and 95% SMDD for Zone S core material. The Zone B and S was placed to the required specifications.

- Monitored the installation of the Main Embankment upstream toe drain outlet pipes and cast test cylinders for 3, 7 and 28 day breaks. The cylinders were delivered to the MTS laboratory in Prince George for the required break tests.

- Inspected the preparation and dewatering of the area upstream of the Main Embankment crest for installation of the upstream toe drain.

Miscellaneous

- Progress Report No. 3 was issued for the reporting period September 15 to 30, 1999.

- Daily summaries of QA/QC and construction activities were submitted to MPMC.

- A preliminary lab requirement summary table was submitted to MTS in Prince George for the Stage 2C QA/QC program. MTS provided a quote for completing the required laboratory work.

3.2 MONITORING

3.2.1 General

On-going monitoring of instrumentation was continued over the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

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3.2.2 Vibrating Wire Piezometers

The Perimeter Embankment instrumentation Planes D and F piezometers within the downstream cycloned sand trial berm were monitored daily by Knight Piésold, and are presented on Figures 1 to 10. As shown on these plots, piezometric pressures are still dissipating marginally and indicate virtually drained conditions following completion of the first phase cycloned sand deposition within the downstream trial area on 28-Sept-99.

MPMC representatives read all other active TSF piezometers on October 6 and 13. The following observations are based on the data from the attached piezometric summary plots shown on Figures 11 to 20.

- Foundation Piezometers
  All foundation piezometers have generally remained static and have not reacted to placement of upstream Zone CS material.

- Fill Piezometers
  Pore pressures in the vicinity of B2-PE2-03 (Zone S), C2-PE2-05 (Zone S) and A2-PE2-03 (Zone B) have increased, likely as a result of Zone CS placement. The remainder of the piezometers placed in the engineered fill have remained relatively static.

- Drain Piezometers
  All piezometers located within the drains have remained static. This indicates that the drains are free draining and are functioning as designed.

- Tailings Piezometers
  Plane C tailings piezometers were reacting to the rise in pond level until they stopped functioning at the end of May, 1999. Plane B tailings piezometers continue to mimic the pond level, while the tailings piezometers at Plane A have reacted to the placement of Zone CS material.

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3.2.3 Drain Flows

Due to the high water level in the Seepage Collection Pond at the Main Embankment, the outlets of the foundation drains have been flooded, and the flows have not been recorded since December 22, 1998. MPMC plans to lower the level of the pond in order to continue monitoring of all foundation drain flows. A summary of measured foundation drain flows is presented in Table 1.

MPMC constructed small weirs at the Main Embankment Outlet Drains to monitor Chimney Drain flows. No data has been collected due to the low observed flow levels.

The flows from outlet drains OD-4, 5, and 6 were measured on October 5, since then the water level in the Perimeter Embankment Seepage Collection Pond has been too high to measure flows from the outlet drains. The flows, summarized on Table 2 and Figure 21, increased during the first phase cycloned sand deposition within the downstream trial berm, and began dissipating prior to completion of cycloned sand discharge.

3.2.4 Standpipe Piezometer Levels

The water level in standpipe piezometer GW96-9 (downstream of the right abutment of the Main Embankment) has not been monitored this season due to a break in the pipe. The pipe will be repaired in the future and readings will recommence.

3.2.5 Survey Monuments

New survey points will be installed following the completion of Stage 2C construction in order to measure any settlements prior to the beginning of Stage 3 Construction.

3.3 QA/QC and Laboratory Testing

Over the reporting period, bi-weekly composite samples of overflow and underflow were collected by MPMC from each cyclone. In addition, bi-weekly composite sampling of the mill feed was

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carried out. All bi-weekly composite cycloned sand underflow, overflow and mill feed tailings samples are tested by MPMC personnel.

One Record Zone S sample was collected during the reporting period. Testing of this sample by MTS is still underway.

Seven (7) cycloned sand samples were collected from various locations and depths within the downstream cycloned sand trial test trenches. The samples were sent to Vancouver for laboratory testing.

Submitted by,

s.22

Knight Piésold

Distribution: Eric LeNeve, Tailings Coordinator, MPMC, Site
Don Parsons, Mine Superintendent, MPMC, Site
George Headley, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, Project Director/John Wilkinson, Project Manager, KP Vancouver

OCT 20 '99 08:14

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-02
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 935.02m)

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CONSULTING ENGINEERS

FIGURE 1

INVESTIGATION KCB-2 Page 182 of 500
250 790 2268 PAGE.011

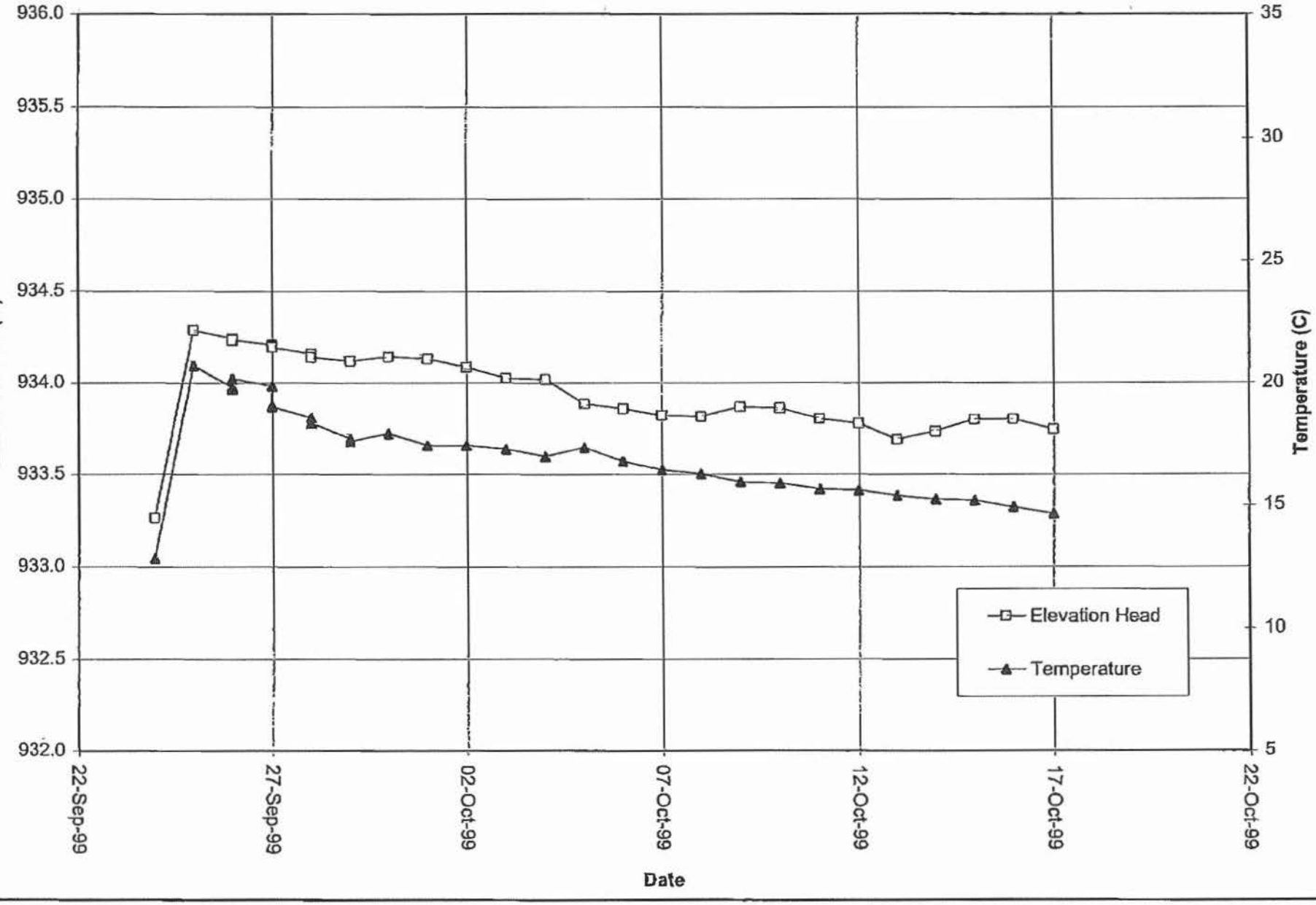
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-03
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 934.17m)

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FIGURE 2

OCT 20 '99 08:14
INVESTIGATION KCB-2 Page 183 of 500
250 790 2268 PAGE.012

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-04
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 933.27m)

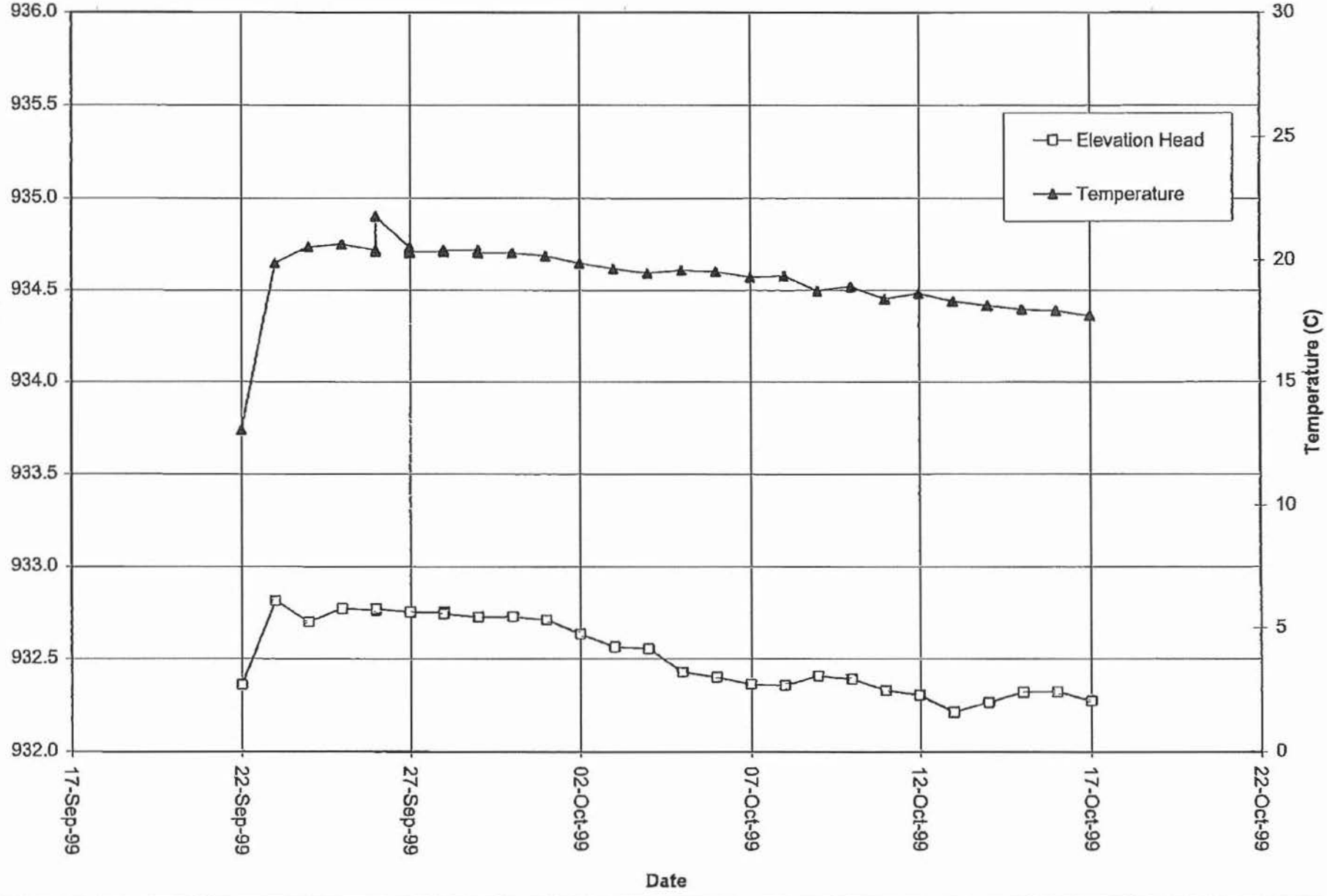


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FIGURE 3

OCT 20 '99 08:14 2508 P.013
INVESTIGATION KCB2 Page 184 of 500

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-05
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.36m)



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FIGURE 4

OCT 20 '99 08:14
INVESTIGATION KCB-2 Page 185 of 500
250 790 2268 PAGE.014

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-06
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.09m)

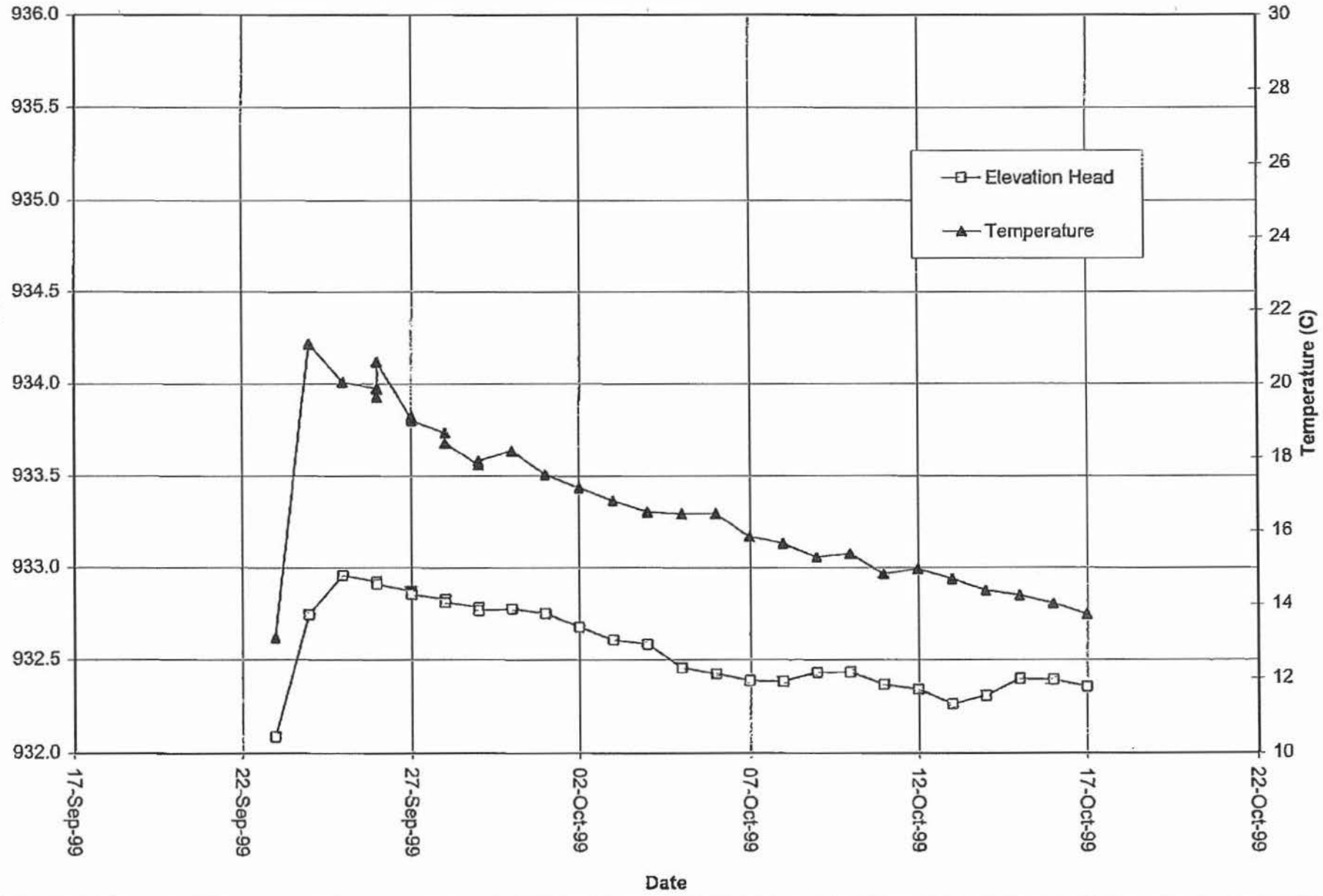
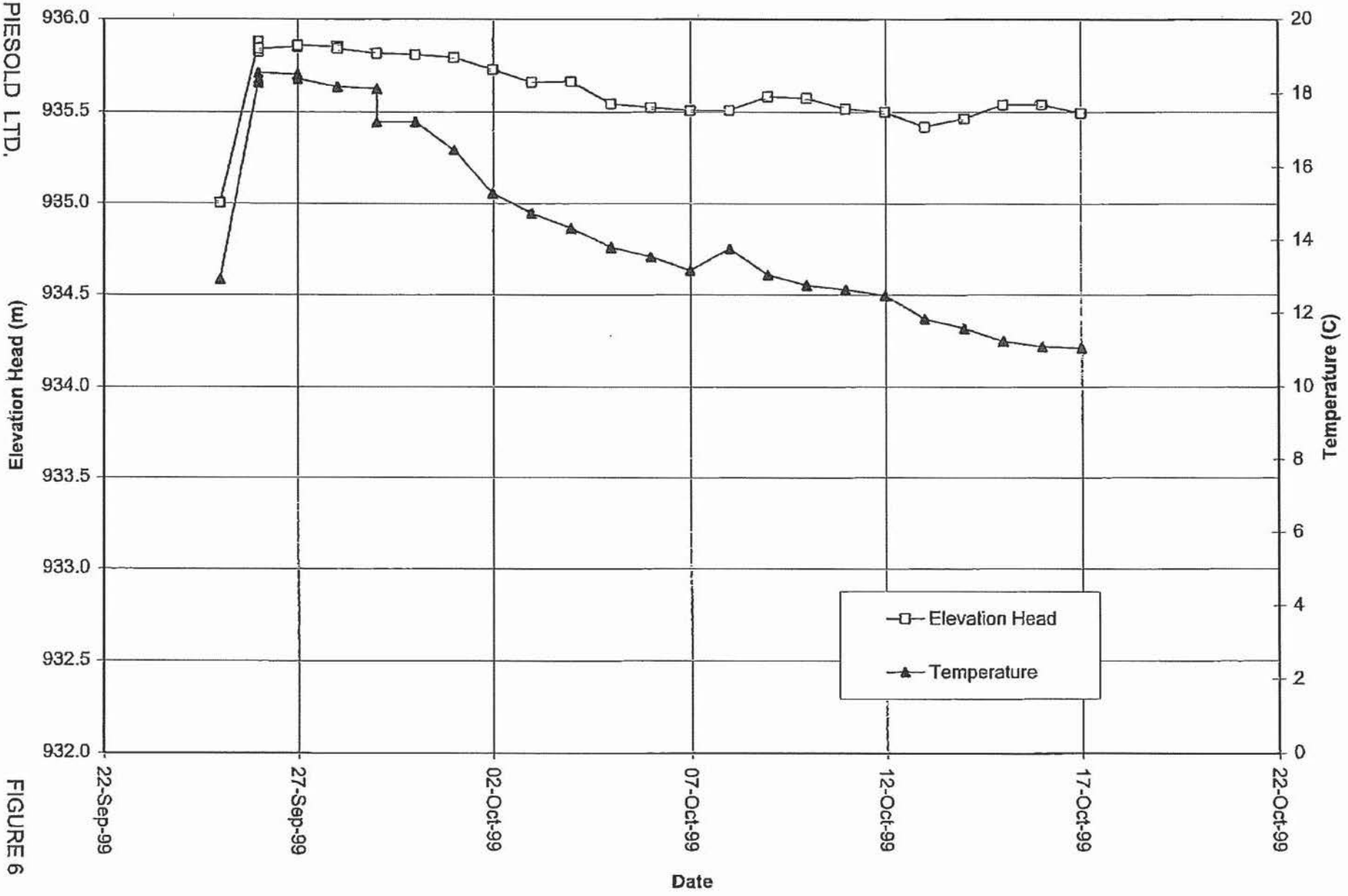


FIGURE 5

OCT 20 '99 08:14
INVESTIGATION KCB-2 Page 186 of 500
250 790 2268 PAGE.015
OCT.20.1999 8:04AM MOUNT POLLY MINING P.25/54

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-01
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 935.00m)



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FIGURE 6

OCT 20 '99 08:14 INVESTIGATION KCB-2 Page 187 of 500 250 790 2268 PAGE.016

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-02
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 934.16m)

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FIGURE 7

OCT 20 '99 08:15
INVESTIGATION KCB-2 Page 188 of 500
250 790 2268 PAGE.017

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-03
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 933.28m)

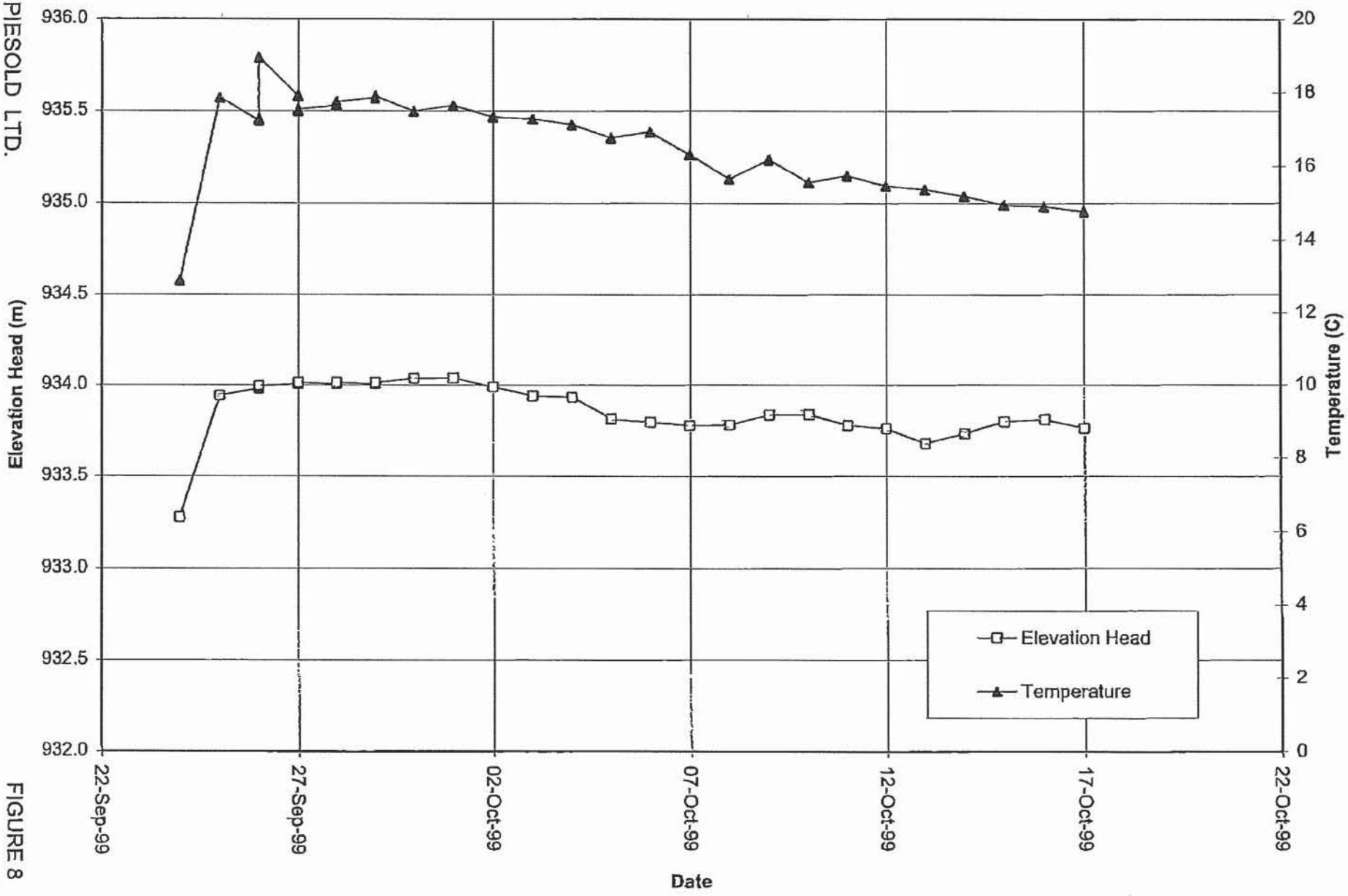


FIGURE 8

OCT 20 '99 08:15
INVESTIGATION KGB-2 Page 189 of 500
250 790 2268 PAGE.018
OCT.20.1999 8:08AM MOUNT POLLEY MINING NO.113 P.18/34

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-04
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.38m)

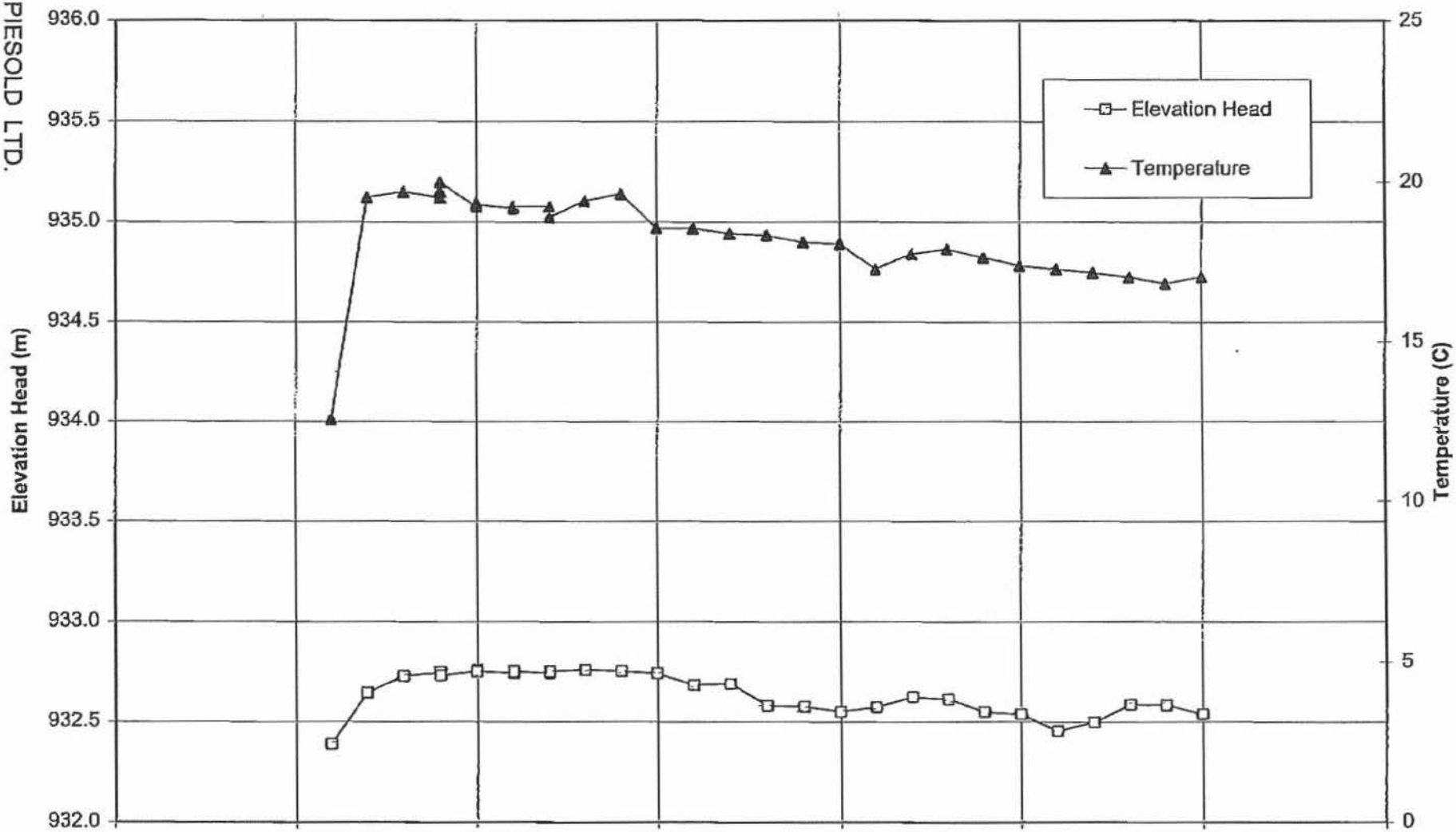


FIGURE 9

OCT 20 '99 08:15
INVESTIGATION KCB-2 Page 190 of 500
250 790 2268 PAGE.019

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-05
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.10m)

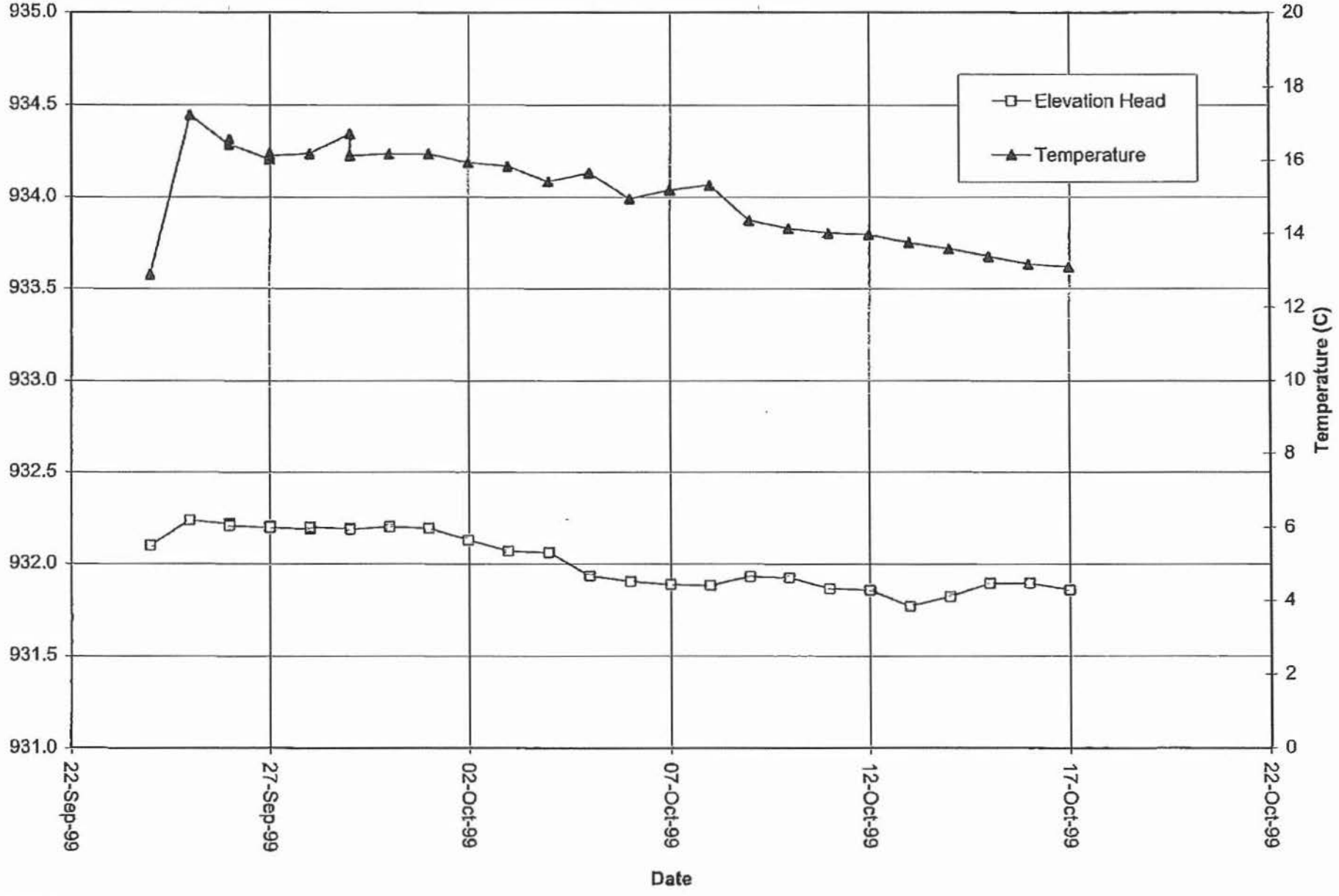
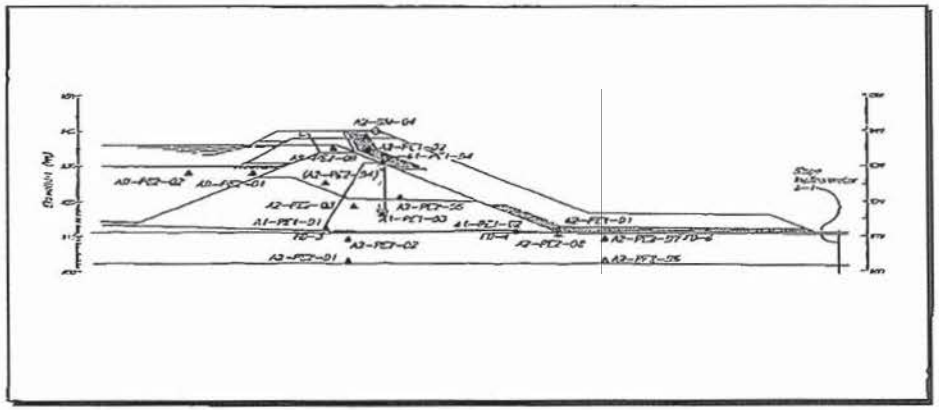


FIGURE 10

OCT 20 '99 08:15
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250 790 2268 PAGE.020

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS



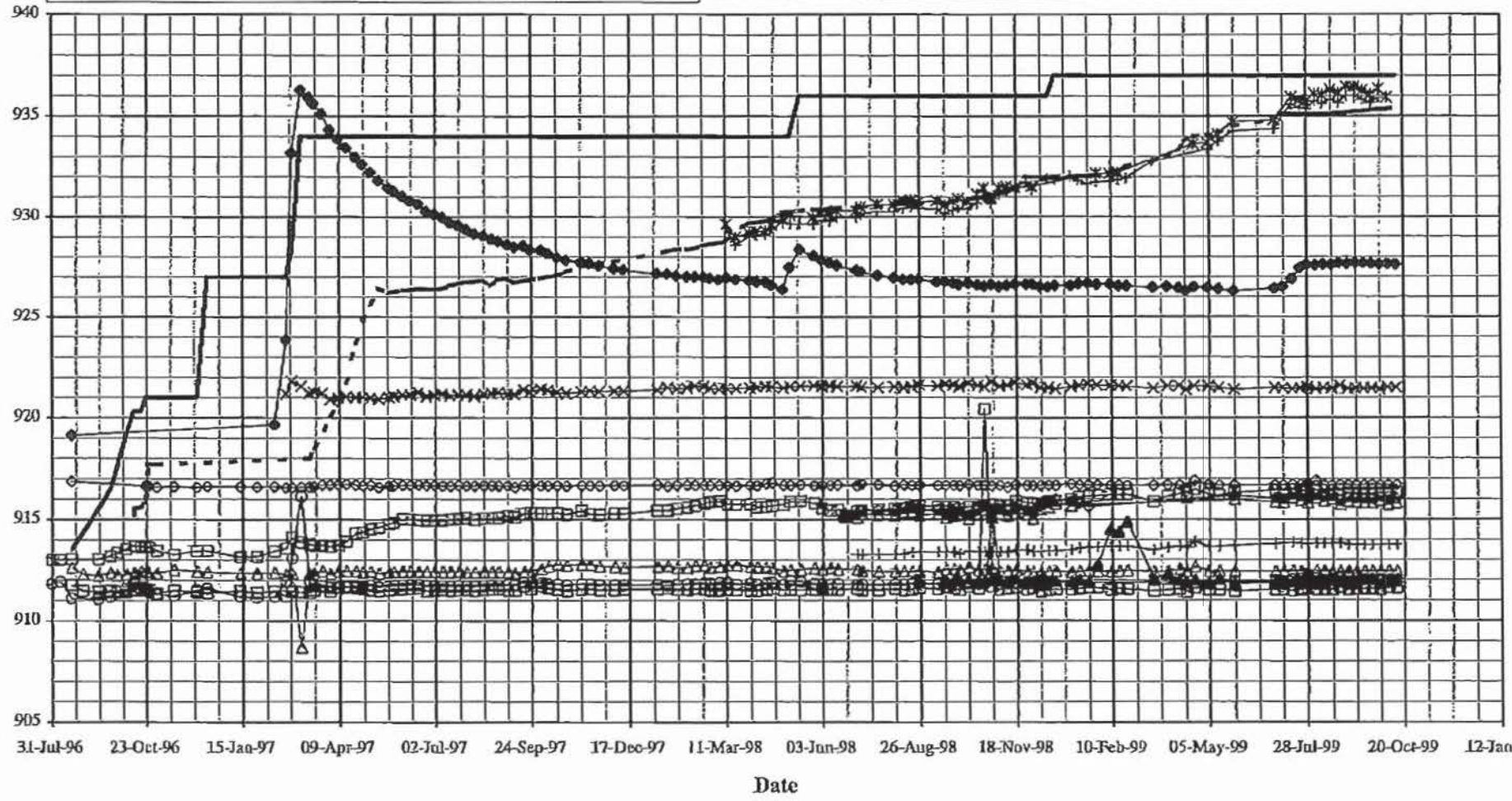


FIGURE 11

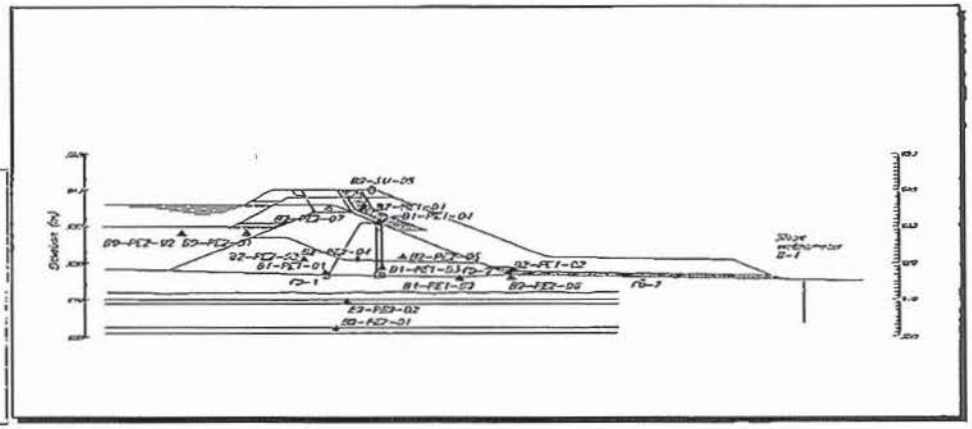
OCT 20 '99 08:16 P.021
INVESTIGATION KCB-2 Page 192 of 500
250 790 2268 PAGE.021

OCT 20 '99 08:16 INVESTIGATION KCB-2 Page 193 of 500 250 790 2268 PAGE.022

OCT.20.1999 8:05AM MOUNT POLLEY MINING INC. P.22/34

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS



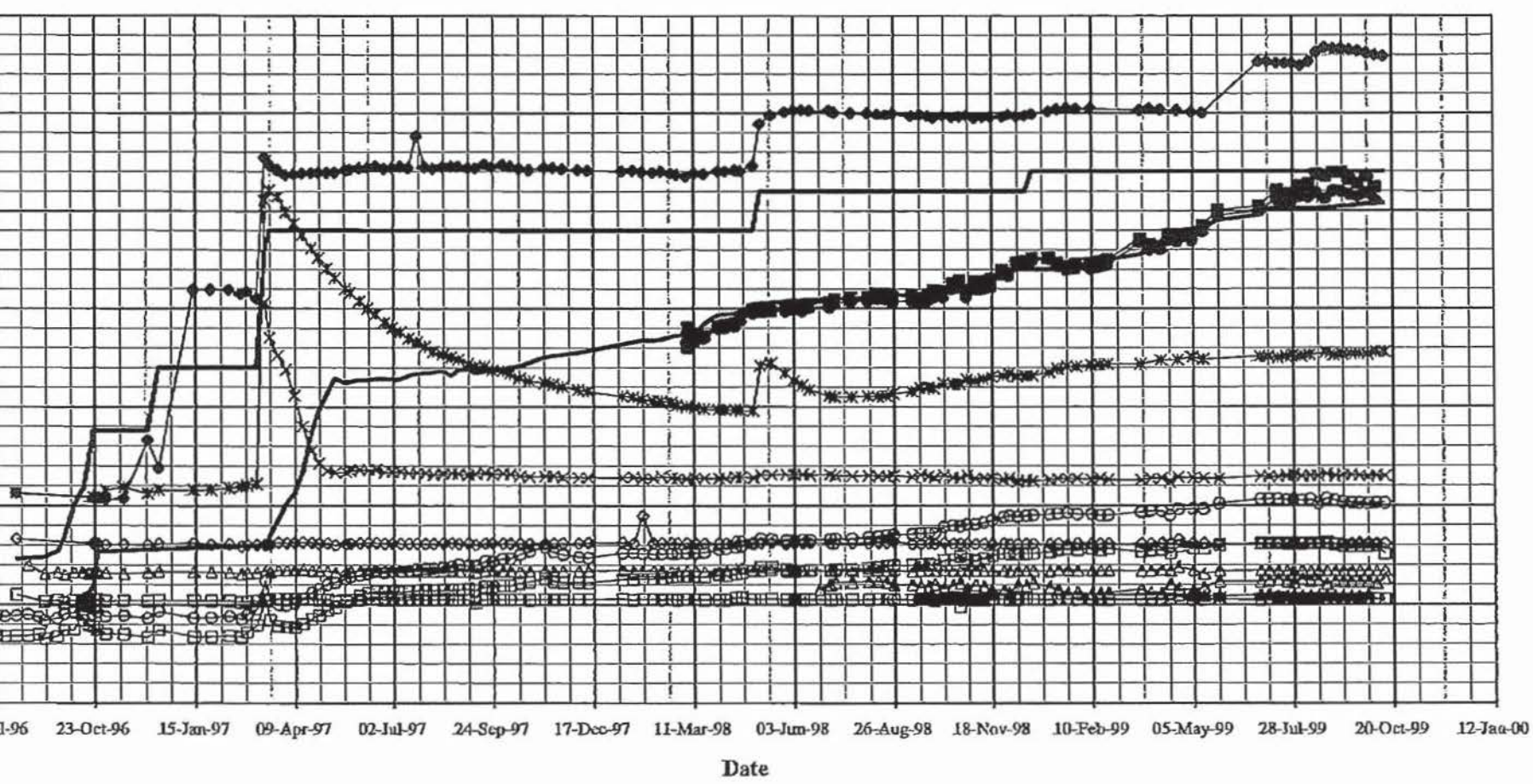
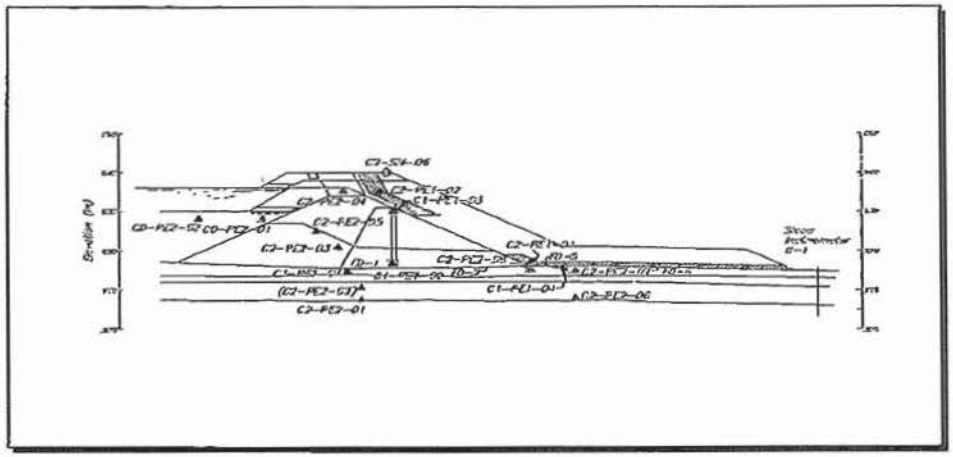


FIGURE 12

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS



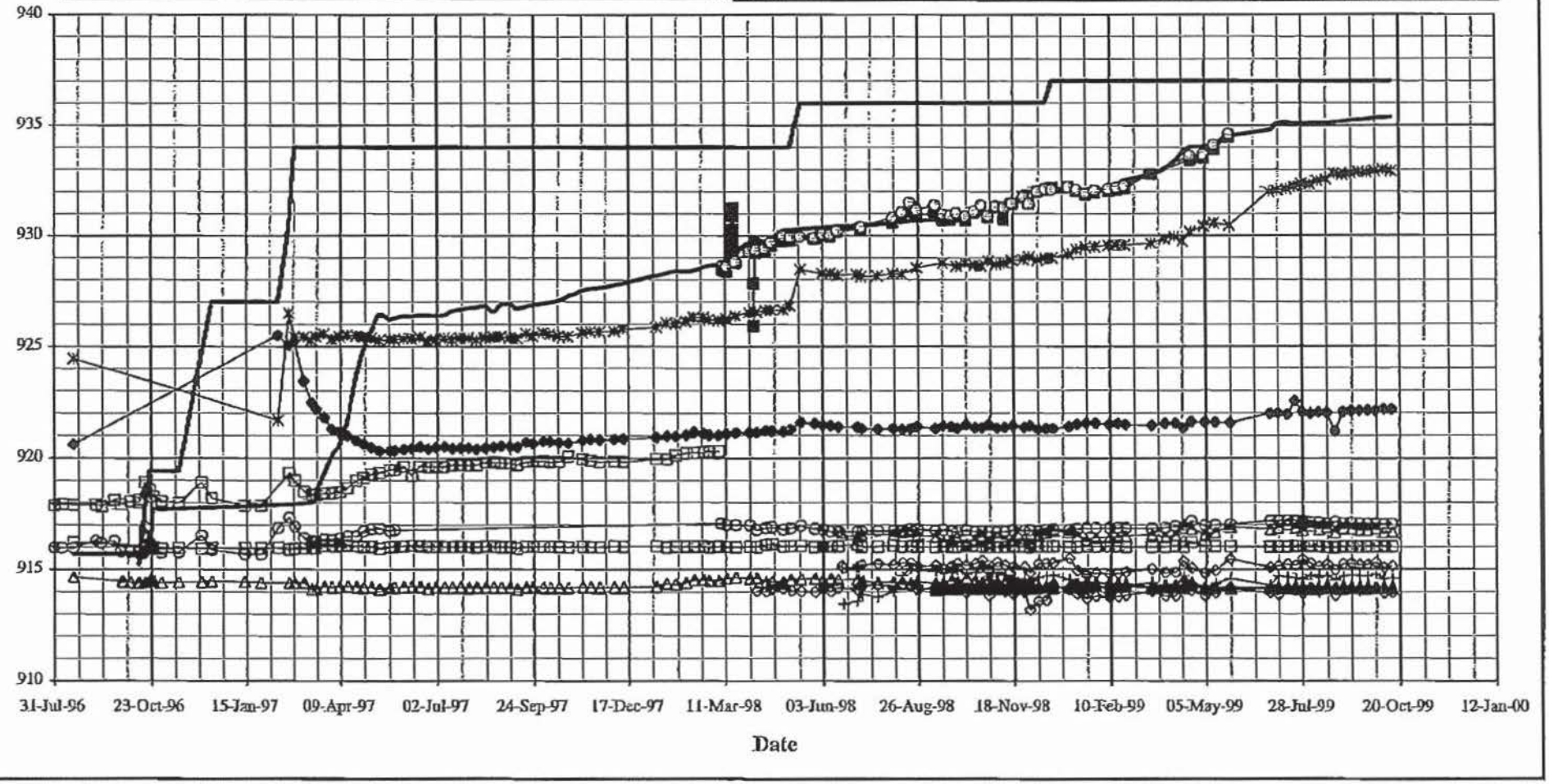
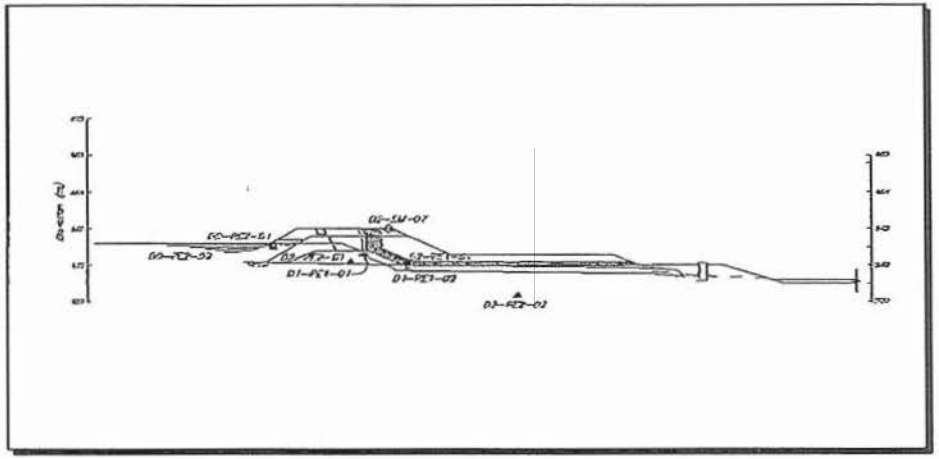


FIGURE 13

OCT 20 '99 08:17
INVESTIGATION KCB-2 Page 194 of 500
250 790 2268 PAGE.023

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS

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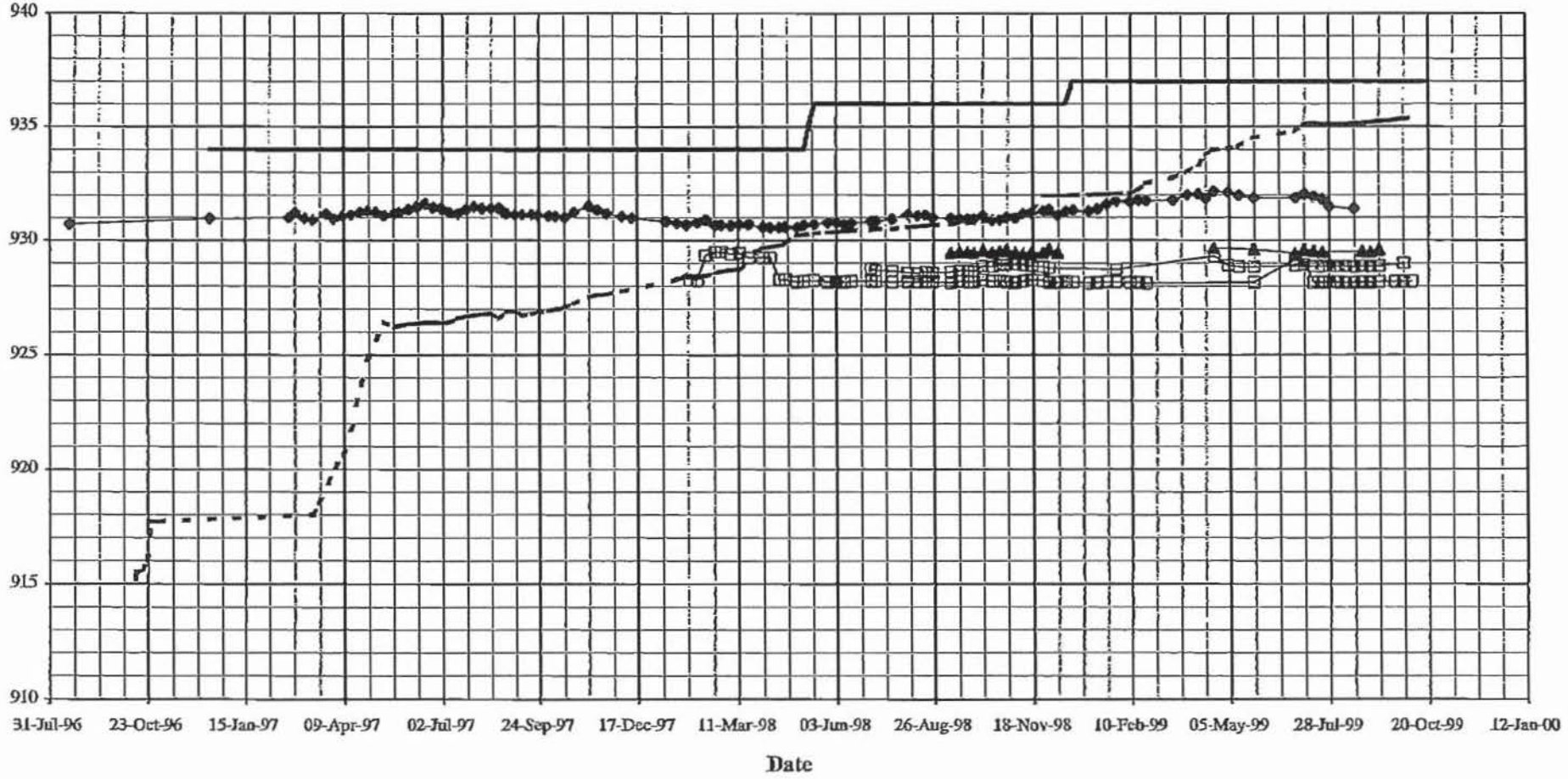


FIGURE 14

OCT 20 '99 08:17
INVESTIGATION KCB-2 Page 195 of 500
250 790 2268 PAGE.024

OCT 20 '99 08:17

OCT.20.1999 8:19AM MOUNT POLLEY MINING INC.

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

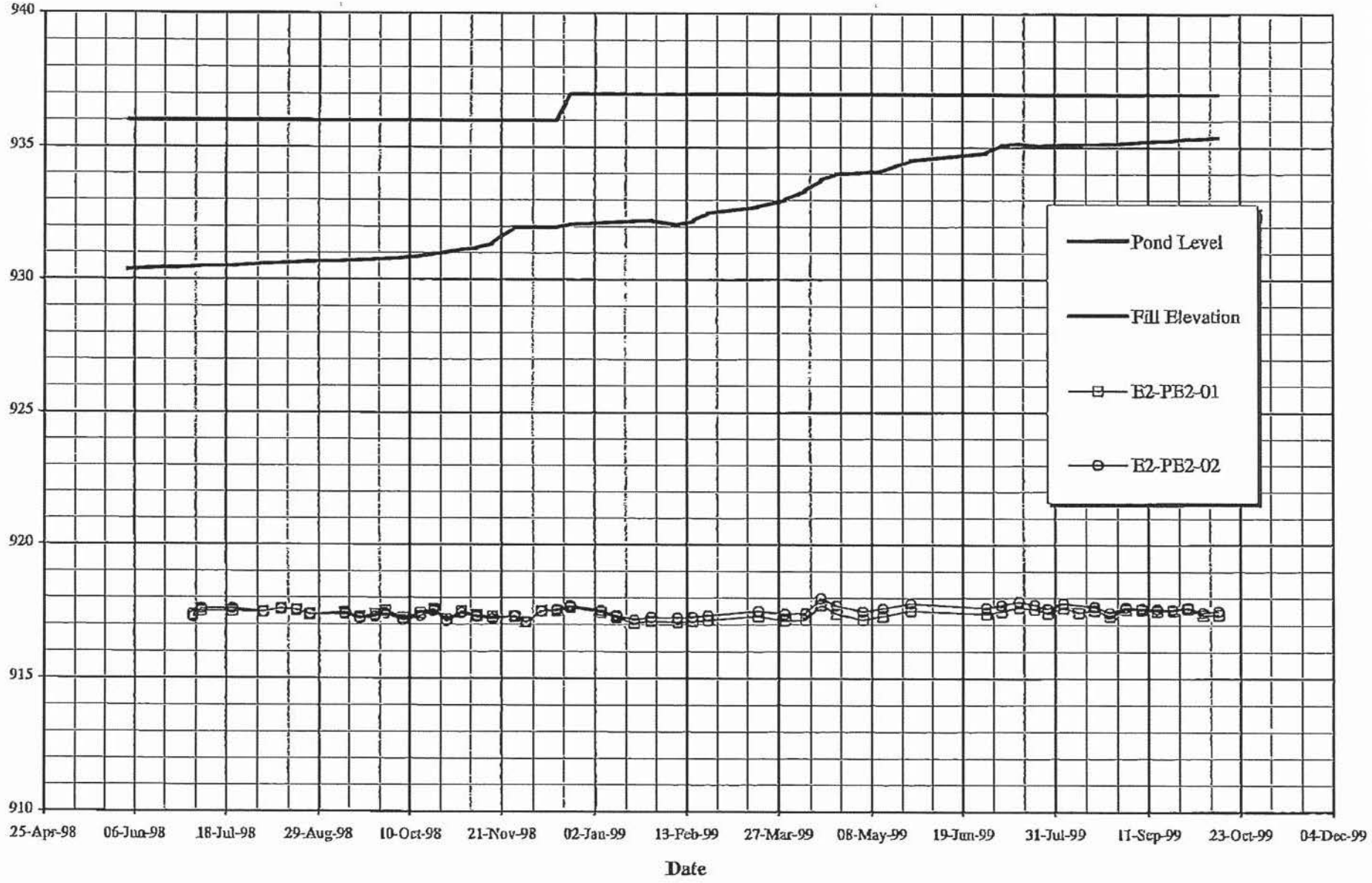


FIGURE 15

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250 790 2268 PAGE.025

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE A FOUNDATION PIEZOMETERS

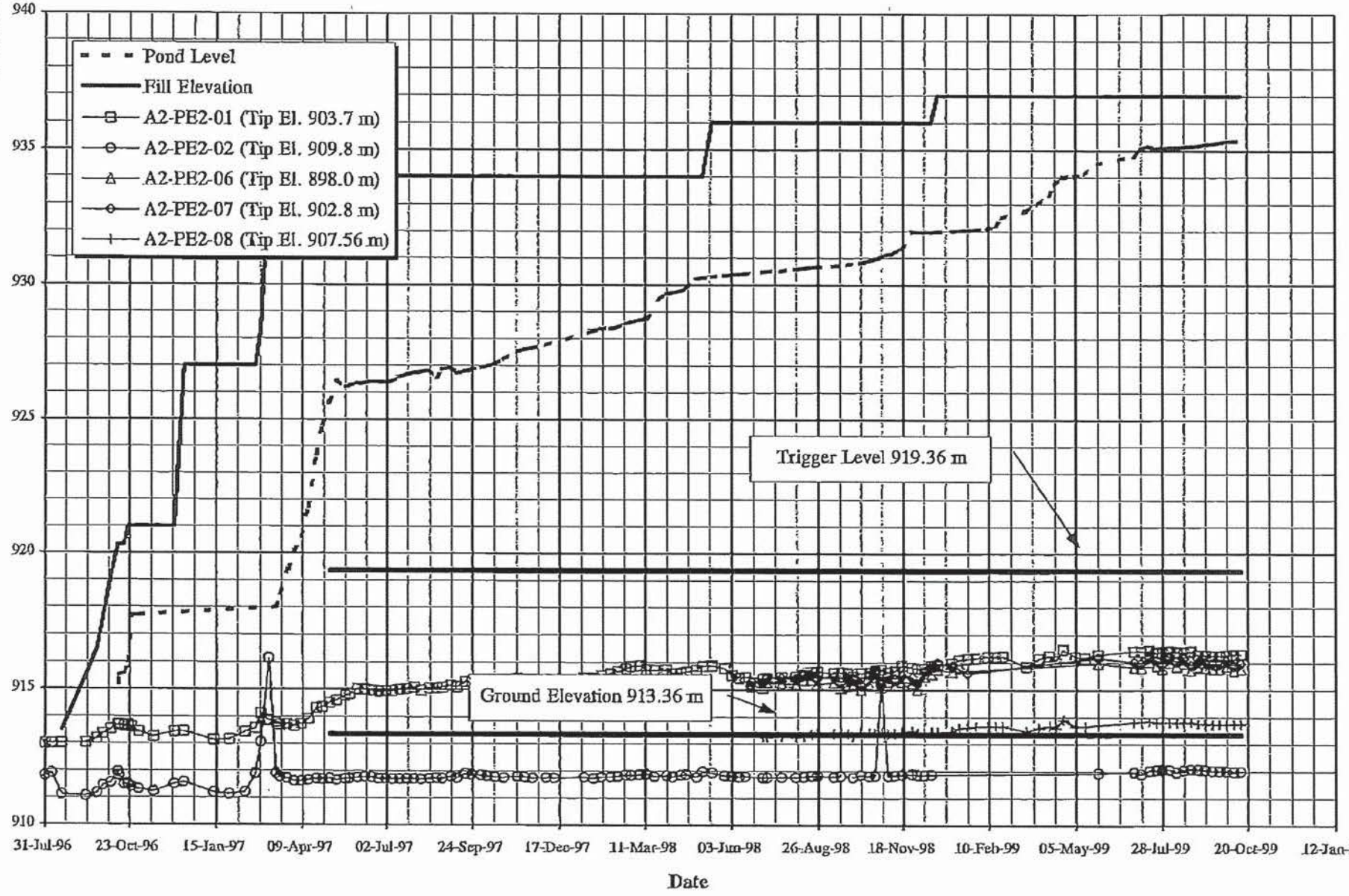


FIGURE 16

OCT 20 '99 08:18
INVESTIGATION\98-225\DWG\98225197.PLT
OCT.20.1999 8:10AM MOUNT POLLY MINING NO.773 P.26/34

OCT 20 '99 08:18 INVESTIGATION KCB-2 Page 198 of 500 250 790 2268 PAGE.027

OCT.20.1999 8:11AM MOUNT POLLEY MINING 250 790 2268 P.27/34

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE B FOUNDATION PIEZOMETERS

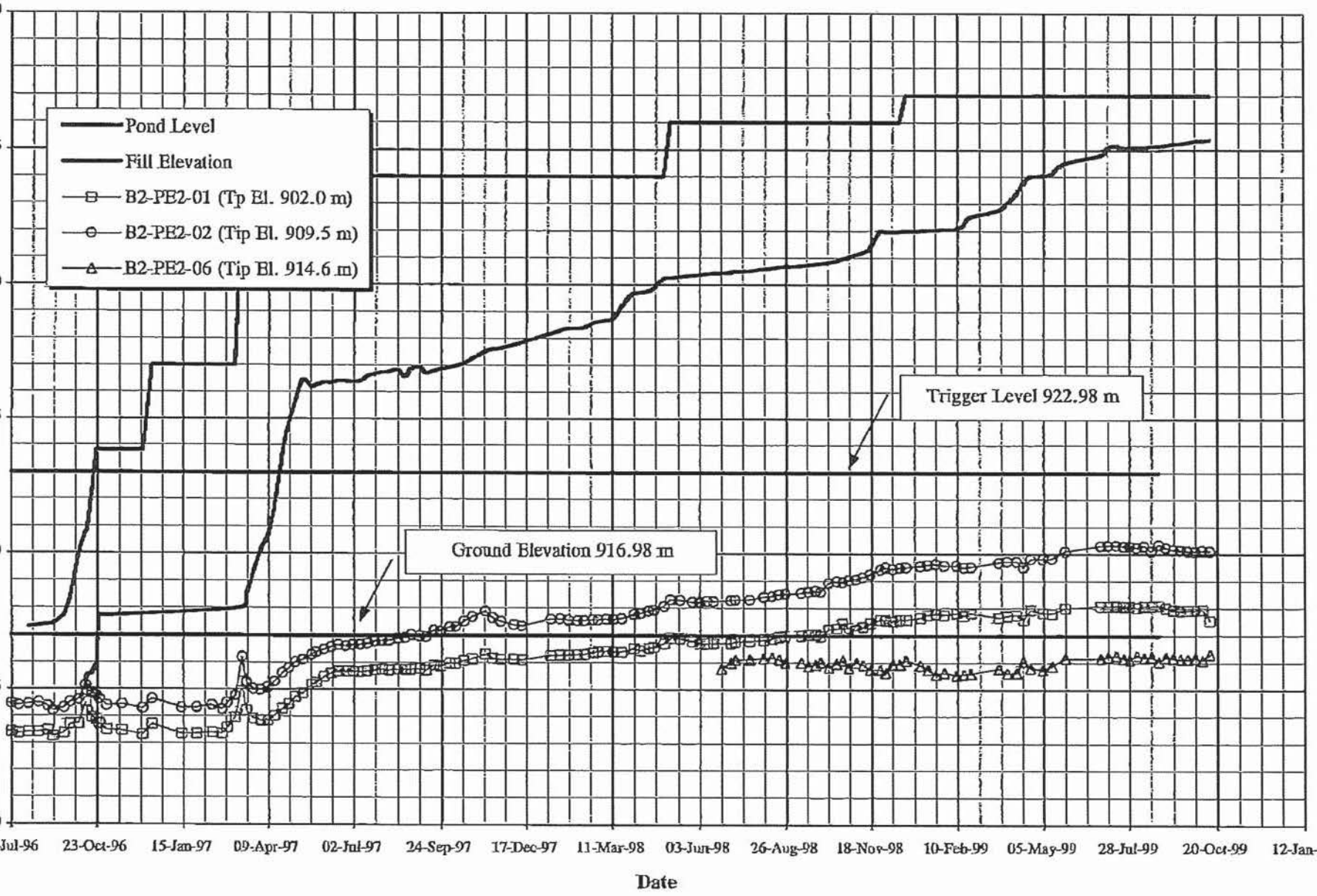


FIGURE 17

OCT 20 '99 08:18

OCT.20.1999 8:11AM MOUNT POLLEY MINING NO.113 P.29/54

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C FOUNDATION PIEZOMETERS

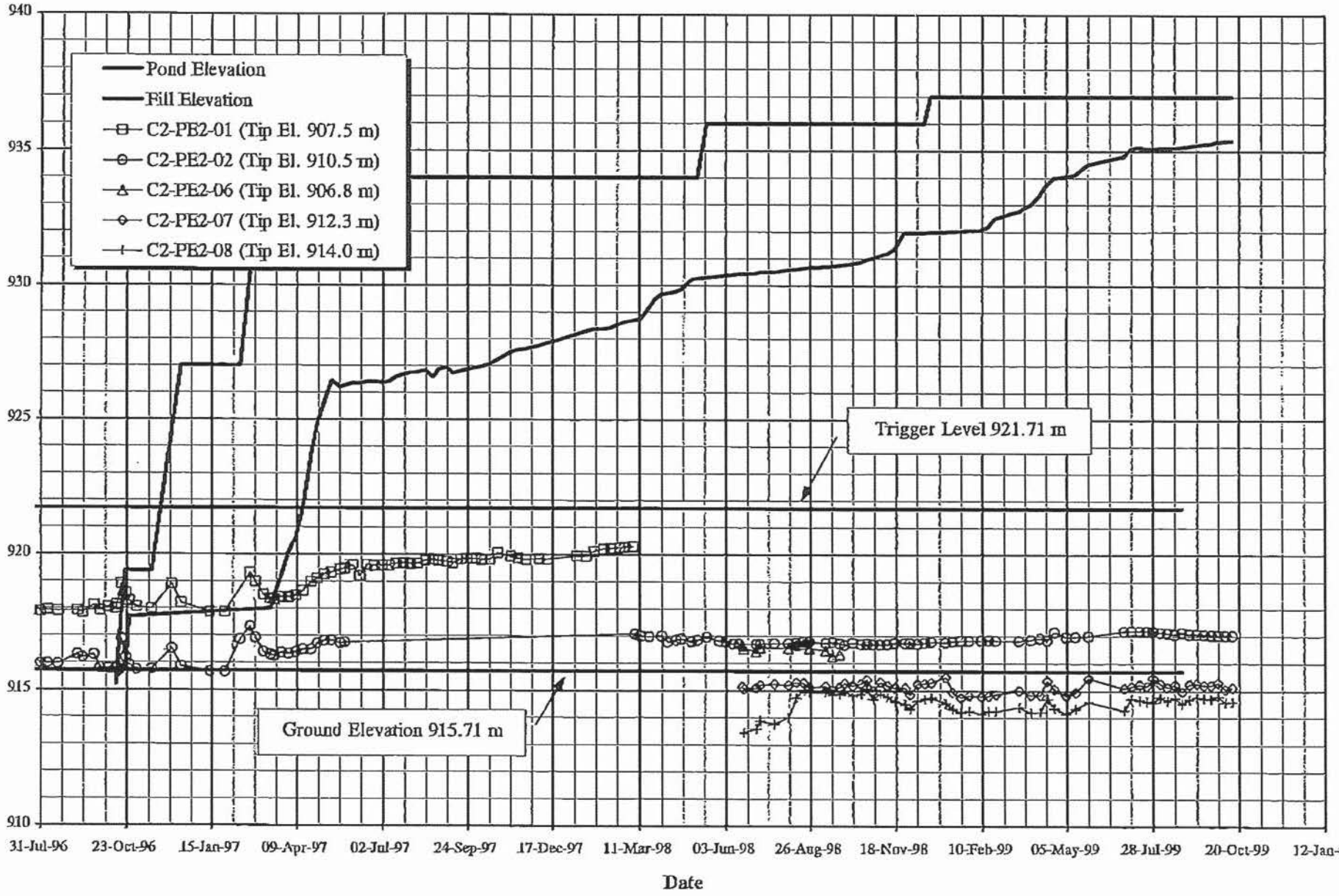


FIGURE 18

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OCT 20 '99 08:19 OCT.20.1999 8:11AM MOUNT POLLY MINING INV.#13 P.29/54

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE D FOUNDATION PIEZOMETERS

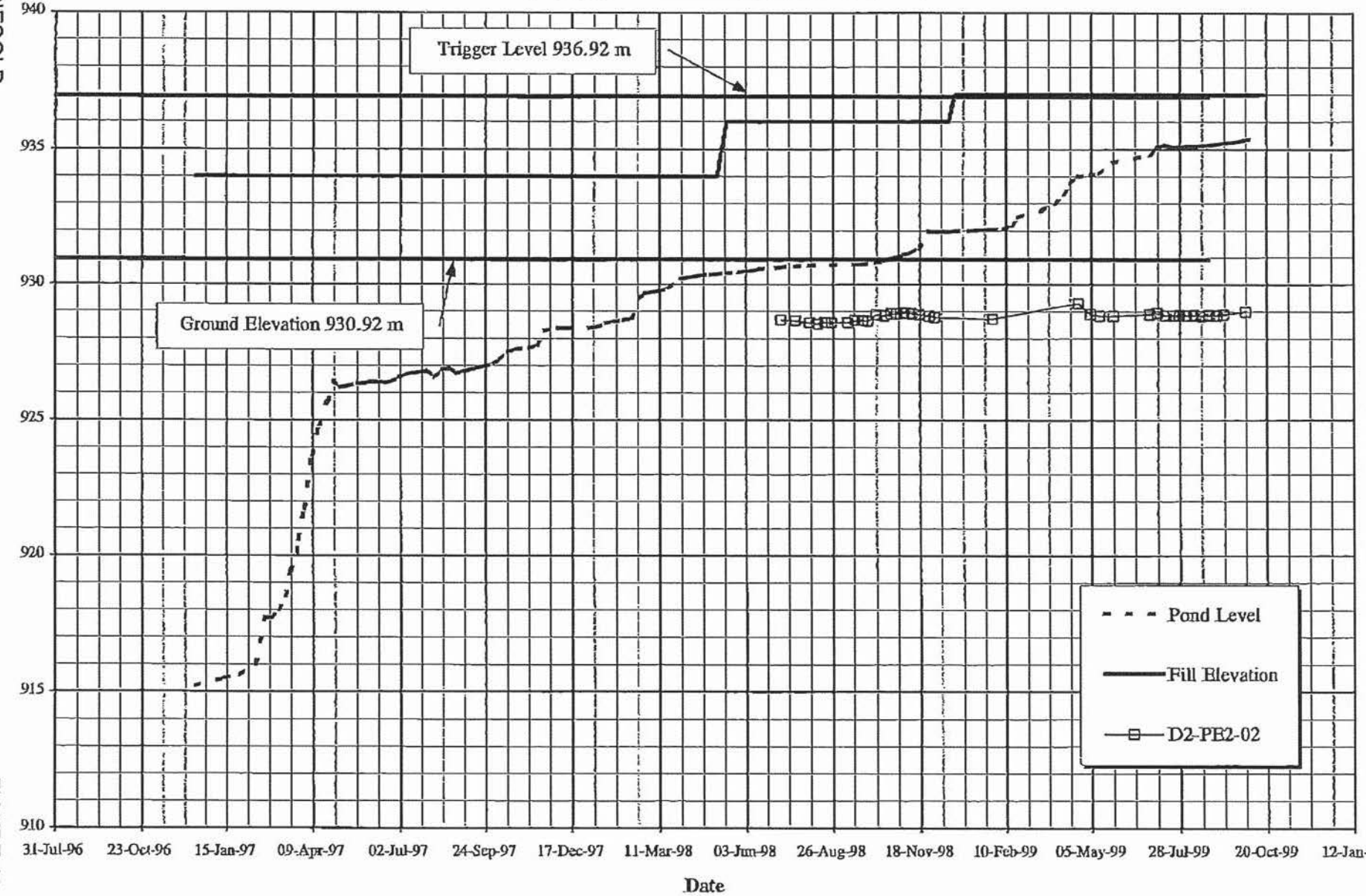


FIGURE 19

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OCT 20 '99 08:19

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE E FOUNDATION PIEZOMETERS

KNIGHT PIESOLD CONSULTING

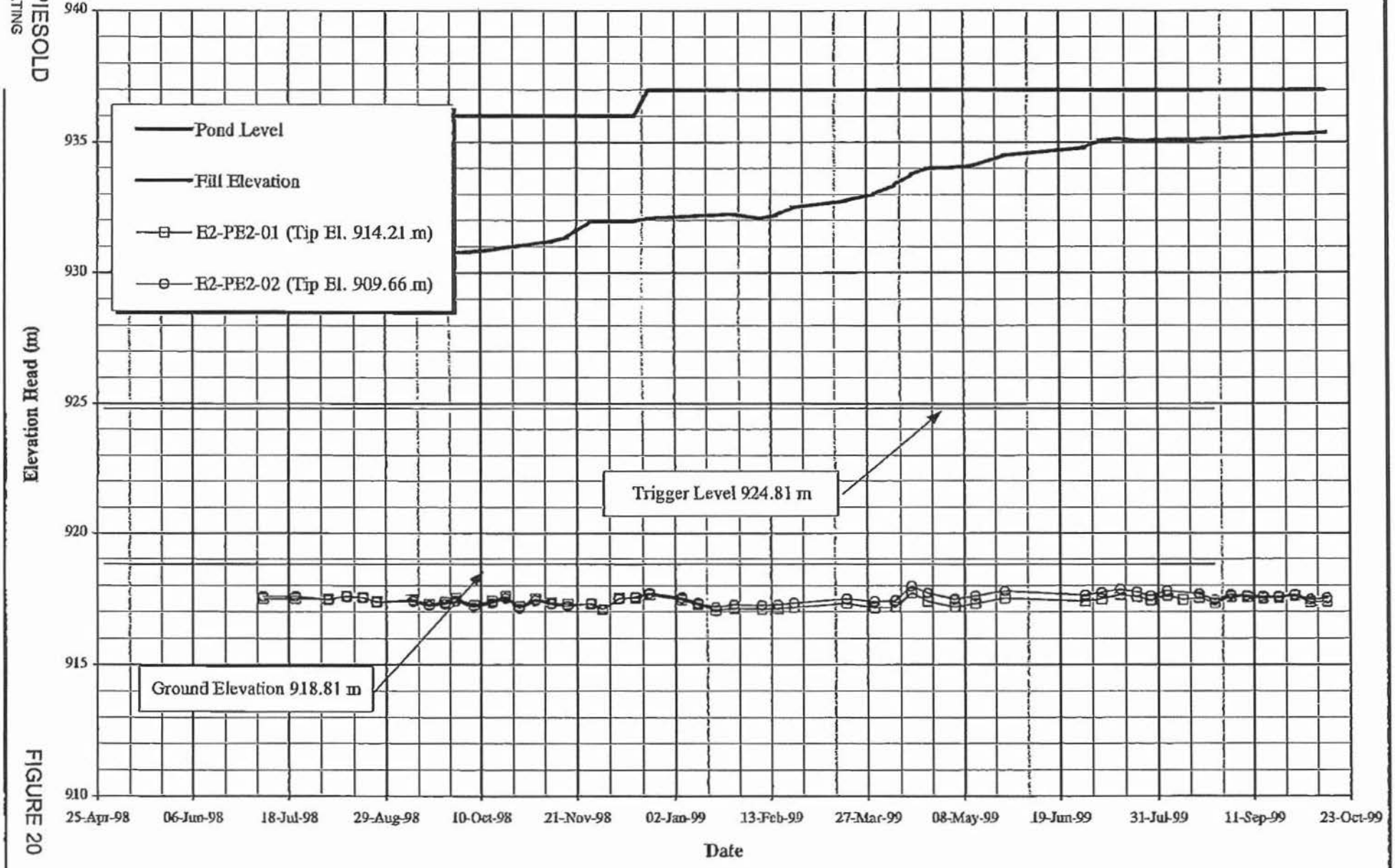
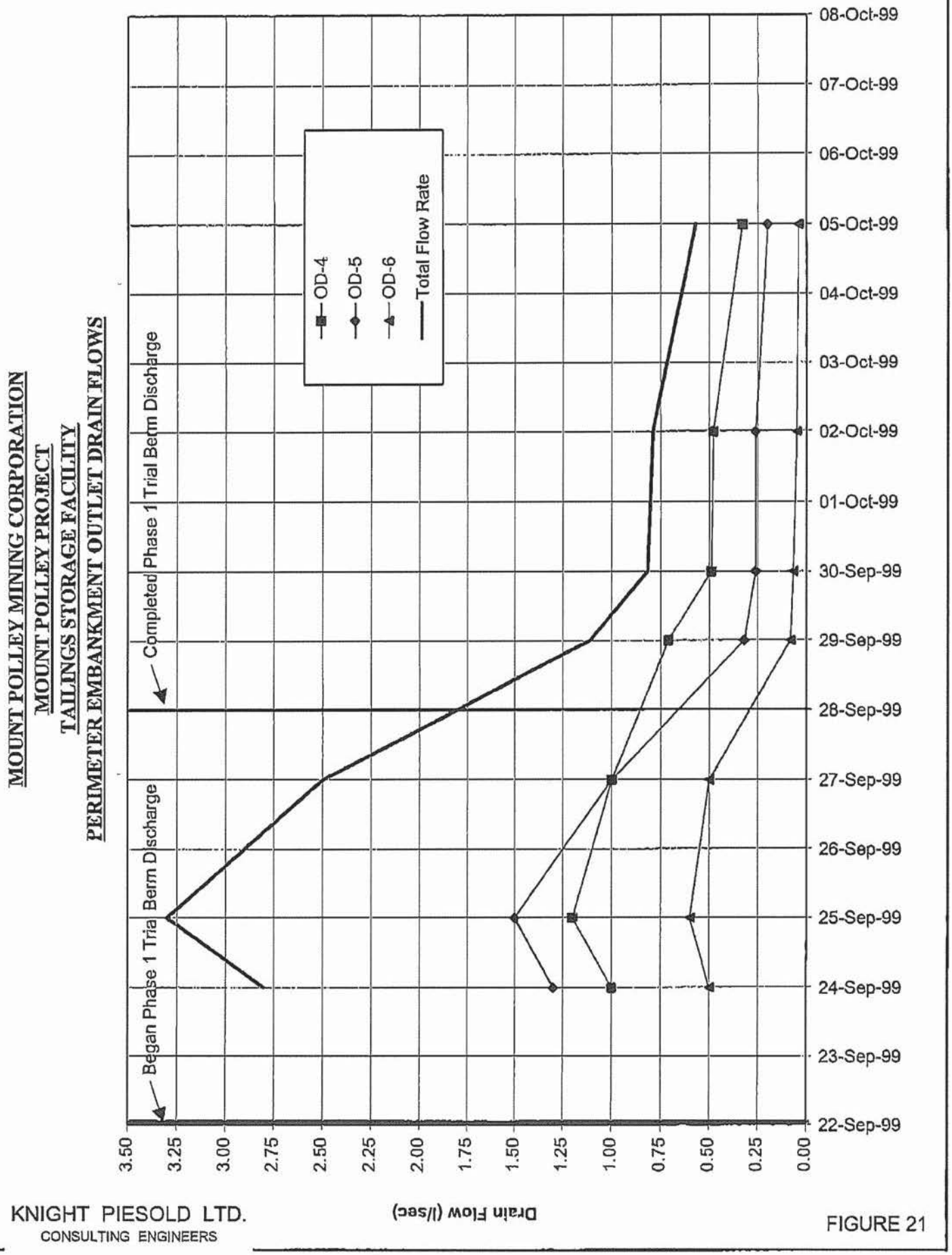


FIGURE 20

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12/10/99

J:\JOB\DATA\10162-10\MONITOR\FD-mon OD-mon

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

FIGURE 21

OCT 20 '99 08:20

OCT.20.1999 8:12AM MOUNT POLLY MINING NO. 775 P. 32/34

TABLE 1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

MAIN EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

H:\ENVDATA\Engineering\Geotechnical\Weekly Flow Readings\[FD.xxxx 10-xxxx-xx]FD.Mxx

Note: The elevation for the top of the casing for Ground Water Well GW96-9 is approximately 916.78 m. The ground elevation is 916.38 m.

October 12, 1999

SAMPLING DATE	FD-1			FD-2			FD-3			FD-4			FD-5			Total Flow Rate			Pond El (m)	GW96-9 (GW Well) Elev. Above Top of Casing of well 9 (m)
	Flow Rate			Flow Rate			Flow Rate			Flow Rate			Flow Rate							
Date	FD1(l/min)	(l/sec)	Comments	FD2(l/min)	(l/sec)	Comments	FD3(l/min)	(l/sec)	Comments	FD4(l/min)	(l/sec)	Comments	FD5(l/min)	(l/sec)	Comments	Tot(l/min)	(l/sec)	Comments	Pond Elev.	
28-Aug-96	4.62	0.08	Clear	0.49	0.01	Clear	5.37	0.09	Clear	1.77	0.03	Tr. cloudy	-	-	-	12.25	0.20	FD-3, FD-4 incomplete		
01-Sep-96	3.55	0.06	Clear	0.82	0.01	Clear	6.56	0.11	Cloudy	1.25	0.02	V. Cloudy	-	-	-	12.18	0.20	FD-3, FD-4 incomplete		
05-Sep-96	2.60	0.04	Clear	0.62	0.01	Clear	2.71	0.05	Clear	0.93	0.02	Cloudy	-	-	-	6.86	0.11	FD-3, FD-4 incomplete		
10-Sep-96	2.04	0.03	Clear	0.66	0.01	Clear	2.17	0.04	Clear	0.81	0.01	Clear	-	-	-	5.68	0.09	FD-3, FD-4 incomplete		
27-Sep-96	3.10	0.05	Clear	0.70	0.01	Clear	3.10	0.05	Clear	1.00	0.02	Clear	-	-	-	7.90	0.13	FD-3, FD-4 incomplete		
05-Oct-96	4.94	0.08	Clear	0.77	0.01	Clear	4.33	0.07	Tr. cloudy	6.16	0.10	Tr. cloudy	-	-	-	16.20	0.27	FD-3, FD-4 incomplete		
12-Oct-96	3.90	0.07	Clear	1.00	0.02	Clear	3.50	0.06	Clear	1.60	0.03	Clear	-	-	-	10.20	0.17	FD-3, FD-4 incomplete	915.20	
13-Oct-96	4.20	0.07	Clear	0.90	0.02	Clear	13.50	0.23	Clear	1.70	0.03	Clear	-	-	-	20.30	0.34	FD-3 complete, FD-4 incomplete	915.50	
14-Oct-96	3.80	0.06	Clear	1.00	0.02	Clear	15.00	0.25	Clear	5.40	0.09	Clear	-	-	-	25.20	0.42	FD-3 complete, FD-4 complete	915.23	
17-Oct-96	5.90	0.10	Clear	0.80	0.01	Clear	16.60	0.28	Clear	5.40	0.09	Clear	-	-	-	28.70	0.48		915.44	
18-Oct-96	9.80	0.16	Clear	1.00	0.02	Clear	26.10	0.44	Clear	9.00	0.15	Clear	-	-	-	45.90	0.77		915.50	
22-Oct-96	6.20	0.10	Clear	0.80	0.01	Clear	20.40	0.34	Clear	5.90	0.10	Clear	-	-	-	33.50	0.56		915.63	
27-Oct-96	6.00	0.10	Clear	1.50	0.03	Clear	24.20	0.40	Clear	6.40	0.11	Clear	-	-	-	38.10	0.64		916.00	
15-May-97	3.89	0.06	Clear	1.35	0.02	Clear	8.91	0.15	Clear	3.19	0.05	Clear	-	-	-	17.34	0.29	pig installed, sump pumped out	918.00	
16-May-97	3.48	0.06	Clear	1.15	0.02	Clear	8.37	0.14	Clear	2.87	0.05	Clear	-	-	-	15.88	0.26	pig installed, sump pumped out	918.20	
02-Apr-97	2.10	0.04	Clear	1.12	0.02	Clear	8.40	0.14	Clear	3.46	0.06	Clear	-	-	-	15.08	0.25	pig installed, sump pumped out	920.27	
23-Apr-97	4.14	0.07	Clear	0.91	0.02	Clear	11.56	0.19	Clear	2.35	0.04	Clear	-	-	-	18.99	0.32	pig installed, sump pumped out	923.70	
24-Apr-97	3.16	0.05	Clear	0.84	0.01	Clear	12.73	0.21	Clear	2.05	0.03	Clear	-	-	-	18.78	0.31	pig installed, sump pumped out	923.75	
29-Apr-97	2.90	0.05	Clear	0.59	0.01	Clear	10.32	0.17	Clear	1.71	0.03	Clear	-	-	-	15.52	0.26	pig installed, sump pumped out	924.81	
08-May-97	3.60	0.06	Clear	0.76	0.01	Clear	14.15	0.24	Clear	1.92	0.03	Clear	-	-	-	20.43	0.34	pig out, pumped down	925.86	
13-May-97	4.01	0.07	Clear	0.79	0.01	Clear	14.85	0.25	Clear	1.95	0.03	Clear	-	-	-	21.63	0.36	pig out, pumped down	926.43	
20-May-97	4.11	0.07	Clear	0.77	0.01	Clear	17.09	0.28	Clear	1.85	0.03	Clear	-	-	-	23.82	0.40	pig out, pumped down	926.20	
28-May-97	3.99	0.07	Clear	0.80	0.01	Clear	15.71	0.26	Clear	1.87	0.03	Clear	-	-	-	22.37	0.37	pig out, pumped down	926.25	
10-Jun-97	4.15	0.07	Clear	0.82	0.01	Clear	18.35	0.31	Clear	1.89	0.03	Clear	-	-	-	25.21	0.42	pig out, pumped down	926.34	
17-Jun-97	4.10	0.07	Clear	0.78	0.01	Clear	19.93	0.33	Clear	1.85	0.03	Clear	-	-	-	25.66	0.44	pig out, pumped down	926.40	
24-Jun-97	3.97	0.07	Clear	0.84	0.01	Clear	17.24	0.29	Clear	1.83	0.03	Clear	-	-	-	23.88	0.40	pig out, pumped down	926.39	
01-Jul-97	3.93	0.07	Clear	0.69	0.01	Clear	14.72	0.25	Clear	1.73	0.03	Clear	-	-	-	21.07	0.35	pig out, pumped down	926.38	
08-Jul-97	4.05	0.07	Clear	0.72	0.01	Clear	18.07	0.30	Clear	1.88	0.03	Clear	-	-	-	24.72	0.41	pig out, pumped down	926.39	
15-Jul-97	4.11	0.07	Clear	0.88	0.01	Clear	15.38	0.26	Clear	2.24	0.04	Clear	-	-	-	22.61	0.38	pig out, pumped down	926.57	
22-Jul-97	4.06	0.07	Clear	0.91	0.02	Clear	15.83	0.26	Clear	2.05	0.03	Clear	-	-	-	22.85	0.38	pig out, pumped down	926.66	
29-Jul-97	4.40	0.07	Clear	0.85	0.01	Clear	20.48	0.34	Clear	2.11	0.04	Clear	-	-	-	27.84	0.46	pig out, pumped down	926.73	
05-Aug-97	4.13	0.07	Clear	0.79	0.01	Clear	18.35	0.31	Clear	1.97	0.03	Clear	-	-	-	25.24	0.42	pig out, pumped down	926.75	
13-Aug-97	4.12	0.07	Clear	0.78	0.01	Clear	24.19	0.40	Clear	2.02	0.03	Clear	-	-	-	31.11	0.52	pig out, pumped down	926.82	
20-Aug-97	4.13	0.07	Clear	0.76	0.01	Clear	13.95	0.27	Clear	1.89	0.03	Clear	-	-	-	22.64	0.38	pig out, pumped down	926.75	
26-Aug-97	4.62	0.08	Clear	0.76	0.01	Clear	18.75	0.31	Clear	1.92	0.03	Clear	-	-	-	26.05	0.43	pig out, pumped down	926.86	
03-Sep-97	4.48	0.07	Clear	0.76	0.01	Clear	16.95	0.28	Clear	1.76	0.03	Clear	-	-	-	23.95	0.40	pig out, pumped down	926.93	
09-Sep-97	4.57	0.08	Clear	0.75	0.01	Clear	16.04	0.27	Clear	1.81	0.03	Clear	-	-	-	23.17	0.39	pig out, pumped down	926.71	
17-Sep-97	4.62	0.08	Clear	0.77	0.01	Clear	16.71	0.28	Clear	1.78	0.03	Clear	-	-	-	23.88	0.40	pig out, pumped down	926.88	
23-Sep-97	4.64	0.08	Clear	0.78	0.01	Clear	17.75	0.30	Clear	1.83	0.03	Clear	-	-	-	25.00	0.42	pig out, pumped down	926.85	
02-Oct-97	4.78	0.08	Clear	0.82	0.01	Clear	16.76	0.28	Clear	1.86	0.03	Clear	-	-	-	24.22	0.40	pig out, pumped down	926.92	0.055
08-Oct-97	4.69	0.08	Clear	0.81	0.01	Clear	16.01	0.27	Clear	1.95	0.03	Clear	-	-	-	23.46	0.39	pig out, pumped down	926.97	0.065
16-Oct-97	5.14	0.09	Clear	1.11	0.02	Clear	17.65	0.30	Clear	2.31	0.04	Clear	-	-	-	26.42	0.44	pig out, pumped down	927.06	0.095
24-Oct-97	5.13	0.09	Clear	0.92	0.02	Clear	16.23	0.27	Clear	1.98	0.03	Clear	-	-	-	24.26	0.40	pig out, pumped down	927.23	0.095
06-Nov-97	5.51	0.09	Clear	1.20	0.02	Clear	17.70	0.30	Clear	2.39	0.04	Clear	-	-	-	26.80	0.45	pig out, pumped down	927.51	Frozen
13-Nov-97	4.90	0.08	Clear	0.65	0.01	Clear	18.58	0.31	Clear	1.87	0.03	Clear	-	-	-	26.00	0.43	pig out, pumped down	927.60	Frozen
21-Nov-97	4.37	0.07	Clear	0.76	0.01	Clear	17.91	0.30	Clear	1.79	0.03	Clear	-	-	-	24.83	0.41	pig out, pumped down	927.63	Frozen
28-Nov-97	4.14	0.07	Clear	0.77	0.01	Clear	18.18	0.30	Clear	1.85	0.03	Clear	-	-	-	24.94	0.42	pig out, pumped down	927.65	Frozen
04-Dec-97	4.03	0.07	Clear	0.85	0.01	Clear	17.67	0.29	Clear	1.78	0.03	Clear	-	-	-	24.33	0.41	pig out, pumped down	927.75	Frozen

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OCT 20 '99 08:21

OCT.20.1999 8:13AM MOUNT POLLY MINING NO.775 P.33/34

TABLE 1 (continued)

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

MAIN EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

02-Jan-98	3.61	0.06	Clear	0.74	0.01	Clear	16.30	0.27	Clear	1.73	0.03	Clear	-	-	-	22.58	0.38	pig out, pumped down	928.10	Frozen
14-Jan-98	3.85	0.06	Clear	0.80	0.01	Clear	16.57	0.28	Clear	1.77	0.03	Clear	-	-	-	22.99	0.38	pig out, needs pumping	928.25	Frozen
21-Jan-98	3.57	0.06	Clear	0.74	0.01	Clear	16.42	0.27	Clear	1.82	0.03	Clear	-	-	-	22.55	0.38	pig out, needs pumping	928.30	Frozen
08-Apr-98	3.84	0.06	Clear	0.67	0.01	Clear	15.54	0.26	Clear	1.52	0.03	Clear	-	-	-	21.57	0.36	pig out, pond pumped down	929.70	-
17-Apr-98	3.82	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	1.57	0.02	Clear	6.33	0.11	Clear	27.79	0.46	pig out, pond pumped down	929.85	-
25-May-98	3.82	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	1.57	0.02	Clear	6.33	0.11	Clear	27.79	0.46	pig out, pond pumped down	930.10	-
02-Jun-98	3.52	0.06	Clear	0.78	0.01	Clear	15.58	0.26	Clear	1.42	0.02	Clear	6.80	0.11	Clear	28.10	0.47	pig out, pond pumped down	930.36	-
10-Jun-98	3.83	0.06	Clear	0.79	0.01	Clear	14.60	0.24	Clear	1.44	0.02	Clear	7.51	0.13	Clear	28.17	0.47	pig out, pond pumped down	930.39	-
16-Jun-98	3.77	0.06	Clear	0.78	0.01	Clear	16.35	0.27	Clear	1.41	0.02	Clear	7.93	0.13	Clear	30.24	0.50	pig out, pond pumped down	930.42	-
30-Jun-98	3.89	0.06	Clear	0.76	0.01	Clear	16.14	0.27	Clear	2.37	0.04	Clear	12.53	0.21	Clear	35.69	0.59	FD-5 is spilling onto FD-4 providing higher values than normal	930.45	
07-Jul-98	3.71	0.06	Clear	0.72	0.01	Clear	16.08	0.27	Clear	2.22	0.04	Clear	9.66	0.16	Clear	32.34	0.54	negative value is below top of casing	930.50	-0.135
24-Jul-98	3.53	0.06	Clear	0.72	0.01	Clear	15.75	0.26	Clear	1.95	0.03	Clear	8.70	0.15	Clear	30.66	0.51	-	930.53	0.28
12-Aug-98	3.46	0.06	Clear	0.62	0.01	Clear	15.96	0.27	Clear	1.90	0.03	Clear	7.30	0.12	Clear	29.24	0.49	-	930.61	0.33
19-Aug-98	3.17	0.06	Clear	0.56	0.01	Clear	15.83	0.26	Clear	2.26	0.04	Clear	8.08	0.13	Clear	29.90	0.50	-	930.64	-
10-Sep-98	3.60	0.06	Clear	0.57	0.01	Clear	16.35	0.27	Clear	2.03	0.03	Clear	8.02	0.13	Clear	30.57	0.51	-	930.70	-
17-Sep-98	3.53	0.06	Clear	0.69	0.01	Clear	16.42	0.27	Clear	2.20	0.04	Clear	8.52	0.14	Clear	31.30	0.52	-	930.73	-
24-Sep-98	3.62	0.06	Clear	0.64	0.01	Clear	15.61	0.26	Clear	2.06	0.03	Clear	7.77	0.13	Clear	29.73	0.50	-	930.77	-
07-Oct-98	3.72	0.06	Clear	1.05	0.02	Clear	14.22	0.24	Clear	2.16	0.04	Clear	13.39	0.22	Clear	34.74	0.58	positive value is above top of casing	930.81	0.18
15-Oct-98	3.83	0.06	Clear	1.10	0.02	Clear	14.53	0.24	Clear	2.46	0.04	Clear	15.83	0.26	Clear	37.84	0.63	-	930.87	
21-Oct-98	3.94	0.07	Clear	1.12	0.02	Clear	15.35	0.26	Clear	2.95	0.05	Clear	18.46	0.31	Clear	41.82	0.70	-	930.95	
17-Nov-98	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Sump flooded, needs to be pumped		0.11
27-Nov-98	4.21	0.07	Clear	1.01	0.02	Clear	14.28	0.24	Clear	2.35	0.04	Clear	11.76	0.20	Clear	33.62	0.56		931.35	-0.03
02-Dec-98	4.35	0.07	Clear	0.92	0.02	Clear	14.16	0.24	Clear	2.37	0.04	Clear	11.46	0.19	Clear	33.26	0.55		931.97	-0.03
09-Dec-98	4.34	0.07	Clear	0.79	0.01	Clear	16.56	0.28	Clear	2.01	0.03	Clear	9.78	0.16	Clear	33.49	0.56		931.97	Frozen
16-Dec-98	4.33	0.07	Clear	0.97	0.02	Clear	13.92	0.23	Clear	2.83	0.05	Clear	19.32	0.32	Clear	41.37	0.69		931.97	Frozen
22-Dec-98	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded, needs to be pumped down	931.99	Frozen
05-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.00	Frozen
12-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.02	Frozen
20-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.03	Frozen
28-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.05	Frozen
09-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.06	Frozen
16-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.07	Frozen
23-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.08	Frozen
18-Mar-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	933.03	Frozen
30-Mar-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	934.03	Frozen
08-Apr-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	935.03	Frozen
29-Sep-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		26.40	0.44	Clear	#N/A	#N/A	FD-5 above sump water surface	935.34	

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2510/KSB-2 2000.033

OCT 20 '99 08:21

OCT.20.1999 8:14AM MOUNT POLLEY MINING NO.773 P.34/34

TABLE 2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

PERIMETER EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

H:\ENG\DATA\Engdocs\Geotechnical\Weekly Piezo Readings\[FD-mon OD-mon.xls]OD-Mon

October 12, 1999

SAMPLING DATE	OD-4			OD-5			OD-6			Total Flow Rate		
	Flow Rate			Flow Rate			Flow Rate					
Date	OD4(l/min)	(l/sec)	Comments	OD5(l/min)	(l/sec)	Comments	OD6(l/min)	(l/sec)	Comments	Tot(l/min)	(l/sec)	Comments
17-Sep-99	#NA	#NA		#NA	#NA		#NA	#NA		-	-	Drains Flooded
24-Sep-99	60.00	1.00		78.00	1.30		30.00	0.50		168.00	2.80	Flows Estimated
25-Sep-99	72.00	1.20		90.00	1.50		36.00	0.60		198.00	3.30	Flows Estimated
27-Sep-99	60.00	1.00		60.00	1.00		30.00	0.50		150.00	2.50	Flows Estimated
29-Sep-99	42.60	0.71		19.20	0.32		4.92	0.08		66.72	1.11	* Flows Measured *
30-Sep-99	29.40	0.49		15.60	0.26		4.02	0.07		49.02	0.82	* Flows Measured *
02-Oct-99	28.80	0.48		15.60	0.26		3.00	0.05		47.40	0.79	* Flows Measured *
05-Oct-99	19.80	0.33		12.00	0.20		2.46	0.04		34.26	0.57	* Flows Measured *

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14745-40/MTPO/01

Knight Piésold CONSULTING

Knight Piésold, Mt. Polley Site
Fax: (250) 790-2268
Phone: (250) 790-2215

DATE:	7-Oct-1999	**FILE NO.:**	11162/10.F01/F02/F05/F07
TIME:		**REF NO.:**	99-026
OPERATOR:		**PAGES:**	1 of 58
SENDER:	s.22	**APPROVED:**	

TO:	KP Vancouver	**FAX :**	604-685-0147
ATTN:	Ken Brouwer		
CC:	George Headley, Ministry of Energy and Mines		
SUBJECT:	Mount Polley Stage 2C Construction Progress Report #2		

Dear Ken,

Please find attached Progress Report No. 3 for Stage 2C Construction at the Mount Polley Mine. This document is for the reporting period September 16 to 30, 1999.

Best Regards,

s.22

Knight Piésold

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION
PROGRESS REPORT NO. 3
SEPTEMBER 16 to SEPTEMBER 30, 1999

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 2C construction activities over the reporting period. Knight Piésold Ltd. (KP) carried out QA/QC activities over this period.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 (IBM), Project Engineer
- s.22 (JMTW), Senior Engineer (left site 16-September)
- s.22 (LAG), Senior Engineer (left site 16-September)

The following MPMC management personnel were on site during the reporting period:

- Eric LeNeve, Tailings Coordinator
- Don Parsons, Mine Superintendent

1.2 WEATHER

Conditions were generally mixed over the reporting period. It was mostly sunny from September 16 to 22. Zone B and S fill placement construction activities were postponed as a result of rain on September 23. The remainder of September was generally overcast and unseasonably cold. Zone B and S fill placement had not recommenced by the end of the reporting period.

1.3 CONTRACT DEVELOPMENTS

Over the reporting period, four (4) design change requests were issued from IM to the KP Vancouver office. These design changes were as follows:

- Minor geometry modification and relocation of the cycloned sand d/s trial berm.
- The use of Zone B till material to replace u/s Zone CS cycloned sand and d/s Zone T rockfill materials between CH. 26+80 to approximate CH 32+50.
- Changes to u/s toe drain outlet pipe minimum trench dimensions, and backfill specifications.

- Relocation of u/s toe drain to Stage 2A embankment inside bench, approximately 2 metres downstream of original design location.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Over the reporting period, tailings underflow (Zone CS) cycloned sand was discharged upstream of the Perimeter Embankment crest. A significant beach continues to be present upstream of the Main Embankment Zone CS. Wind erosion of the cycloned sand was not observed over the reporting period.

By the end of the reporting period, ponding water still lies against approximately 70% of the Perimeter Embankment upstream crest. Accelerated Zone CS placement in these areas is currently underway to meet future fill placement and freeboard requirements.

SECTION 2.0 - CONSTRUCTION ACTIVITIES

MPMC carried out the following activities during the reporting period:

Cycloned Sand Operations

- Movement and maintenance of the tailings lines and 20" cyclones on the Perimeter Embankment.
- Continued Stage 2C discharging of Zone CS cycloned sand along the u/s Perimeter Embankment.
- Maintenance and optimization of cyclones.
- Excavator work continued to remove Zone CS cycloned sand from the Main Embankment upstream Stage 2B Zone S contact, in preparation for u/s toe drain and Zone FS filter sand placement. (completed 1-Oct-99)
- Dozer work was carried out along upstream Zone CS cycloned sand, to fill in all low spots and create a continuous cycloned sand zone as designed along the Main Embankment u/s alignment.
- On 27-Sept-99, the tailings operators conducted underflow timed-discharge "bucket" tests, in order to determine the flow through all Perimeter Embankment cyclones at known discharge pulp densities and mill throughput values.

Downstream Cycloned Sand Trial

- Placement of Zone T material from Rock Borrow for haul road widening in vicinity of downstream cycloned sand trial berm. Ditching was extended along d/s edge of widened road.

- Zone T rock material was placed against the Perimeter Embankment d/s face to form a containment berm for the downstream cycloned sand trial. The upstream berm face was covered with geotextile fabric, to create a filter relationship between the Zone T berm and the cycloned sand deposit.

- Outlet drains OD-4 and OD-5 are located within the trial berm area. In order to prevent material from migrating into the drains, the exposed perforated drain pipes (located along the d/s Perimeter Embankment mid-height bench) were cut below surface, covered with filter fabric, backfilled and compacted with glacial till.

- The Zone T haul road base within the trial berm area was ripped with a dozer, to allow for drainage to occur beneath the cycloned sand deposit.

- Two piezometer planes (D and F) were positioned within the trial berm area. Steel posts were installed at three locations along each plane, with five (5) piezometers being installed at various elevations within each plane. All piezometer leads were wrapped in geotextile fabric and routed to the downstream side of the Zone T containment berm.

- Surveyors picked up the base geometry of the trial berm area, locations of the piezometers, and the final cycloned sand cone geometry upon completion of deposition.

- Cycloning within the downstream trial berm took place between 22-Sept-99 and 28-Sept-99. Two cyclones (#1 and #3) were used to discharge from five locations along the length of the trial berm area.

Stage 2C Embankment Construction

- Placement of Zone T material from rock borrow for access road extension into Borrow Area #2.

- Overburden stripping and Zone B/S till borrow development within Borrow Area #2.

- Foundation preparation was completed along left abutment of Main Embankment and right abutment of Perimeter Embankment.

- On 25-Sept-99, excavator operator dug ditch along u/s right abutment of Main Embankment, to relieve ponded water from u/s toe drain excavation.

- Surveyors set out 5H:1V toe location along the Main Embankment left downstream footprint, and staked out location of buried toe drain conveyance pipe. Dozer foundation stripping began along the downstream Stage 3 footprint area.

- Zone B & S fill placement and compaction was carried out from 20-Sept-99 to 23-Sept-99. Four (4) 300mm lifts of u/s & d/s Zone B and Zone S till zones were completed to the Zone T haul road elevation along the Main Embankment left end, from CH 26+80 to CH 28+00. Two (2) 300mm

Zone B/S lifts were completed along the Perimeter Embankment right end from CH 28+60 to CH 29+30, with one Zone B/S 300mm lift completed from CH 29+30 to CH 31+00.

Fill Placement Summary

Embankment Zone	Volume Placed over Period (m^3)	Total Volume to Date (m^3)	Total Volume Required (m^3)	Percent Complete (%)
S (till core)	1660	1660	70,000	2.4
B (till)	7350	7350	17,000	43.2
F (filter sand)	0	0	5,598	0

Miscellaneous

- Drainage pipe from Perimeter Embankment seepage collection pond was routed beneath Zone T haul road to u/s side of embankment, and pumping of water into the tailings facility was carried out.

- Development blast-hole drilling was completed along crest of the Zone T rock borrow. Blast within rock borrow took place on 22-Sept-99.

SECTION 3.0 - KNIGHT PIÉSOLD ACTIVITIES

3.1 GENERAL

KP activities over the reporting period included the following:

Downstream Cycloned Sand Trial

- Vibrating wire piezometers (10) were installed on posts within the downstream cycloned sand trial berm area. All piezometer leads were wrapped in geotextile fabric and routed to the d/s Zone T containment berm face.

- Produced table for collection of piezometric and drain flow monitoring data during the downstream cycloned sand trial. Over reporting period, IM monitored Plane D and F piezometers within downstream trial berm, and updated piezometer plots.

- Following pumping of the Perimeter Embankment seepage collection pond, outlet drains OD-4, 5, and 6 were exposed on 24-Oct-99. From 24-Oct-99 to 27-Oct-99, outlet drain flows were visually estimated. A ladder was installed within the outlet drain sump on 29-Sept-99, after which outlet drain flows were measured by timed discharge.

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Stage 2C Embankment Construction

- A Site Memorandum was issued to Eric LeNeve (MPMC) summarizing results of the 1999 Borrow Area #2 Material Investigations, including borehole logs and laboratory moisture content results.
- Drillhole coordinates from Borrow Area #2 Investigations were emailed to KP Vancouver. An investigations plan was sent back to IM on-site. Section lines were created through Borrow Area #2, with various 1995, 1998 and 1999 testpit and drillholes plotted onto each section. IM began plotting geologic descriptions and moisture content data onto sections.
- A foundation acceptance form was issued for the Main Embankment left abutment footprint from CH 26+80 to CH 28+00. Foundation acceptance forms were also issued for the Perimeter Embankment right end footprint from CH 28+60 to CH 32+05 (u/s Zone B), CH 31+10 (Zone S core), and to CH 32+45 (d/s Zone B).
- Stage 2C QA/QC test frequency schedule was created on-site and approved by KP Vancouver.
- Nuclear densometer record testing was carried out on all placed and compacted Zone B and S materials, to measure achieved field dry density and moisture content values. The minimum acceptable field density requirement for compacted Zone B material is 92% of Standard Maximum Dry Density (SMDD), and 95% SMDD for Zone S core material.
- IM marked locations on toe drain outlet pipes (4) for pipe cutting and adapter fusing at u/s end of pipes.

Miscellaneous

- Lab test summary sheets were created for all Zone S and T control testing conducted to date.
- Progress Report No. 2 was issued, for the reporting period September 1 to 15, 1999.
- Daily summaries of QA/QC and construction activities were submitted to MPMC.
- Received preliminary Stage 3 plan drawings from KP Vancouver office.
- Biosolids area survey data was emailed to KP Vancouver.
- Main Embankment u/s cycloned sand and beach survey data was emailed to KP Vancouver.
- Preliminary lab requirement summary table for quote submission to MTS was created. This table was not completed by the end of the reporting period, as IM was awaiting feedback from KP Vancouver regarding lab testing requirements for downstream cycloned sand trial.

- On 29-Sept-99, IM created profile along alignment of Main Embankment u/s right abutment ditch. Ditch was excavated within basin liner material for approximate 200 metres upstream of embankment. It will be required for this basin liner to be replaced during Stage 2C construction. A Memo was issued to Eric Leneve (MPMC) regarding the results of ditch investigation (1-Oct-99).

- On 29-Sept-99, IM assisted Japanese representatives in reading all TSF piezometers, and measuring flow within Main Embankment foundation drain FD-5 (other foundation drains still underwater).

- Received letter from KP Vancouver regarding cycloned sand Stage 3 deposition options.

3.2 MONITORING

3.2.1 General

On-going monitoring of instrumentation was continued over the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

3.2.2 Vibrating Wire Piezometers

Ten (10) piezometers were installed over the reporting period within the downstream cycloned sand trial berm, along Perimeter Embankment instrumentation Planes D and F. These piezometers were monitored daily by Knight Piésold, and are presented on the attached plots. As shown on these plots, piezometric pressures are still dissipating, following completion of cycloned sand deposition within the downstream trial area on 28-Sept-99.

Readings from all other TSF piezometers were taken by MPMC representatives on September 22 and 29. The following observations are based on the data from the attached piezometric plots.

- Foundation Piezometers
  All foundation piezometers have generally remained static through spring runoff and have not reacted to placement of Zone CS material.

- Fill Piezometers
  Pore pressures in the vicinity of B2-PE2-03 (Zone S), C2-PE2-05 (Zone S) and A2-PE2-03 (Zone B) have increased, likely as a result of Zone CS placement. The remainder of the piezometers placed in the engineered fill have remained relatively static.

- Drain Piezometers
  All piezometers located within the drains have remained static. This indicates that the drains are free draining and are functioning as designed.

- Tailings Piezometers

Plane C tailings piezometers were reacting to the rise in pond level until they stopped functioning at the end of May, 1999. Plane B tailings piezometers continue to mimic the pond level quite accurately, while the tailings piezometers at Plane A have reacted to the placement of Zone CS material.

3.2.3 Drain Flows

Due to the high water level in the Seepage Collection Pond at the Main Embankment, the outlets of the foundation drains have been flooded, and the flows have not been recorded since December 22, 1998. On 29-Sept-99, flows from foundation drain FD-5 were measured, as this drain was found to be exposed above the sump water level. MPMC plans to lower the level of the pond in order to continue monitoring of all foundation drain flows. A summary table of measured foundation drain flows is attached.

MPMC has constructed small weirs at the Main Embankment Outlet Drains to monitor Chimney Drain flows. No data has been collected due to the low observed flow levels.

Knight Piésold has estimated outlet drain flows at the Perimeter Embankment seepage collection pond during the downstream cycloned sand trial. On 29-Sept-99, a ladder was installed within the outlet drain sump, and actual measured flows through outlet drains OD-4, 5, and 6 have been taken since this date. As shown on the attached table and plot, outlet drain flows increased during cycloned sand deposition within the downstream trial berm, and began dissipating prior to completion of cycloned sand discharge.

3.2.4 Standpipe Piezometer Levels

The water level in standpipe piezometer GW96-9 (downstream of the right abutment of the Main Embankment) has not been monitored this season due to a break in the pipe. The pipe will be repaired in the future and readings will recommence.

3.2.5 Survey Monuments

New survey points will be installed following the completion of Stage 2C construction in order to measure any settlements prior to the beginning of Stage 3 Construction.

3.3 QA/QC and Laboratory Testing

Over the reporting period, bi-weekly composite samples of overflow and underflow were collected by MPMC from each cyclone. In addition, bi-weekly composite sampling of the mill feed was carried out. All bi-weekly composite cycloned sand underflow, overflow and mill feed tailings samples are tested by MPMC personnel, as presented on the attached tables and plots.

One Control Zone S sample from Borrow Area #2 was collected during the reporting period. Testing of this sample was still underway at the end of the reporting period.

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Three (3) cycloned sand samples were collected from various locations within the downstream cycloned sand trial area over the reporting period. Laboratory testing of these samples has not yet been conducted.

Submitted by,

s.22

Knight Piésold

Distribution: Eric LeNeve, Tailings Coordinator, MPMC, Site
Don Parsons, Mine Superintendent, MPMC, Site
George Headley, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, Project Director/John Wilkinson, Project Manager, KP Vancouver

OCT 07 '99 08:29

OCT. 7.1999 8:22AM MOUNT POLLY MINING NO.297 P.10/58

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 1 UNDERFLOW GRADATIONS

EVA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116210
MATERIAL :	D20-1 UNDERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #1	99.9	99.9	99.48	99.00	97.60	92.00	75.60	52.40	36.60	27.10	16.30	14.20	-	-	-	-	-
May 12 17, 1999	Cyclone #1		100.0	99.50	98.90	96.80	89.50	73.20	53.90	38.50	29.00	16.5	14.3	-	-	-	-	-
May 18- 26, 1999	Cyclone #1			100.0	99.9	99.4	96.6	88.3	68.8	43.2	27.3	17.2	13.5	-	-	-	-	-
May 27- 30, 1999	Cyclone #1		100.0	99.9	99.6	98.2	92.2	75.5	54.6	36.8	23.9	15.6	12.7	-	-	-	-	-
May 31- June 2, 1999	Cyclone #1			100.0	99.9	99.6	98.3	91.4	72.5	50.8	37.1	28.5	25.5	-	-	-	-	-
June 4,1999	Cyclone #1		100.0	99.8	99.2	96.8	91.7	77.4	54.1	35.9	24.4	15.9	12.9	-	-	-	-	-
June 6,1999	Cyclone #1		100.0	99.9	99.6	98.3	95.3	84.9	62.0	40.4	26.5	16.4	13.1	-	-	-	-	-
June15,1999	Cyclone #1		100.0	99.4	99.0	98.1	95.7	86.8	63.5	39.6	27.1	15.3	13.3	-	-	-	-	-
June 16-20, 1999	Cyclone #1		100.0	99.8	99.5	98.5	94.3	81.7	55.8	38.8	27.6	17 0	14.2	-	-	-	-	-
June 23,1999	Cyclone #1			100.0	99.8	99.3	97.7	88.8	65.8	49.0	32.7	19.1	15.4	-	-	-	-	-
June 28,1999	Cyclone #1		100.0	99.5	98.8	96.8	90.9	73.6	50.7	35.4	26.7	15.9	13.7	-	-	-	-	-
July 3,1999	Cyclone #1		100.0	99.4	98.7	97.1	93.7	83.4	59.8	37.6	27.1	16.3	14.2	-	-	-	-	-
July 6,1999	Cyclone #1		100.0	99.8	99.5	98.3	94.7	83.5	60.8	39.6	28.5	17.0	15.0	-	-	-	-	-
July 8-11, 1999	Cyclone #1		100.0	99.7	99.4	97.0	90.8	74.3	50.6	33.1	23.4	12.8	11.1	-	-	-	-	-
July 15,1999	Cyclone #1		100.0	99.7	99.2	94.6	82.0	61.0	42.6	30.4	21.3	13.7	12.0	-	-	-	-	-
July 22,1999	Cyclone #1		100.0	99.9	99.8	99.1	96.1	84.9	60.8	39.9	28.3	20.6	13.1	-	-	-	-	-
July 25,1999	Cyclone #1		100.0	99.6	99.1	97.9	94.1	82.5	59.2	41.9	30.7	19.1	14.3	-	-	-	-	-
July 29,1999	Cyclone #1		100.0	99.8	99.7	98.3	93.9	81.6	60.4	43.6	31.6	19.4	15.4	-	-	-	-	-
August 3,1999	Cyclone #1		100.0	99.9	99.7	98.2	92.7	78.0	55.4	42.4	31.5	19.8	17.6	-	-	-	-	-
August 5,1999	Cyclone #1			100.0	99.9	99.5	99.0	89.6	75.1	56.5	41.0	23.2	17.5	-	-	-	-	-
August 8,1999	Cyclone #1			100.0	99.9	99.0	93.8	79.4	55.8	38.0	27.9	18.1	14.8	-	-	-	-	-
August 12,1999	Cyclone #1			100.0	99.9	99.2	97.9	83.4	60.2	41.5	29.7	18.0	14.2	-	-	-	-	-
August 16,1999	Cyclone #1				100.0	99.4	95.2	79.6	59.6	42.9	31.7	21.3	16.9	-	-	-	-	-
August 18,1999	Cyclone #1		100.0	99.9	99.8	99.3	95.9	84.7	67.2	46.4	32.6	18.2	15.6	-	-	-	-	-
August 23,1999	Cyclone #1			100.0	99.9	99.2	94.9	77.8	55.5	36.8	26.0	14.1	12.0	-	-	-	-	-
August30,1999	Cyclone #1			100.0	99.8	98.3	91.9	74.6	54.5	38.0	27.5	15.8	13.8					
September2,1999	Cyclone #1			100.0	99.9	98.1	90.9	70.8	50.1	34.4	24.9	15.1	13.3					
September19,1999	Cyclone #1		100.0	97.7	97.1	96.3	94.3	84.8	64.0	43.1	30.2	16.4	13.9					
September 26,1999	Cyclone #1				100.0	99.5	96.2	82.3	59.4	39.6	28.2	15.8	13.6					
	MEDIAN	99.9	100.0	99.9	99.7	98.3	94.3	81.7	59.4	39.6	27.9	16.5	14.2	-	-	-	-	-
	MAXIMUM	99.9	100.0	100.0	100.0	99.6	99.0	91.4	75.1	56.5	41.0	28.5	25.5	-	-	-	-	-
	MINIMUM	99.9	99.9	97.7	97.1	94.6	82.0	61.0	42.6	30.4	21.3	12.8	11.1	-	-	-	-	-

Notes: 1) These are 100% limits.

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File: d20-1 Summary.xls Sheet: Under Plot Date: 06/10/99 Time Plotted: 2:39 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-1 UNDERFLOW TAILINGS SAMPLES

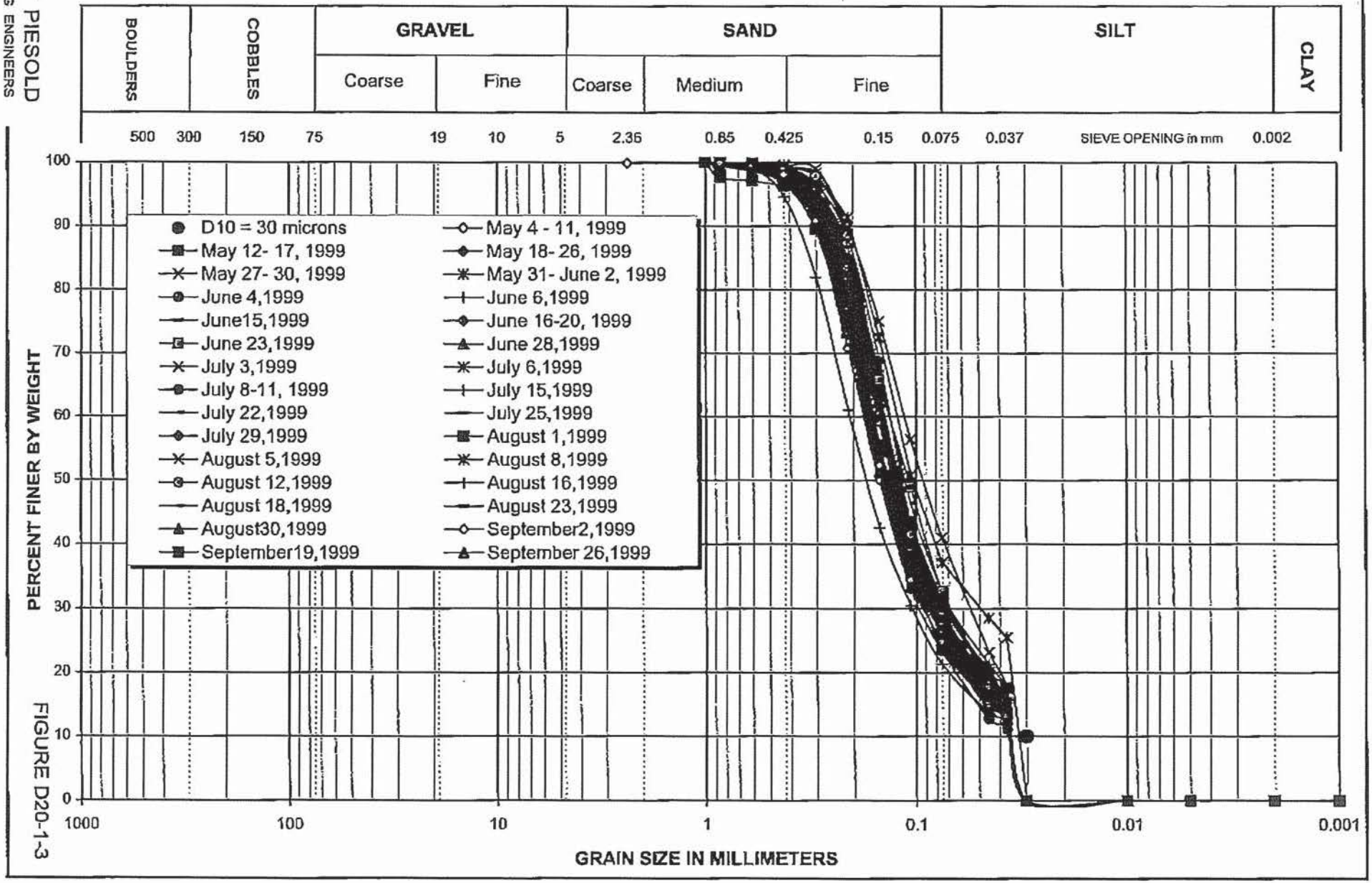


FIGURE D20-1-3

OCT 07 '99 08:30

OCT. 7.1999 8:22AM MOUNT POLLY MINING NO.297 P.12/58

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 2 UNDERFLOW GRADATIONS

N/A

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET: 1 of 1
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PERIOD: 31-Aug-99
MATERIAL : D20-2 UNDERFLOW TAILINGS SAMPLES		PROJECT #: 1116710
		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%
May 4 - 11, 1999	Cyclone #2			100.00	99.90	99.30	96.30	84.00	58.80	39.00	26.40	16.60	14.40	-	-	-	-	-
May 12- 17, 1999	Cyclone #2		100.0	99.80	99.50	99.10	98.00	92.90	75.30	47.00	26.60	16.1	12.4	-	-	-	-	-
May 18- 26, 1999	Cyclone #2		100.0	99.3	98.3	95.1	86.1	67.8	44.7	28.5	19.3	12.8	10.4	-	-	-	-	-
May 27- 30, 1999	Cyclone #2		100.0	100.0	99.7	98.9	93.5	80.0	51.3	36.4	26.1	14.9	13.1	-	-	-	-	-
May 31- June 2, 1999	Cyclone #2		100.0	99.1	98.3	95.5	88.9	72.9	50.4	33.6	22.4	14.2	11.1	-	-	-	-	-
June 4, 1999	Cyclone #2		100.0	98.1	96.6	93.1	87.3	73.6	50.5	33.8	24.1	16.8	14.3	-	-	-	-	-
June 5, 1999	Cyclone #2		100.0	99.3	98.3	94.1	84.2	64.9	44.8	32.0	23.6	16.4	13.8	-	-	-	-	-
June 7, 1999	Cyclone #2		100.0	98.9	97.8	95.6	89.1	75.1	48.6	35.0	22.9	15.7	12.9	-	-	-	-	-
June 8, 1999	Cyclone #2		100.0	99.3	98.5	95.7	93.4	79.4	55.9	37.5	27.3	16.1	13.6	-	-	-	-	-
June 14 - 16, 1999	Cyclone #2		100.0	98.3	98.1	94.6	85.9	68.6	49.2	35.0	26.3	16.2	14.2	-	-		-	-
June 15, 1999	Cyclone #2		100.0	98.1	96.8	93.5	85.7	69.5	47.8	31.6	22.3	14.1	12.7	-	-	-	-	-
June 16-20, 1999	Cyclone #2		100.0	98.7	97.4	95.4	89.9	77.9	55.5	38.8	26.9	16.4	13.7	-	-	-	-	-
June 23, 1999	Cyclone #2		100.0	98.7	97.3	94.0	88.3	71.3	45.8	32.5	22.4	14.1	11.6	-	-	-	-	-
June 28, 1999	Cyclone #2		100.0	98.7	97.6	94.6	86.4	66.5	45.7	31.9	23.8	14.0	12.2	-	-	-	-	-
July 3, 1999	Cyclone #2			100.0	99.9	99.6	97.2	88.3	71.3	52.9	39.4	22.9	19.5	-	-	-	-	-
July 5, 1999	Cyclone #2		100.0	98.9	97.6	92.6	82.5	66.0	50.5	39.2	31.9	23.7	22.1	-	-	-	-	-
July 6, 1999	Cyclone #2		100.0	99.1	98.4	96.4	91.8	77.3	52.9	35.1	25.4	15.1	13.5	-	-	-	-	-
July 15, 1999	Cyclone #2		100.0	99.9	99.7	97.4	90.0	73.3	55.3	41.0	27.7	16.9	14.8	-	-	-	-	-
July 19, 1999	Cyclone #2		100.0	99.9	99.7	98.7	93.4	76.3	53.0	38.1	27.7	21.7	13.6	-	-		-	-
July 22, 1999	Cyclone #2			100.0	99.9	99.3	96.3	83.3	58.5	40.2	29.2	20.2	13.6	-	-	-	-	-
July 25, 1999	Cyclone #2		100.0	99.6	99.2	98.2	97.0	81.3	58.8	44.6	31.7	20.3	18.3	-	-	-	-	-
August 1, 1999	Cyclone #2		100.0	99.7	99.2	96.8	91.4	78.9	57.8	44.5	32.5	19.9	17.5	-	-	-	-	-
August 5, 1999	Cyclone #2		100.0	99.7	98.3	95.7	86.8	71.5	53.2	40.6	29.2	20.1	15.8	-	-	-	-	-
August 8, 1999	Cyclone #2			100.0	99.8	97.8	88.5	68.4	46.9	32.3	23.8	15.5	12.7	-	-	-		-
August 12, 1999	Cyclone #2		100.0	99.9	99.7	98.0	92.3	73.6	51.8	36.7	27.1	17.3	14.3	-	-	-	-	-
August 16, 1999	Cyclone #2			100.0	99.9	98.9	93.1	74.7	55.4	39.4	28.4	20.5	14.6	-	-	-	-	-
August 18, 1999	Cyclone #2		100.0	99.9	99.6	97.0	87.6	65.9	47.5	33.9	25.0	15.0	13.1	-	-	-	-	-
August 23, 1999	Cyclone #2		100.0	99.9	99.7	97.8	90.3	69.6	49.8	34.7	25.4	14.7	12.7	-	-	-	-	-
August30, 1999	Cyclone #2		100.0	99.8	99.5	97.9	90.4	70.0	50.6	35.5	25.8	14.7	12.8					
September5, 1999	Cyclone #2			100.0	99.8	98.8	93.7	73.5	52.2	37.6	28.7	18.0	16.0					
September12, 1999	Cyclone #2				100.0	99.4	94.2	79.6	51.9	38.4	28.2	19.5	16.8					
September19, 1999	Cyclone #2		100.0	99.5	99.3	98.7	97.2	89.2	70.0	46.7	32.0	17.6	15.1					
September26, 1999	Cyclone #2				100.0	99.5	96.1	81.3	57.7	39.4	28.5	16.1	13.8					
	MEDIAN	#NUM!	100.0	99.7	99.3	97.4	90.4	73.6	51.9	37.5	26.6	16.4	13.7	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.6	98.0	92.9	75.3	52.9	39.4	23.7	22.1	-	-	-	-	-
	MINIMUM	0.0	100.0	98.1	96.6	92.6	82.5	64.9	44.7	28.5	19.3	12.8	10.4	-	-	-	-	-

Note: 1) These are 100% limits.

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250 790 2268 PAGE.012

File: d20-2 Summary.xls Sheet: Under Plot Date: 06/10/99 Time Plotted: 2:40 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-2 UNDERFLOW TAILINGS SAMPLES

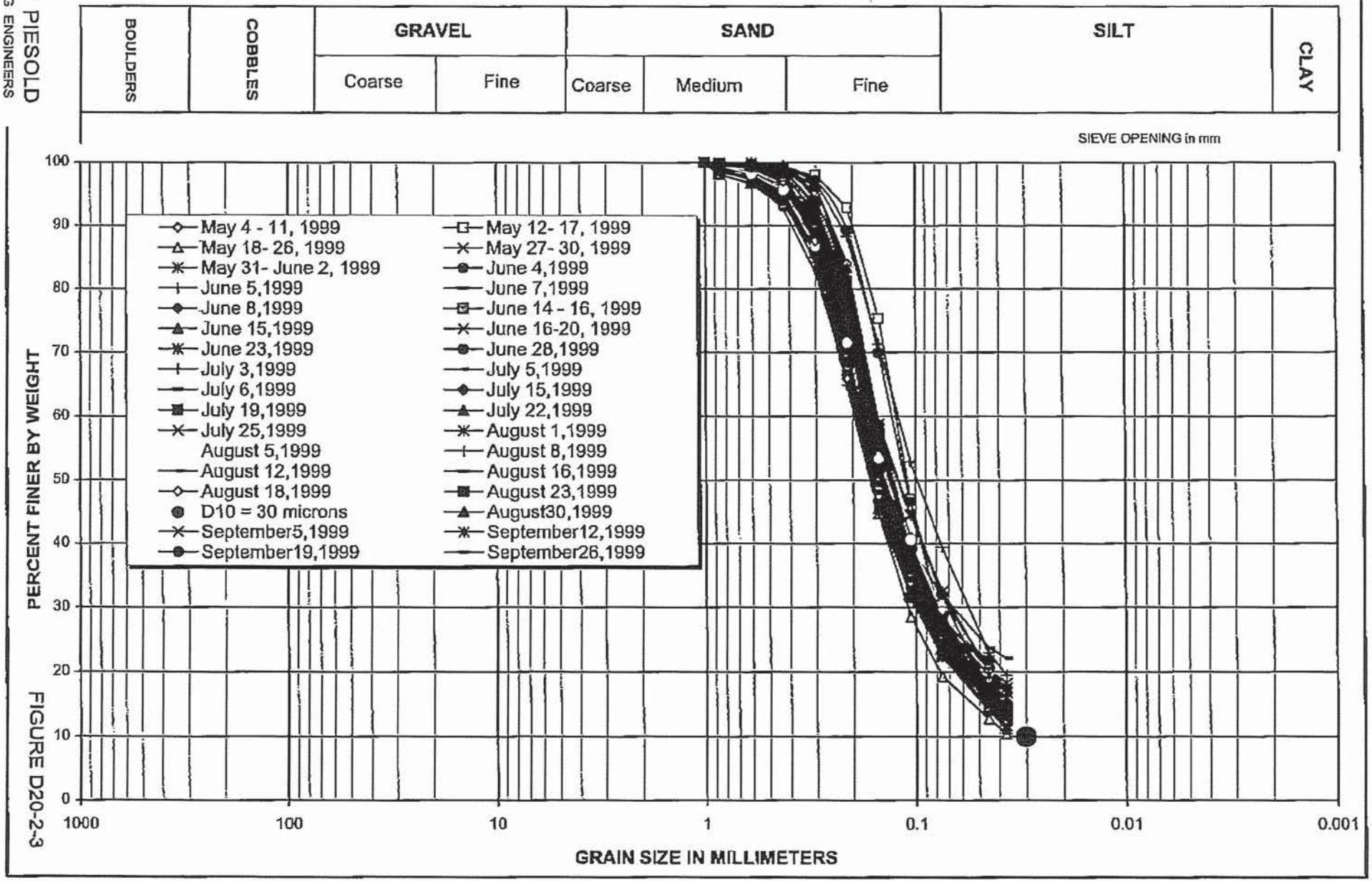


FIGURE D20-2-3

OCT 07 '99 08:30

OCT. 7.1999 8:25AM MOUNT POLLY MINING INV.259 P.14/38

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 3 UNDERFLOW GRADATIONS

BVA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PERIOD : 31-Aug-99
MATERIAL :	D20-3 UNDERFLOW TAILINGS SAMPLES	PROJECT #: 1116210
		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.020	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #3	98.2	98.2	97.65	97.15	95.95	91.95	77.65	52.35	34.95	23.75	14.75	14.50	-	-	-	-	-
May 12- 17, 1999	Cyclone #3	99.9	99.9	99.90	99.90	99.70	98.30	90.70	70.00	49.10	33.40	20.9	16.2	-	-	-	-	-
May 27- 30, 1999	Cyclone #3		100.0	100.0	99.7	98.9	93.5	80.0	51.3	36.4	26.1	14.9	13.1	-	-	-	-	-
June 5,1999	Cyclone #3		100.0	99.6	99.1	97.3	92.0	76.1	53.1	37.3	26.8	18.3	15.5	-	-	-	-	-
June 6,1999	Cyclone #3		100.0	99.9	99.5	98.1	94.4	83.4	59.4	39.5	27.6	18.7	15.7	-	-	-	-	-
June 7,1999	Cyclone #3		100.0	99.8	99.5	98.2	91.9	75.0	46.8	32.9	21.1	13.7	11.1	-	-	-	-	-
June 14-16, 1999	Cyclone #3		100.0	99.8	99.3	96.6	88.1	70.1	49.5	35.2	26.2	15.9	13.9	-	-	-	-	-
June 15,1999	Cyclone #3		100.0	99.5	99.1	97.5	91.5	73.8	51.0	36.7	29.0	20.6	19.4	-	-	-	-	-
June 16-20,1999	Cyclone #3		100.0	99.0	97.9	95.8	90.4	76.8	51.8	36.7	25.8	15.7	13.0	-	-	-	-	-
June 23,1999	Cyclone #3		100.0	99.6	99.3	97.3	93.1	78.1	55.8	39.8	30.1	19.2	17.0	-	-	-	-	-
July 3,1999	Cyclone #3		100.0	99.3	98.5	96.0	88.3	70.3	46.6	31.8	24.2	14.6	12.7	-	-	-	-	-
July 5,1999	Cyclone #3		100.0	99.0	97.1	90.7	76.1	56.1	38.4	26.9	20.4	12.4	11.0	-	-	-	-	-
July 6,1999	Cyclone #3		100.0	99.2	98.8	97.4	93.8	81.8	58.9	38.7	28.0	16.6	14.6	-	-	-	-	-
July 15,1999	Cyclone #3		100.0	98.4	97.1	94.2	88.1	72.9	51.2	36.2	25.6	16.8	14.9	-	-	-	-	-
July 19,1999	Cyclone #3		100.0	99.3	98.9	97.3	93.1	82.0	61.9	44.1	32.2	24.1	17.3	-	-	-	-	-
July 22,1999	Cyclone #3		100.0	99.6	99.4	98.7	97.0	88.9	67.0	44.7	31.9	25.4	15.3	-	-	-	-	-
July 25,1999	Cyclone #3		100.0	99.4	98.7	97.4	94.7	85.7	60.4	43.3	31.7	20.9	16.0	-	-	-	-	-
August 1,1999	Cyclone #3		100.0	99.1	98.2	95.2	88.3	73.1	51.8	39.8	29.9	19.4	17.4	-	-	-	-	-
August 5,1999	Cyclone #3		100.0	99.9	99.7	99.0	95.3	83.8	60.7	45.4	32.8	21.4	16.9	-	-	-	-	-
August 8,1999	Cyclone #3		100.0	99.6	99.1	96.6	89.5	74.0	51.3	34.9	25.9	16.4	13.4	-	-	-	-	-
August 12,1999	Cyclone #3		100.0	99.9	99.8	99.2	95.8	82.3	61.2	41.9	30.0	21.4	15.3	-	-	-	-	-
August 16,1999	Cyclone #3			100.0	99.9	98.5	92.7	75.3	55.6	39.8	29.6	20.5	16.9	-	-	-	-	-
August 18,1999	Cyclone #3			100.0	99.8	98.7	95.1	76.4	51.1	34.2	24.4	15.3	12.8	-	-	-	-	-
September2,1999	Cyclone #3		100.0	99.9	99.7	98.1	92.1	74.8	54.1	37.1	26.4	15.4	13.5					
September5,1999	Cyclone #3		100.0	99.9	99.7	99.0	92.8	76.6	51.6	37.5	25.9	16.2	13.6					
September12,1999	Cyclone #3			100.0	99.9	99.2	94.8	82.7	56.7	41.5	29.2	19.3	16.3					
September19,1999	Cyclone #3		100.0	96.0	95.0	93.6	90.7	79.7	59.4	40.0	28.2	15.8	13.6					
September26,1999	Cyclone #3		100.0	99.9	99.9	99.5	96.8	84.8	62.3	42.4	30.5	17.1	14.5					
	MEDIAN	99.0	100.0	99.6	99.3	97.4	92.7	77.2	53.6	38.1	27.8	16.9	14.7	-	-	-	-	-
	MAXIMUM	99.9	100.0	100.0	99.9	99.7	98.3	90.7	70.0	49.1	33.4	25.4	19.4	-	-	-	-	-
	MINIMUM	98.2	98.2	96.0	95.0	90.7	76.1	56.1	38.4	26.9	20.4	12.4	11.0	-	-	-	-	-

Notes: 1) These are 100% limits.

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250 790 2268 PAGE.014

File: d20-3 Summary.xls Sheet: Under Plot Date: 06/10/99 Time Plotted: 2:41 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-3 UNDERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

PERCENT FINER BY WEIGHT

100
90
80
70
60
50
40
30
20
10
0

- D10 = 30 microns
- May 4 - 11, 1999
- May 12- 17, 1999
- May 27- 30, 1999
- June 5,1999
- June 6,1999
- June 7,1999
- June 14-16, 1999
- June 15,1999
- June 16-20,1999
- June 23,1999
- July 3,1999
- July 5,1999
- July 6,1999
- July 15,1999
- July 19,1999
- July 22,1999
- July 25,1999
- August 1,1999
- August 5,1999
- August 8,1999
- August 12,1999
- August 16,1999
- August 18,1999
- September2,1999
- September5,1999
- September12,1999
- September19,1999
- September26,1999

1000 100 10 1 0.1 0.01 0.001

GRAIN SIZE IN MILLIMETERS

FIGURE D20-3-3

OCT 07 '99 08:31

OCT. 7.1999 8:24PM MOUNT POLLEY MINING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 4 UNDERFLOW GRADATIONS

$NA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PERIOD : 31-Aug-99
MATERIAL :	D20-4 UNDERFLOW TAILINGS SAMPLES	PROJECT #: 11162/10
		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%						
May 4 - 11, 1999	Cyclone #4				100.00	99.70	98.10	89.70	67.10	44.30	28.50	16.10	13.50	-	-	-	-	-
May 12- 17, 1999	Cyclone #4		100.0	98.60	97.80	95.50	88.40	70.20	49.30	34.00	25.20	14.4	12.3	-	-	-	-	-
May 27- 30, 1999	Cyclone #4		100.0	99.7	99.2	97.8	94.0	77.0	52.6	34.2	23.0	15.1	12.4	-	-	-	-	-
May 31- June 2, 1999	Cyclone #4		100.0	99.9	99.7	98.9	95.5	84.7	62.5	39.5	24.2	13.5	9.5	-	-	-	-	-
June 6,1999	Cyclone #4		100.0	98.7	97.6	94.7	90.5	77.7	53.6	35.4	23.8	15.1	12.2	-	-	-	-	-
June 8,1999	Cyclone #4		100.0	99.9	99.8	99.4	96.4	84.7	52.7	38.6	24.2	15.6	12.2	-	-	-	-	-
June 15,1999	Cyclone #4			100.0	99.9	99.2	95.3	80.2	52.4	33.2	23.8	14.4	13.0	-	-	-	-	-
June 16-20, 1999	Cyclone #4		100.0	99.7	99.2	98.0	94.4	83.4	55.8	40.4	28.9	17.5	14.9	-	-	-	-	-
June 23,1999	Cyclone #4		100.0	98.8	98.3	96.5	92.0	74.3	46.9	34.0	23.9	15.5	12.7	-	-	-	-	-
July 3,1999	Cyclone #4		100.0	98.8	98.1	96.6	93.2	82.8	58.0	37.4	26.7	14.9	12.8	-	-	-	-	-
July 5,1999	Cyclone #4		100.0	99.9	99.6	97.6	89.8	71.3	48.5	32.1	22.8	12.6	10.6	-	-	-	-	-
July 6,1999	Cyclone #4		100.0	99.8	99.6	98.4	93.9	78.6	54.0	36.3	26.0	14.5	12.6	-	-	-	-	-
July 8-11, 1999	Cyclone #4		100.0	99.5	99.0	96.9	91.5	75.7	50.4	32.9	23.2	12.9	11.8	-	-	-	-	-
July 15,1999	Cyclone #4		100.0	99.9	99.4	96.3	89.3	73.7	52.7	38.8	28.4	19.3	17.4	-	-	-	-	-
July 19,1999	Cyclone #4		100.0	96.3	95.8	94.8	92.2	72.4	51.8	38.5	29.3	27.4	15.8	-	-	-	-	-
July 22,1999	Cyclone #4		100.0	99.8	99.5	98.7	96.0	84.5	60.5	41.6	30.2	21.9	13.9	-	-	-	-	-
July 25,1999	Cyclone #4		100.0	99.6	99.3	98.6	96.7	87.4	62.1	44.7	30.2	16.0	13.6	-	-	-	-	-
August 1,1999	Cyclone #4		100.0	99.6	99.1	97.1	92.0	79.3	57.0	44.3	32.6	19.8	17.3	-	-	-	-	-
August 5,1999	Cyclone #4		100.0	99.5	98.7	97.4	94.8	87.4	66.6	51.0	35.8	22.7	18.3	-	-	-	-	-
August16,1999	Cyclone #4			100.0	99.8	98.6	92.6	74.2	54.8	39.2	28.5	18.1	14.6	-	-	-	-	-
August18,1999	Cyclone #4		100.0	99.9	99.7	98.3	91.6	70.7	49.8	34.6	25.2	14.9	13.0	-	-	-	-	-
August 23,1999	Cyclone #4		100.0	99.8	99.7	98.4	91.6	71.2	50.5	35.8	26.9	17.1	15.3	-	-	-	-	-
September 26,1999	Cyclone #4		100.0	99.9	99.8	99.3	95.7	81.6	60.8	42.3	30.5	16.6	14.2					
	MEDIAN	#NUM!	100.0	99.7	99.4	98.0	93.2	78.6	53.6	38.5	26.7	15.6	13.0	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.7	98.1	89.7	67.1	51.0	35.8	27.4	18.3	-	-	-	-	-
	MINIMUM	0.0	100.0	96.3	95.8	94.7	88.4	70.2	46.9	32.1	22.8	12.6	9.5	-	-	-	-	-

Notes: 1) These are 100% fines.

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250 790 2268 PAGE.016

NO.297 P.19/38

File: d20-4 Summary.xls Sheet: Under Plot Date: 06/10/99 Time Plotted: 2:42 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-4 UNDERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

PERCENT FINER BY WEIGHT

100
90
80
70
60
50
40
30
20
10
0

- D10 = 30 microns
- May 4 - 11, 1999
- May 12- 17, 1999
- May 27- 30, 1999
- May 31- June 2, 1999
- June 6,1999
- June 8,1999
- June 15,1999
- June 16-20, 1999
- June 23,1999
- July 3,1999
- July 5,1999
- July 6,1999
- July 8-11, 1999
- July 15,1999
- July 19,1999
- July 22,1999
- July 25,1999
- August 1,1999
- August 5,1999
- August16,1999
- August18,1999
- August 23,1999
- September26,1999

1000 100 10 1 0.1 0.01 0.001

GRAIN SIZE IN MILLIMETERS

FIGURE D20-4-3

OCT 07 '99 08:32

OCT. 7.1999 8:25AM MOUNT POLLEY MINING NO.297 P.18/58

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 5 UNDERFLOW GRADATIONS

ANA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PERIOD : 31-Aug-99
MATERIAL :	D10-5 UNDERFLOW TAILINGS SAMPLES	PROJECT #: 1116210
		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
June 16 - 20, 1999	Cyclone #5		100.0	99.93	99.68	98.70	94.85	83.58	56.80	41.20	27.53	15.53	13.05	-	-	-	-	-
June 23,1999	Cyclone #5		100.0	99.78	99.15	97.43	93.93	80.50	56.68	43.15	31.60	21.1	17.9	-	-	-	-	-
June28,1999	Cyclone #5		100.0	99.93	99.70	98.35	92.08	74.25	51.90	34.75	24.95	14.3	12.4	-	-	-	-	-
July 3,1999	Cyclone #5		100.0	99.95	99.80	98.95	95.90	85.35	62.10	40.58	28.75	15.7	13.3	-	-	-	-	-
July 5,1999	Cyclone #5		100.0	99.13	98.65	96.90	91.38	76.50	53.83	36.03	25.63	14.1	12.1	-	-	-	-	-
July 6,1999	Cyclone #5		100.0	99.88	99.43	97.30	91.70	76.70	56.80	41.50	31.35	20.1	18.1	-	-	-	-	-
July 8-11, 1999	Cyclone #5		100.0	99.75	99.40	96.65	88.48	68.83	46.55	32.38	23.40	13.63	12.70	-	-	-	-	-
July 15,1999	Cyclone #5		100.0	99.98	99.83	98.33	92.23	74.48	52.83	38.03	27.08	18.1	16.1	-	-	-	-	-
July 22,1999	Cyclone #5		100.0	99.88	99.60	98.58	95.08	81.15	56.03	38.20	28.08	23.6	14.0	-	-	-	-	-
July 25,1999	Cyclone #5		100.0	99.95	99.80	99.18	96.05	83.98	61.08	44.05	33.55	23.0	18.2	-	-	-	-	-
July 29,1999	Cyclone #5		100.0	99.99	99.94	99.18	95.02	81.29	59.80	41.90	32.17	21.6	19.9	-	-	-	-	-
August 1,1999	Cyclone #5		100.0	99.98	99.92	98.83	94.45	81.63	61.07	48.92	36.25	22.7	20.2	-	-	-	-	-
August 8,1999	Cyclone #5		100.0	99.88	99.60	97.78	88.88	69.95	49.03	33.75	24.83	15.4	12.6	-	-	-	-	-
August 16,1999	Cyclone #5				100.0	99.8	96.7	80.7	58.1	39.4	27.9	19.2	14.0	-	-	-	-	-
August 18,1999	Cyclone #5			100.0	99.8	97.8	93.8	76.7	57.6	40.0	29.2	18.8	15.8	-	-	-	-	-
August 23,1999	Cyclone #5		100.0	99.9	99.7	97.0	86.7	65.0	46.7	32.0	22.8	12.3	10.5	-	-	-	-	-
August30,1999	Cyclone #5			100.0	99.8	98.3	90.9	72.0	50.2	35.8	27.1	18.4	15.5					
September5,1999	Cyclone #5		100.0	99.9	99.7	97.6	89.3	70.8	52.6	38.4	29.0	18.3	16.4					
September26,1999	Cyclone #5		100.0	99.6	99.2	98.1	94.9	82.3	59.4	39.7	28.3	15.7	13.3					
	MEDIAN	#NUM!	100.0	99.9	99.7	98.3	93.8	76.7	56.7	39.4	28.1	18.3	14.0	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.8	96.7	85.4	62.1	48.9	36.3	23.6	20.2	-	-	-	-	-
	MINIMUM	0.0	100.0	99.1	98.7	96.7	86.7	65.0	46.6	32.0	22.8	12.3	10.5	-	-	-	-	-

Notes: 1) These are 100 % limits.

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OCT 07 '99 08:32

File: d20-5 Summary.xls Sheet: Under Plot Date: 06/10/99 Time Plotted: 2:43 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-5 UNDERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

PERCENT FINER BY WEIGHT

- D10 = 30 microns
- June 16 - 20, 1999
- June 23,1999
- June28,1999
- July 3,1999
- July 5,1999
- July 6,1999
- July 8-11, 1999
- July 15,1999
- July 22,1999
- July 25,1999
- July 29,1999
- August 1,1999
- August 8,1999
- August 16,1999
- August 18,1999
- August 23,1999
- August30,1999
- September5,1999
- September26,1999

GRAIN SIZE IN MILLIMETERS

FIGURE D20-5-3

OCT. 7. 1999 8:20AM MOUNT POLLY MINING NO.291 P.13/28

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OCT 07 '99 08:32

OCT. 7.1999 8:23AM MOUNT POLLEY MINING P.027

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 6 UNDERFLOW GRADATIONS

N/A

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116/10
MATERIAL :	D20-6 UNDERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%
June 16 - 20, 1999	Cyclone #6		100.0	99.95	99.80	99.40	96.63	85.15	55.75	39.90	27.65	16.00	12.63	-	-	-	-	-
June 23,1999	Cyclone #6		100.0	99.95	99.88	99.70	98.38	90.33	68.33	45.35	31.73	17.4	14.5	-	-	-	-	-
June 28,1999	Cyclone #6		100.0	99.95	99.70	98.30	92.93	78.58	56.25	37.78	27.65	16.2	14.1	-	-	-	-	-
July 3,1999	Cyclone #6			100.00	99.98	99.88	98.90	93.35	74.25	48.00	31.93	16.7	14.0	-	-	-	-	-
July 5,1999	Cyclone #6		100.0	99.98	99.88	99.30	95.25	80.10	55.20	37.48	27.50	15.8	13.8	-	-	-	-	-
July 6,1999	Cyclone #6		100.0	99.95	99.93	99.75	98.33	90.23	68.55	44.43	31.03	17.1	14.6	-	-	-	-	-
July 8-11, 1999	Cyclone #6		100.0	99.93	99.75	98.95	96.65	84.43	61.55	40.78	28.15	19.2	14.1	-	-	-	-	-
July 15,1999	Cyclone #6		100.0	99.98	99.95	99.78	98.20	88.53	62.95	42.63	29.33	19.0	16.5	-	-	-	-	-
July 19,1999	Cyclone #6			100.00	99.95	99.65	98.00	87.83	65.30	45.55	32.73	24.3	17.7	-	-	-	-	-
July 22,1999	Cyclone #6				100.00	99.88	98.85	91.65	68.98	46.10	32.80	20.6	14.9	-	-	-	-	-
July 25,1999	Cyclone #6		100.0	99.88	99.70	99.00	96.25	87.15	63.60	48.65	37.88	26.3	22.4	-	-	-	-	-
August 1,1999	Cyclone #6		100.0	99.90	99.57	97.30	90.72	73.93	51.68	39.77	29.48	18.7	16.5	-	-	-	-	-
August 5,1999	Cyclone #6		100.0	99.9	99.4	98.8	97.9	83.5	66.3	49.6	37.0	22.9	18.3	-	-	-	-	-
August 8,1999	Cyclone #6		100.0	99.9	99.6	97.2	89.0	71.0	48.2	32.8	24.1	15.6	12.9	-	-	-	-	-
August 12,1999	Cyclone #6			100.0	99.9	99.2	94.2	77.2	55.4	38.4	28.0	21.9	15.1	-	-	-	-	-
August 16,1999	Cyclone #6			100.0	99.9	99.2	93.9	76.7	58.0	42.5	31.4	21.7	17.0	-	-	-	-	-
August 23,1999	Cyclone #6		100.0	100.0	100.0	99.9	97.7	85.7	62.8	42.4	30.8	17.9	15.6	-	-	-	-	-
August30,1999	Cyclone #6			100.0	99.9	98.9	94.1	77.6	53.5	36.8	26.9	17.1	13.5					
September2,1999	Cyclone #6			100.0	99.9	98.7	92.3	72.0	51.2	36.3	27.4	18.3	16.7					
September5,1999	Cyclone #6				100.0	99.8	96.6	84.2	56.4	40.5	28.5	18.7	16.0					
September26,1999	Cyclone #6		100.0	99.9	99.8	98.9	94.4	78.8	57.4	40.3	30.1	18.3	16.1					
	MEDIAN	#NUM!	100.0	100.0	99.9	99.2	96.6	84.2	58.0	40.8	29.5	18.3	15.1	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.9	98.9	93.4	74.3	49.6	37.9	26.3	22.4	-	-	-	-	-
	MINIMUM	0.0	100.0	99.9	99.4	97.2	89.0	71.0	48.2	32.8	24.1	15.6	12.6	-	-	-	-	-

Notes: 1) These are 100% limits.

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MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-6 UNDERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
CONSULTING ENGINEERS

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

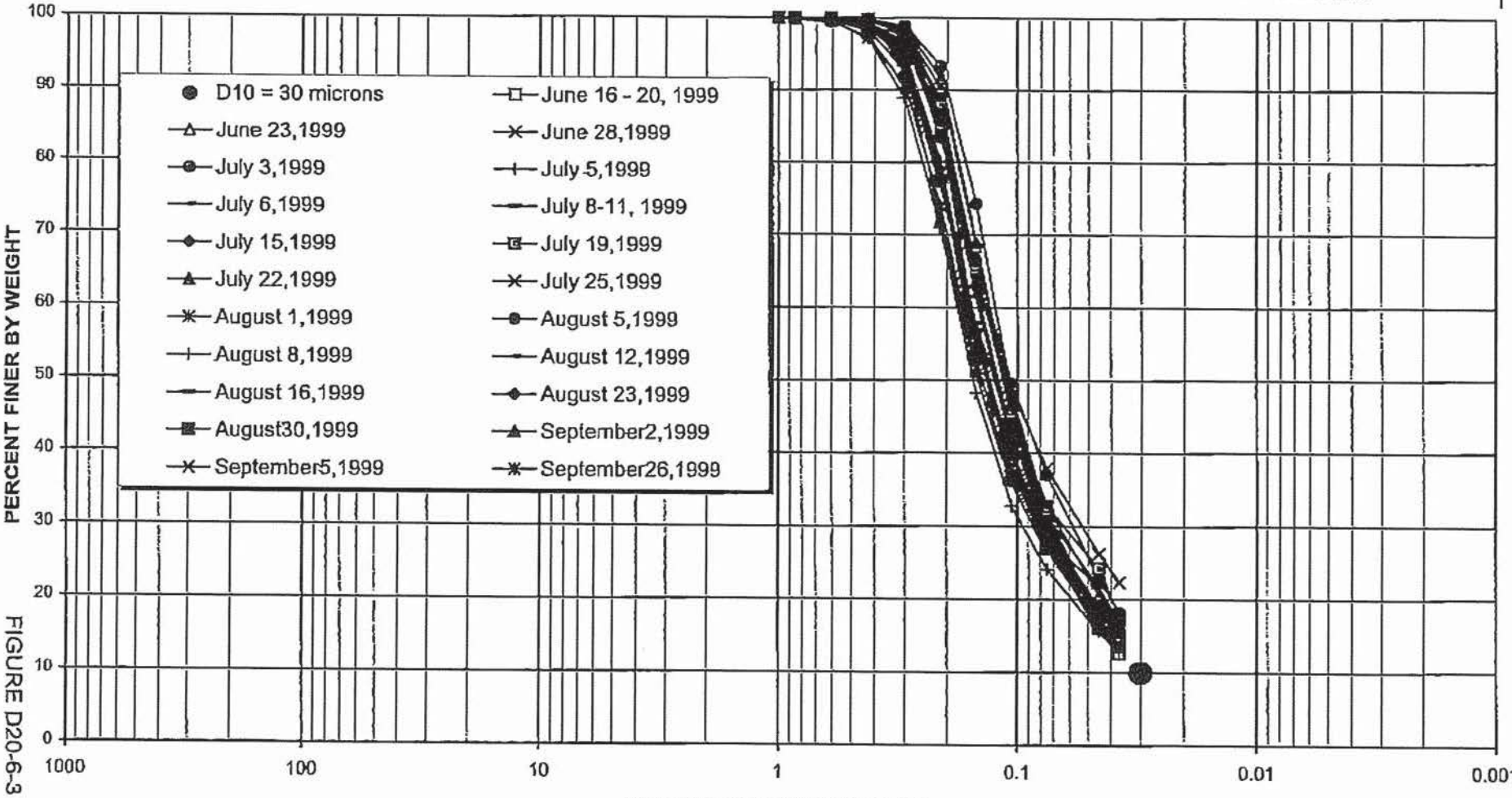


FIGURE D20-6-3

OCT 07 '99 08:32
INVESTIGATION KCB-2 Page 226 of 500
250 790 2268 PAGE.021
OCT. 7.1999 8:28AM MOUNT POLLY MINING NO.297 P.21/58

OCT 07 '99 08:33

OCT. 7.1999 8:28AM MOUNT POLLEY MINING NO.297 P.22/58

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 1 OVERFLOW GRADATIONS

#N/A

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1T162/10
MATERIAL :	D20-1 OVERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #1					100.00	99.70	97.60	91.60	83.00	74.20	64.20	61.30	-	-	-	-	-
May 12 - 17, 1999	Cyclone #1		99.9	95.70	95.10	93.20	89.00	77.90	65.80	52.80	44.00	32.0	29.4	-	-	-	-	-
May 27 - 30, 1999	Cyclone #1			100.0	100.0	99.9	99.9	99.3	96.7	89.4	77.6	63.7	56.8	-	-	-	-	-
June16-20, 1999	Cyclone #1				100.0	99.9	99.7	98.7	93.8	84.1	73.0	56.9	50.9	-	-	-	-	-
June23, 1999	Cyclone #1		100.0	99.9	99.7	99.1	98.5	96.2	90.1	82.3	73.3	62.1	57.9	-	-	-	-	-
July3, 1999	Cyclone #1						100.0	99.6	96.3	87.8	76.8	58.4	53.4	-	-	-	-	-
July6, 1999	Cyclone #1		100.0	99.8	99.8	99.7	99.6	98.9	95.4	85.9	73.4	52.6	47.4	-	-	-	-	-
July8-11, 1999	Cyclone #1		100.0	99.8	99.5	99.5	99.2	97.3	90.8	79.2	67.3	48.1	44.7	-	-	-	-	-
July15, 1999	Cyclone #1		100.0	99.9	99.8	99.7	99.0	95.5	86.9	75.4	62.6	48.9	45.2	-	-	-	-	-
September2, 1999	Cyclone #1					100.0	99.6	97.0	89.6	77.2	64.8	46.2	41.8					
September26, 1999	Cyclone #1					100.0	99.8	97.8	91.9	80.9	68.2	47.0	42.0					
	MEDIAN		100.0	99.8	99.8	99.8	99.6	97.6	91.6	82.3	73.0	52.6	47.4	-	-	-	-	-
	MAXIMUM		100.0	100.0	100.0	100.0	100.0	99.6	96.7	89.4	77.6	64.2	61.3	-	-	-	-	-
	MINIMUM		99.9	95.7	95.1	93.2	89.0	77.9	65.8	52.8	44.0	32.0	29.4	-	-	-	-	-

Notes: 1) These are 100% limits.

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MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-1 OVERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
CONSULTING ENGINEERS

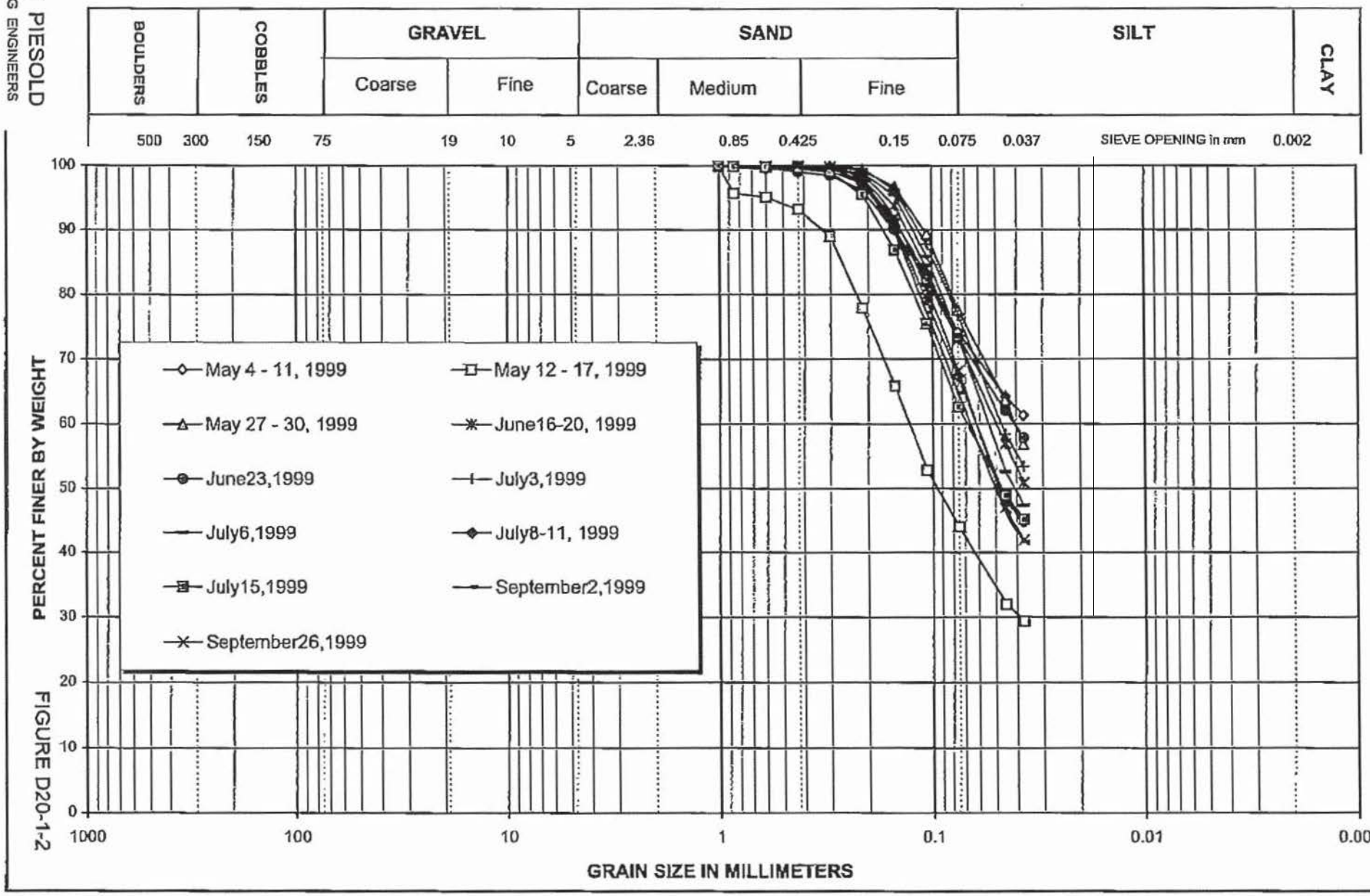


FIGURE D20-1-2

OCT 07 '99 08:33
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250 790 2268 PAGE.023
OCT. 7.1999 8:26AM MOUNT POLLY MINING NO.297 P.23/38

OCT 07 '99 08:33

OCT. 7.1999 8:26PM MOUNT POLLEY MINING NO.697 P.24/58

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 2 OVERFLOW GRADATIONS

JNJA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PROJECT #: 111@2/10
MATERIAL : D10-2 OVERFLOW TAILINGS SAMPLES		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #2		100.0	99.80	99.50	98.70	96.30	88.20	72.40	59.10	48.70	39.20	36.80	-	-	-	-	-
May 12 - 17, 1999	Cyclone #2			100.00	99.50	97.90	87.90	68.90	50.30	36.20	27.90	17.4	15.3	-	-	-	-	-
May 27 - 30, 1999	Cyclone #2			100.0	99.9	99.8	99.6	98.3	93.1	85.7	77.0	59.1	55.4	-	-	-	-	-
June 16,1999	Cyclone #2		100.0	99.9	99.7	99.5	98.9	96.0	84.9	73.4	60.3	43.3	39.0	-	-	-	-	-
June 16-20, 1999	Cyclone #2				100.0	99.9	99.6	98.5	93.3	83.3	69.0	56.0	49.8	-	-	-	-	-
July 25,1999	Cyclone #2				100.0	99.9	99.4	98.2	93.3	83.1	73.0	68.3	50.6	-	-	-	-	-
August 1,1999	Cyclone #2		100.0	98.8	98.6	98.2	97.5	95.7	90.5	83.5	74.0	60.4	56.1	-	-	-	-	-
August 16,1999	Cyclone #2		100.0	99.9	99.9	99.8	99.2	94.7	82.1	60.7	41.8	24.5	19.2	-	-	-	-	-
August30,1999	Cyclone #2					100.0	99.8	96.7	87.9	75.9	64.7	48.7	40.6					
September2,1999	Cyclone #2					100.0	99.9	98.7	93.6	82.9	70.6	50.4	45.7					
	MEDIAN	#NUM!	100.0	99.9	99.8	99.8	99.3	96.3	89.2	79.4	66.9	49.5	43.1	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	100.0	99.9	98.7	93.6	85.7	77.0	68.3	56.1	-	-	-	-	-
	MINIMUM	0.0	100.0	98.8	98.6	97.5	87.9	68.9	50.3	36.2	27.9	17.4	15.3	-	-	-	-	-

Notes: 1) These are 100% limits.

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250 790 2268 PAGE.024

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-2 OVERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
CONSULTING ENGINEERS

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

PERCENT FINER BY WEIGHT

100
90
80
70
60
50
40
30
20
10
0

- May 4 - 11, 1999
- May 12 - 17, 1999
- May 27 - 30, 1999
- June 16,1999
- June 16-20, 1999
- July 25,1999
- August 1,1999
- August 16,1999
- August30,1999
- September2,1999

1000 100 10 1 0.1 0.01 0.001

GRAIN SIZE IN MILLIMETERS

FIGURE D20-2-2

OCT 07 '99 08:33
OCT. 7.1999 8:27AM MOUNT POLLEY MINING NO.297 P.23/38
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OCT 07 '99 08:34

OCT. 7.1999 8:27AM MOUNT POLLEY MINING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 3 OVERFLOW GRADATIONS

INA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116210
MATERIAL :	D20-3 OVERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%
May 4 - 11, 1999	Cyclone #3				100.00	99.90	99.40	97.30	91.60	82.30	70.80	56.40	51.90	-	-	-	-	-
May 12- 17, 1999	Cyclone #3	99.8	99.8	99.00	98.30	96.20	89.00	70.30	46.70	32.30	22.70	15.20	12.40	-	-	-	-	-
June 5,1999	Cyclone #3		100.0	99.7	99.3	97.8	94.2	84.3	67.8	46.5	27.5	16.0	12.4	-	-	-	-	-
June 7,1999	Cyclone #3				100.0	99.8	99.8	96.8	89.2	75.2	60.5	39.6	34.6	-	-	-	-	-
June 8,1999	Cyclone #3			100.0	99.8	98.9	97.0	83.0	56.6	36.2	25.3	13.8	11.5	-	-	-	-	-
June 16-20, 1999	Cyclone #3				100.0	99.9	99.5	98.3	94.6	86.5	73.7	61.2	55.4	-	-	-	-	-
June 23,1999	Cyclone #3		100.0	99.7	99.4	99.0	98.2	95.4	86.8	71.7	57.9	38.2	33.3	-	-	-	-	-
August 1,1999	Cyclone #3			100.0	99.9	99.8	99.1	96.6	88.4	78.9	67.6	53.8	48.8	-	-	-	-	-
August 18,1999	Cyclone #3						100.0	98.3	92.5	81.4	69.7	53.6	48.6	-	-	-	-	-
September2,1999	Cyclone #3					100.0	99.8	98.3	93.4	83.6	72.3	54.1	49.6					
September26,1999	Cyclone #3					100.0	99.9	98.7	94.6	85.3	73.7	54.2	49.2					
	MEDIAN	99.8	100.0	99.7	99.8	99.8	99.4	96.8	89.2	78.9	67.6	53.6	48.6	-	-	-	-	-
	MAXIMUM	99.8	100.0	100.0	100.0	100.0	100.0	98.7	94.6	86.5	73.7	61.2	55.4	-	-	-	-	-
	MINIMUM	99.8	99.8	99.0	98.3	96.2	89.0	70.3	46.7	32.3	22.7	13.8	11.5	-	-	-	-	-

Notes: 1) These are 100% limits.

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INV.237 P.026/058

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-3 OVERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

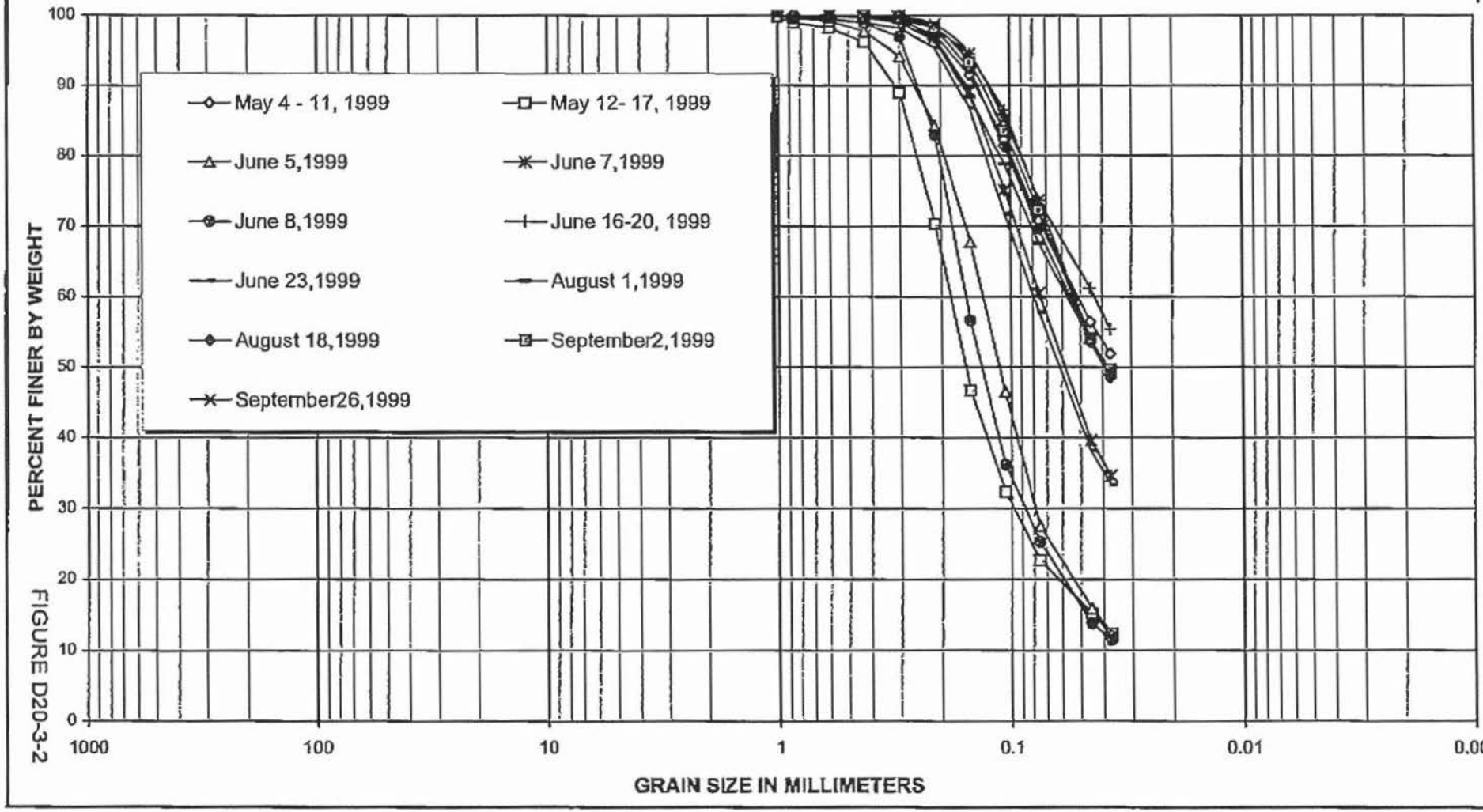


FIGURE D20-3-2

OCT 07 '99 08:34
OCT. 7.1999 8:27AM MOUNT POLLY MINING NO.297 P.27/38
INVESTIGATION KCB-2 Page 232 of 500
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OCT 07 '99 08:34

OCT. 7.1999 8:27PM KNIGHT PIESOLD TILTING NO.237 P.28/28

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 4 OVERFLOW GRADATIONS

ENA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 3
		PERIOD : 31-Aug-99
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PROJECT #: 1116210
MATERIAL : D20-4 OVERFLOW TAILINGS SAMPLES		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #4			100.00	100.00	99.70	98.10	89.70	67.10	44.30	28.50	16.10	13.50	-	-	-	-	-
May 12- 17, 1999	Cyclone #4		100.0	98.60	97.80	95.50	88.40	70.20	49.30	34.00	25.20	14.40	12.30	-	-	-	-	-
May 27- 30, 1999	Cyclone #4		100.0	99.7	99.2	97.8	94.0	77.0	52.6	34.2	23.0	15.1	12.4	-	-	-	-	-
May 31- June 2, 1999	Cyclone #4		100.0	99.5	99.1	97.6	94.0	84.4	70.8	61.1	55.0	50.5	48.7	-	-	-	-	-
June16-20, 1999	Cyclone #4				100.0	99.8	99.6	98.4	93.7	83.7	68.9	55.8	49.9	-	-	-	-	-
June 23,1999	Cyclone #4			100.0	99.8	99.6	99.3	98.1	93.2	82.5	70.5	52.1	46.9	-	-	-	-	-
July 3,1999	Cyclone #4				100.0	99.9	99.8	99.3	95.4	86.6	76.2	57.9	53.2	-	-	-	-	-
July 6,1999	Cyclone #4		100.0	99.7	98.6	93.3	80.6	60.6	44.4	33.1	25.5	16.7	15.2	-	-	-	-	-
July 25,1999	Cyclone #4		100.0	99.9	99.9	99.8	99.7	98.9	95.8	87.6	76.9	58.8	51.7	-	-	-	-	-
August 1,1999	Cyclone #4			100.0	99.9	99.8	99.2	97.0	89.7	80.5	69.3	56.5	50.7	-	-	-	-	-
August 16,1999	Cyclone #4		100.0	99.9	99.9	99.8	99.3	96.5	89.5	78.2	66.6	51.8	45.0	-	-	-	-	-
August 30,1999	Cyclone #4		100.0	99.9	99.7	97.0	88.4	65.9	45.4	32.3	24.3	16.1	13.2					
September2,1999	Cyclone #4		100.0	99.8	99.7	99.3	98.1	93.5	84.3	72.5	61.7	46.2	42.4					
	MEDIAN	#NUM!	100.0	99.9	99.8	99.6	98.1	93.5	84.3	72.5	61.7	50.5	45.0	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.9	99.8	99.3	95.8	87.6	76.9	58.8	53.2	-	-	-	-	-
	MINIMUM	0.0	100.0	98.6	97.8	93.3	80.6	60.6	44.4	32.3	23.0	14.4	12.3	-	-	-	-	-

Notes: 1) These are 100% fines.

INVESTIGATION KCB-2 Page 233 of 500
250 790 2268 PAGE.028

OCT 07 '99 08:35

File: d20-4 Summary.xls Sheet: OVER PLOT Date: 06/30/99 Time Plotted: 2:42 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-4 OVERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

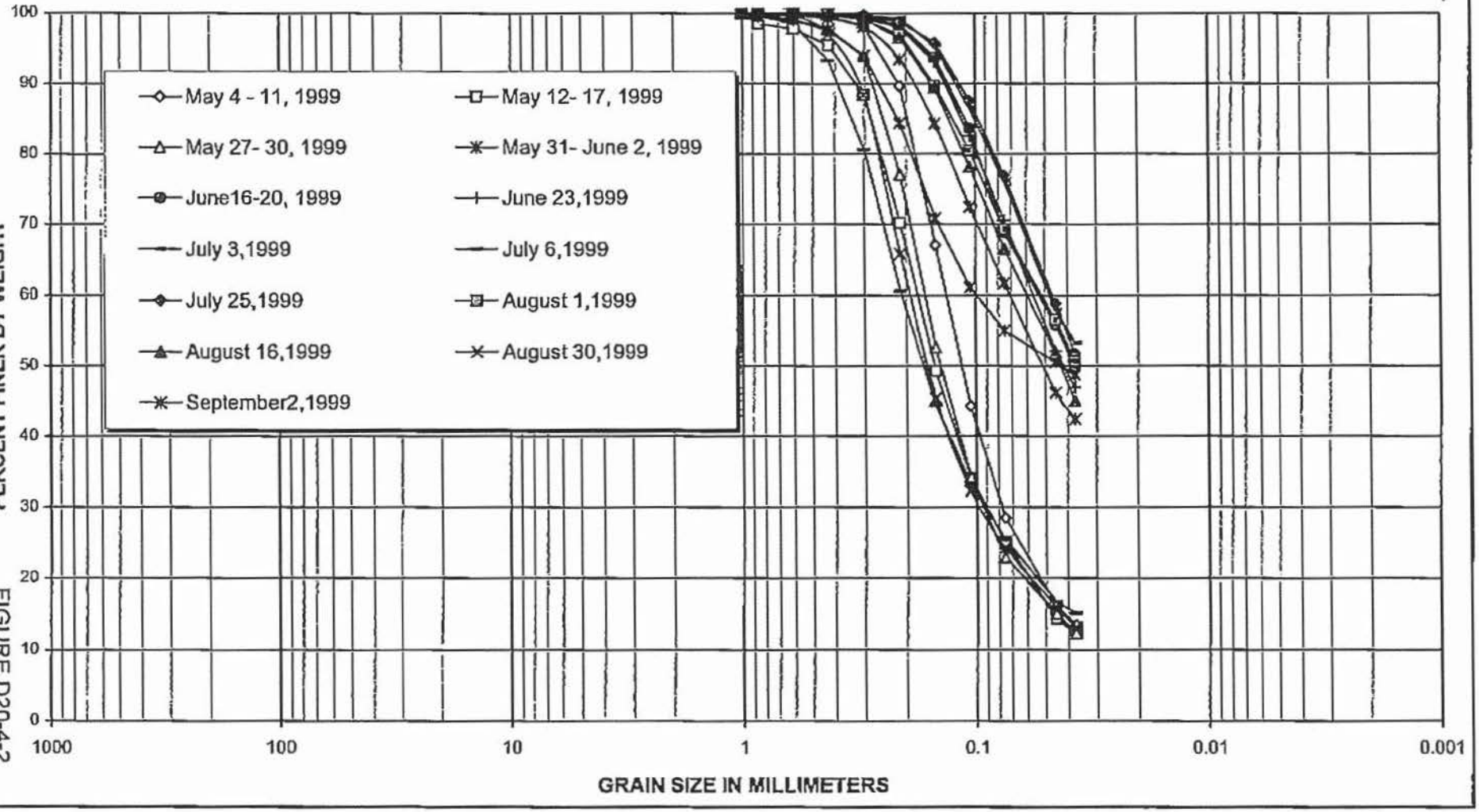


FIGURE D20-4-2

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OCT 07 '99 08:35

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 5 OVERFLOW GRADATIONS

#N/A

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PROJECT #: 11162/10
MATERIAL : D20-5 OVERFLOW TAILINGS SAMPLES		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
June 16 - 20, 1999	Cyclone #5					100.00	99.88	98.68	93.30	82.75	65.63	51.65	46.00	-	-	-	-	-
June 23, 1999	Cyclone #5			100.00	99.70	99.28	97.98	93.70	83.88	70.00	57.68	40.98	36.75	-	-	-	-	-
July 3, 1999	Cyclone #5		100.0	99.98	99.95	99.90	99.65	98.48	93.63	83.90	73.08	56.03	51.55	-	-	-	-	-
July 6, 1999	Cyclone #5		100.0	99.95	99.90	99.85	99.70	97.58	88.60	72.58	59.50	42.93	39.13	-	-	-	-	-
July 8-11, 1999	Cyclone #5		100.0	99.95	99.85	99.68	99.18	96.38	88.40	75.85	64.25	44.00	42.20	-	-	-	-	-
July 29, 1999	Cyclone #5		100.0	99.78	99.76	99.59	98.64	94.94	86.93	76.50	63.75	47.50	43.25	-	-	-	-	-
August 30, 1999	Cyclone #5				100.00	99.95	99.43	95.63	86.38	73.90	62.60	45.10	41.05					
	MEDIAN	#NUM!	100.0	100.0	99.9	99.9	99.4	96.4	88.4	75.9	63.8	45.1	42.2	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	100.0	99.9	98.7	93.6	83.9	73.1	56.0	51.6	-	-	-	-	-
	MINIMUM	0.0	100.0	99.8	99.7	99.3	98.0	93.7	83.9	70.0	57.7	41.0	36.8	-	-	-	-	-

Notes: 1) These are 100% limits.

INVESTIGATION KCB2 Page 235 of 500 PAGE.030

OCT 07 '99 08:35

File: d20-5 Summary.xls Sheet: OVER_PLOT Date: 05/10/99 Time Plotted: 2:42 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-5 OVERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

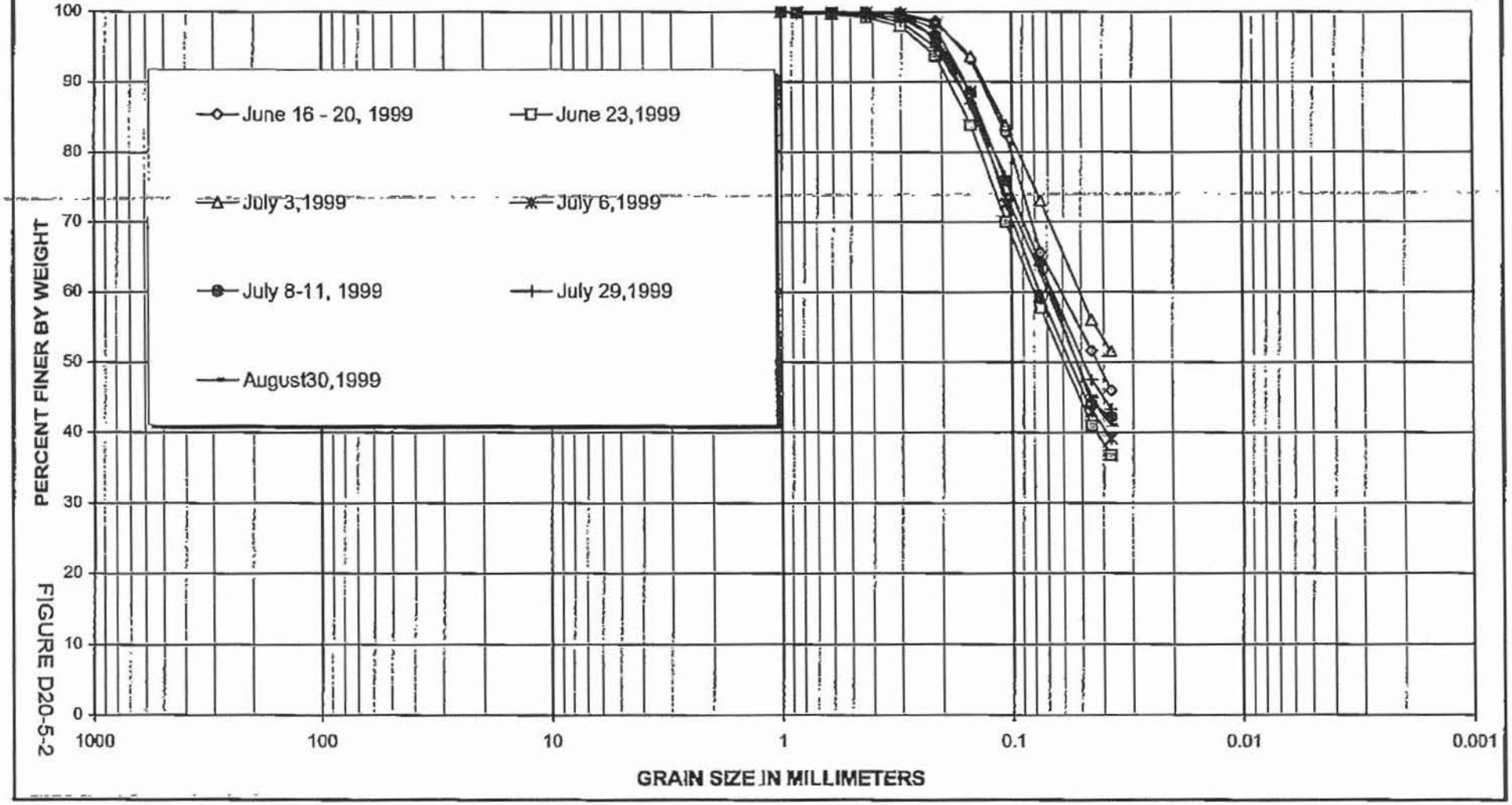


FIGURE D20-5-2

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250 7500 2268 PAGE.031

OCT 07 '99 08:35

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 6 OVERFLOW GRADATIONS

#N/A

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PERIOD : 31-Aug-99
MATERIAL :	D20-6 OVERFLOW TAILINGS SAMPLES	PROJECT #: 1116210
		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
June 16 - 20, 1999	Cyclone #6				100.00	99.93	99.35	97.00	90.00	78.33	61.95	47.98	42.35	-	-	-	-	-
June 23,1999	Cyclone #6		100.0	99.80	99.13	98.53	97.75	96.68	93.58	85.60	74.73	56.13	50.88	-	-	-	-	-
June 28,1999	Cyclone #6					100.00	99.98	99.10	93.30	80.55	66.73	44.10	38.15	-	-	-	-	-
July 6,1999	Cyclone #6					100.00	99.90	99.58	97.98	91.80	81.38	62.28	57.63	-	-	-	-	-
July 25,1999	Cyclone #6		100.0	96.15	95.83	95.30	94.63	93.15	89.35	80.70	71.05	58.45	48.88	-	-	-	-	-
August 1,1999	Cyclone #6		100.0	99.98	99.97	99.90	99.38	97.17	89.93	80.23	67.80	53.15	45.00	-	-	-	-	-
August 5,1999	Cyclone #6		100.0	99.90	99.85	99.68	99.63	96.80	91.85	83.38	73.20	61.65	49.85	-	-	-	-	-
August 16,1999	Cyclone #6			100.00	99.98	99.95	99.73	98.08	93.13	82.33	69.70	53.63	44.98	-	-	-	-	-
August30,1999	Cyclone #6		100.0	99.98	99.95	99.90	99.53	96.45	87.28	73.40	60.15	39.53	34.78					
September2,1999	Cyclone #6		100.0	99.63	99.23	96.45	87.58	66.13	46.98	32.75	23.85	14.35	12.70					
	MEDIAN	#NUM!	100.0	99.9	99.9	99.9	99.5	96.9	90.9	80.6	68.8	53.4	45.0	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	100.0	100.0	99.6	98.0	91.8	81.4	62.3	57.6	-	-	-	-	-
	MINIMUM	0.0	100.0	96.2	95.8	95.3	87.6	66.1	47.0	32.8	23.9	14.4	12.7	-	-	-	-	-

Notes: 1) These are 100% limits.

INVESTIGATION KGB2 Page 237 of 500 PAGE.032

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-6 OVERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
CONSULTING ENGINEERS

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

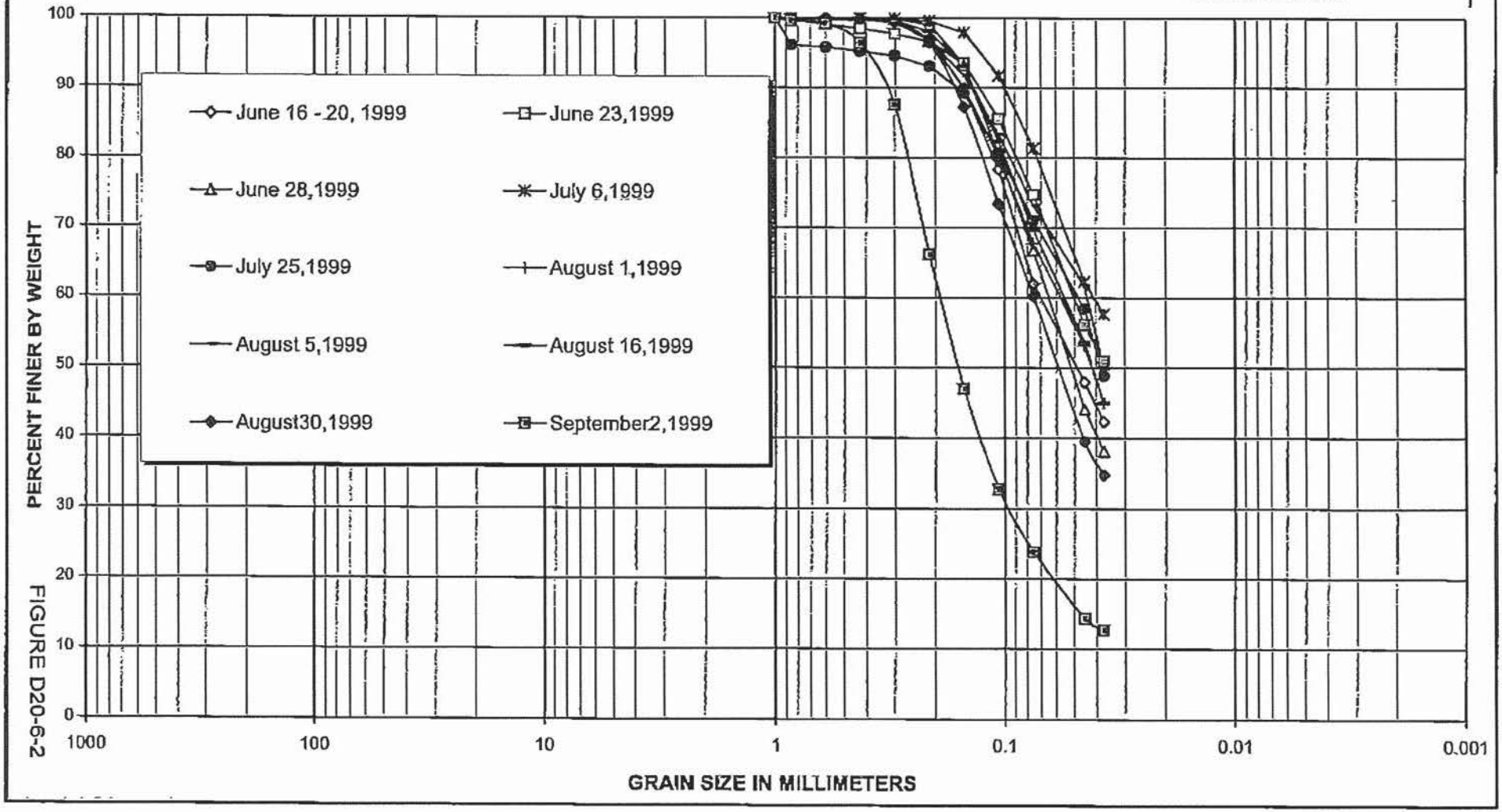


FIGURE D20-6-2

OCT 07 '99 08:36
INVESTIGATION KGB-2 Page 238 of 500 250/90 2268 PAGE.033
OCT. 7.1999 8:29AM MOUNT POLLY MINING NO.621 P.33/36

OCT 07 '99 08:36

OCT. 7.1999 8:23AM MOUNT POLLEY MINING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

WEEKLY AVERAGED BULK TAILINGS SAMPLES

Knight Piesold
CONSULTING ENGINEERS

1999 CONTROL SAMPLE TESTS - SUMMARY SHEET

SHEET: 1 OF 1
PERIOD: June 10, 1999
PROJECT NO.: 1116/10
AREA: CYCLONE SAND TESTING

PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES
MATERIAL : WEEKLY AVERAGED BULK TAILINGS SAMPLES

DATE SAMPLED	SAMPLE No. / Depth (m)	LOCATION	Particle Size Distribution																	
			10.00	5.00	2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
					#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer?				
			%	%	%	%	%	%	%	%	%	%	%	%	%						
	May 4 - 11, 1999						100.00	99.97	99.84	99.20	96.17	88.33	77.12	64.96							
	May 12- 17, 1999					100.0	99.99	99.96	99.87	99.33	96.98	90.50	81.09	70.28							
	May 18- 26, 1999						100.0	100.0	99.8	99.3	96.4	89.5	78.9	66.5			USED WEEKLY AVERAGE FROM DAILY BULK DATA SHEET (SEE DAILY SHEET)				
	May 27- 30, 1999						100.0	100.0	99.0	99.3	96.5	89.9	78.8	66.4							
	May 31- June 2, 1999							100.0	99.9	99.6	97.1	91.3	81.6	69.8							
	June 3-6, 1999							100.0	99.9	99.7	97.9	92.9	83.4	70.7	56.1	50.3					
	June 7- 10, 1999						100.0	99.9	99.9	99.8	98.7	94.3	85.8	75.2	64.8	53.6					
	June11-14, 1999						100.0	99.9	99.6	98.5	94.3	85.8	74.4	63.6	49.1	45.5					
	June15-16, 1999							100.0	99.8	99.2	96.1	87.4	78.1	68.0	53.1	48.9					
	June17-20, 1999					100.0	97.6	96.7	94.9	92.4	88.6	82.2	72.7	62.4	49.1	45.7					
	June21-24, 1999							100.0	99.9	99.3	97.0	90.7	81.0	67.2	54.1	49.4					
	June 25-28, 1999							100.0	99.9	99.3	96.9	90.3	79.8	68.6	51.3	46.8					
	June 29 - July 2, 1999							100.0	99.7	99.1	97.1	91.8	82.7	72.6	56.8	51.3					
	July 3-6, 1999							100.0	99.7	99.6	96.2	88.3	77.9	67.2	51.0	47.1					
	July7-10, 1999							100.0	99.9	99.5	96.3	89.9	81.3	72.8	61.3	57.5					
	July 11-14, 1999							100.0	99.6	99.6	96.0	87.4	78.1	68.2	49.7	45.5					
	July 15-18, 1999							100.0	99.9	99.2	96.6	89.9	79.3	66.4	51.9	47.7					
	July 19-22, 1999								100.0	99.6	97.8	92.6	83.0	69.7	59.9	49.1					
	July 23-26, 1999							100.0	99.9	99.6	97.7	92.4	83.1	73.3	60.8	52.0					
	August 4-7, 1999							100.0	99.6	99.1	95.6	90.5	80.9	71.6	57.8	50.7					
	August 8-11, 1999							100.0	99.8	99.9	95.7	87.5	74.8	62.8	48.0	41.8					
	August 12-15, 1999							100.0	99.9	99.2	96.6	90.3	80.1	69.3	54.4	48.0					
	August 16-19, 1999							100.0	99.9	99.2	96.0	89.2	79.4	69.9	51.5	47.5					
	August 20-23, 1999							100.0	99.9	99.9	95.1	89.1	77.5	66.9	49.9	45.9					
	August 24-27, 1999							100.0	99.8	99.0	96.1	90.4	81.1	70.5	52.4	48.1					
	Aug28-Sept1, 1999							100.0	99.8	99.7	94.8	85.7	75.5	64.3	47.6	43.9					
	September 2-4, 1999								100.0	99.6	97.4	92.9	84.8	74.8	57.6	53.2					
	September 5-8, 1999								100.0	99.5	96.7	90.8	81.1	70.6	53.2	49.8					
	September 9-12, 1999							100.0	99.9	99.3	96.5	89.8	79.7	69.0	51.6	47.4					
	September 17-20, 1999							100.0	99.9	99.5	97.2	92.0	82.8	71.7	54.2	49.8					
	1September 25-28, 1999								100.0	99.8	97.8	91.9	80.9	68.2	47.0	42.0					
	3September 25-28, 1999								100.0	99.9	98.7	94.6	85.3	73.7	54.2	49.2					
	mMTS-Sept 25-28, 1999							100.0	99.9	99.6	97.5	92.5	83.7	73.2	56.8	52.6					
MEDIAN					#NUM!	100.0	100.0	100.0	99.9	99.2	96.6	89.9	79.6	68.6	52.7						
MAXIMUM					0.0	100.0	100.0	100.0	100.0	99.9	98.7	94.3	85.8	75.2	64.8						
MINIMUM					0.0	100.0	97.6	96.7	94.9	92.4	88.6	82.2	72.7	62.4	49.0						

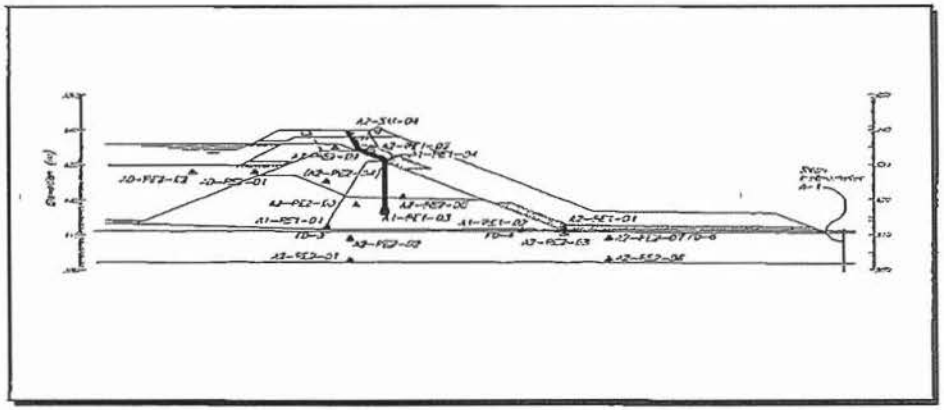
Notes: 1) These are 100% limits.

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250/98 2268 PAGE.034

OCT 07 '99 08:37

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS



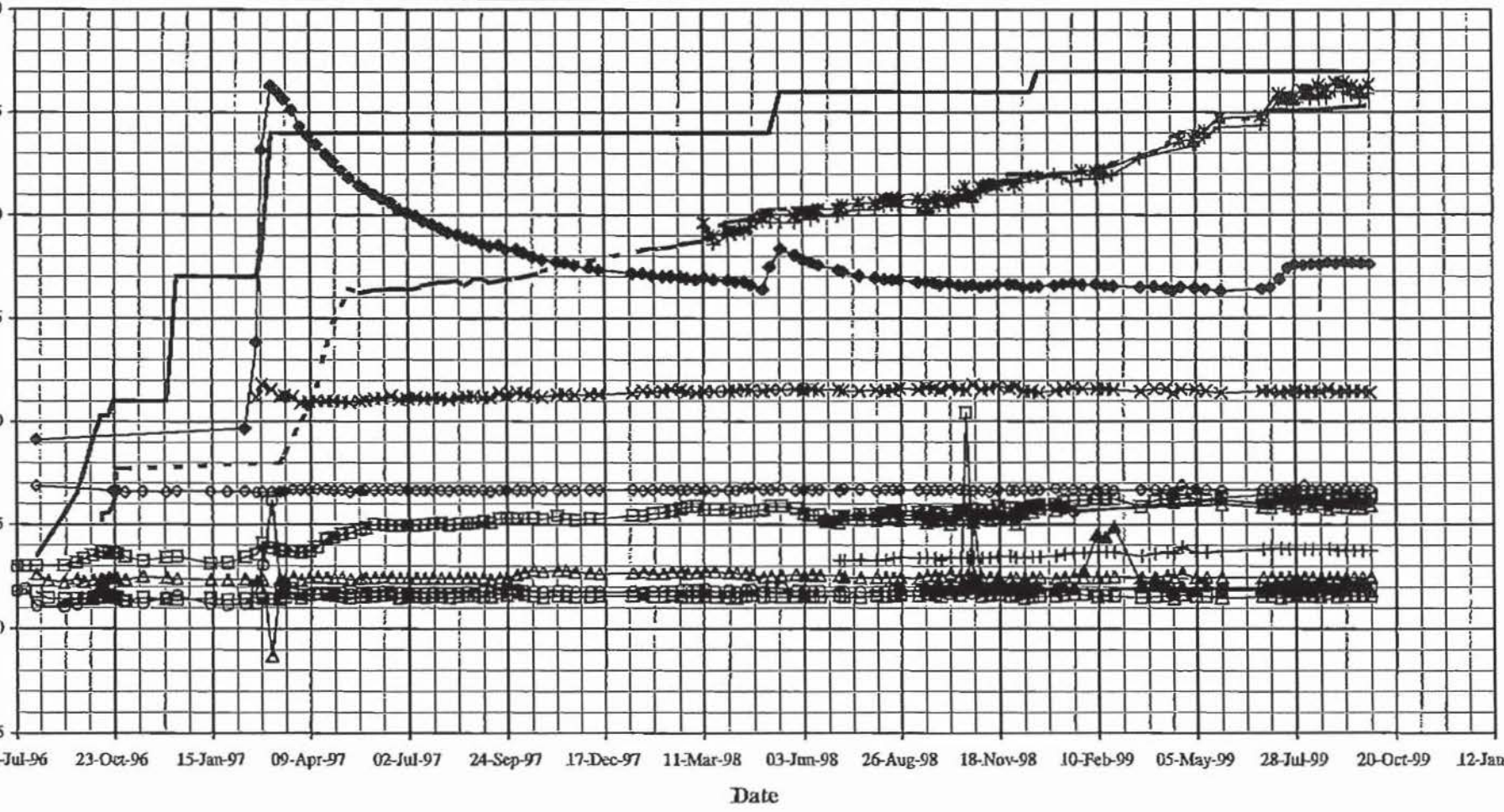


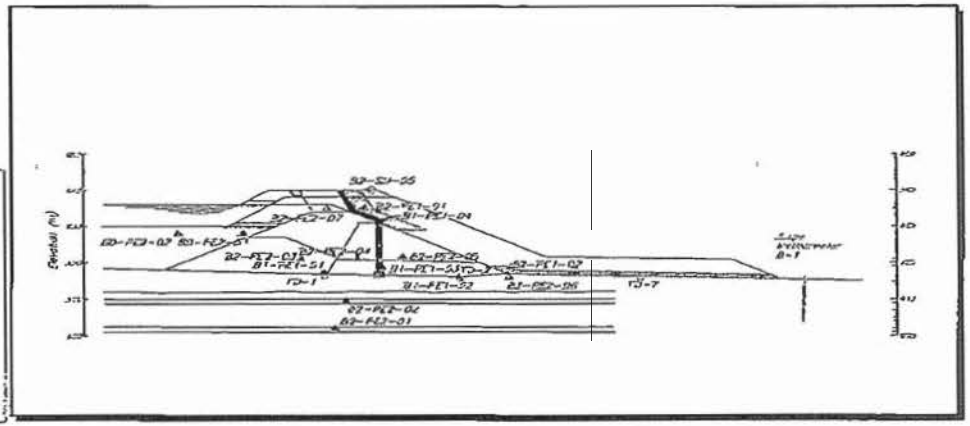
FIGURE 1

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250 /99 2268 PAGE.035

OCT 07 '99 08:37

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS



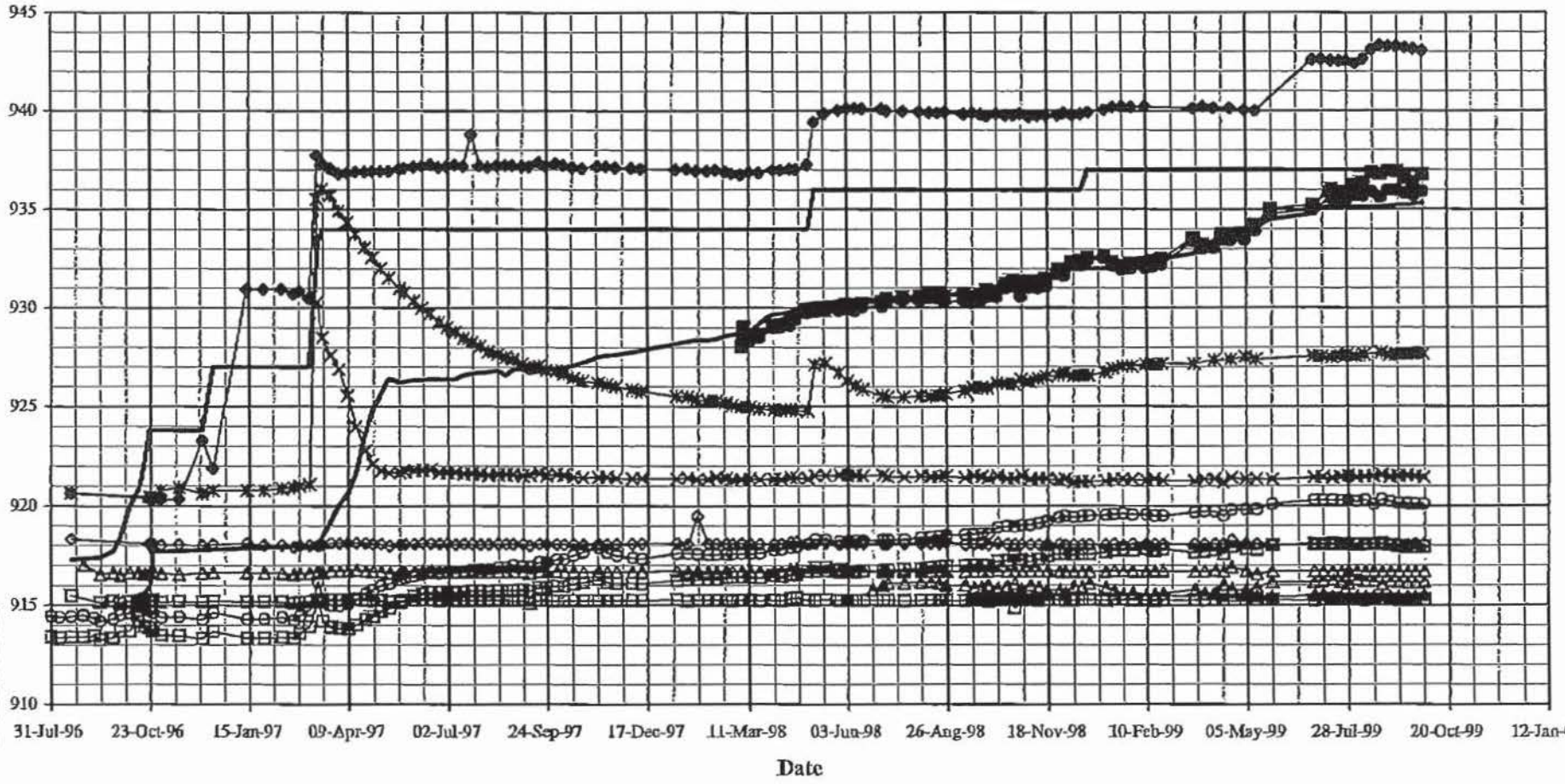


FIGURE 2

INVESTIGATION KCB-2 Page 241 of 500
250 750 2268 PAGE.036

OCT 07 '99 08:37

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS

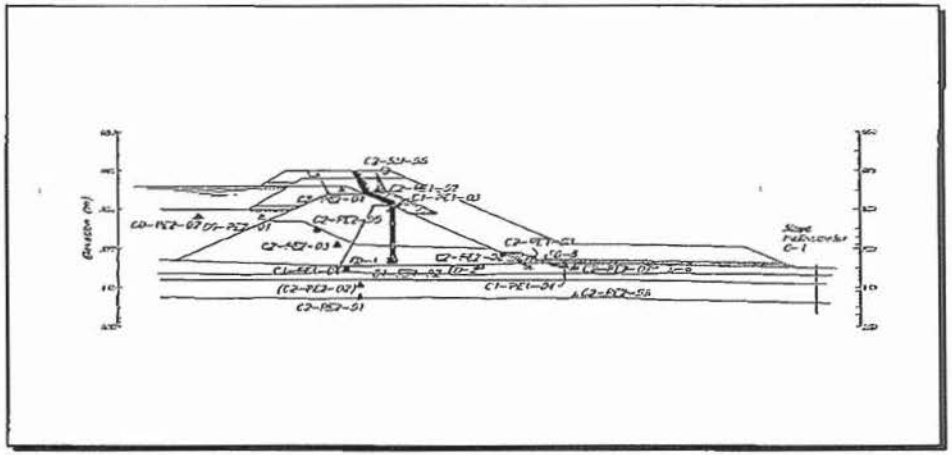


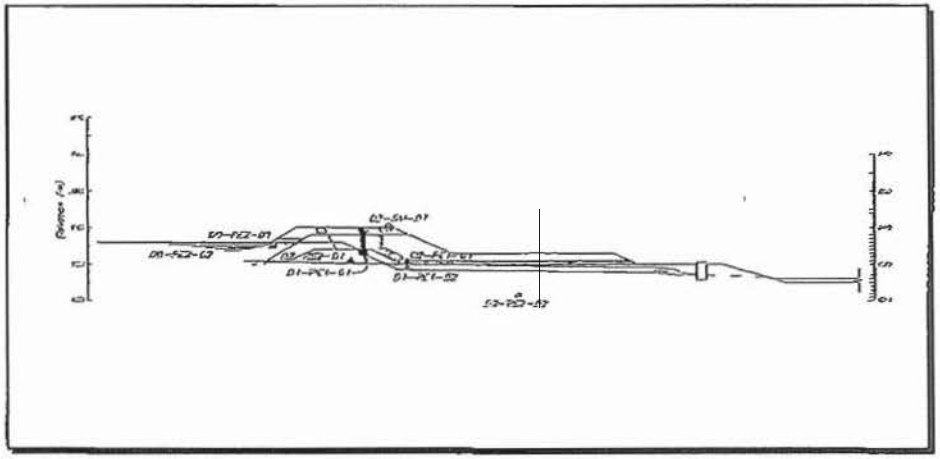
FIGURE 3

INVESTIGATION KGB 2 Page 242 of 500 E.037

OCT 07 '99 08:38
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2500 KSO 2268.038

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS



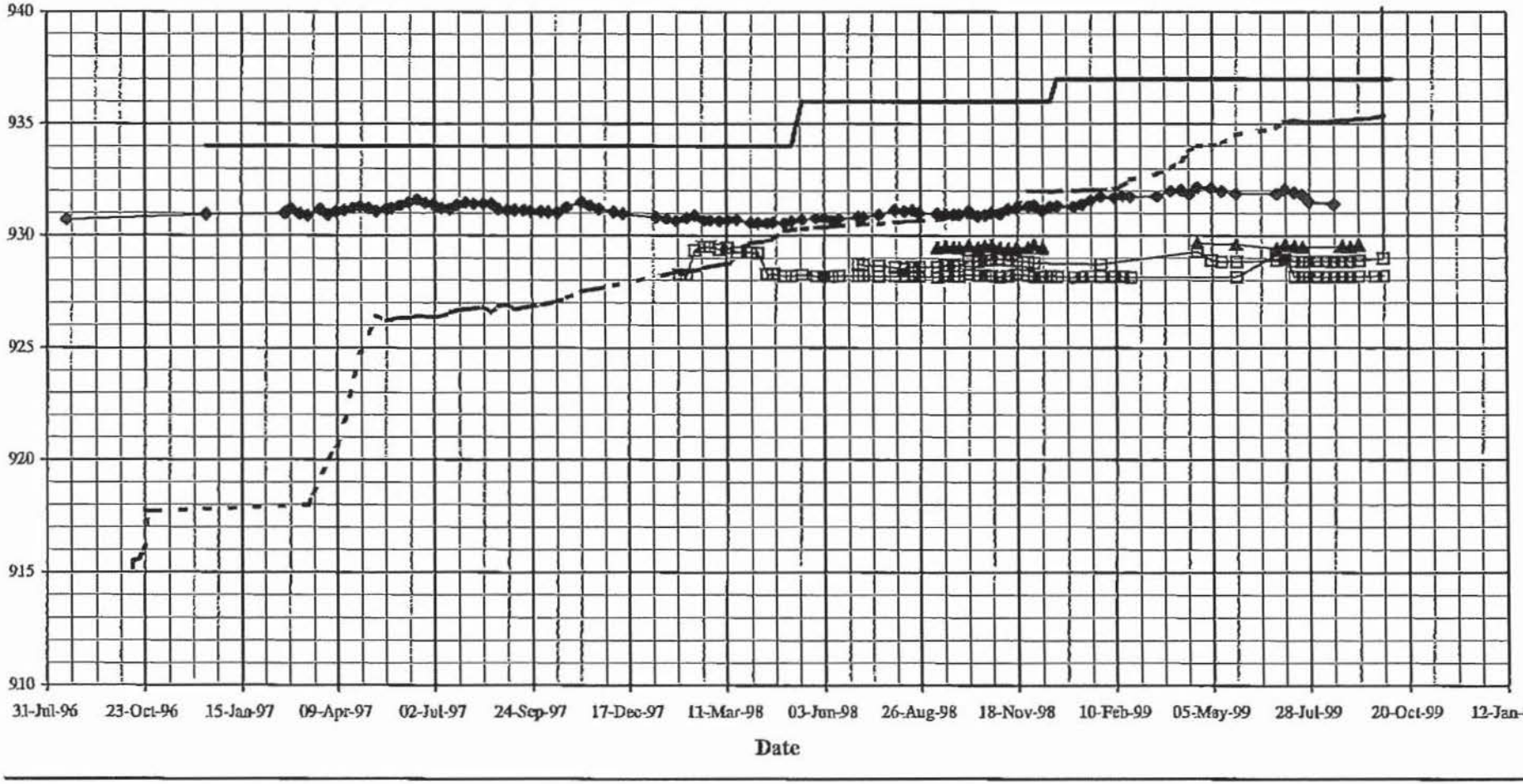


FIGURE 4

OCT 07 '99 08:38

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

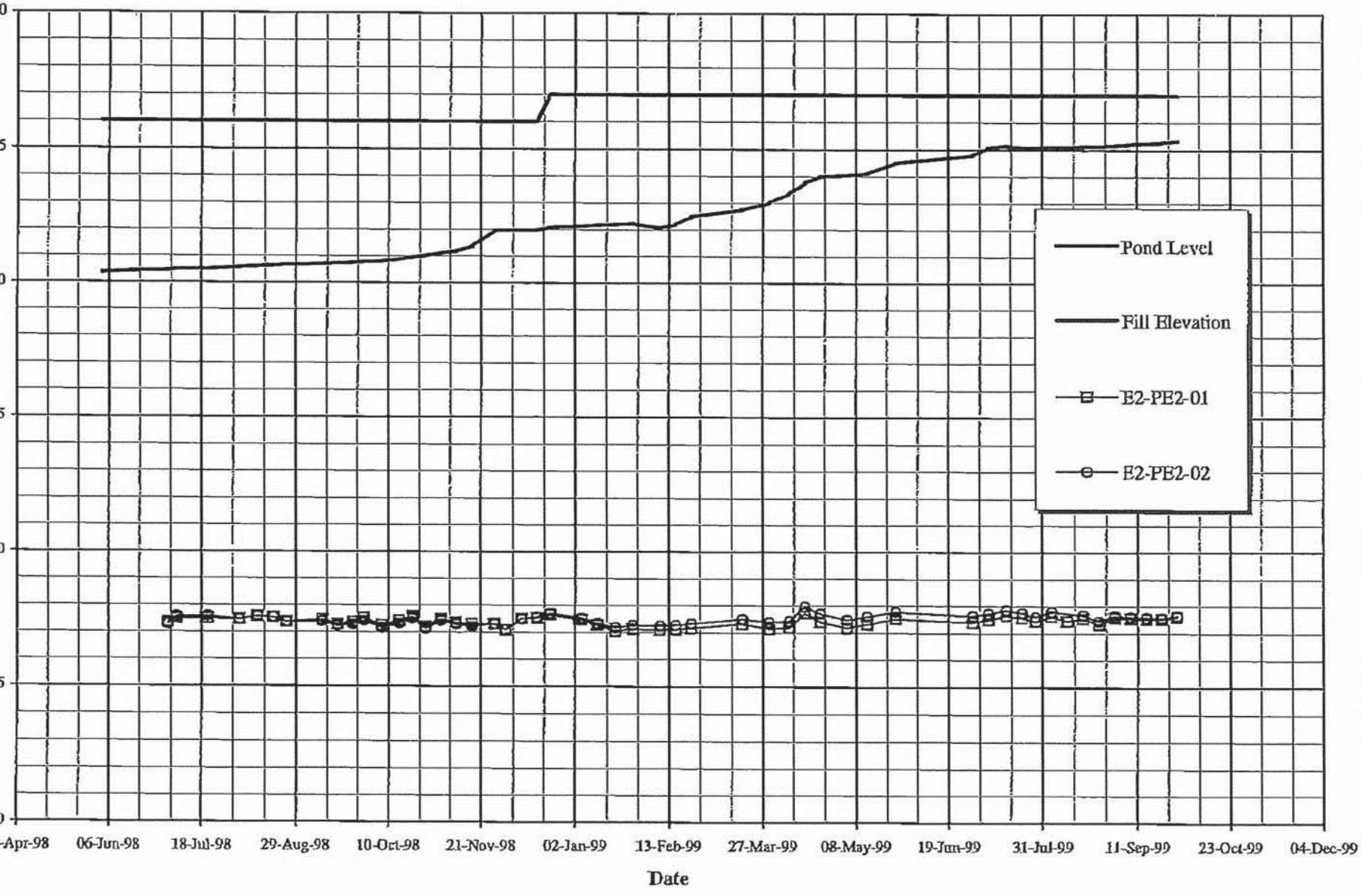


FIGURE 5

OCT. 7.1999 8:31AM MOUNT POLLY MINING NO.647 P.039
INVESTIGATION\98-2\2244 of 500E.039

OCT 07 '99 08:38

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE A FOUNDATION PIEZOMETERS

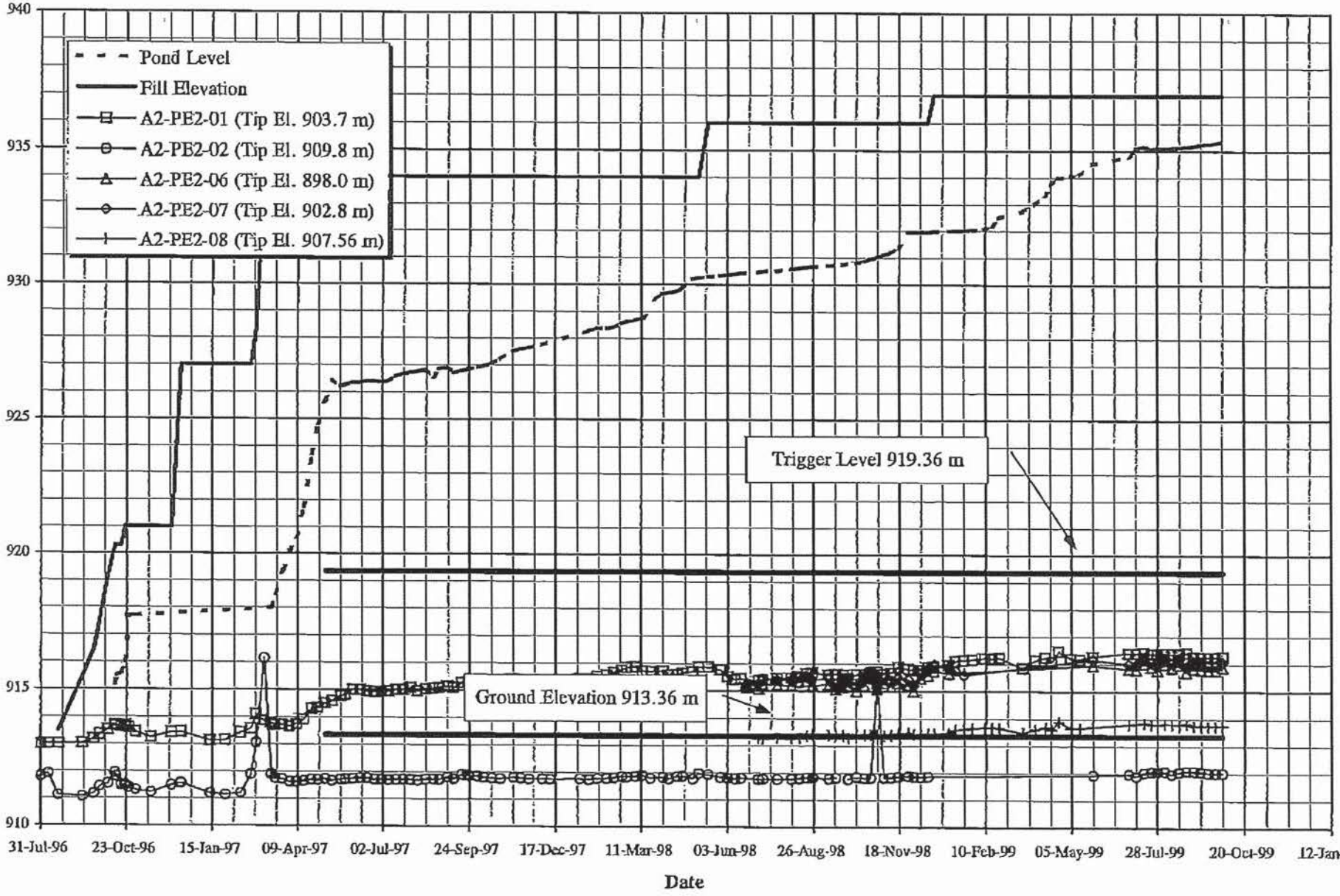


FIGURE 6

INVESTIGATION\KCB-2 Page 245 of 500
250/99 2268 PAGE.040

OCT 07 '99 08:39

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE B FOUNDATION PIEZOMETERS

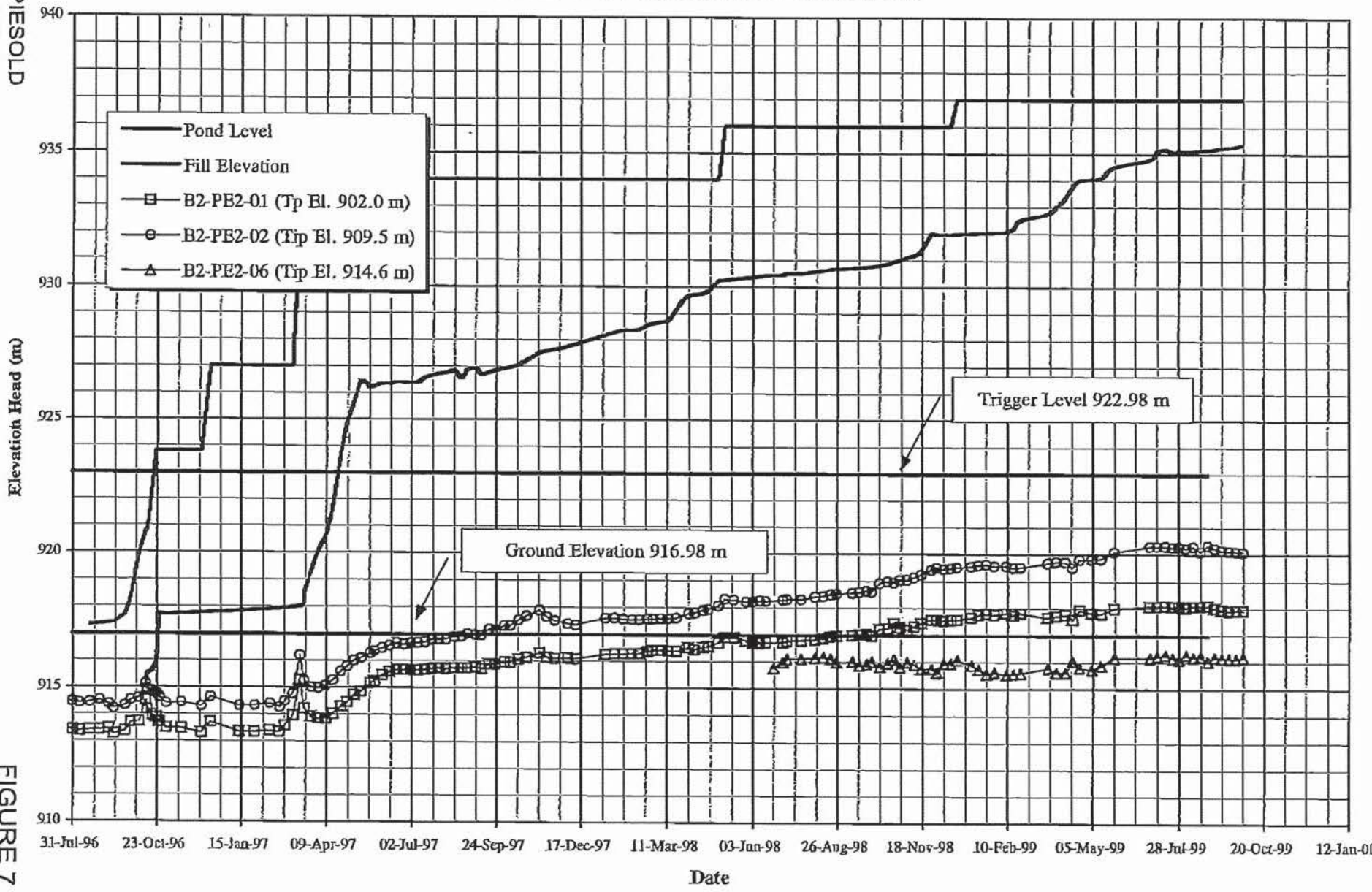


FIGURE 7

INVESTIGATION\KSB-2 Page 246 of 500
250/99-2268.041

OCT 07 '99 08:39

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C FOUNDATION PIEZOMETERS

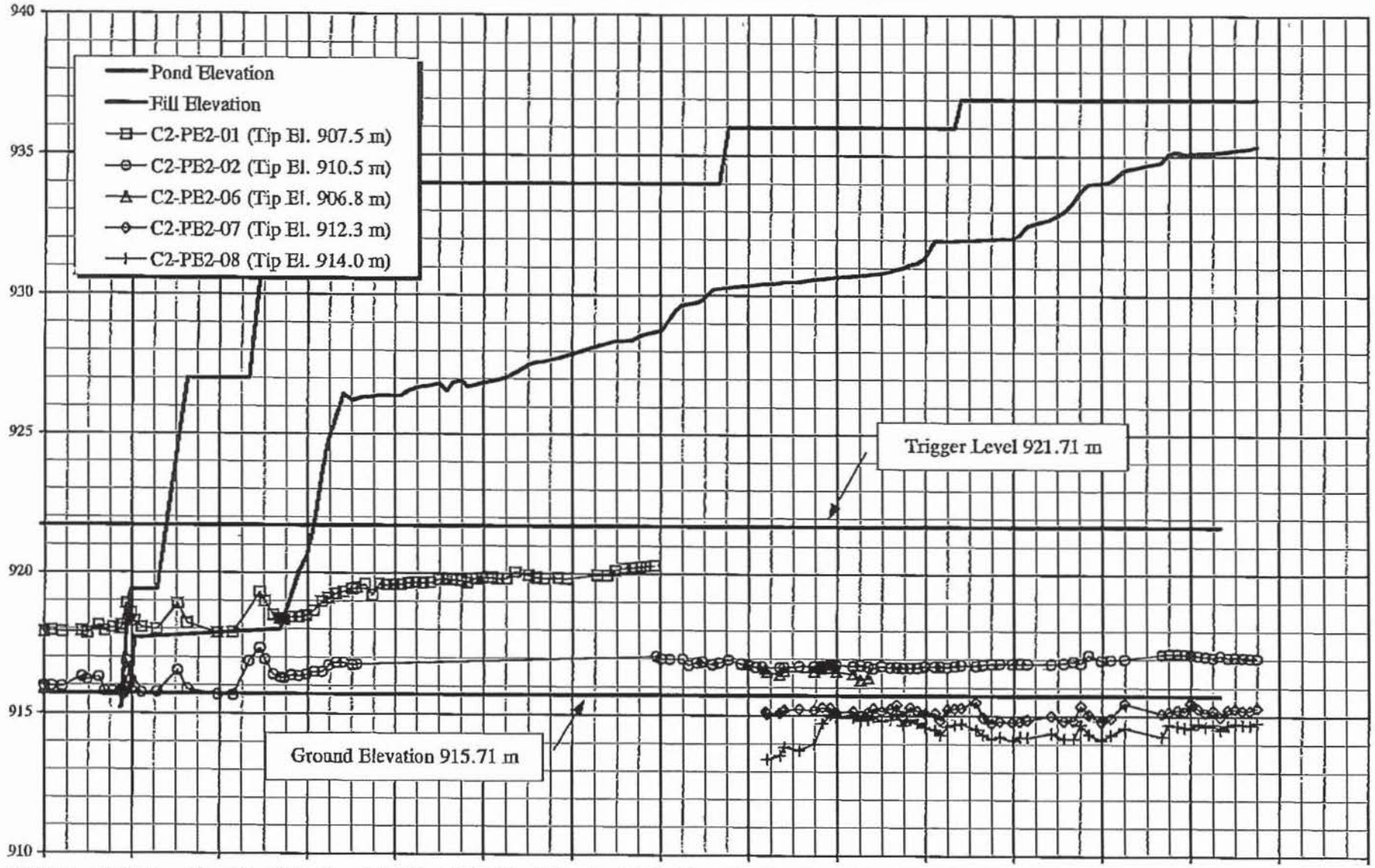


FIGURE 8

INVESTIGATION-KSB-2 Page 247 of 500
250 / 99 22:08 . 042

OCT 07 '99 08:39

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE D FOUNDATION PIEZOMETERS

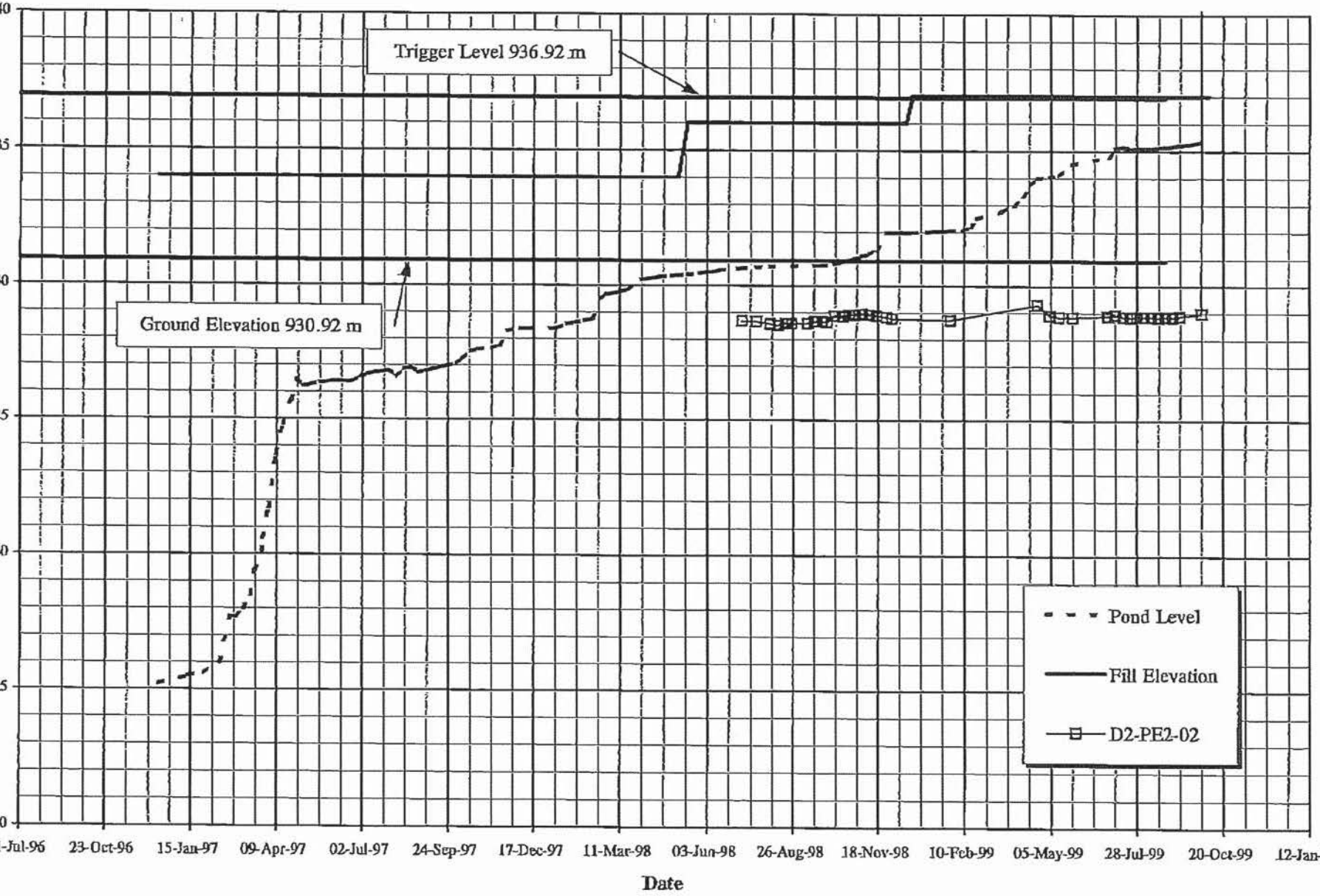


FIGURE 9

INVESTIGATION\SOB-2 Page 248 of 500
2307 2288 PAGE.043

OCT 07 '99 08:40

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE E FOUNDATION PIEZOMETERS

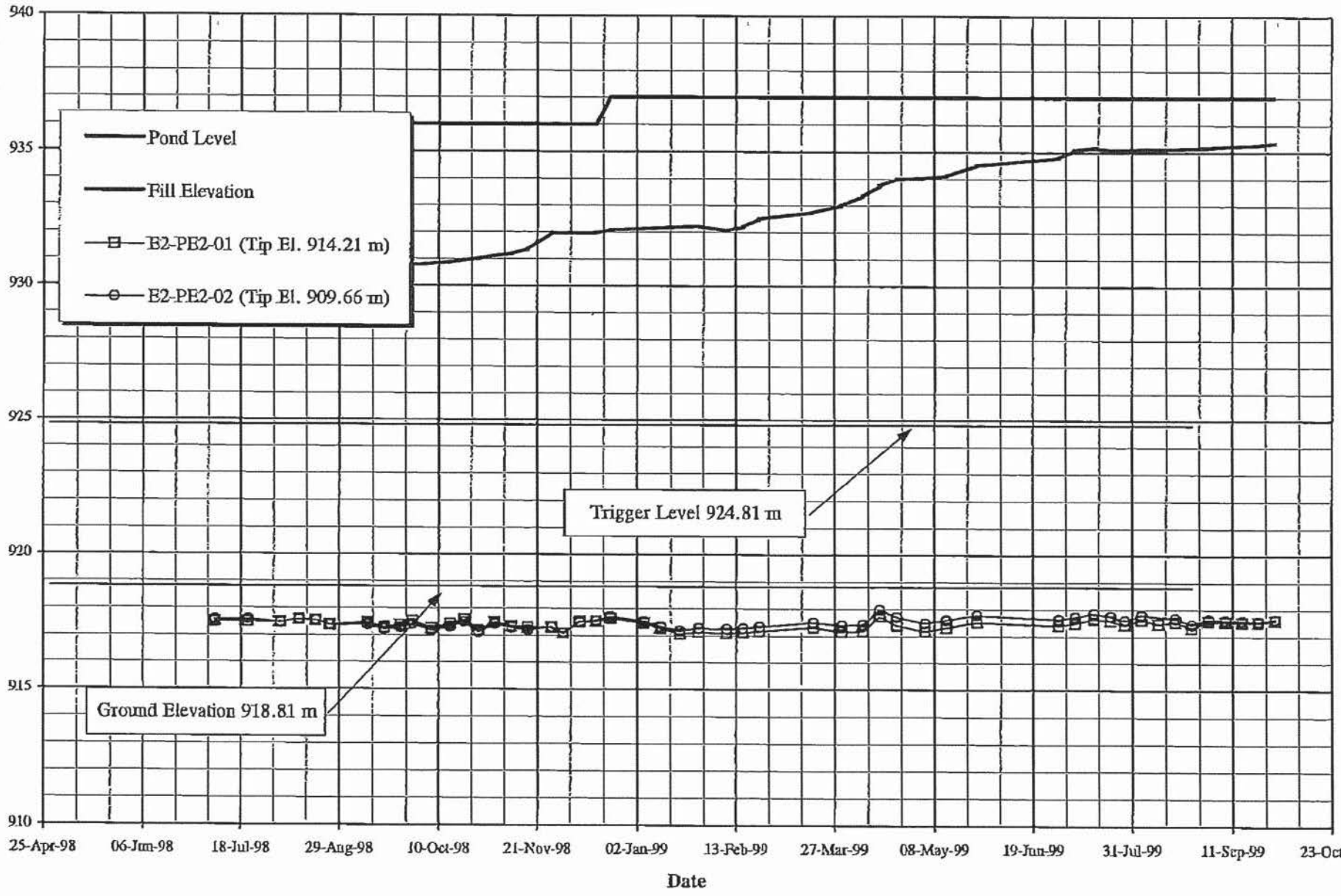
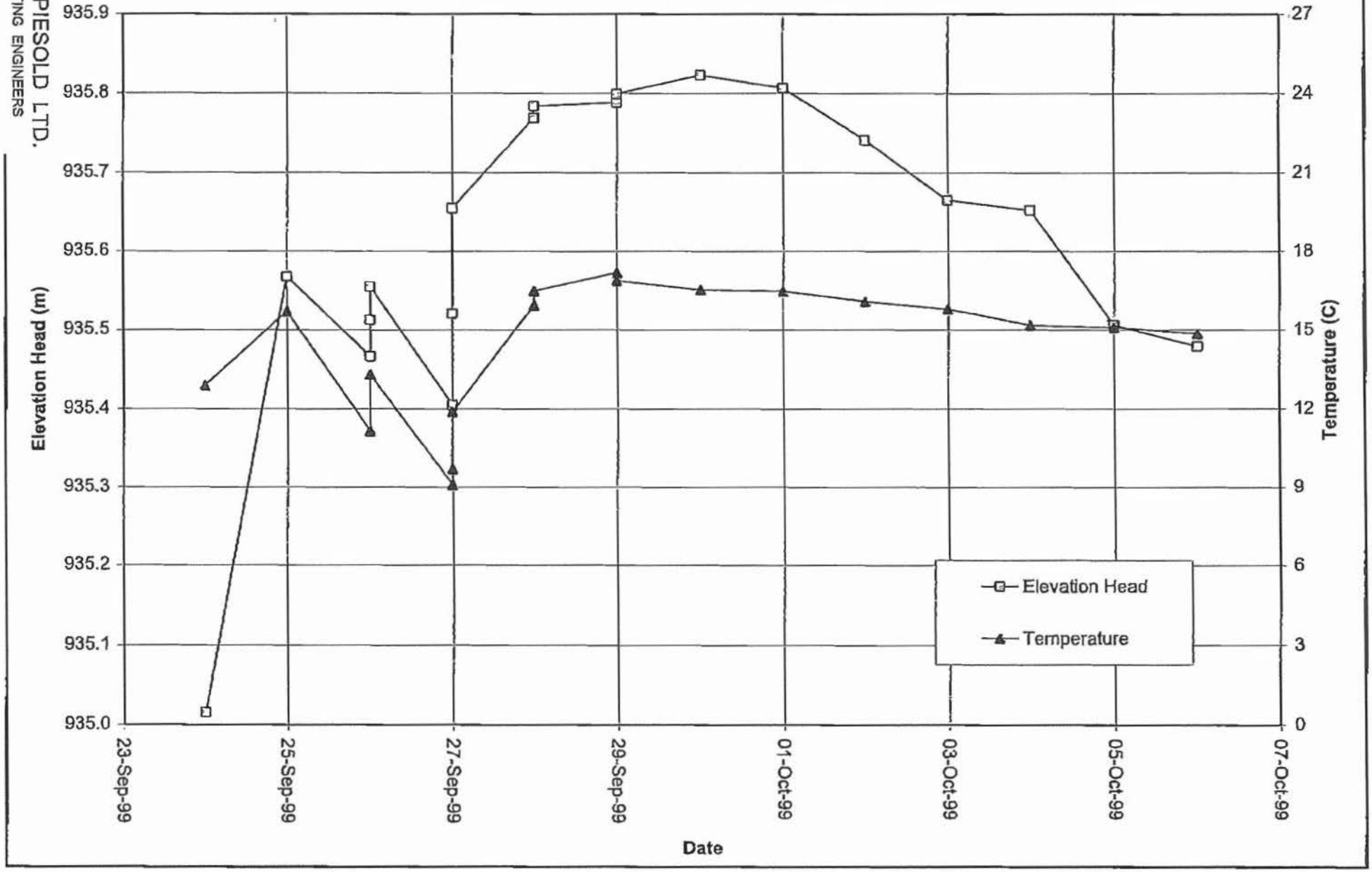


FIGURE 10

INVESTIGATION\KCB-2 Page 249 of 500
250 750 2268 PAGE.044

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

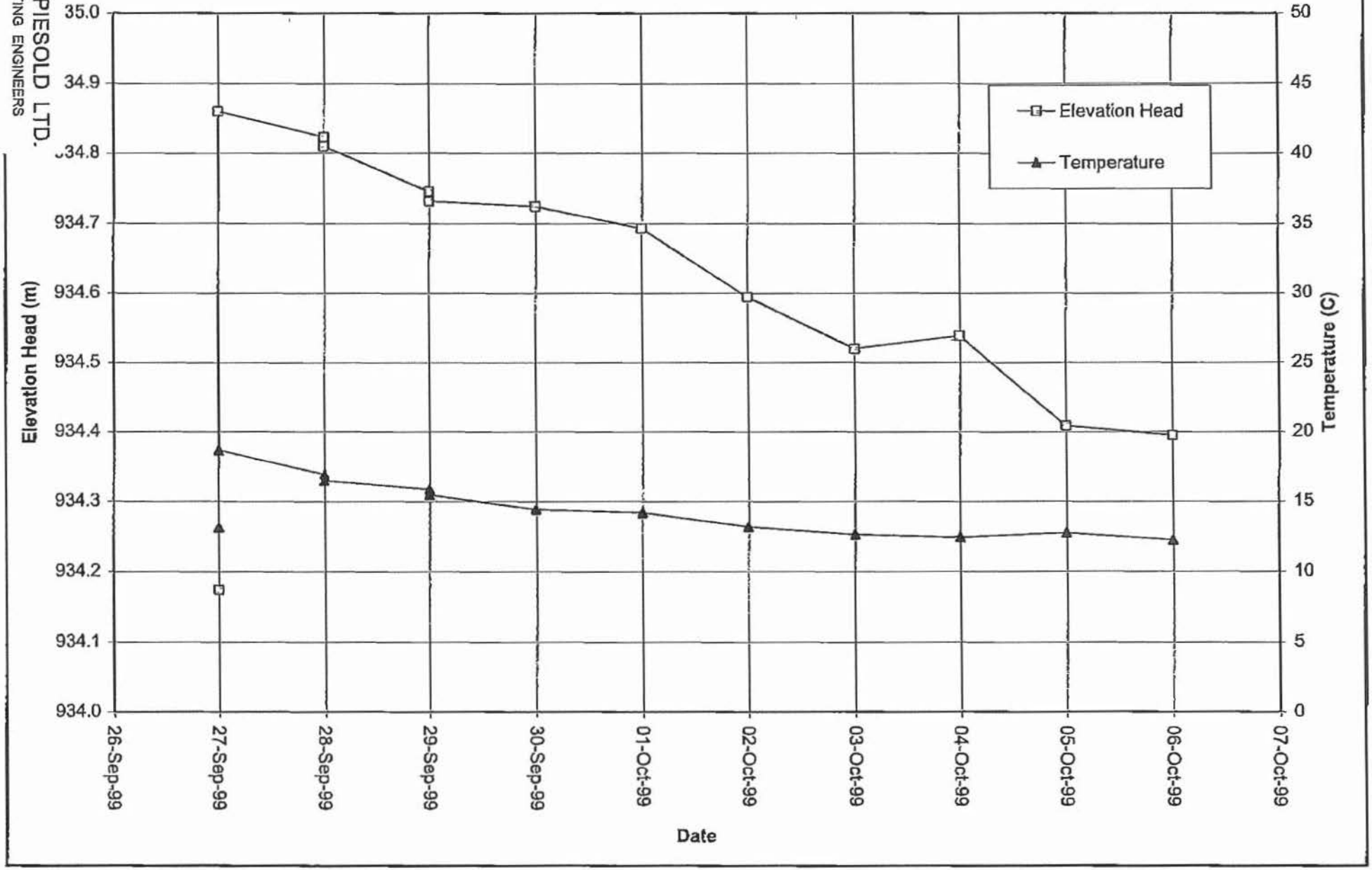
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-02
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 935.02m)



OCT 07 '99 08:40
INVESTIGATION KGB2 Page 250 of 500 PAGE.045

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

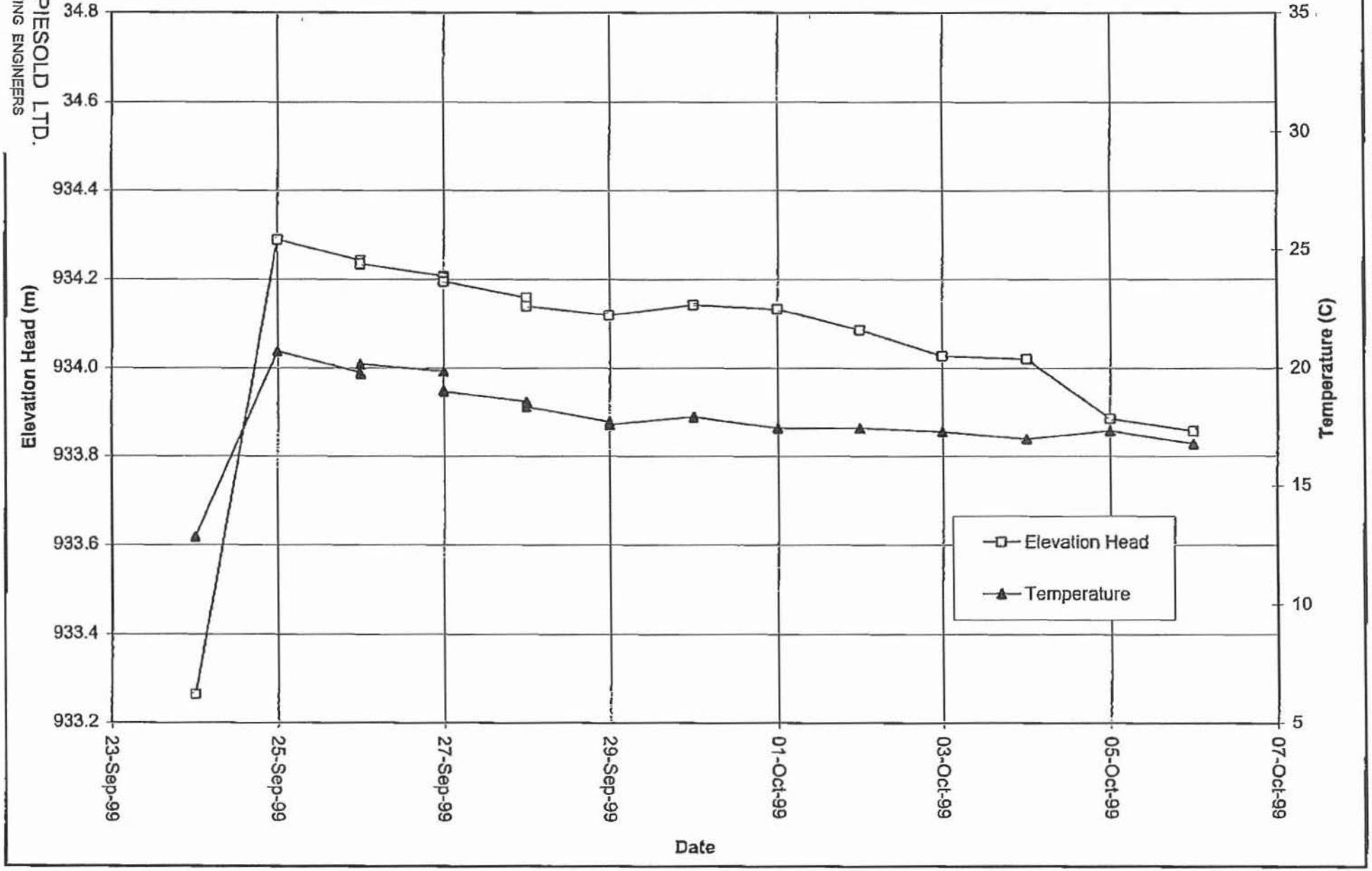
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MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-03
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 934.17m)



OCT 07 '99 08:40
INVESTIGATION KCB2 Page 251 of 500 PAGE.046

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

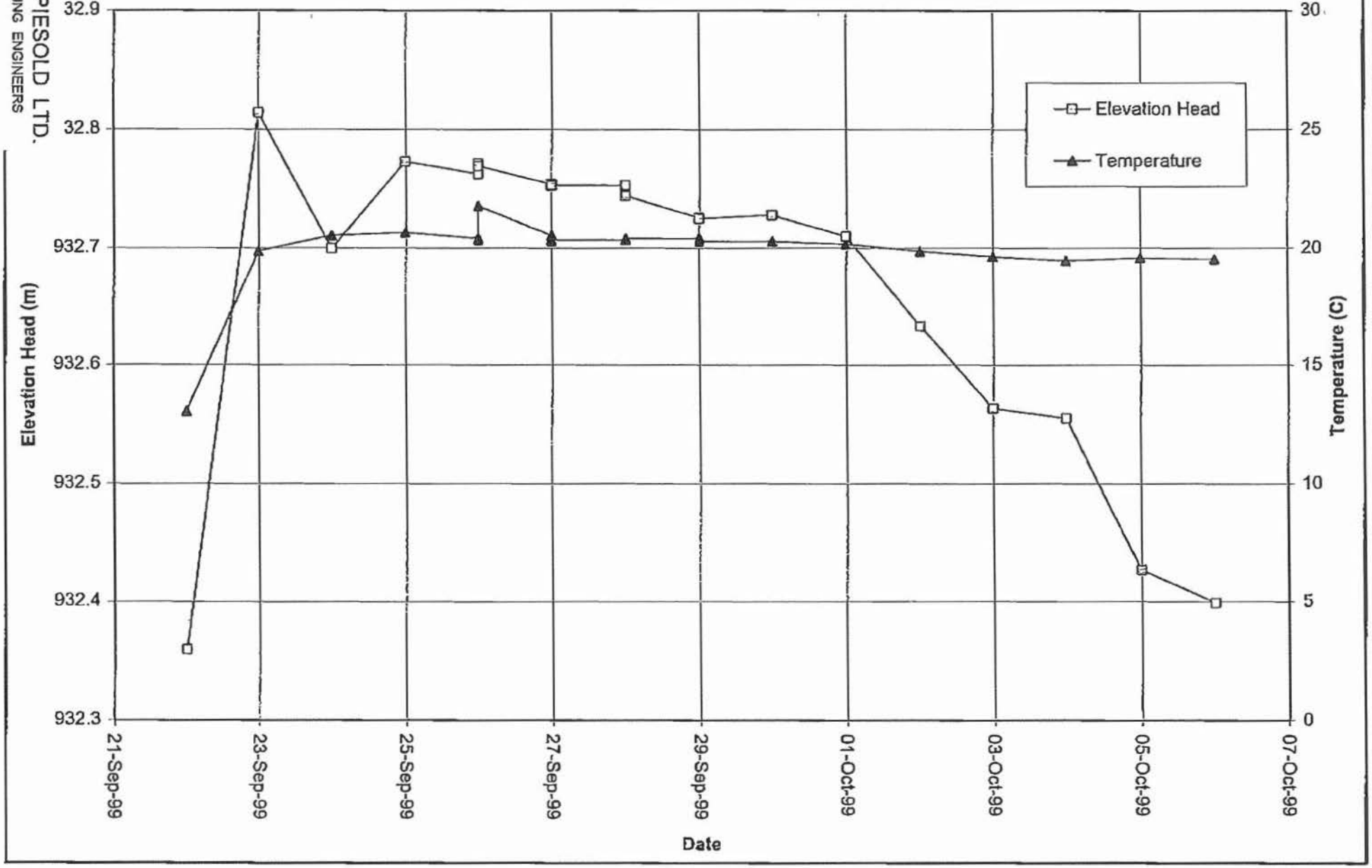
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-04
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 933.27m)



OCT 07 '99 08:40
INVESTIGATION KCB2 Page 252 of 500 E.047

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-05
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.36m)

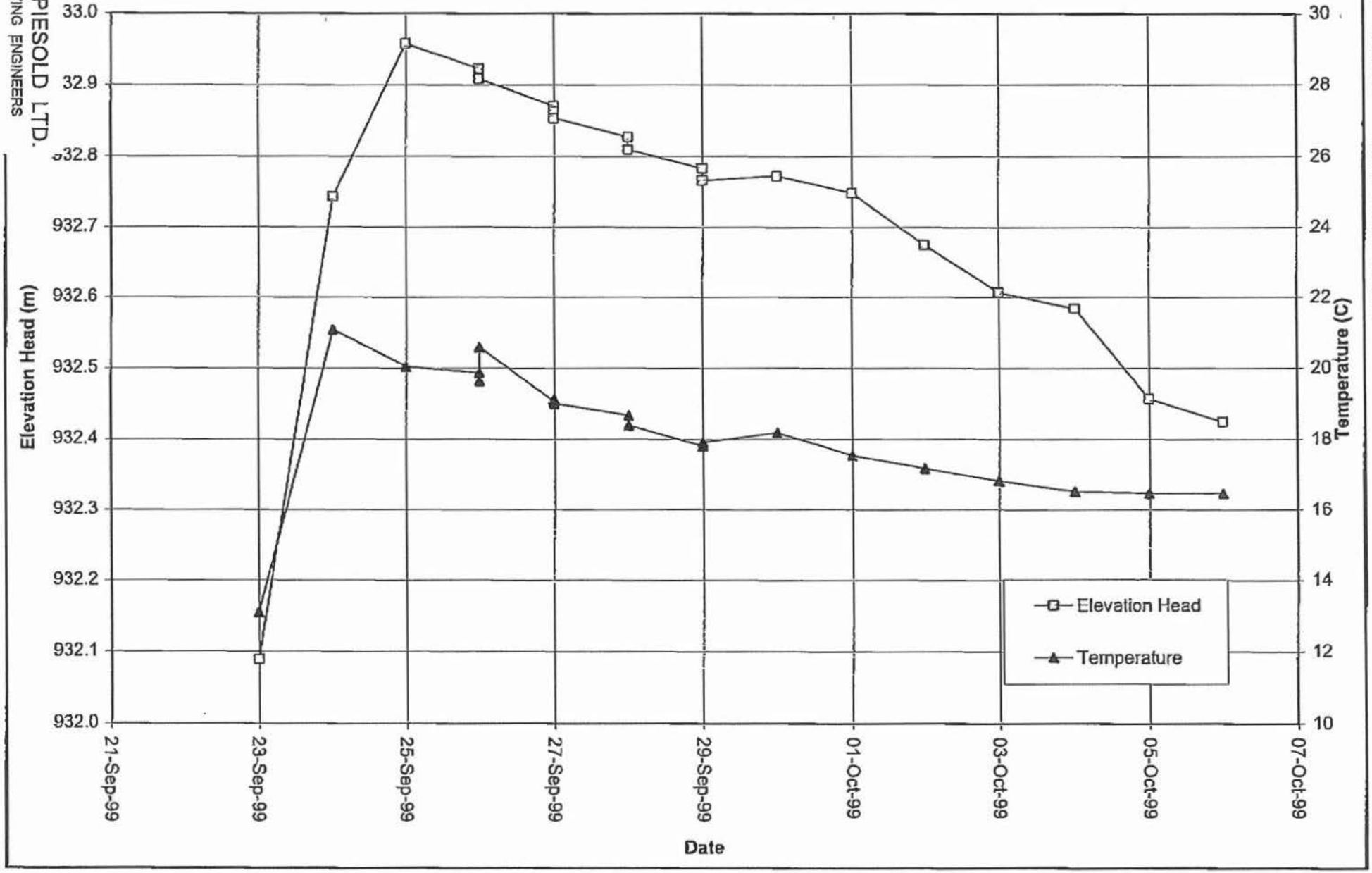


OCT 07 '99 08:40
INVESTIGATION KGB 2 Page 253 of 500 PAGE.048

OCT 07 '99 08:40

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

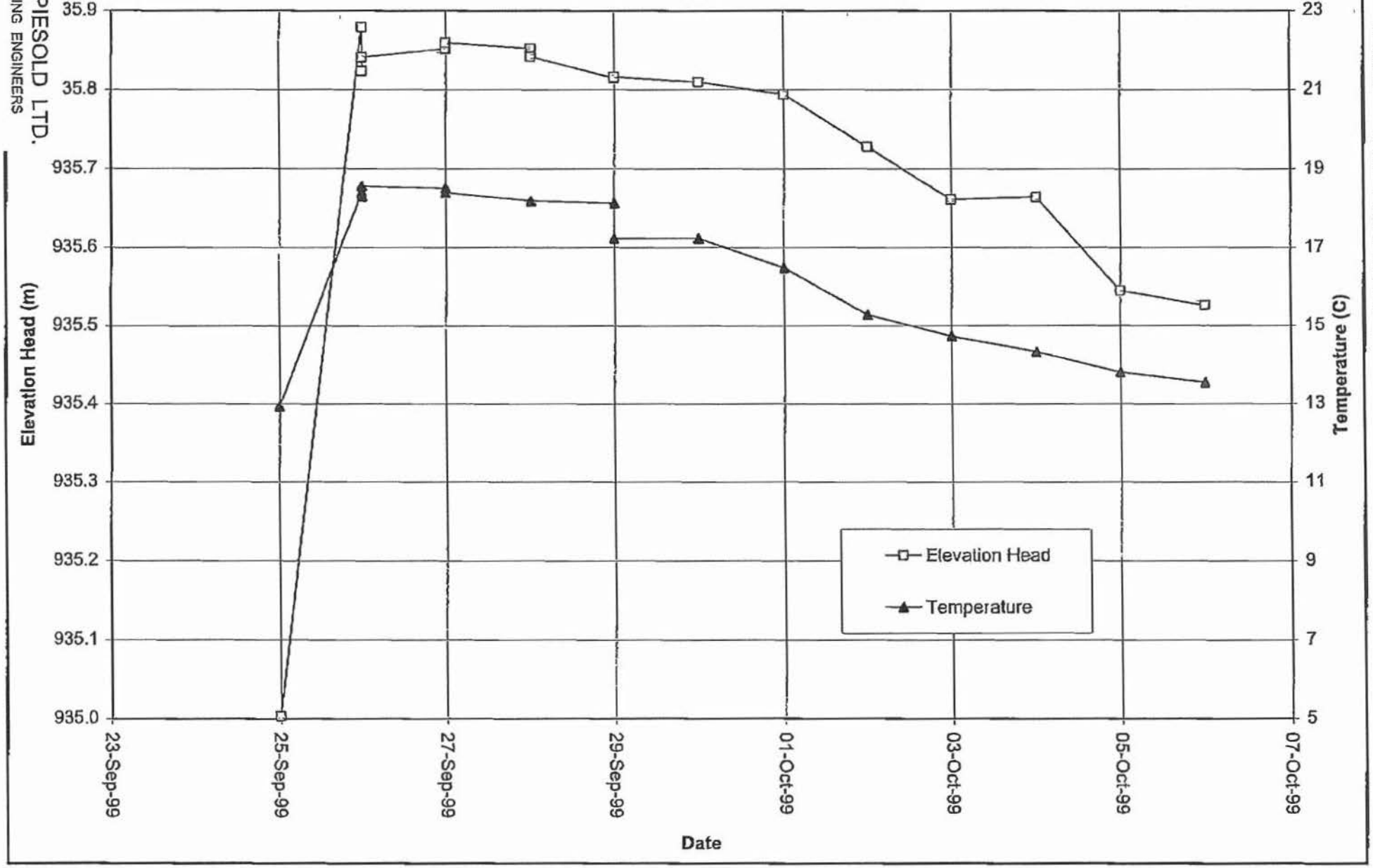
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER D2-PE1-06
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.09m)



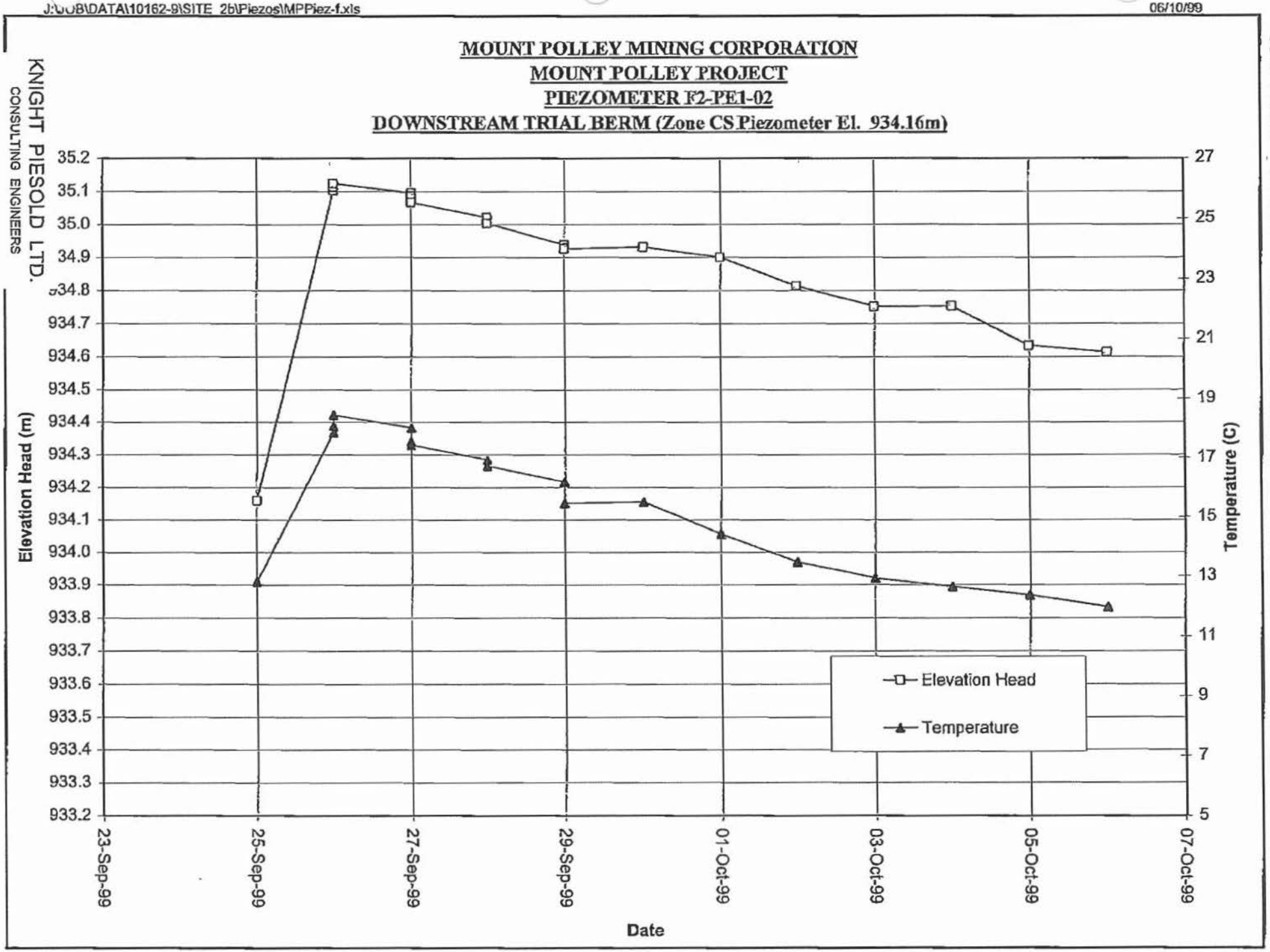
INVESTIGATION KCB2 Page 254 of 500 E.049

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-01
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 935.00m)

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS



OCT 07 '99 08:41
INVESTIGATION KGD2 Page 255 of 500 E.050

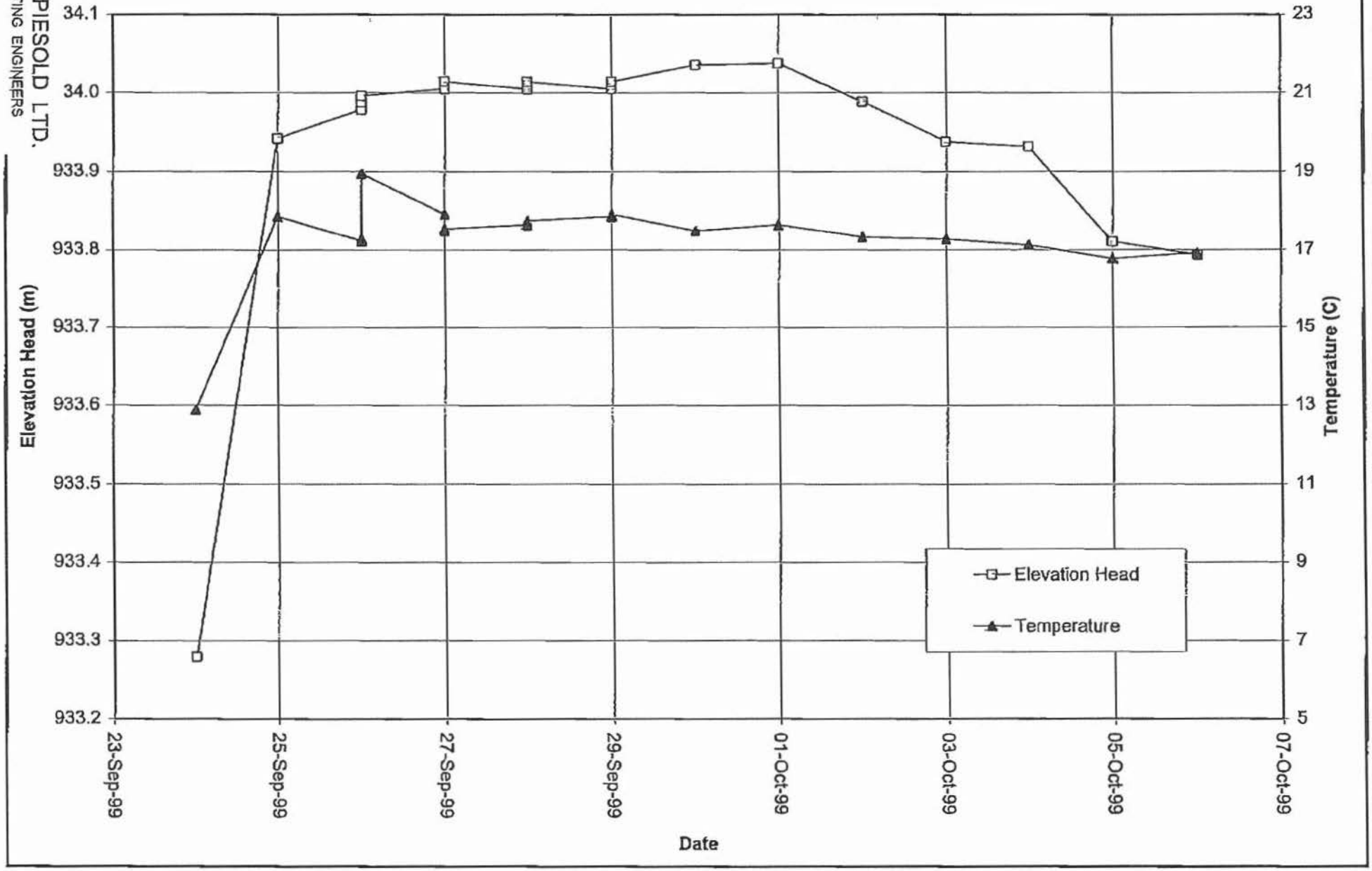


OCT 07 '99 08:41
INVESTIGATION KCB-2 Page 256 of 500 PAGE.051

OCT 07 '99 08:41

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

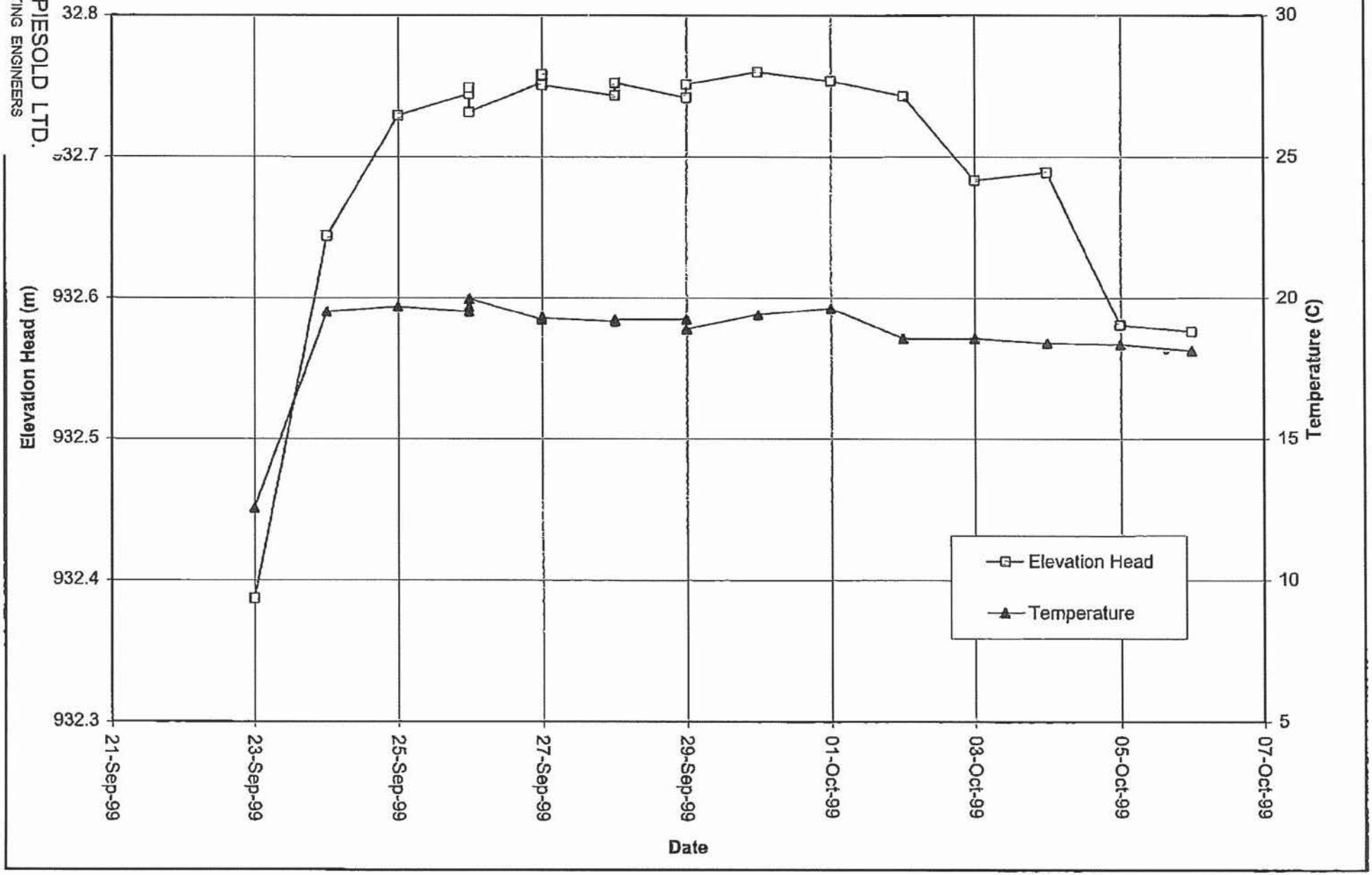
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-03
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 933.28m)



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250 790 2268 PAGE.052

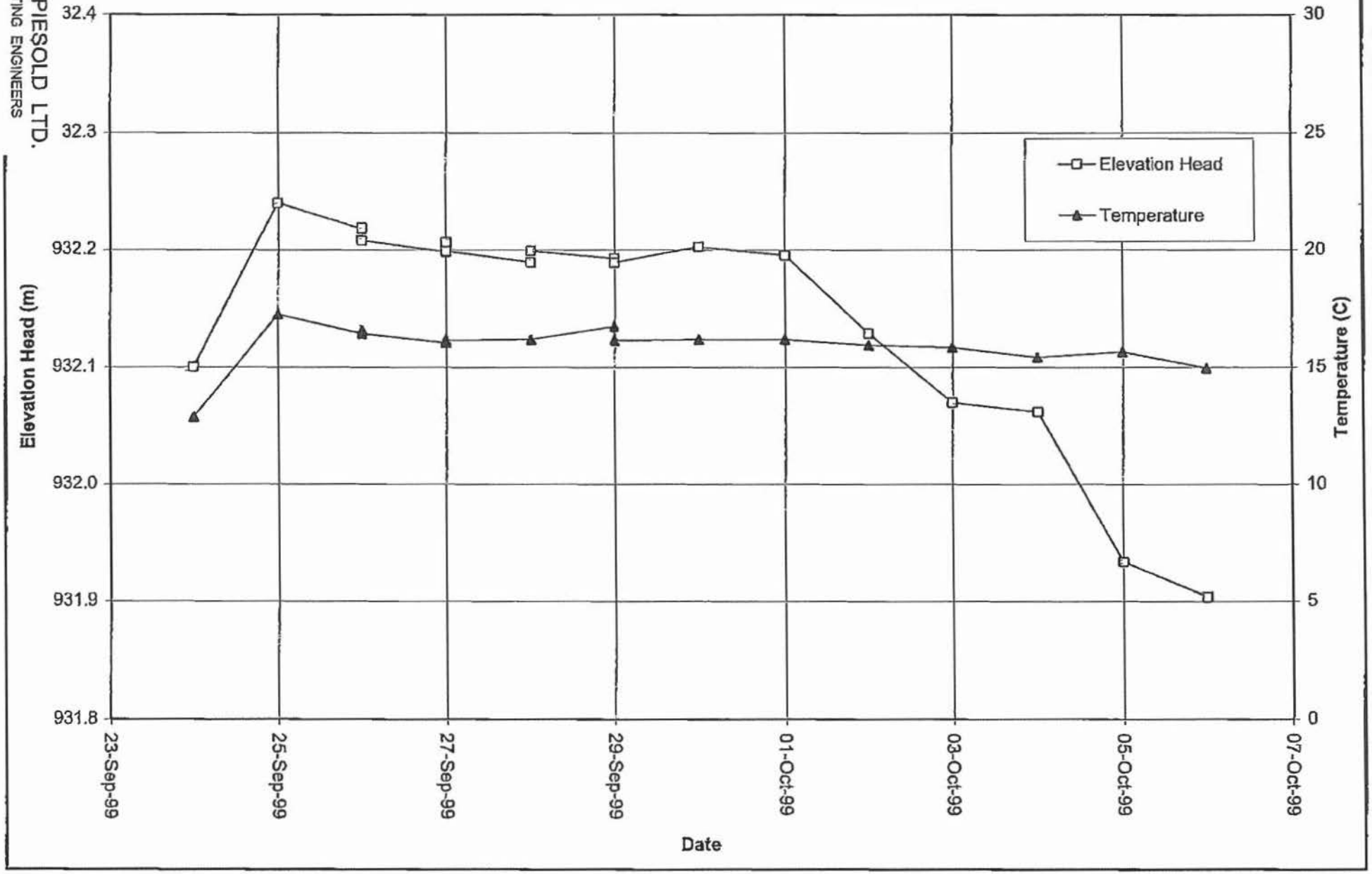
KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-04
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.38m)



OCT 07 '99 09:00
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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
PIEZOMETER F2-PE1-05
DOWNSTREAM TRIAL BERM (Zone CS Piezometer El. 932.10m)



KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

OCT 07 '99 09:00
INVESTIGATION KGB2 Page 259 of 500 PAGE.002

OCT 07 '99 09:01

OCT. 7.1999 8:03PM MOUNT POLLEY MINING 1.002

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

MAIN EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

J:\ENGDATA\Engineering\Geotechnical\Weekly Piezo Readings\[FD-xxxx OD-xxxx.xls]FD-Main

Note: The elevation for the top of the casing for Ground Water Well GW96-9 is approximately 916.78 m. The ground elevation is 916.18 m.

October 6, 1999

SAMPLING DATE	FD-1			FD-2			FD-3			FD-4			FD-5			Total Flow Rate			Pond El (m)	GW96-9 (GW Well) Elev. Above Top of Casing of well 9 (m)
	Flow Rate			Flow Rate			Flow Rate			Flow Rate			Flow Rate							
Date	FD1(Usgpm)	(l/sec)	Comments	FD2(Usgpm)	(l/sec)	Comments	FD3(Usgpm)	(l/sec)	Comments	FD4(Usgpm)	(l/sec)	Comments	FD5(Usgpm)	(l/sec)	Comments	Tot(Usgpm)	(l/sec)	Comments	Pond Elev.	
28-Aug-96	4.62	0.08	Clear	0.49	0.01	Clear	5.37	0.09	Clear	1.77	0.03	Tr. cloudy	-	-	-	12.25	0.20	FD-3, FD-4 incomplete		
01-Sep-96	3.55	0.06	Clear	0.82	0.01	Clear	6.56	0.11	Cloudy	1.25	0.02	V. Cloudy	-	-	-	12.18	0.20	FD-3, FD-4 incomplete		
05-Sep-96	2.60	0.04	Clear	0.62	0.01	Clear	2.71	0.05	Clear	0.93	0.02	Cloudy	-	-	-	6.86	0.11	FD-3, FD-4 incomplete		
10-Sep-96	2.04	0.03	Clear	0.66	0.01	Clear	2.17	0.04	Clear	0.81	0.01	Clear	-	-	-	5.68	0.09	FD-3, FD-4 incomplete		
27-Sep-96	3.10	0.05	Clear	0.70	0.01	Clear	3.10	0.05	Clear	1.00	0.02	Clear	-	-	-	7.90	0.13	FD-3, FD-4 incomplete		
05-Oct-96	4.94	0.08	Clear	0.77	0.01	Clear	4.33	0.07	Tr. cloudy	6.16	0.10	Tr. cloudy	-	-	-	16.20	0.27	FD-3, FD-4 incomplete		
12-Oct-96	3.90	0.07	Clear	1.09	0.02	Clear	3.50	0.06	Clear	1.80	0.03	Clear	-	-	-	10.20	0.17	FD-3, FD-4 incomplete	915.20	
13-Oct-96	4.20	0.07	Clear	0.90	0.02	Clear	13.50	0.23	Clear	1.70	0.03	Clear	-	-	-	20.30	0.34	FD-3 complete, FD-4 incomplete	915.50	
14-Oct-96	3.80	0.06	Clear	1.00	0.02	Clear	15.00	0.25	Clear	5.40	0.09	Clear	-	-	-	25.20	0.42	FD-3 complete, FD-4 incomplete	915.23	
17-Oct-96	5.90	0.10	Clear	0.80	0.01	Clear	16.60	0.28	Clear	5.40	0.09	Clear	-	-	-	28.70	0.48		915.44	
18-Oct-96	9.80	0.16	Clear	1.00	0.02	Clear	26.10	0.44	Clear	9.00	0.15	Clear	-	-	-	45.90	0.77		915.50	
22-Oct-96	6.20	0.10	Clear	0.80	0.01	Clear	20.40	0.34	Clear	3.90	0.10	Clear	-	-	-	33.30	0.56		915.63	
27-Oct-96	6.00	0.10	Clear	1.50	0.03	Clear	24.20	0.40	Clear	6.40	0.11	Clear	-	-	-	38.10	0.64		916.00	
15-Mar-97	3.89	0.06	Clear	1.35	0.02	Clear	8.91	0.15	Clear	3.19	0.05	Clear	-	-	-	17.34	0.29	pig installed, sump pumped out	918.00	
16-Mar-97	3.48	0.06	Clear	1.15	0.02	Clear	8.37	0.14	Clear	2.87	0.05	Clear	-	-	-	15.88	0.26	pig installed, sump pumped out	918.20	
02-Apr-97	2.10	0.04	Clear	1.12	0.02	Clear	8.40	0.14	Clear	3.46	0.06	Clear	-	-	-	15.08	0.25	pig installed, sump pumped out	920.27	
23-Apr-97	4.14	0.07	Clear	0.94	0.02	Clear	11.56	0.19	Clear	2.35	0.04	Clear	-	-	-	18.99	0.32	pig installed, sump pumped out	923.70	
24-Apr-97	3.16	0.05	Clear	0.84	0.01	Clear	12.73	0.21	Clear	2.05	0.03	Clear	-	-	-	18.78	0.31	pig installed, sump pumped out	923.75	
29-Apr-97	2.90	0.05	Clear	0.59	0.01	Clear	10.32	0.17	Clear	1.71	0.03	Clear	-	-	-	15.52	0.26	pig installed, sump pumped out	924.81	
08-May-97	3.60	0.06	Clear	0.76	0.01	Clear	14.15	0.24	Clear	1.92	0.03	Clear	-	-	-	20.43	0.34	pig out, pumped down	925.86	
13-May-97	4.04	0.07	Clear	0.79	0.01	Clear	14.85	0.25	Clear	1.95	0.03	Clear	-	-	-	21.63	0.36	pig out, pumped down	926.43	
20-May-97	4.11	0.07	Clear	0.77	0.01	Clear	17.09	0.28	Clear	1.85	0.03	Clear	-	-	-	23.82	0.40	pig out, pumped down	926.20	
28-May-97	3.99	0.07	Clear	0.80	0.01	Clear	15.71	0.26	Clear	1.87	0.03	Clear	-	-	-	22.37	0.37	pig out, pumped down	926.25	
10-Jun-97	4.15	0.07	Clear	0.82	0.01	Clear	18.35	0.31	Clear	1.89	0.03	Clear	-	-	-	25.21	0.42	pig out, pumped down	926.34	
17-Jun-97	4.10	0.07	Clear	0.78	0.01	Clear	19.93	0.33	Clear	1.85	0.03	Clear	-	-	-	26.66	0.44	pig out, pumped down	926.40	
24-Jun-97	3.97	0.07	Clear	0.84	0.01	Clear	17.24	0.29	Clear	1.83	0.03	Clear	-	-	-	23.88	0.40	pig out, pumped down	926.39	
01-Jul-97	3.93	0.07	Clear	0.69	0.01	Clear	14.72	0.25	Clear	1.73	0.03	Clear	-	-	-	21.07	0.35	pig out, pumped down	926.58	
08-Jul-97	4.05	0.07	Clear	0.72	0.01	Clear	18.07	0.30	Clear	1.88	0.03	Clear	-	-	-	24.72	0.41	pig out, pumped down	926.39	
15-Jul-97	4.11	0.07	Clear	0.88	0.01	Clear	15.38	0.26	Clear	2.24	0.04	Clear	-	-	-	22.61	0.38	pig out, pumped down	926.57	
22-Jul-97	4.06	0.07	Clear	0.91	0.02	Clear	15.80	0.26	Clear	2.05	0.03	Clear	-	-	-	22.85	0.38	pig out, pumped down	926.66	
29-Jul-97	4.40	0.07	Clear	0.85	0.01	Clear	20.48	0.34	Clear	2.11	0.04	Clear	-	-	-	27.84	0.46	pig out, pumped down	926.73	
05-Aug-97	4.13	0.07	Clear	0.79	0.01	Clear	18.35	0.31	Clear	1.97	0.03	Clear	-	-	-	25.24	0.42	pig out, pumped down	926.75	
13-Aug-97	4.12	0.07	Clear	0.78	0.01	Clear	24.19	0.40	Clear	2.02	0.03	Clear	-	-	-	31.11	0.52	pig out, pumped down	926.82	
20-Aug-97	4.13	0.07	Clear	0.76	0.01	Clear	15.95	0.27	Clear	1.80	0.03	Clear	-	-	-	22.64	0.38	pig out, pumped down	926.75	
26-Aug-97	4.62	0.08	Clear	0.76	0.01	Clear	18.25	0.31	Clear	1.92	0.03	Clear		-	-	26.05	0.43	pig out, pumped down	926.86	
03-Sep-97	4.48	0.07	Clear	0.76	0.01	Clear	16.95	0.28	Clear	1.76	0.03	Clear	-	-	-	23.95	0.40	pig out, pumped down	926.93	
09-Sep-97	4.57	0.08	Clear	0.75	0.01	Clear	16.04	0.27	Clear	1.81	0.03	Clear	-	-	-	23.17	0.39	pig out, pumped down	926.71	
17-Sep-97	4.62	0.08	Clear	0.77	0.01	Clear	16.71	0.28	Clear	1.78	0.03	Clear	-	-	-	23.88	0.40	pig out, pumped down	926.88	
23-Sep-97	4.64	0.08	Clear	0.78	0.01	Clear	17.75	0.30	Clear	1.83	0.03	Clear	-	-	-	25.00	0.42	pig out, pumped down	926.85	
02-Oct-97	4.78	0.08	Clear	0.82	0.01	Clear	16.76	0.28	Clear	1.86	0.03	Clear	-	-	-	24.22	0.40	pig out, pumped down	926.92	0.055
08-Oct-97	4.69	0.08	Clear	0.81	0.01	Clear	16.01	0.27	Clear	1.95	0.03	Clear	-	-	-	23.46	0.39	pig out, pumped down	926.97	0.065
16-Oct-97	5.14	0.09	Clear	1.11	0.02	Clear	17.86	0.30	Clear	2.31	0.04	Clear	-	-	-	26.42	0.44	pig out, pumped down	927.06	0.095
24-Oct-97	5.13	0.09	Clear	0.92	0.02	Clear	16.23	0.27	Clear	1.98	0.03	Clear	-	-	-	24.26	0.40	pig out, pumped down	927.23	0.095
06-Nov-97	5.51	0.09	Clear	1.20	0.02	Clear	17.70	0.30	Clear	2.39	0.04	Clear	-	-	-	26.80	0.45	pig out, pumped down	927.51	Frozen
13-Nov-97	4.90	0.08	Clear	0.65	0.01	Clear	18.58	0.31	Clear	1.87	0.03	Clear	-	-	-	26.00	0.43	pig out, pumped down	927.60	Frozen

INVESTIGATION KGB2 Page 260 of 500 2508.003

OCT 07 '99 09:01

OCT. 7.1999 8:34PM INVEST FULL TIME 250 7502 2268 PAGE.004

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

MAIN EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

B:\DWG\DATA\Engineering\Geotechnical\Weekly Piezo Readings\[FD-meas 00-mon.xls]FD-Mon

Note: The elevation for the top of the casing for Ground Water Well GW96-9 is approximately 918.78 m. The ground elevation is 915.18 m.

October 6, 1999

SAMPLING DATE	FD-1			FD-2			FD-3			FD-4			FD-5			Total Flow Rate			Pond El (m)	GW96-9 (GW Well)
	Flow Rate:			Flow Rate			Flow Rate			Flow Rate			Flow Rate							Elev. Above Top of Casing of well 9 (m)
Date	FD1(l/min)	(l/sec)	Comments	FD2(l/min)	(l/sec)	Comments	FD3(l/min)	(l/sec)	Comments	FD4(l/min)	(l/sec)	Comments	FD5(l/min)	(l/sec)	Comments	Tot(l/min)	(l/sec)	Comments	Pond Elev.	
24-Nov-98	4.62	0.08	Clear	0.90	0.01	Clear	19.38	0.00	Clear	1.79	0.03	Cloudy	-	-	-	28.85	0.39	FD-3 and FD-4 piped to plate	927.63	Frozen
28-Nov-97	4.14	0.07	Clear	0.77	0.01	Clear	18.18	0.30	Clear	1.85	0.03	Clear	-	-	-	24.94	0.42	pig out, pumped down	927.65	Frozen
04-Dec-97	4.03	0.07	Clear	0.85	0.01	Clear	17.67	0.29	Clear	1.78	0.03	Clear	-	-	-	24.33	0.41	pig out, pumped down	927.75	Frozen
02-Jan-98	3.81	0.06	Clear	0.74	0.01	Clear	16.50	0.27	Clear	1.73	0.03	Clear	-	-	-	22.58	0.38	pig out, pumped down	928.10	Frozen
14-Jan-98	3.85	0.06	Clear	0.80	0.01	Clear	16.57	0.28	Clear	1.77	0.03	Clear	-	-	-	22.99	0.38	pig out, needs pumping	928.25	Frozen
21-Jan-98	3.57	0.06	Clear	0.74	0.01	Clear	16.42	0.27	Clear	1.82	0.03	Clear	-	-	-	22.55	0.38	pig out, needs pumping	928.30	Frozen
08-Apr-98	3.84	0.06	Clear	0.67	0.01	Clear	15.54	0.26	Clear	1.52	0.03	Clear	-	-	-	21.57	0.36	pig out, pond pumped down	929.70	-
17-Apr-98	3.82	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	1.37	0.02	Clear	6.33	0.11	Clear	27.79	0.46	pig out, pond pumped down	929.85	-
25-May-98	3.82	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	1.37	0.02	Clear	6.33	0.11	Clear	27.79	0.46	pig out, pond pumped down	930.10	
02-Jun-98	3.52	0.06	Clear	0.78	0.01	Clear	15.58	0.26	Clear	1.42	0.02	Clear	6.80	0.11	Clear	28.10	0.47	pig out, pond pumped down	930.36	-
10-Jun-98	3.83	0.06	Clear	0.79	0.01	Clear	14.60	0.24	Clear	1.44	0.02	Clear	7.51	0.13	Clear	28.17	0.47	pig out, pond pumped down	930.39	-
16-Jun-98	3.77	0.06	Clear	0.78	0.01	Clear	16.35	0.27	Clear	1.41	0.02	Clear	7.93	0.13	Clear	30.24	0.50	pig out, pond pumped down	930.42	-
03-Jul-98	3.89	0.06	Clear	0.76	0.01	Clear	16.14	0.27	Clear	2.37	0.04	Clear	12.53	0.21	Clear	35.69	0.59	FD-5 is spilling onto FD-4 providing higher values than normal	930.65	
07-Jul-98	3.71	0.06	Clear	0.72	0.01	Clear	16.03	0.27	Clear	2.22	0.04	Clear	9.66	0.16	Clear	32.34	0.54	negative value is below top of casing	930.50	-0.135
24-Jul-98	3.53	0.06	Clear	0.72	0.01	Clear	15.75	0.26	Clear	1.96	0.03	Clear	8.70	0.15	Clear	30.66	0.51	-	930.58	0.28
12-Aug-98	3.46	0.06	Clear	0.62	0.01	Clear	15.96	0.27	Clear	1.90	0.03	Clear	7.30	0.12	Clear	29.24	0.49	-	930.61	0.33
19-Aug-98	3.17	0.05	Clear	0.56	0.01	Clear	15.83	0.26	Clear	2.26	0.04	Clear	8.08	0.13	Clear	29.90	0.50	-	930.64	-
10-Sep-98	3.60	0.06	Clear	0.57	0.01	Clear	16.35	0.27	Clear	2.03	0.03	Clear	8.02	0.13	Clear	30.57	0.51	-	930.70	-
17-Sep-98	3.53	0.06	Clear	0.63	0.01	Clear	16.42	0.27	Clear	2.20	0.04	Clear	8.52	0.14	Clear	31.30	0.52	-	930.73	-
24-Sep-98	3.62	0.06	Clear	0.64	0.01	Clear	15.64	0.26	Clear	2.06	0.03	Clear	7.77	0.13	Clear	29.73	0.50	-	930.77	-
07-Oct-98	3.72	0.06	Clear	1.06	0.02	Clear	14.22	0.24	Clear	2.36	0.04	Clear	13.39	0.22	Clear	34.74	0.58	positive value is above top of casing	930.81	0.18
15-Oct-98	3.82	0.06	Clear	1.10	0.02	Clear	14.53	0.24	Clear	2.56	0.04	Clear	15.83	0.26	Clear	37.84	0.63	-	930.87	
21-Oct-98	3.94	0.07	Clear	1.12	0.02	Clear	15.35	0.26	Clear	2.95	0.05	Clear	18.46	0.31	Clear	41.82	0.70	-	930.95	
17-Nov-98	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Sump flooded, needs to be pumped		0.11
27-Nov-98	4.21	0.07	Clear	1.01	0.02	Clear	14.28	0.24	Clear	2.35	0.04	Clear	11.76	0.20	Clear	33.62	0.56		931.35	-0.03
02-Dec-98	4.35	0.07	Clear	0.92	0.02	Clear	14.16	0.24	Clear	2.37	0.04	Clear	11.46	0.19	Clear	33.26	0.55		931.97	-0.03
09-Dec-98	4.34	0.07	Clear	0.79	0.01	Clear	16.56	0.28	Clear	2.01	0.03	Clear	9.78	0.16	Clear	33.49	0.56		931.97	Frozen
16-Dec-98	4.33	0.07	Clear	0.97	0.02	Clear	13.92	0.23	Clear	2.83	0.05	Clear	19.32	0.32	Clear	41.37	0.69		931.97	Frozen
22-Dec-98	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded, needs to be pumped down	931.99	Frozen
05-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.00	Frozen
12-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.02	Frozen
20-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.03	Frozen
28-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.05	Frozen
09-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.06	Frozen
16-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.07	Frozen
23-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.08	Frozen
18-Mar-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	933.08	Frozen
30-Mar-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	934.08	Frozen
08-Apr-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	935.08	Frozen
29-Sep-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		26.40	0.44	Clear	#N/A	#N/A	FD-5 above sump water surface	935.34	

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

PERIMETER EMBANKMENT SEEPAGE COLLECTION POND - SUMMARY OF DRAIN FLOW DATA

H:\ENG\DATA\Engdocs\Geotechnical\Weekly Piezo Readings\[FD-mm OD-mon.xls]OD-Mon

October 6, 1999

SAMPLING DATE	OD-4			OD-5			OD-6			Total Flow Rate		
	Flow Rate			Flow Rate			Flow Rate					
Date	OD4(l/min)	(l/sec)	Comments	OD5(l/min)	(l/sec)	Comments	OD6(l/min)	(l/sec)	Comments	Tot(l/min)	(l/sec)	Comments
17-Sep-99	#NA	#NA		#NA	#NA		#NA	#NA		#VALUE!	#######	Drains Flooded
24-Sep-99	60.00	1.00		78.00	1.30		30.00	0.50		168.00	2.80	Flows Estimated
25-Sep-99	72.00	1.20		90.00	1.50		36.00	0.60		198.00	3.30	Flows Estimated
27-Sep-99	60.00	1.00		60.00	1.00		30.00	0.50		150.00	2.50	Flows Estimated
29-Sep-99	42.60	0.71		19.20	0.32		4.92	0.08		66.72	1.11	*Flows Measured *
30-Sep-99	29.40	0.49		15.60	0.26		4.02	0.07		49.02	0.82	"
02-Oct-99	28.80	0.48		15.60	0.26		3.00	0.05		47.40	0.79	"
05-Oct-99	19.80	0.33		12.00	0.20		2.46	0.04		34.26	0.57	"

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OCT 07 '99 09:02

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY
PERIMETER EMBANKMENT OUTLET DRAIN FLOWS

KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

FIGURE 1

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14745-40/MTP8/01

Knight Piésold CONSULTING	**DATE:** 27-Sept-1999	**FILE NO.:**	11162/10.F05/.F07
	TIME:	**REF NO.:**	99-020
Knight Piésold, Mt. Polley Site *Fax: (250) 790-2268* *Phone: (250) 790-2215*	**OPERATOR:**	**PAGES:**	1 of 49
	SENDER: s.22	**APPROVED:**	

TO:	Ministry of Energy and Mines, Mines Branch, Victoria, B.C.	**FAX :**	250-952-0481
ATTN:	George Headley		
CC:			
SUBJECT:	Mount Polley Stage 2C Construction Progress Report #2		

Dear Mr. Headley,

Please find attached the Progress Report No. 2 for Stage 2C Construction at the Mount Polley Mine. This document is for the reporting period September 1 to 15, 1999.

If you have any questions or comments, please do not hesitate to contact Ken Brouwer in the KP Vancouver office.

Best Regards

s.22

Knight Piésold

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION
PROGRESS REPORT NO. 2
SEPTEMBER 1 to SEPTEMBER 15, 1999

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 2C construction activities over the reporting period. Knight Piésold Ltd. (KP) carried out QA/QC activities over this period.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 (IBM), Project Engineer (arrived on-site 2-Sept-99)
- (CWM), Project Engineer (left site 7-Sept-99)
- s.22 (JMTW), Senior Engineer (on-site 13 to 16-Sept-99)
- s.22 LAG), Senior Engineer (on-site 13 to 16-Sept-99)

The following MPMC management personnel were on site during the reporting period:

- Eric LeNeve, Tailings Coordinator
- Don Parsons, Mine Superintendent

1.2 WEATHER

Conditions were generally mixed over the reporting period, with showers occurring on September 1, 4, 5, 6 and 9. The weather was mostly sunny and warm over the rest of the reporting period.

1.3 CONTRACT DEVELOPMENTS

Stage 2C Construction drawings were issued and brought to site by IBM on 2-Sept-99.

MPMC has chosen to initiate construction activities themselves, with equipment acquired from pit operations and various contractors. This work will initially be confined to the areas between the Main and Perimeter embankments. The cost effectiveness of contracting out the remaining work for Stage 2C construction will be considered.

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1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Over the reporting period, tailings underflow (Zone CS) cycloned sand was discharged upstream of the Main and Perimeter Embankment crests. A significant beach continues to be present upstream of the Main Embankment Zone CS. Wind erosion of the cycloned sand was not observed over the reporting period.

On September 9th, cycloning from the upstream Main Embankment crest was stopped, as sufficient material had been discharged for Stage 2C construction. All pipeworks were removed from the Main Embankment crest, and 4 cyclones were repositioned such that all 6 cyclones are spread out along the upstream crest of the Perimeter Embankment. At the end of the reporting period, ponding water still lies against most of the Perimeter Embankment; however, accelerated Zone CS placement in these areas is currently underway to meet future fill placement and freeboard requirements.

SECTION 2.0 - CONSTRUCTION ACTIVITIES

MPMC carried out the following activities during the reporting period:

- Movement and maintenance of the tailings lines and 20" cyclones on the Main and Perimeter Embankments.
- Placement of Zone CS cycloned sand fill along the upstream Main and Perimeter Embankments.
- Maintenance and optimization of cyclones.
- Excavator work began to remove Zone CS cycloned sand from the upstream Stage 2B Zone S contact, in order to remove ponded water and prepare for u/s toe drain and Stage 2C fill placement.
- Development blast-hole drilling along crest of Zone T Rock Borrow.
- Placement of Zone T material from Rock Borrow for haul road upgrades.
- Placement of 1m Zone T lift along the barge channel access road.
- Investigations within Bio-Solids area, with the excavation of four (4) testpits.
- Stripping and grubbing within Borrow Area No. 2.
- Stripping for foundation preparation began along left abutment of Main Embankment and right abutment of Perimeter Embankment.

- Foundation preparation for Zone T haul road widening adjacent to trial downstream cycloned sand berm location. Plane D piezometer leads were wrapped in geotextile fabric, trenched within the foundation area and covered with filter sand for protection. Placement of geotextile fabric within foundation areas was carried out, and commencement of Zone T rockfill placement for haul road widening began during the reporting period.

- Over the reporting period, HDPE pipe with seepage collars arrived on-site, for use within the Stage 2C u/s toe drain outlet pipes.

SECTION 3.0 - KNIGHT PIÉSOLD ACTIVITIES

3.1 GENERAL

KP activities over the reporting period included the following:

- Testpits (4) excavated within Bio-Solids area were logged by CWM, and a Site Memorandum summarizing results of this investigation was issued to the MPMC Environmental Coordinator.

- IBM and Brian Stanga (contract surveyor) performed a survey pick-up of the Bio-Solids area.

- Progress Report No. 1 was issued, for the reporting period August 16 to 31, 1999.

- Vibrating wire piezometers (10) to be installed within the downstream trial cycloned sand berm were calibrated for baseline readings.

- Zone T and Zone S Control samples were collected.

- Laboratory testing was completed for Zone T, Zone S and Borrow Materials Investigation Zone S Control samples.

- A Site Memorandum was issued to Eric LeNeve (MPMC) summarizing results of the 1999 Borrow Area #2 Material Investigations, including borehole logs and laboratory moisture content results.

- During the site visit by JMTW and LAG, several meetings took place to discuss Stage 2C and Stage 3 design and construction issues, as well as to develop a schedule of on-going tasks.

- Copies of all tailings operator data sheets (mill throughput, pipeline pressures, cyclone operation and pulp densities) for the month of August '99 were compiled and sent to the KP Vancouver office.

- A table summarizing vibrating wire piezometer requirements and lead lengths was issued to Eric LeNeve (MPMC).

- Daily summaries of QA/QC and construction activities were submitted to MPMC.
- A foundation acceptance form was issued regarding approval of foundation for Zone T road widening in area of trial downstream cycloned sand berm.
- The centerline location for the downstream trial Zone T berm was laid out by IBM and Brian Stanga (contract surveyor).

3.2 MONITORING

3.2.1 General

On-going monitoring of instrumentation was continued over the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

3.2.2 Vibrating Wire Piezometers

No new piezometers were installed over this period.

Piezometer readings were taken on September 1, 8 and 15. The following observations are based on the data from the attached piezometric plots.

- Foundation Piezometers
  All foundation piezometers have generally remained static through spring runoff and have not reacted to placement of Zone CS material.
- Fill Piezometers
  Pore pressures in the vicinity of B2-PE2-03 (Zone S), C2-PE2-05 (Zone S) and A2-PE2-03 (Zone B) have increased, likely as a result of Zone CS placement. The remainder of the piezometers placed in the engineered fill have remained relatively static.
- Drain Piezometers
  All piezometers located within the drains have remained static. This indicates that the drains are free draining and are functioning as designed.
- Tailings Piezometers
  Plane C tailings piezometers were reacting to the rise in pond level until they stopped functioning at the end of May, 1999. Plane B tailings piezometers continue to mimic the pond level quite accurately, while the tailings piezometers at Plane A have reacted to the placement of Zone CS material.

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3.2.3 Drain Flows

Due to the high water level in the Seepage Collection Pond at the Main Embankment, the outlets of the foundation drains are flooded and the flows have not been recorded since December 22, 1998. MPMC plans to lower the level of the pond in order to continue monitoring of the foundation drain flows.

MPMC has constructed small weirs at the Main Embankment Outlet Drains to monitor Chimney Drain flows. No data has been collected due to the low observed flow levels. The Outlet Drains will discharge into the Zone T fill during Stage 3 Construction.

3.2.4 Standpipe Piezometer Levels

The water level in standpipe piezometer GW96-9 (downstream of the right abutment of the Main Embankment) has not been monitored this season due to a break in the pipe. The pipe will be repaired in the near future and readings will recommence.

3.2.5 Survey Monuments

New survey points will be installed following the completion of Stage 2C construction in order to measure any settlements prior to the beginning of Stage 3 Construction.

3.3 QA/QC and Laboratory Testing

All bi-weekly composite cycloned sand underflow, overflow and mill feed tailings samples are tested by MPMC personnel.

Three (3) Control samples of Zone T material from the Rock Borrow, and one (1) Control Zone S sample from Borrow Area #2 were collected and tested during the reporting period. As shown on the attached summary plots, these materials were found to meet applicable gradation specifications for Zone T and S materials. Laboratory compaction testing of sample C/ZS-1 resulted in a corrected maximum dry density of 2015 kg/m^3 and an optimum moisture content of 11.2%.

A total of fifty-one (51) control samples were collected from the Borrow Area 2 Materials Investigations. Of these, twenty-eight (28) samples were tested in the laboratory for moisture content and gradation. As shown on the attached summary plots, these results indicate that all samples meet the requirements for Zone S and B till materials. Results of this testwork will be incorporated into geological sections of Borrow Area #2. If appropriate, select samples will be tested for Atterburg limits and Hydrometer analyses.

Bi-weekly composite samples of overflow and underflow were collected from each cyclone. In addition, bi-weekly composite sampling of the mill feed was carried out. Control and record testing carried out to date is summarized on the attached plots.

Knight Piésold
CONSULTING

Submitted by,

s.22

Knight Piésold

Distribution: Eric LeNeve, Tailings Coordinator, MPMC, Site
Don Parsons, Mine Superintendent, MPMC, Site
George Headley, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, Project Director/John Wilkinson, Project Manager, KP Vancouver

SEP 28 '99 09:04

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE T CONTROL TEST SUMMARY SHEET

A:\[C-ZT-SUM.xls]sum table 24-Sep-99

Date Sampled	Sample No.	Location	Elev. (m)	C2	C3 (Particle Size Distribution)											
				Field m/c	75	37.5	25	19.0	9.5	4.75	3.35	1.180	0.600	0.425	0.150	0.075
					Seive Sizes											
				%	3	1 1/2	1	3/4	3/8	#4	#6	#16	#30	#40	#100	#200
03-Sep-99	C/ZT-1	Rock Borrow	-	-	85.0	68.3	59.9	52.0	40.9	30.9	26.6	15.4	9.0	6.3	2.1	1.1
03-Sep-99	C/ZT-2	Rock Borrow	-	-	85.0	79.6	74.2	70.9	57.2	42.5	36.0	19.4	12.0	9.1	4.5	1.9
03-Sep-99	C/ZT-3	Rock Borrow	-	-	85.0	59.1	49.1	41.4	28.2	19.1	15.8	8.3	5.0	3.5	1.4	0.7
		MEAN		#DIV/0!	85.0	69.0	61.1	54.8	42.1	30.8	26.1	14.4	8.7	6.3	2.7	1.2
		MEDIAN		#NUM!	85.0	68.3	59.9	52.0	40.9	30.9	26.6	15.4	9.0	6.3	2.1	1.1
		MAXIMUM		0.0	85.0	79.6	74.2	70.9	57.2	42.5	36.0	19.4	12.0	9.1	4.5	1.9
		MINIMUM		0.0	85.0	59.1	49.1	41.4	28.2	19.1	15.8	8.3	5.0	3.5	1.4	0.7

Notes:

C2 Moisture Content (ASTM D2216)

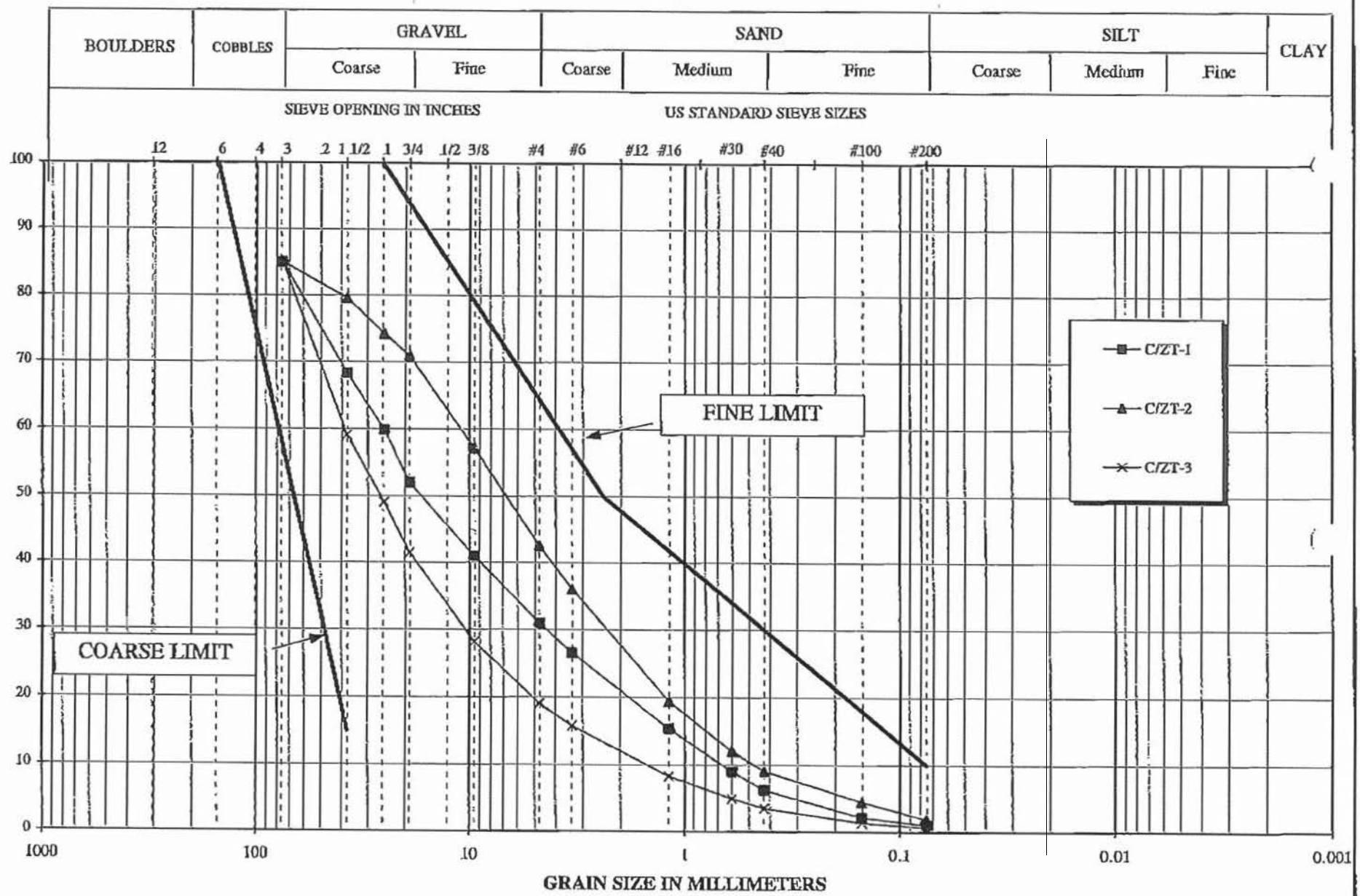
C3 Particle Size Distribution (ASTM D422)

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE T CONTROL SAMPLES - GRADATION CURVES



SEP 28 '99 09:05

MOUNT POLLEY MINING CORPORATION
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STAGE 2C CONSTRUCTION
ZONE S CONTROL TEST SUMMARY SHEET

A:\[D-2S-SUM-Lab]Summary Table 24-Sep-99

Date Sampled	Sample No.	Location	Elev. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Lab m/c %	C3 (Particle Size Distribution) 152.4 6	76.2 3	38.1 1.5	25.4 1	19.05 0.7500	9.525 0.3750	4.7498 0.1870	3.3528 0.1320	1.19126 0.0469	0.594 0.0234	0.4191 0.0165	0.150 0.0059	0.07366 0.0029	0.001999 ######## Clay	C4 Standard Proctor Max Dry Density kg/m³	Optimum m/c %	C6 Specific Gravity
								6	3	1 1/2	1	3/4	3/8	#4	#6	#16	#30	#40	#100	#200				
03-Sep-99	C/ZS-1	Borrow Area 2, Exc. Face						100.0	100.0	100.0	100.0	98.7	93.0	86.1	83.8	78.2	74.1	71.4	61.1	52.8		2015	11.2	
MEAN				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.0	100.0	100.0	100.0	98.7	93.0	86.1	83.8	78.2	74.1	71.4	61.1	52.8	#DIV/0!	2015	11.2	#DIV/0!
MEDIAN				#NUM!	#NUM!	#NUM!	#NUM!	100.0	100.0	100.0	100.0	98.7	93.0	86.1	83.8	78.2	74.1	71.4	61.1	52.8	#NUM!	2015	11.2	#NUM!
MAXIMUM				0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	98.7	93.0	86.1	83.8	78.2	74.1	71.4	61.1	52.8	0.0	2015	11.2	0.00
MINIMUM				0.0	0.0	0.0	0.0	100.0	100.0	100.0	100.0	98.7	93.0	86.1	83.8	78.2	74.1	71.4	61.1	52.8	0.0	2015	11.2	0.00

Notes:

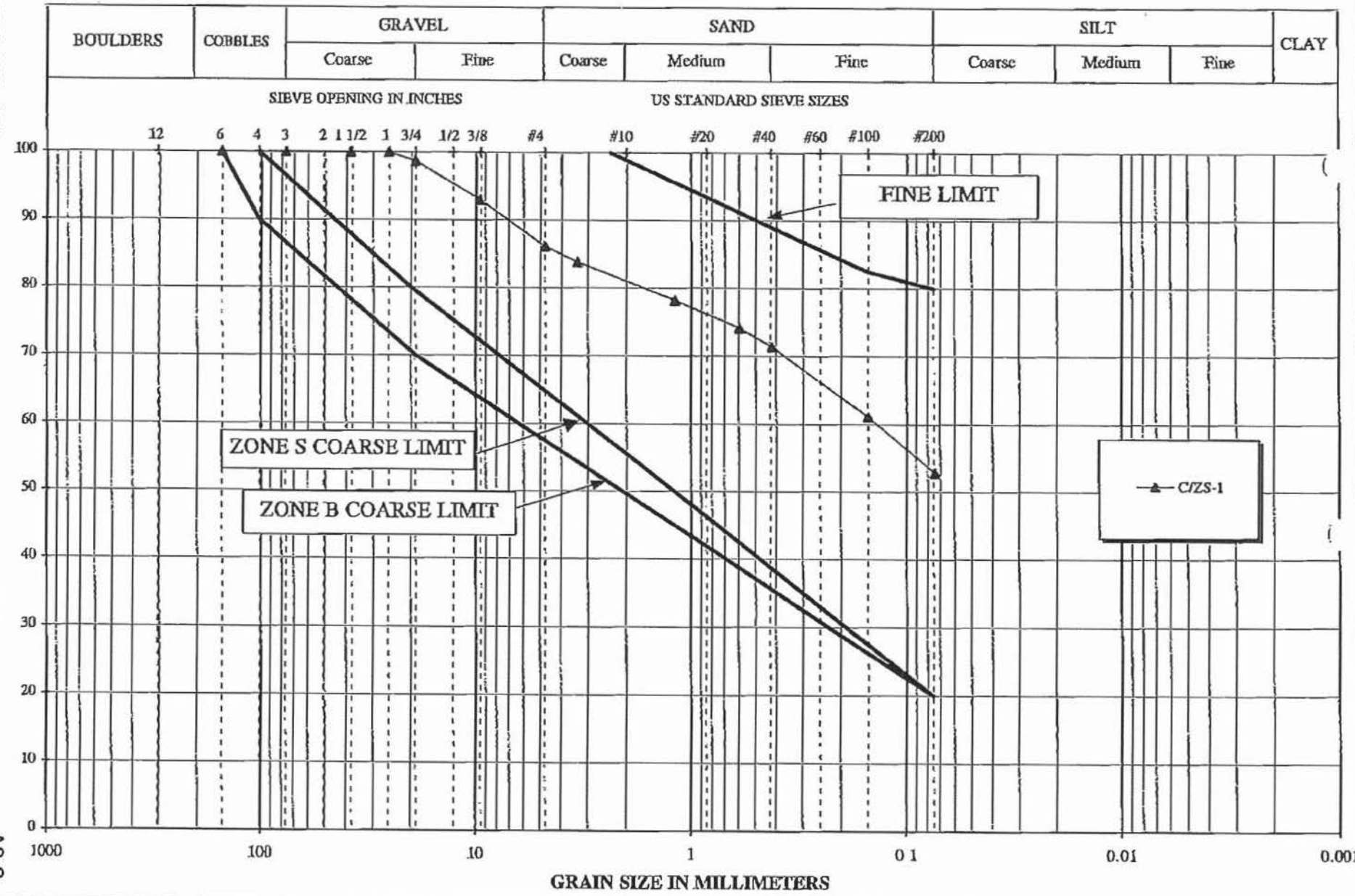
1. Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

C1 Atterberg Limits (ASTM D4318)
C2 Moisture Content (ASTM D2216)
C3 Particle Size Distribution (ASTM D422)
C4 Laboratory Compaction (ASTM D1557)
C6 Specific Gravity (ASTM D854)

SEP.28.1999 8:38AM MOUNT POLLEY MINING
INVESTIGATION-1998-2-Page 273 of 500 .010

m:\1f832\2\report\2\C-zs-scm\Fig A3-2 27/09/99 5:23 PM

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE S CONTROL SAMPLES - GRADATION CURVES



KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

A3-2

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

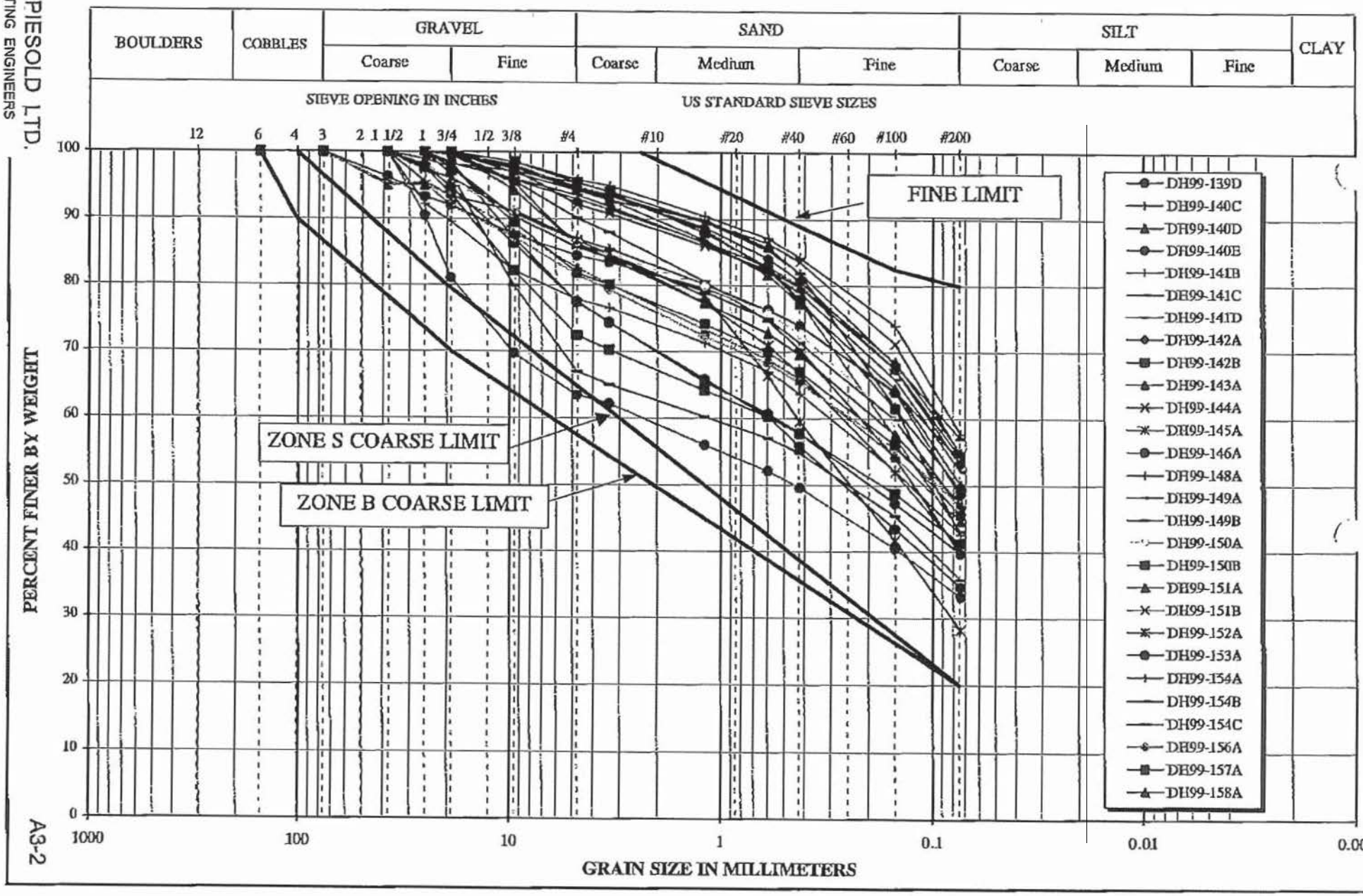
STAGE 2C CONSTRUCTION - BORROW AREA 2 MATERIAL INVESTIGATIONS
ZONE S CONTROL TEST SUMMARY SHEET

A:\10-BA2Z6-SUM.xls]Summary Table 24-Sep-99

Date Sampled	Sample No.	Location	Elev. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Lab m/c %	C3 (Particle Size Distribution) 152.4 6	76.2 3	38.1 1.5	25.4 1	19.05 0.7500 3/4	9.525 0.3750 3/8	4.7698 #4	3.3528 #6	1.1913 #16	0.594 #30	0.4191 #40	0.150 #100	0.0737 #200	0.001999 Clay
24-Aug-99	DH99-139D	Borrow Area 2, 20 ft Depth					10.5	100.0	100.0	100.0	100.0	98.4	87.1	77.4	74.4	65.5	60.7	57.8	47.3	39.8	
24-Aug-99	DH99-140C	Borrow Area 2, 15 ft Depth					10.7	100.0	100.0	100.0	95.5	93.3	91.3	87.0	85.5	80.2	76.3	73.9	64.1	53.8	
24-Aug-99	DH99-140D	Borrow Area 2, 20 ft Depth					9.2	100.0	100.0	100.0	100.0	100.0	94.3	86.3	84.1	77.3	72.7	69.6	57.6	47.4	
24-Aug-99	DH99-140E	Borrow Area 2, 25 ft Depth					8.1	100.0	100.0	100.0	90.5	81.0	69.7	63.4	62.1	56.0	52.1	49.6	40.5	33.1	
24-Aug-99	DH99-141B	Borrow Area 2, 10 ft Depth					11.9	100.0	100.0	100.0	100.0	100.0	96.9	94.4	92.9	89.9	85.7	81.8	61.7	42.6	
24-Aug-99	DH99-141C	Borrow Area 2, 15 ft Depth					10.0	100.0	100.0	100.0	100.0	98.3	96.0	93.6	91.9	86.4	82.1	78.9	65.9	52.1	
24-Aug-99	DH99-141D	Borrow Area 2, 20 ft Depth					8.6	100.0	100.0	100.0	100.0	96.6	79.9	67.0	65.0	60.2	57.1	54.8	45.4	35.7	
25-Aug-99	DH99-142A	Borrow Area 2, 20 ft Depth					11.4	100.0	100.0	100.0	100.0	100.0	97.7	94.4	93.5	88.7	84.1	80.7	67.4	53.1	
26-Aug-99	DH99-142B	Borrow Area 2, 30 ft Depth					8.8	100.0	100.0	100.0	97.7	93.7	82.2	72.4	70.2	64.2	60.9	57.7	48.8	41.3	
25-Aug-99	DH99-143A	Borrow Area 2, 5 ft Depth					12.1	100.0	100.0	100.0	100.0	100.0	98.0	94.8	93.0	86.6	81.6	77.3	64.5	50.1	
26-Aug-99	DH99-144A	Borrow Area 2, 10 ft Depth					12.1	100.0	100.0	100.0	100.0	100.0	96.9	94.3	93.6	89.6	85.6	83.6	71.2	54.9	
25-Aug-99	DH99-145A	Borrow Area 2, 15 ft Depth					12.6	100.0	100.0	100.0	100.0	99.5	95.4	86.0	84.0	78.4	66.3	59.5	41.7	28.2	
25-Aug-99	DH99-146A	Borrow Area 2, 20 ft Depth					10.7	100.0	100.0	96.3	93.3	92.0	87.7	84.5	83.5	79.5	76.3	73.9	64.0	48.6	
25-Aug-99	DH99-148A	Borrow Area 2, 20 ft Depth					12.3	100.0	100.0	100.0	100.0	100.0	98.6	95.9	95.0	90.3	87.1	84.3	73.9	57.7	
26-Aug-99	DH99-149A	Borrow Area 2, 10 ft Depth					11.2	100.0	100.0	100.0	100.0	100.0	98.1	94.7	93.6	88.4	82.4	77.6	57.2	43.1	
26-Aug-99	DH99-149B	Borrow Area 2, 20 ft Depth					9.9	100.0	100.0	100.0	100.0	100.0	95.6	90.2	88.0	80.6	74.6	70.4	54.2	39.8	
27-Aug-99	DH99-150A	Borrow Area 2, 5 ft Depth					11.2	100.0	100.0	100.0	98.2	95.6	91.0	86.6	84.8	79.9	75.8	72.7	59.7	46.4	
27-Aug-99	DH99-150B	Borrow Area 2, 13 ft Depth					15.0	100.0	100.0	100.0	100.0	100.0	98.6	95.5	94.0	88.0	82.8	77.9	61.5	49.5	
26-Aug-99	DH99-151A	Borrow Area 2, 5 ft Depth					12.6	100.0	100.0	95.0	95.0	93.7	88.3	82.6	80.1	73.3	68.9	65.9	54.1	44.6	
26-Aug-99	DH99-151B	Borrow Area 2, 20 ft Depth					13.7	100.0	100.0	100.0	100.0	100.0	97.4	92.2	90.9	86.0	82.4	79.8	67.5	54.2	
26-Aug-99	DH99-152A	Borrow Area 2, 15 ft Depth					12.3	100.0	100.0	100.0	97.3	96.1	90.9	86.6	84.7	77.3	70.9	66.7	52.0	40.9	
26-Aug-99	DH99-153A	Borrow Area 2, 10 ft Depth					10.7	100.0	100.0	100.0	98.1	94.7	86.3	77.5	74.3	63.0	60.2	55.9	43.5	34.7	
29-Aug-99	DH99-154A	Borrow Area 2, 15 ft Depth					15.0	100.0	100.0	100.0	92.2	89.6	82.2	77.8	76.6	71.3	67.1	63.7	52.2	42.7	
29-Aug-99	DH99-154B	Borrow Area 2, 25 ft Depth					11.6	100.0	100.0	100.0	99.0	97.7	90.4	85.8	84.2	79.1	74.9	71.3	59.9	46.7	
29-Aug-99	DH99-154C	Borrow Area 2, 35 ft Depth					12.6	100.0	100.0	100.0	100.0	98.2	97.1	95.4	94.2	89.7	85.3	81.9	68.2	57.0	
29-Aug-99	DH99-156A	Borrow Area 2, 10 ft Depth					15.1	100.0	100.0	95.3	95.3	91.9	87.3	81.6	79.3	72.3	68.2	65.3	55.5	47.1	
27-Aug-99	DH99-157A	Borrow Area 2, 20 ft Depth					10.4	100.0	100.0	100.0	100.0	97.6	89.5	81.8	80.0	74.1	69.9	67.0	56.0	45.6	
30-Aug-99	DH99-158A	Borrow Area 2, 10 ft Depth					13.4	100.0	100.0	100.0	100.0	99.5	95.8	93.0	91.5	86.5	82.9	79.9	68.5	54.9	
			MEAN	######	######	######	11.6	100.0	100.0	99.5	98.3	96.7	91.4	86.2	84.5	78.8	74.1	70.7	58.0	45.9	#DIV/0!
			MEDIAN	#NUM!	#NUM!	#NUM!	11.5	100.0	100.0	100.0	100.0	98.2	92.8	86.7	84.8	79.7	75.4	72.0	58.7	46.5	#NUM!
			MAXIMUM	0.0	0.0	0.0	15.1	100.0	100.0	100.0	100.0	100.0	98.6	95.9	95.0	90.5	87.1	84.3	73.9	57.7	0.0
			MINIMUM	0.0	0.0	0.0	8.1	100.0	100.0	95.0	90.5	81.0	69.7	63.4	62.1	56.0	52.1	49.6	40.5	28.2	0.0

Notes:
C1 Atterberg Limits (ASTM D4318)
C2 Moisture Content (ASTM D2216)
C3 Particle Size Distribution (ASTM D422)

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - BORROW AREA 2 MATERIAL INVESTIGATIONS
ZONE S CONTROL SAMPLES - GRADATION CURVES



KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

A3-2

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 1 UNDERFLOW GRADATIONS

N/A

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116/10
MATERIAL :	D20-1 UNDERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #1	99.9	99.9	99.48	99.00	97.60	92.00	75.60	52.40	36.60	27.10	16.30	14.20	-	-	-	-	-
May 12- 17, 1999	Cyclone #1		100.0	99.50	98.90	96.80	89.50	73.20	53.90	38.50	29.00	16.5	14.3	-	-	-	-	-
May 18- 26, 1999	Cyclone #1			100.0	99.9	99.4	96.6	88.3	68.8	43.2	27.3	17.2	13.5	-	-	-	-	-
May 27- 30, 1999	Cyclone #1		100.0	99.9	99.6	98.2	92.2	75.5	54.6	36.8	23.9	15.6	12.7	-	-	-	-	-
May 31- June 2, 1999	Cyclone #1			100.0	99.9	99.6	98.3	91.4	72.5	50.8	37.1	28.5	25.5	-	-	-	-	-
June 4,1999	Cyclone #1		100.0	99.8	99.2	96.8	91.7	77.4	54.1	35.9	24.4	15.9	12.9	-	-	-	-	-
June 6,1999	Cyclone #1		100.0	99.9	99.6	98.3	95.3	84.9	62.0	40.4	26.5	16.4	13.1	-	-	-	-	-
June15,1999	Cyclone #1		100.0	99.4	99.0	98.1	95.7	86.8	63.5	39.6	27.1	15.3	13.3	-	-	-	-	-
June 16-20, 1999	Cyclone #1		100.0	99.8	99.5	98.5	94.3	81.7	55.8	38.8	27.6	17.0	14.2	-	-	-	-	-
June 23,1999	Cyclone #1			100.0	99.8	99.3	97.7	88.8	65.8	49.0	32.7	19.1	15 4	-	-	-	-	-
June 28,1999	Cyclone #1		100.0	99.5	98.8	96.8	90.9	73.6	50.7	35.4	26.7	15.9	13.7	-	-	-	-	-
July 3,1999	Cyclone #1		100.0	99.4	98.7	97.1	93.7	83.4	59.8	37.6	27.1	16.3	14.2	-	-	-	-	-
July 6,1999	Cyclone #1		100.0	99.8	99.5	98.3	94.7	83.5	60.8	39.6	28.5	17.0	15.0	-	-	-	-	-
July 8-11, 1999	Cyclone #1		100.0	99.7	99.4	97.0	90.8	74.3	50.6	33.1	23.4	12.8	11.1	-	-	-	-	-
July 15,1999	Cyclone #1		100.0	99.7	99.2	94.6	82.0	61.0	42.6	30.4	21.3	13.7	12.0	-	-	-	-	-
July 22,1999	Cyclone #1		100.0	99.9	99.8	99.1	96.1	84.9	60.8	39.9	28.3	20.6	13.1	-	-	-	-	-
July 25,1999	Cyclone #1		100.0	99.6	99.1	97.9	94.1	82.5	59.2	41.9	30.7	19.1	14.3	-	-	-	-	-
July 29,1999	Cyclone #1		100.0	99.8	99.7	98.3	93.9	81.6	60.4	43.6	31.6	19.4	15.4	-	-	-	-	-
August 1,1999	Cyclone #1		100.0	99.9	99.7	98.2	92.7	78.0	55.4	42.4	31.5	19.8	17.6	-	-	-	-	-
August 5,1999	Cyclone #1			100.0	99.9	99.5	99.0	89.6	75.1	56.5	41.0	23.2	17.5	-	-	-	-	-
August 8,1999	Cyclone #1			100.0	99.9	99.0	93.8	79.4	55.8	38.0	27.9	18.1	14.8	-	-	-	-	-
August 12,1999	Cyclone #1			100.0	99.9	99.2	97.9	83.4	60.2	41.5	29.7	18.0	14.2	-	-	-	-	-
August 16,1999	Cyclone #1				100.0	99.4	95.2	79.6	59.6	42.9	31.7	21.3	16.9	-	-	-	-	-
August 18,1999	Cyclone #1		100.0	99.9	99.8	99.3	95.9	84.7	67.2	46.4	32.6	18.2	15.6	-	-	-	-	-
August 23,1999	Cyclone #1			100.0	99.9	99.2	94.9	77.8	55.5	36.8	26.0	14.1	12.0	-	-	-	-	-
August30,1999	Cyclone #1			100.0	99.8	98.3	91.9	74.6	54.5	38.0	27.5	15.8	13.8					
September2,1999	Cyclone #1			100.0	99.9	98.1	90.9	70.8	50.1	34.4	24.9	15.1	13.3					
	MEDIAN	99.9	100.0	99.9	99.7	98.3	94.1	81.6	59.2	39.6	27.6	17.0	14.2	-	-	-	-	-
	MAXIMUM	99.9	100.0	100.0	100.0	99.6	99.0	91.4	75.1	56.5	41.0	28.5	25.5	-	-	-	-	-
	MINIMUM	99.9	99.9	99.4	98.7	94.6	82.0	61.0	42.6	30.4	21.3	12.8	11.1	-	-	-	-	-

Notes: 1) These are 100% limits.

INVESTIGATION\1116-22\2006277.PM5 - 014

File: d20-1 Summary Sheet: Under Plot Date: 21/09/99 Time Plotted: 9:14 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-1 UNDERFLOW TAILINGS SAMPLES

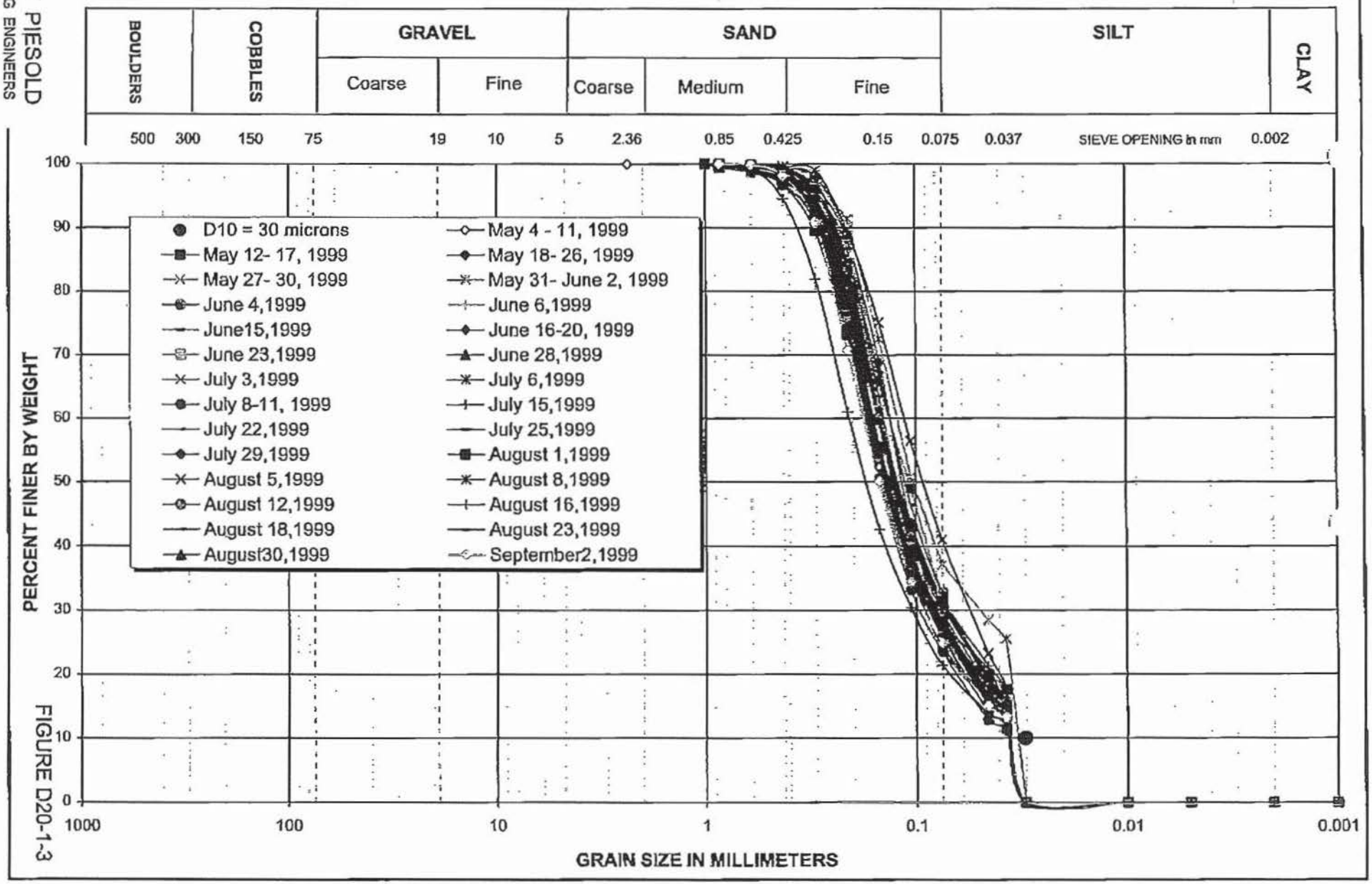


FIGURE D20-1-3

SEP 28 '99 09:08

SEP.28.1999 9:08AM KNIGHT PIESOLD CONSULTING 10:45:42

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 2 UNDERFLOW GRADATIONS

ENA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PERIOD : 31-Aug-99
MATERIAL : D20-2 UNDERFLOW TAILINGS SAMPLES		PROJECT #: 1116210
		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%
May 4 - 11, 1999	Cyclone #2			100.00	99.90	99.30	96.30	84.00	58.80	39.00	26.40	16.60	14.40	-	-	-	-	-
May 12- 17, 1999	Cyclone #2		100.0	99.80	99.50	99.10	98.00	92.90	75.30	47.00	26.60	16.1	12.4	-	-	-	-	-
May 18- 26, 1999	Cyclone #2		100.0	99.3	98.3	95.1	86.1	67.8	44.7	28.5	19.3	12.8	10.4	-	-	-	-	-
May 27- 30, 1999	Cyclone #2		100.0	100.0	99.7	98.9	93.5	80.0	51.3	36.4	26.1	14.9	13.1	-	-	-	-	-
May 31- June 2, 1999	Cyclone #2		100.0	99.1	98.3	95.5	88.9	72.9	50.4	33.6	22.4	14.2	11.1	-	-	-	-	-
June 4,1999	Cyclone #2		100.0	98.1	96.6	93.1	87.3	73.6	50.5	33.8	24.1	16.8	14.3	-	-	-	-	-
June 5,1999	Cyclone #2		100.0	99.3	98.3	94.1	84.2	64.9	44.8	32.0	23.6	16.4	13.8	-	-	-	-	-
June 7,1999	Cyclone #2		100.0	98.9	97.8	95.6	89.1	75.1	48.6	35.0	22.9	15.7	12.9	-	-	-	-	-
June 8,1999	Cyclone #2		100.0	99.3	98.5	95.7	93.4	79.4	55.9	37.5	27.3	16.1	13.6	-	-	-	-	-
June 14 - 16, 1999	Cyclone #2		100.0	98.3	98.1	94.6	85.9	68.6	49.2	35.0	26.3	16.2	14.2	-	-	-	-	-
June 15,1999	Cyclone #2		100.0	98.1	96.8	93.5	85.7	69.5	47.8	31.6	22.5	14.1	12.7	-	-	-	-	-
June 16-20, 1999	Cyclone #2		100.0	98.7	97.4	95.4	89.9	77.9	55.5	38.8	26.9	16.4	13.7	-	-	-	-	-
June 23,1999	Cyclone #2		100.0	98.7	97.3	94.0	88.3	71.3	45.8	32.5	22.4	14.1	11.6	-	-	-	-	-
June 28,1999	Cyclone #2		100.0	98.7	97.6	94.6	86.4	66.5	45.7	31.9	23.8	14.0	12.2	-	-	-	-	-
July 3,1999	Cyclone #2			100.0	99.9	99.6	97.2	88.3	71.3	52.9	39.4	22.9	19.5	-	-	-	-	-
July 5,1999	Cyclone #2		100.0	98.9	97.6	92.6	82.5	66.0	50.5	39.2	31.9	23.7	22.1	-	-	-	-	-
July 6,1999	Cyclone #2		100.0	99.1	98.4	96.4	91.8	77.3	52.9	35.1	25.4	15.1	13.5	-	-	-	-	-
July 15,1999	Cyclone #2		100.0	99.9	99.7	97.4	90.0	73.3	55.3	41.0	27.7	16.9	14.8	-	-	-	-	-
July 19,1999	Cyclone #2		100.0	99.9	99.7	98.7	93.4	76.3	53.0	38.1	27.7	21.7	13.6	-	-	-	-	-
July 22,1999	Cyclone #2			100.0	99.9	99.3	96.3	83.3	58.5	40.2	29.2	20.2	13.6	-	-	-	-	-
July 25,1999	Cyclone #2		100.0	99.6	99.2	98.2	97.0	81.3	58.8	44.6	31.7	20.3	18.3	-	-	-	-	-
August 1,1999	Cyclone #2		100.0	99.7	99.2	96.8	91.4	78.9	57.8	44.5	32.5	19.9	17.5	-	-	-	-	-
August 5,1999	Cyclone #2		100.0	99.7	98.3	95.7	86.8	71.5	53.2	40.6	29.2	20.1	15.8	-	-	-	-	-
August 8,1999	Cyclone #2			100.0	99.8	97.8	88.5	68.4	46.9	32.3	23.8	15.5	12.7	-	-	-	-	-
August 12,1999	Cyclone #2		100.0	99.9	99.7	98.0	92.3	73.6	51.8	36.7	27.1	17.3	14.3	-	-	-	-	-
August 16,1999	Cyclone #2			100.0	99.9	98.9	93.1	74.7	55.4	39.4	28.4	20.5	14.6	-	-	-	-	-
August 18,1999	Cyclone #2		100.0	99.9	99.6	97.0	87.6	65.9	47.5	33.9	25.0	13.0	13.1	-	-	-	-	-
August 23,1999	Cyclone #2		100.0	99.9	99.7	97.8	90.3	69.6	49.8	34.7	25.4	14.7	12.7	-	-	-	-	-
August30,1999	Cyclone #2		100.0	99.8	99.5	97.9	90.4	70.0	50.6	35.5	25.8	14.7	12.8					
September5,1999	Cyclone #2			100.0	99.8	98.8	93.7	73.5	52.2	37.6	28.7	18.0	16.0					
September12,1999	Cyclone #2				100.0	99.4	94.2	79.6	51.9	38.4	28.2	19.5	16.8					
	MEDIAN	#NUM!	100.0	99.7	99.2	97.0	90.3	73.6	51.8	36.7	26.4	16.4	13.6	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.6	98.0	92.9	75.3	52.9	39.4	23.7	22.1	-	-	-	-	-
	MINIMUM	0.0	100.0	98.1	96.6	92.6	82.5	64.9	44.7	28.5	19.3	12.8	10.4	-	-	-	-	-

Notes: 1) These are 100% limits.

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SEP 28 '99 09:08

File: d20-2 Summary Sheet: Under Plot Date: 21/09/99 Time Plotted: 9:15 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-2 UNDERFLOW TAILINGS SAMPLES

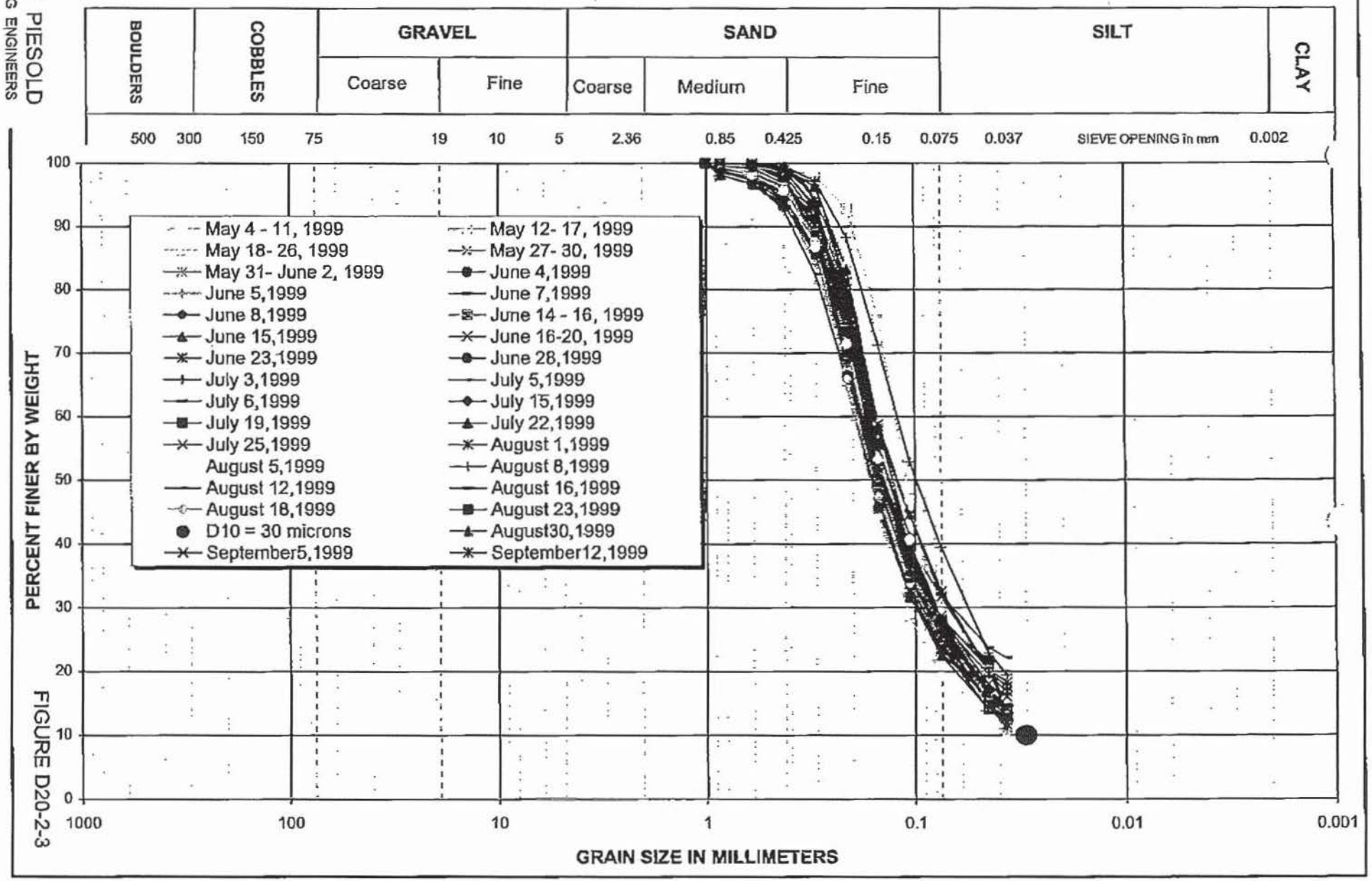


FIGURE D20-2-3

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SEP.28.1999 9:01AM MOUNT POLLEY MINING INV.013 P.17/42

SEP 28 '99 09:08

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 3 UNDERFLOW GRADATIONS

#N/A

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116210
MATERIAL :	D20-3 UNDERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #3	98.2	98.2	97.65	97.15	95.95	91.95	77.65	52.35	34.95	23.75	14.75	14.50	-	-	-	-	-
May 12- 17, 1999	Cyclone #3	99.9	99.9	99.90	99.90	99.70	98.30	90.70	70.00	49.10	33.40	20.9	16.2	-	-	-	-	-
May 27- 30, 1999	Cyclone #3		100.0	100.0	99.7	98.9	93.5	80.0	51.3	36.4	26.1	14.9	13.1	-	-	-	-	-
June 5,1999	Cyclone #3		100.0	99.6	99.1	97.3	92.0	76.1	53.1	37.3	26.8	18.3	15.5	-	-	-	-	-
June 6,1999	Cyclone #3		100.0	99.9	99.5	98.1	94.4	83.4	59.4	39.5	27.6	18.7	15.7	-	-	-	-	-
June 7,1999	Cyclone #3		100.0	99.8	99.5	98.2	91.9	75.0	46.8	32.9	21.1	13.7	11.1	-	-	-	-	-
June 14-16, 1999	Cyclone #3		100.0	99.8	99.3	96.6	88.1	70.1	49.5	35.2	26.2	15.9	13.9	-	-	-	-	-
June 15,1999	Cyclone #3		100.0	99.5	99.1	97.5	91.5	73.8	51.0	36.7	29.0	20.6	19.4	-	-	-	-	-
June 16-20,1999	Cyclone #3		100.0	99.0	97.9	95.8	90.4	76.8	51.8	36.7	25.8	15.7	13.0	-	-	-	-	-
June 23,1999	Cyclone #3		100.0	99.6	99.3	97.3	93.1	78.1	55.8	39.8	30.1	19.2	17.0	-	-	-	-	-
July 3,1999	Cyclone #3		100.0	99.3	98.5	96.0	88.3	70.3	46.6	31.8	24.2	14.6	12.7	-	-	-	-	-
July 5,1999	Cyclone #3		100.0	99.0	97.1	90.7	76.1	56.1	38.4	26.9	20.4	12.4	11.0	-	-	-	-	-
July 6,1999	Cyclone #3		100.0	99.2	98.8	97.4	93.8	81.8	58.9	38.7	28.0	16.6	14.6	-	-	-	-	-
July 15,1999	Cyclone #3		100.0	98.4	97.1	94.2	88.1	72.9	51.2	36.2	25.6	16.8	14.9	-	-	-	-	-
July 19,1999	Cyclone #3		100.0	99.3	98.9	97.3	93.1	82.0	61.9	44.1	32.2	24.1	17.3	-	-	-	-	-
July 22,1999	Cyclone #3		100.0	99.6	99.4	98.7	97.0	88.9	67.0	44.7	31.9	25.4	15.3	-	-	-	-	-
July 25,1999	Cyclone #3		100.0	99.4	98.7	97.4	94.7	85.7	60.4	43.3	31.7	20.9	16.0	-	-	-	-	-
August 1,1999	Cyclone #3		100.0	99.1	98.2	95.2	88.3	73.1	51.8	39.8	29.9	19.4	17.4	-	-	-	-	-
August 5,1999	Cyclone #3		100.0	99.9	99.7	99.0	95.3	83.8	60.7	45.4	32.8	21.4	16.9	-	-	-	-	-
August 8,1999	Cyclone #3		100.0	99.6	99.1	96.6	89.5	74.0	51.3	34.9	25.9	16.4	13.4	-	-	-	-	-
August 12,1999	Cyclone #3		100.0	99.9	99.8	99.2	95.8	82.3	61.2	41.9	30.0	21.4	15.3	-	-	-	-	-
August 16,1999	Cyclone #3			100.0	99.9	98.5	92.7	75.3	55.6	39.8	29.6	20.5	16.9	-	-	-	-	-
August 18,1999	Cyclone #3			100.0	99.8	98.7	95.1	76.4	51.1	34.2	24.4	15.3	12.8	-	-	-	-	-
September2,1999	Cyclone #3		100.0	99.9	99.7	98.1	92.1	74.8	54.1	37.1	26.4	15.4	13.5					
September5,1999	Cyclone #3		100.0	99.9	99.7	99.0	92.8	76.6	51.6	37.5	25.9	16.2	13.6					
September12,1999	Cyclone #3			100.0	99.9	99.2	94.8	82.7	56.7	41.5	29.2	19.3	16.3					
	MEDIAN	99.0	100.0	99.6	99.3	97.4	92.7	76.7	52.7	37.4	27.2	17.5	15.1	-	-	-	-	-
	MAXIMUM	99.9	100.0	100.0	99.9	99.7	98.3	90.7	70.0	49.1	33.4	25.4	19.4	-	-	-	-	-
	MINIMUM	98.2	98.2	97.7	97.1	90.7	76.1	56.1	38.4	26.9	20.4	12.4	11.0	-	-	-	-	-

Notes: 1) These are 100% finer.

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SEP 28 '99 09:09

File: d20-3 Summary Sheet: Under Plot Date: 21/09/99 Time Plotted: 9:17 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-3 UNDERFLOW TAILINGS SAMPLES

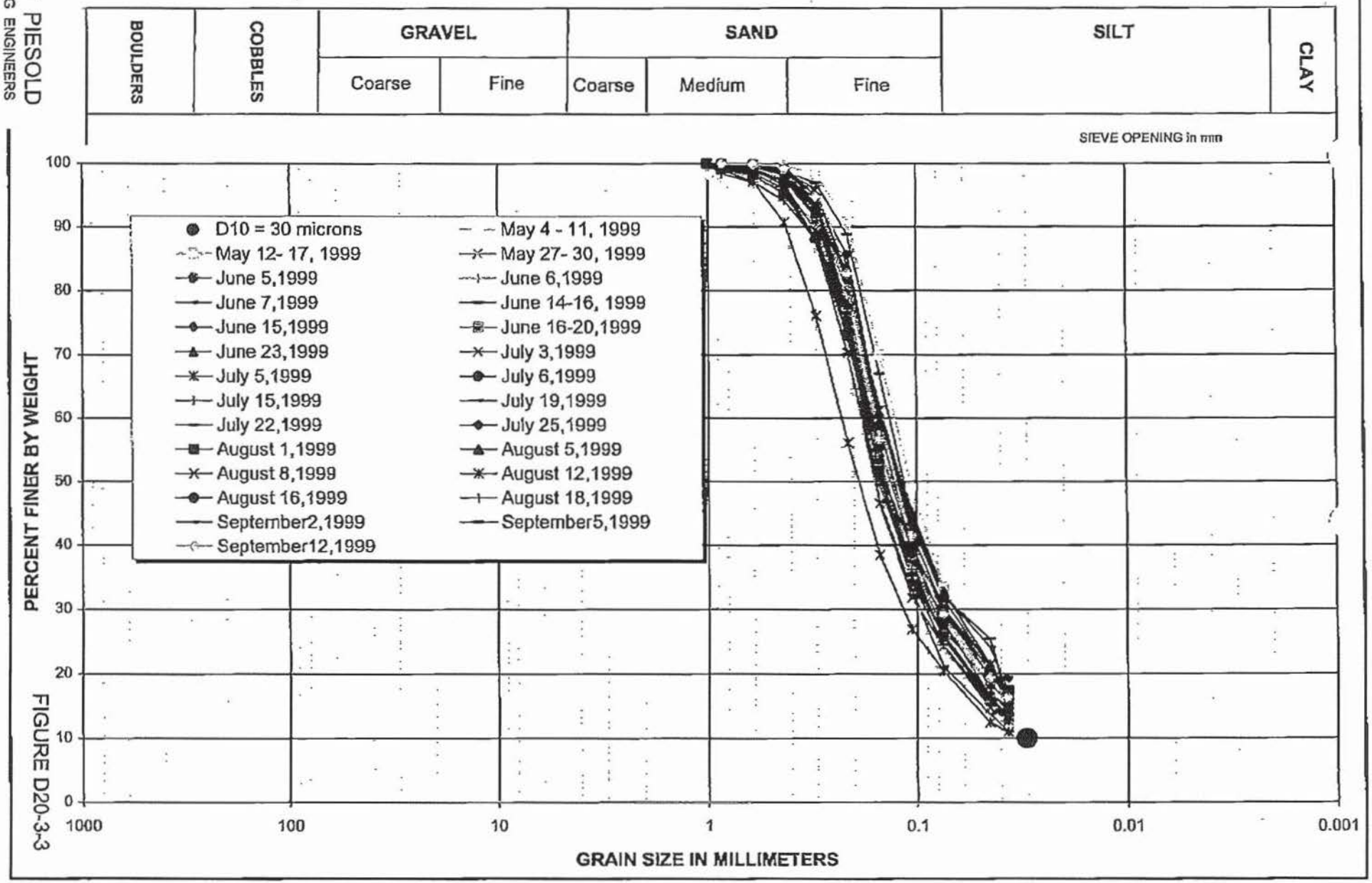


FIGURE D20-3-3

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SEP 28 '99 09:09

SEP.28.1999 9:02PM MOUNT POLLEY MINING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 4 UNDERFLOW GRADATIONS

SNIA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET: 1 of 1
		PERIOD: 31-Aug-99
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PROJECT #: 1116210
MATERIAL : D20-4 UNDERFLOW TAILINGS SAMPLES		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%						
May 4 - 11, 1999	Cyclone #4				100.00	99.70	98.10	89.70	67.10	44.30	28.50	16.10	13.50	-	-	-	-	-
May 12- 17, 1999	Cyclone #4		100.0	98.60	97.80	95.50	88.40	70.20	49.30	34.00	25.20	14.4	12.3	-	-	-	-	-
May 27- 30, 1999	Cyclone #4		100.0	99.7	99.2	97.8	94.0	77.0	52.6	34.2	23.0	15.1	12.4	-	-	-	-	-
May 31- June 2, 1999	Cyclone #4		100.0	99.9	99.7	98.9	95.5	84.7	62.5	39.5	24.2	13.5	9.5	-	-	-	-	-
June 6,1999	Cyclone #4		100.0	98.7	97.6	94 7	90.5	77.7	53.6	35.4	23.8	15.1	12.2	-	-	-	-	-
June 8,1999	Cyclone #4		100.0	99.9	99.8	99.4	96.4	84.7	52.7	38.6	24.2	15.6	12.2	-	-	-	-	-
June 15,1999	Cyclone #4			100.0	99.9	99.2	95.3	80.2	52.4	33.2	23.8	14.4	13.0	-	-	-	-	-
June 16-20, 1999	Cyclone #4		100.0	99.7	99.2	98.0	94.4	83.4	55.8	40.4	28.9	17.5	14.9	-	-	-	-	-
June 23,1999	Cyclone #4		100.0	98.8	98.3	96.5	92.0	74.3	46.9	34.0	23.9	15.5	12.7	-	-	-	-	-
July 3,1999	Cyclone #4		100.0	98.8	98.1	96.6	93.2	82.8	58.0	37.4	26.7	14.9	12.8	-	-	-	-	-
July 5,1999	Cyclone #4		100.0	99.9	99.6	97.6	89.8	71.3	48.5	32.1	22.8	12.6	10.6	-	-	-	-	-
July 6,1999	Cyclone #4		100.0	99.8	99.6	98.4	93.9	78.6	54.0	36.3	26.0	14.5	12.6	-	-	-	-	-
July 8-11, 1999	Cyclone #4		100.0	99.5	99.0	96.9	91.5	75.7	50.4	32.9	23.2	12.9	11.8	-	-	-	-	-
July 15,1999	Cyclone #4		100.0	99.9	99.4	96.3	89.3	73.7	52.7	38.8	28.4	19.3	17.4	-	-	-	-	-
July 19,1999	Cyclone #4		100.0	96.3	95.8	94.8	92.2	72.4	51.8	38.5	29.3	27.4	15.8	-	-	-	-	-
July 22,1999	Cyclone #4		100.0	99.8	99.5	98.7	96.0	84.5	60.5	41.6	30.2	21.9	13.9	-	-	-	-	-
July 25,1999	Cyclone #4		100.0	99.6	99.3	98.6	96.7	87.4	62.1	44.7	30.2	16.0	13.6	-	-	-	-	-
August 1,1999	Cyclone #4		100.0	99.6	99.1	97.1	92.0	79.3	57.0	44.3	32.6	19.8	17.3	-	-	-	-	-
August 5,1999	Cyclone #4		100.0	99.5	98.7	97.4	94.8	87.4	66.6	51.0	35.8	22.7	18.3	-	-	-	-	-
August16,1999	Cyclone #4			100.0	99.8	98.6	92.6	74.2	54.8	39.2	28.5	18.1	14.6	-	-	-	-	-
August18,1999	Cyclone #4		100.0	99.9	99.7	98.3	91.6	70.7	49.8	34.6	25.2	14.9	13.0	-	-	-	-	-
August 23,1999	Cyclone #4		100.0	99.8	99.7	98.4	91.6	71.2	50.5	35.8	26.9	17.1	15.3	-	-	-	-	-
	MEDIAN	#NUM!	100.0	99.7	99.4	97.9	92.9	78.1	53.2	38.0	26.3	15.5	13.0	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.7	98.1	89.7	67.1	51.0	35.8	27.4	18.3	-	-	-	-	-
	MINIMUM	0.0	100.0	96.3	95.8	94.7	88.4	70.2	46.9	32.1	22.8	12.6	9.5	-	-	-	-	-

Notes: 1) These are 100% limits.

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SEP 28 '99 09:09

File: d20-4 Summary Sheet: UnderPlot Date: 21/09/99 Time Plotted: 9:20 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-4 UNDERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

PERCENT FINER BY WEIGHT

- D10 = 30 microns
- May 4 - 11, 1999
- May 12- 17, 1999
- May 27- 30, 1999
- May 31- June 2, 1999
- June 6,1999
- June 8,1999
- June 15,1999
- June 16-20, 1999
- June 23,1999
- July 3,1999
- July 5,1999
- July 6,1999
- July 8-11, 1999
- July 15,1999
- July 19,1999
- July 22,1999
- July 25,1999
- August 1,1999
- August 5,1999
- August16,1999
- August18,1999
- August 23,1999

GRAIN SIZE IN MILLIMETERS

FIGURE D20-4-3

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SEP 28 '99 09:10

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 5 UNDERFLOW GRADATIONS

n/a

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PROJECT #: 11162/10
MATERIAL : D20-5 UNDERFLOW TAILINGS SAMPLES		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	C
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
June 16 - 20, 1999	Cyclone #5		100.0	99.93	99.68	98.70	94.85	83.58	56.80	41.20	27.53	15.53	13.05	-	-	-	-	-
June 23,1999	Cyclone #5		100.0	99 78	99.15	97.43	93.93	80.50	56.68	43.15	31.60	21.1	17.9	-	-	-	-	-
June28,1999	Cyclone #5		100.0	99.93	99.70	98.35	92.08	74.25	51.90	34.75	24.95	14.3	12.4	-	-	-	-	-
July 3,1999	Cyclone #5		100.0	99.95	99.80	98.95	95.90	85.35	62.10	40.58	28.75	15.7	13.3	-	-	-	-	-
July 5,1999	Cyclone #5		100.0	99.13	98.65	96.90	91.38	76.50	53.83	36.03	25.63	14.1	12.1	-	-	-	-	-
July 6,1999	Cyclone #5		100.0	99.88	99.43	97.30	91.70	76.70	56.80	41.50	31.35	20.1	18.1	-	-	-	-	-
July 8-11, 1999	Cyclone #5		100.0	99.75	99.40	96.65	88.48	68.83	46.55	32.38	23.40	13.63	12.70	-	-	-	-	-
July 15,1999	Cyclone #5		100.0	99.98	99.83	98.33	92.23	74.48	52.83	38.03	27.08	18.1	16.1	-	-	-	-	-
July 22,1999	Cyclone #5		100.0	99.88	99.60	98.58	95.08	81.15	56.03	38.20	28.08	23.6	14.0	-	-	-	-	-
July 25,1999	Cyclone #5		100.0	99.95	99.80	99.18	96.05	83.98	61.08	44.05	33.55	23.0	18.2	-	-	-	-	-
July 29,1999	Cyclone #5		100.0	99.99	99.94	99.18	95.02	81.29	59.80	41.90	32.17	21.6	19.9	-	-	-	-	-
August 1,1999	Cyclone #5		100.0	99.98	99.92	98.83	94.45	81.63	61.07	48.92	36.25	22.7	20.2	-	-	-	-	-
August 8,1999	Cyclone #5		100.0	99.88	99.60	97.78	88.88	69.95	49.03	33.75	24.83	15.4	12.6	-	-	-	-	-
August 16,1999	Cyclone #5				100.0	99.8	96.7	80.7	58.1	39.4	27.9	19.2	14.0	-	-	-	-	-
August 18,1999	Cyclone #5			100.0	99.8	97.8	93.8	76.7	57 6	40.0	29.2	18.8	15.8	-	-	-	-	-
August 23,1999	Cyclone #5		100.0	99.9	99.7	97.0	86.7	65.0	46.7	32.0	22.8	12.3	10.5	-	-	-	-	-
August30,1999	Cyclone #5			100.0	99.8	98.3	90.9	72.0	50.2	35.8	27.1	18.4	15.5					
September5,1999	Cyclone #5		100.0	99.9	99.7	97.6	89.3	70.8	52.6	38.4	29.0	18.3	16.4					
	MEDIAN	#NUM!	100.0	99.9	99.7	98.3	93.0	76.7	56.4	38.9	28.0	18.4	14.7	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.8	96.7	85.4	62.1	48.9	36.3	23.6	20.2	-	-	-	-	-
	MINIMUM	0.0	100.0	99.1	98.7	96.7	86.7	65.0	46.6	32.0	22.8	12.3	10.5	-	-	-	-	-

Notes: 1) These are 100% limits.

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SEP 28 '99 09:10

File: d20-5 Summary Sheet: UnderPlot Date: 21/09/99 Time Plotted: 9:20 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-5 UNDERFLOW TAILINGS SAMPLES

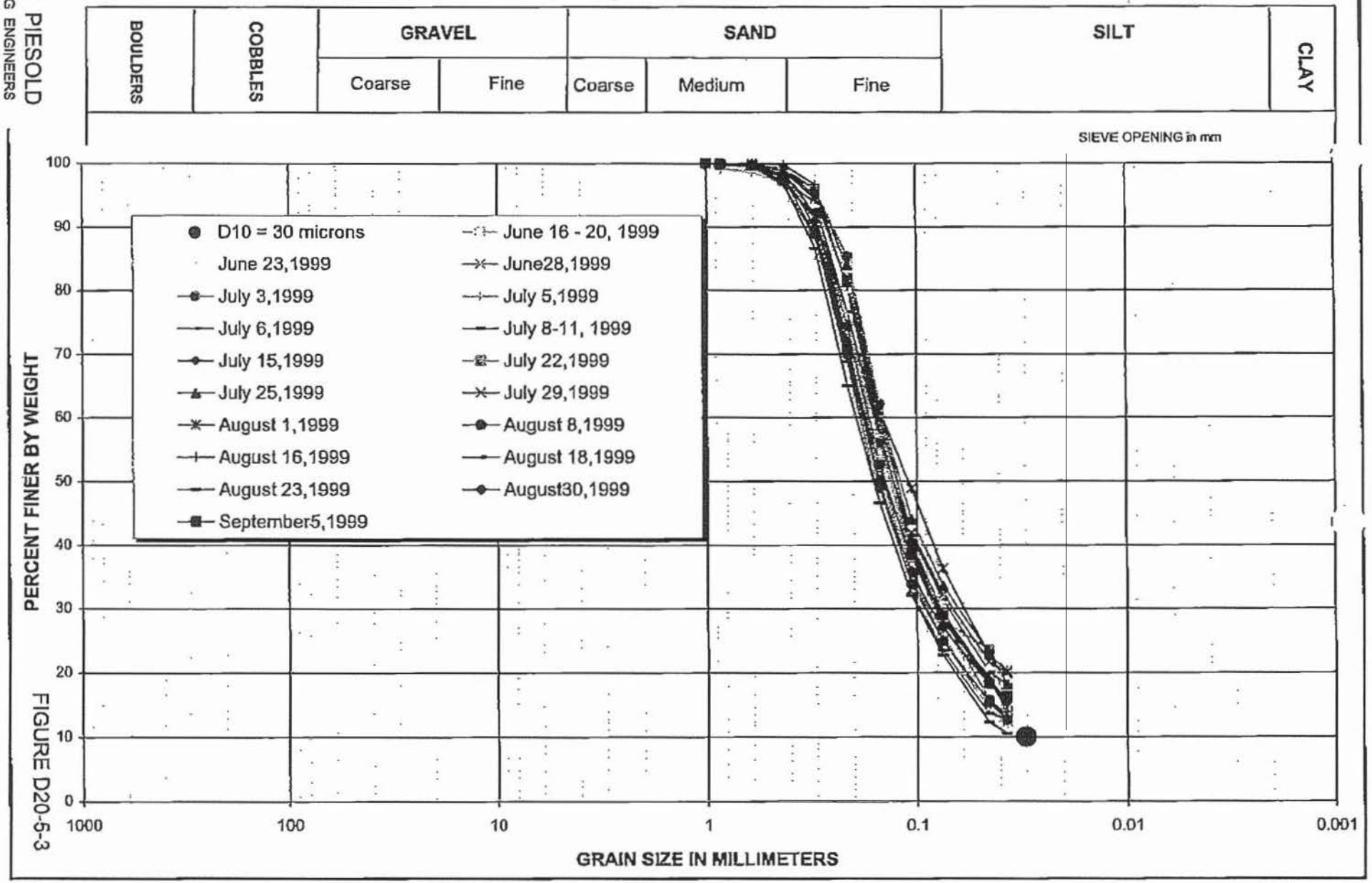


FIGURE D20-5-3

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SEP 28 '99 09:10

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 6 UNDERFLOW GRADATIONS

N/A

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 11162/10
MATERIAL :	D20-6 UNDERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																	
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0(
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%
June 16 - 20, 1999	Cyclone #6		100.0	99.95	99.80	99.40	96.63	85.15	55.75	39.90	27.65	16.00	12.63	-	-	-	-	-
June 23,1999	Cyclone #6		100.0	99.95	99.88	99.70	98.38	90.33	68.33	45.35	31.73	17.4	14.5	-	-	-	-	-
June 28,1999	Cyclone #6		100.0	99.95	99.70	98.30	92.93	78.58	56.25	37.78	27.65	16.2	14.1	-	-	-	-	-
July 3,1999	Cyclone #6			100.00	99.98	99.88	98.90	93.35	74.25	48.00	31.93	16.7	14.0	-	-	-	-	-
July 5,1999	Cyclone #6		100.0	99.98	99.88	99.30	95.25	80.10	55.20	37.48	27.50	15.8	13.8	-	-	-	-	-
July 6,1999	Cyclone #6		100.0	99.95	99.93	99.75	98.33	90.23	68.55	44.43	31.03	17.1	14.6	-	-	-	-	-
July 8-11, 1999	Cyclone #6		100.0	99.93	99.75	98.95	96.65	84.43	61.55	40.78	28.15	19.2	14.1	-	-	-	-	-
July 15,1999	Cyclone #6		100.0	99.98	99.95	99.78	98.20	88.53	62.95	42.63	29.33	19.0	16.5	-	-	-	-	-
July 19,1999	Cyclone #6			100.00	99.95	99.65	98.00	87.83	65.30	45.55	32.73	24.3	17.7	-	-	-	-	-
July 22,1999	Cyclone #6				100.00	99.88	98.85	91.65	68.98	46.10	32.80	20.6	14.9	-	-	-	-	-
July 25,1999	Cyclone #6		100.0	99.88	99.70	99.00	96.25	87.15	63.60	48.65	37.88	26.3	22.4	-	-	-	-	-
August 1,1999	Cyclone #6		100.0	99.90	99.57	97.30	90.72	73.93	51.68	39.77	29.48	18.7	16.5	-	-	-	-	-
August 5,1999	Cyclone #6		100.0	99.9	99.4	98.8	97.9	83.5	66.3	49.6	37.0	22.9	18.3	-	-	-	-	-
August 8,1999	Cyclone #6		100.0	99.9	99.6	97.2	89.0	71.0	48.2	32.8	24.1	15.6	12.9	-	-	-	-	-
August 12,1999	Cyclone #6			100.0	99.9	99.2	94.2	77.2	55.4	38.4	28.0	21.9	15.1	-	-	-	-	-
August 16,1999	Cyclone #6			100.0	99.9	99.2	93.9	76.7	58.0	42.5	31.4	21.7	17.0	-	-	-	-	-
August 23,1999	Cyclone #6		100.0	100.0	100.0	99.9	97.7	85.7	62.8	42.4	30.8	17.9	15.6	-	-	-	-	-
August30,1999	Cyclone #6			100.0	99.9	98.9	94.1	77.6	53.5	36.8	26.9	17.1	13.5					
September2,1999	Cyclone #6			100.0	99.9	98.7	92.3	72.0	51.2	36.3	27.4	18.3	16.7					
September5,1999	Cyclone #6				100.0	99.8	96.6	84.2	56.4	40.5	28.5	18.7	16.0					
	MEDIAN	#NUM!	100.0	100.0	99.9	99.3	96.6	84.3	59.8	41.6	29.4	18.5	15.0	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.9	98.9	93.4	74.3	49.6	37.9	26.3	22.4	-	-	-	-	-
	MINIMUM	0.0	100.0	99.9	99.4	97.2	89.0	71.0	48.2	32.8	24.1	15.6	12.6	-	-	-	-	-

Notes: 1) These are 100% limits.

INVESTIGATION KCB-2 Page 287 of 500
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SEP 28 '99 09:11

File: d20-6 Summary Sheet: Under Plot Date: 21/09/99 Time Plotted: 9:21 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-6 UNDERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

PERCENT FINER BY WEIGHT

100, 90, 80, 70, 60, 50, 40, 30, 20, 10, 0

- D10 = 30 microns
- June 16 - 20, 1999
- June 23,1999
- June 28,1999
- July 3,1999
- July 5,1999
- July 6,1999
- July 8-11, 1999
- July 15,1999
- July 19,1999
- July 22,1999
- July 25,1999
- August 1,1999
- August 5,1999
- August 8,1999
- August 12,1999
- August 16,1999
- August 23,1999
- August30,1999
- September2,1999
- September5,1999

1000, 100, 10, 1, 0.1, 0.01, 0.001

GRAIN SIZE IN MILLIMETERS

FIGURE D20-6-3

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250 790 2268 PAGE.025

SEP 28 '99 09:11

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 1 OVERFLOW GRADATIONS

ENA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116270
MATERIAL :	D20-1 OVERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #1					100.00	99.70	97.60	91.60	83.00	74.20	64.20	61.30	-	-	-	-	-
May 12 - 17, 1999	Cyclone #1		99.9	95.70	95.10	93.20	89.00	77.90	65.80	52.80	44.00	32.0	29.4	-	-	-	-	-
May 27 - 30, 1999	Cyclone #1			100.0	100.0	99.9	99.9	99.3	96.7	89.4	77.6	63.7	56.8	-	-	-	-	-
June16-20, 1999	Cyclone #1				100.0	99.9	99.7	98.7	93.8	84.1	73.0	56.9	50.9	-	-	-	-	-
June23,1999	Cyclone #1		100.0	99.9	99.7	99.1	98.5	96.2	90.1	82.3	73.3	62.1	57.9	-	-	-	-	-
July3,1999	Cyclone #1						100.0	99.6	96.3	87.8	76.8	58.4	53.4	-	-	-	-	-
July6,1999	Cyclone #1		100.0	99.8	99.8	99.7	99.6	98.9	95.4	85.9	73.4	52.6	47.4	-	-	-	-	-
July8-11, 1999	Cyclone #1		100.0	99.8	99.5	99.5	99.2	97.3	90.8	79.2	67.3	48.1	44.7	-	-	-	-	-
July15,1999	Cyclone #1		100.0	99.9	99.8	99.7	99.0	95.5	86.9	75.4	62.6	48.9	45.2	-	-	-	-	-
September2,1999	Cyclone #1					100.0	99.6	97.0	89.6	77.2	64.8	46.2	41.8					
	MEDIAN		100.0	99.8	99.8	99.7	99.6	97.5	91.2	82.7	73.1	54.8	49.1	-	-	-	-	-
	MAXIMUM		100.0	100.0	100.0	100.0	100.0	99.6	96.7	89.4	77.6	64.2	61.3	-	-	-	-	-
	MINIMUM		99.9	95.7	95.1	93.2	89.0	77.9	65.8	52.8	44.0	32.0	29.4	-	-	-	-	-

Notes: 1) These are 100% fines.

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SEP 28 '99 09:11

File: d20-1 Summary Sheet: OVER PLOT Date: 21/09/99 Time Plotted: 9:14 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-1 OVERFLOW TAILINGS SAMPLES

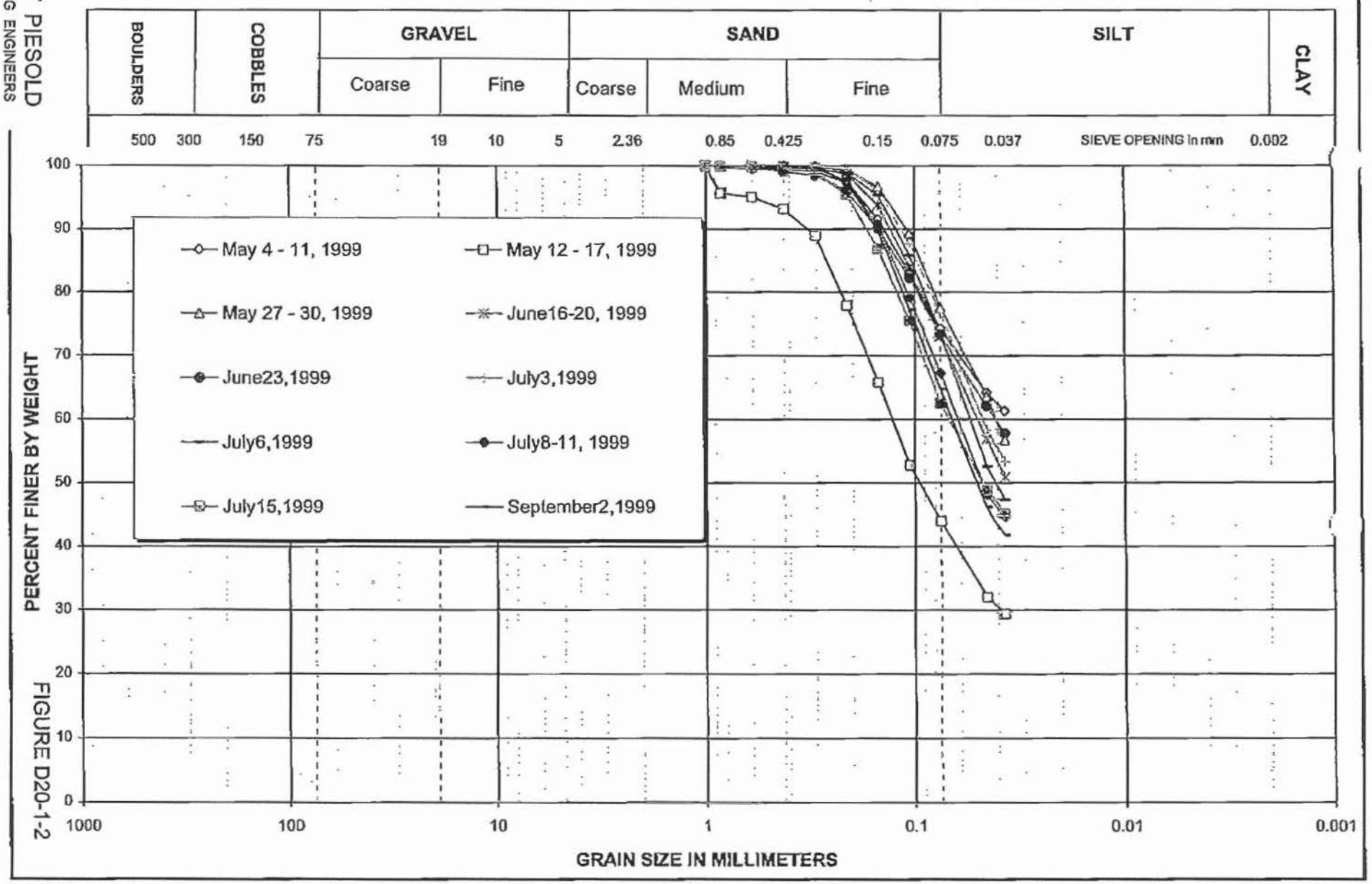


FIGURE D20-1-2

INVESTIGATION 00-2266 290 F00E.027

SEP 28 '99 09:11

SEP.28.1999 9:20AM MOUNT POLLEY MINING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 2 OVERFLOW GRADATIONS

Knight Piesold CONSULTING

1999 CONTROL SAMPLE TESTS - SUMMARY SHEET

SHEET: 1 of 1
PERIOD: 31-Aug-99
PROJECT #: 1116/210
AREA: Tailings Storage Facility

PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES
MATERIAL : D10-2 OVERFLOW TAILINGS SAMPLES

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #2		100.0	99.80	99.50	98.70	96.30	88.20	72.40	59.10	48.70	39.20	36.80	-	-	-	-	-
May 12 - 17, 1999	Cyclone #2			100.00	99.50	97.50	87.90	68.90	50.30	36.20	27.90	17.4	15.3	-	-	-	-	-
May 27 - 30, 1999	Cyclone #2			100.0	99.9	99.8	99.6	98.3	93.1	85.7	77.0	59.1	55.4	-	-	-	-	-
June 16, 1999	Cyclone #2		100.0	99.9	99.7	99.5	98.9	96.0	84.9	73.4	60.3	43.3	39.0	-	-	-	-	-
June 16-20, 1999	Cyclone #2				100.0	99.9	99.6	98.5	93.3	83.3	69.0	56.0	49.8	-	-	-	-	-
July 25, 1999	Cyclone #2				100.0	99.9	99.4	98.2	93.3	83.1	73.0	68.3	50.6	-	-	-	-	-
August 1, 1999	Cyclone #2		100.0	98.8	98.6	98.2	97.5	95.7	90.5	83.5	74.0	60.4	56.1	-	-	-	-	-
August 16, 1999	Cyclone #2		100.0	99.9	99.9	99.8	99.2	94.7	82.1	60.7	41.8	24.5	19.2	-	-	-	-	-
August30, 1999	Cyclone #2					100.0	99.8	96.7	87.9	75.9	64.7	48.7	40.6					
September2, 1999	Cyclone #2					100.0	99.9	98.7	93.6	82.9	70.6	50.4	45.7					
	MEDIAN	#NUM!	100.0	99.9	99.8	99.8	99.3	96.3	89.2	79.4	66.9	49.5	43.1	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	100.0	99.9	98.7	93.6	85.7	77.0	68.3	56.1	-	-	-	-	-
	MINIMUM	0.0	100.0	98.8	98.6	97.5	87.9	68.9	50.3	36.2	27.9	17.4	15.3	-	-	-	-	-

Notes: 1) These are 100% fines.

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SEP 28 '99 09:12

File: d20-2 Summary Sheet: OVERPLOT Date: 21/09/99 Time Plotted: 9:15 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-2 OVERFLOW TAILINGS SAMPLES

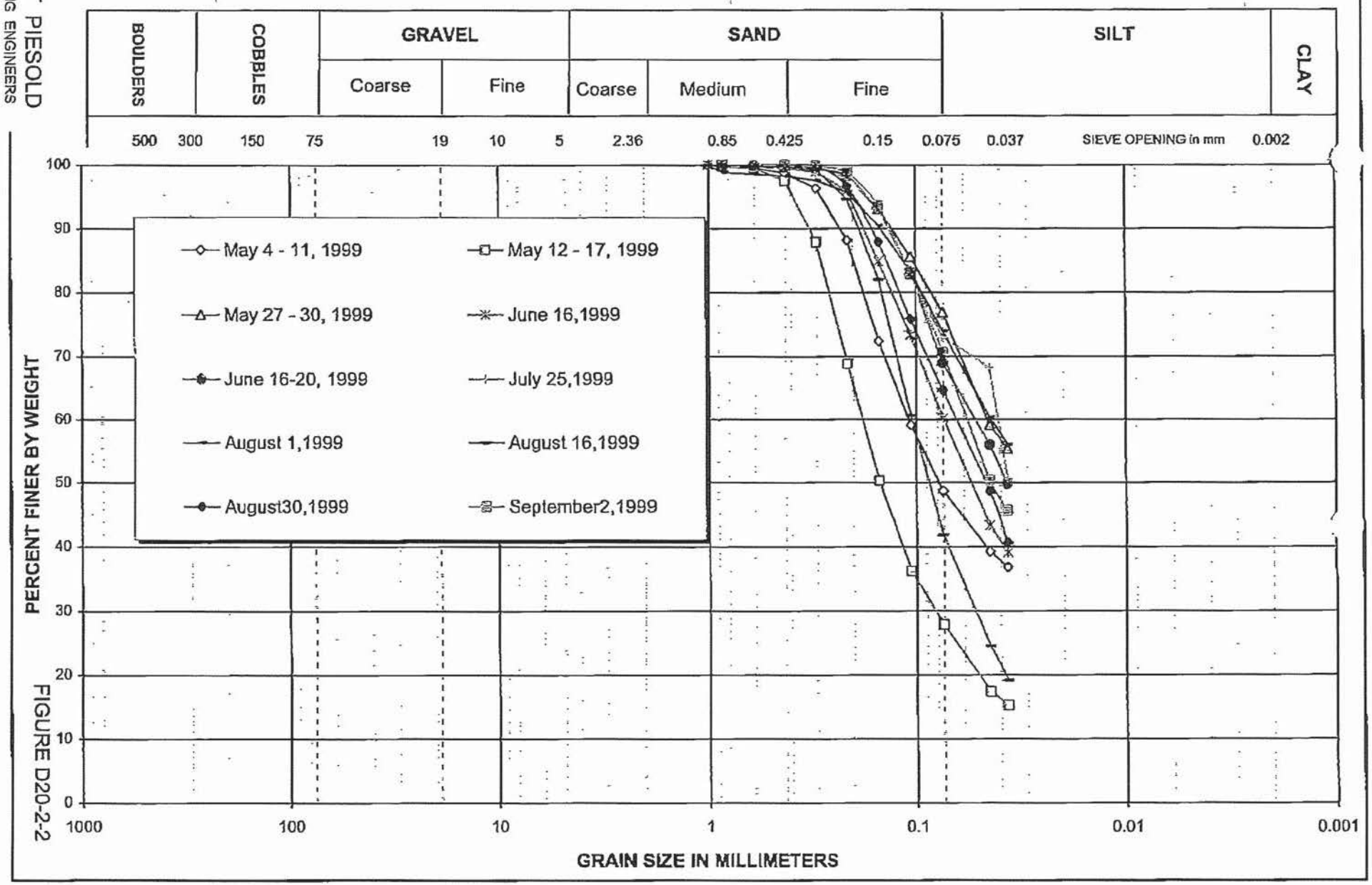


FIGURE D20-2-2

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SEP 28 '99 09:12

SEP.28.1999 9:08AM MOUNT POLLEY MINING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 3 OVERFLOW GRADATIONS

ENA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116/10
MATERIAL :	D20-3 OVERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%
May 4 - 11, 1999	Cyclone #3				100.00	99.90	99.40	97.30	91.60	82.30	70.80	56.40	51.90	-	-	-	-	-
May 12- 17, 1999	Cyclone #3	99.8	99.8	99.00	98.30	96.20	89.00	70.30	46.70	32.30	22.70	15.20	12.40	-	-	-	-	-
June 5,1999	Cyclone #3		100.0	99.7	99.3	97.8	94.2	84.3	67.8	46.5	27.5	16.0	12.4	-	-	-	-	-
June 7,1999	Cyclone #3				100.0	99.8	99.8	96.8	89.2	75.2	60.5	39.6	34.6	-	-	-	-	-
June 8,1999	Cyclone #3			100.0	99.8	98.9	97.0	83.0	56.6	36.2	25.3	13.8	11.5	-	-	-	-	-
June 16-20, 1999	Cyclone #3				100.0	99.9	99.5	98.3	94.6	86.5	73.7	61.2	55.4	-	-	-	-	-
June 23,1999	Cyclone #3		100.0	99.7	99.4	99.0	98.2	95.4	86.8	71.7	57.9	38.2	33.3	-	-	-	-	-
August 1,1999	Cyclone #3			100.0	99.9	99.8	99.1	96.6	88.4	78.9	67.6	53.8	48.8	-	-	-	-	-
August 18,1999	Cyclone #3						100.0	98.3	92.5	81.4	69.7	53.6	48.6	-	-	-	-	-
September2,1999	Cyclone #3					100.0	99.8	98.3	93.4	83.6	72.3	54.1	49.6					
	MEDIAN	99.8	100.0	99.7	99.8	99.8	99.2	96.7	88.8	77.0	64.1	46.6	41.6	-	-	-	-	-
	MAXIMUM	99.8	100.0	100.0	100.0	100.0	100.0	98.3	94.6	86.5	73.7	61.2	55.4	-	-	-	-	-
	MINIMUM	99.8	99.8	99.0	98.3	96.2	89.0	70.3	46.7	32.3	22.7	13.8	11.5	-	-	-	-	-

Notes: 1) These are 100% limits.

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INV.015 P.293/442

SEP 28 '99 09:12

File: d20-3 Summary Sheet: OVER PLOT Date: 21/09/99 Time Plotted: 9:16 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-3 OVERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

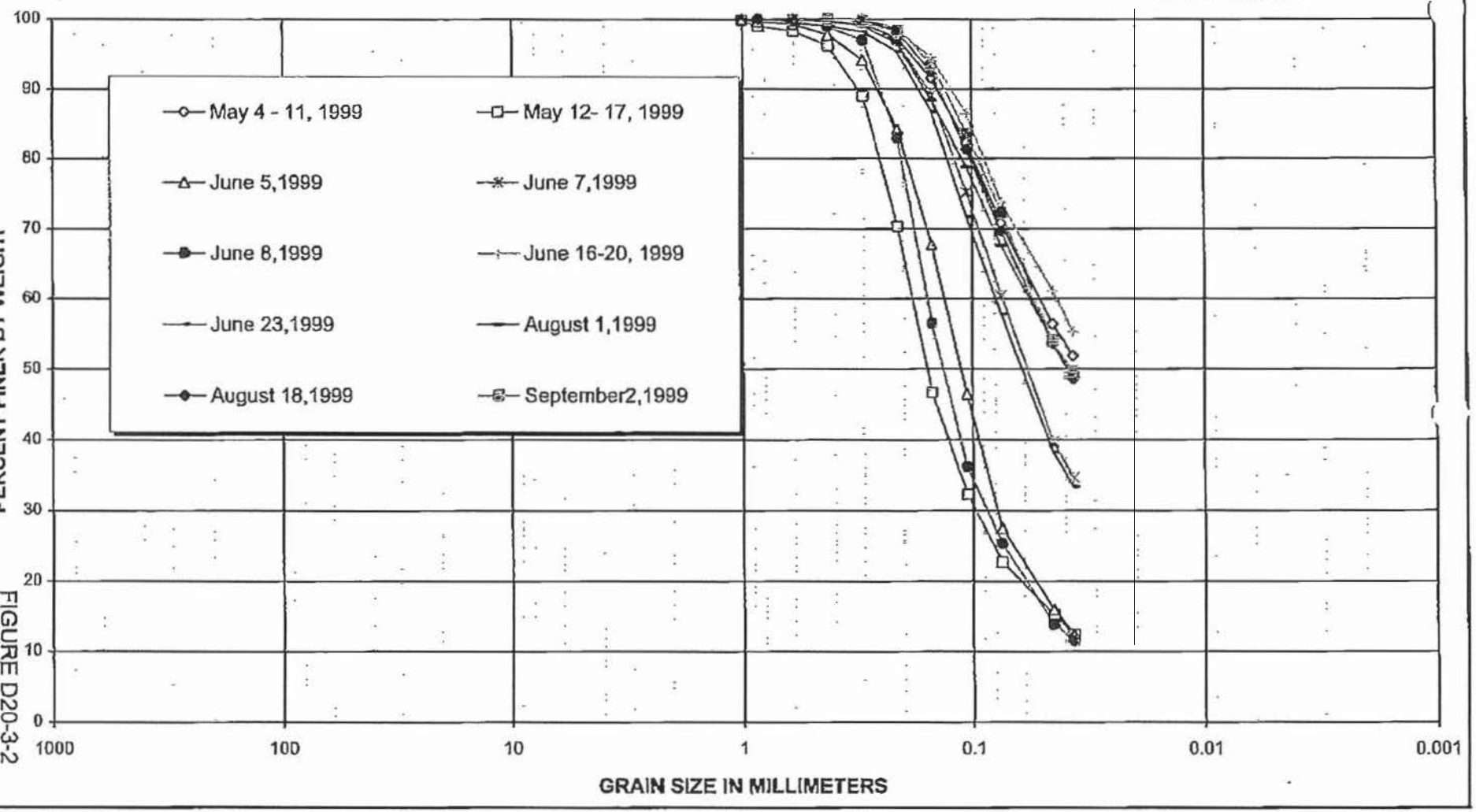


FIGURE D20-3-2

SEP.28.1999 9:08AM INVIRO FULL FILING NO.045 P.32/42

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SEP 28 '99 09:13

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 4 OVERFLOW GRADATIONS

ANA

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET: 1 of 1
		PERIOD: 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116210
MATERIAL :	D10-4 OVERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.020	0.010	0.005	0.002	
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #4			100.00	100.00	99.70	98.10	89.70	67.10	44.30	28.50	16.10	13.50	-	-	-	-	-
May 12- 17, 1999	Cyclone #4		100.0	98.60	97.80	95.50	88.40	70.20	49.30	34.00	25.20	14.40	12.30	-	-	-	-	-
May 27- 30, 1999	Cyclone #4		100.0	99.7	99.2	97.8	94.0	77.0	52.6	34.2	23.0	15.1	12.4	-	-	-	-	-
May 31- June 2, 1999	Cyclone #4		100.0	99.5	99.1	97.6	94.0	84.4	70.8	61.1	55.0	50.5	48.7	-	-	-	-	-
June16-20, 1999	Cyclone #4				100.0	99.8	99.6	98.4	93.7	83.7	68.9	55.8	49.9	-	-	-	-	-
June 23,1999	Cyclone #4			100.0	99.8	99.6	99.3	98.1	93.2	82.5	70.5	52.1	46.9	-	-	-	-	-
July 3,1999	Cyclone #4				100.0	99.9	99 8	99.3	95.4	86.6	76.2	57.9	53.2	-	-	-	-	-
July 6,1999	Cyclone #4		100.0	99.7	98.6	93.3	80.6	60.6	44.4	33.1	25.5	16.7	15.2	-	-	-	-	-
July 25,1999	Cyclone #4		100.0	99.9	99.9	99.8	99.7	98.9	95.8	87.6	76.9	58.8	51.7	-	-	-	-	-
August 1,1999	Cyclone #4			100.0	99.9	99.8	99.2	97.0	89.7	80.5	69.3	56.5	50.7	-	-	-	-	-
August 16,1999	Cyclone #4		100.0	99.9	99.9	99.8	99.3	96.5	89.5	78.2	66.6	51.8	45.0	-	-	-	-	-
August 30,1999	Cyclone #4		100.0	99.9	99.7	97.0	88.4	65.9	45.4	32.3	24.3	16.1	13.2					
September2,1999	Cyclone #4		100.0	99.8	99.7	99.3	98.1	93.5	84.3	72.5	61.7	46.2	42.4					
	MEDIAN	#NUM!	100.0	99.9	99.8	99.6	98.1	93.5	84.3	72.5	61.7	50.5	45.0	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.9	99.8	99.3	95.8	87.6	76.9	58.8	53.2	-	-	-	-	-
	MINIMUM	0.0	100.0	98.6	97.8	93.3	80.6	60.6	44.4	32.3	23.0	14.4	12.3	-	-	-	-	-

Notes: 1) These are 100% limits.

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MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-4 OVERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
CONSULTING ENGINEERS

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

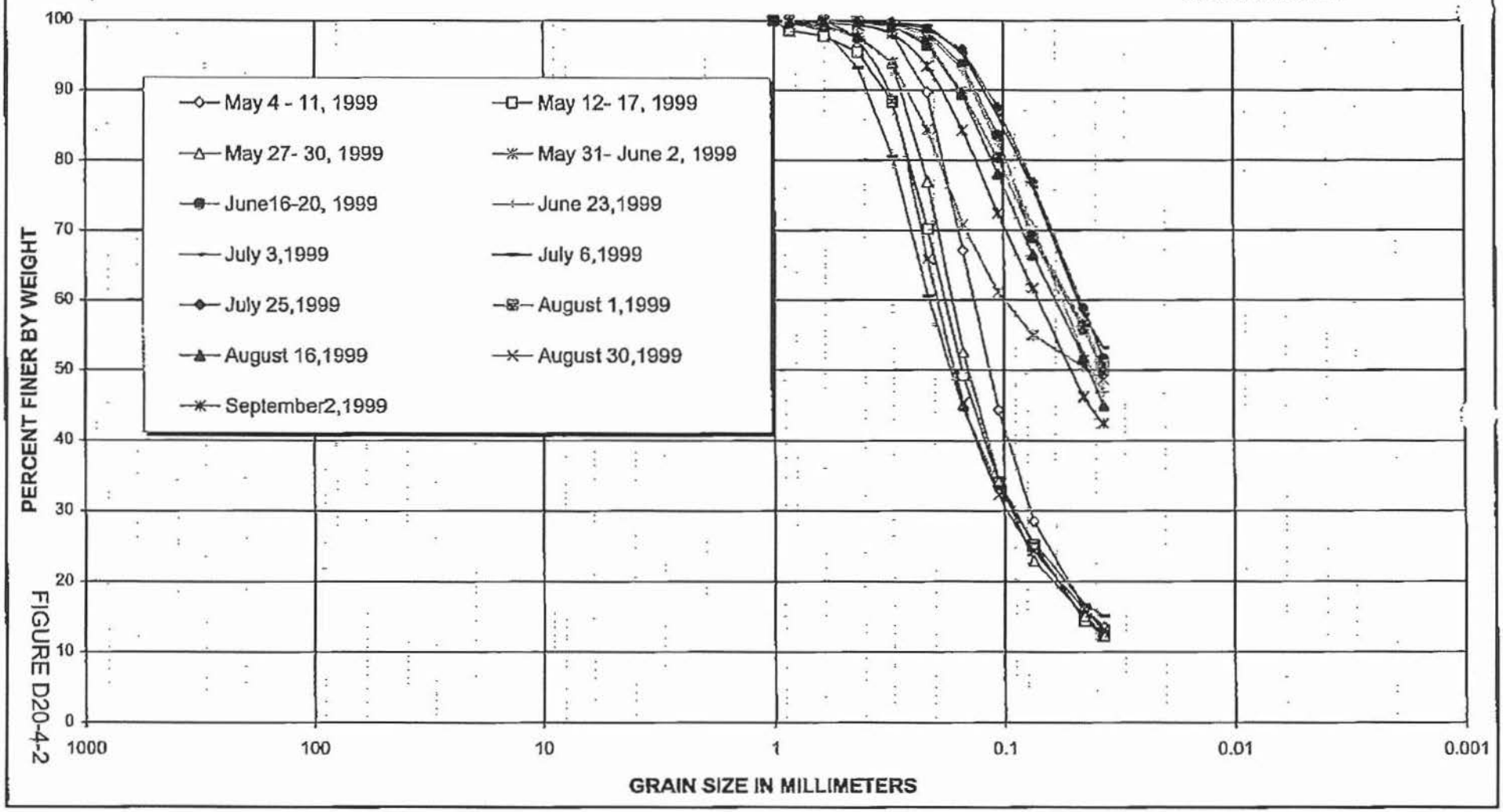


FIGURE D20-4-2

SEP 28 '99 09:13
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250 790 2268 PAGE.033

SEP 28 '99 09:13

SEP.28.1999 9:07AM MOUNT POLLY MINING NO.813 P.34/49

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 5 OVERFLOW GRADATIONS

#N/A

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 11162/10
MATERIAL :	D20-5 OVERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	d
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
June 16 - 20, 1999	Cyclone #5					100.00	99.88	98.68	93.30	82.75	65.63	51.65	46.00	-	-	-	-	-
June 23,1999	Cyclone #5			100.00	99.70	99.28	97.98	93.70	83.88	70.00	57.68	40.98	36.75	-	-	-	-	-
July 3,1999	Cyclone #5		100.0	99.98	99.95	99.90	99.65	98.48	93.63	83.90	73.08	56.03	51.55	-	-	-	-	-
July 6,1999	Cyclone #5		100.0	99.95	99.90	99.85	99.70	97.58	88.60	72.58	59.50	42.93	39.13	-	-	-	-	-
July 8-11, 1999	Cyclone #5		100.0	99.95	99.85	99.68	99.18	96.38	88.40	75.85	64.25	44.03	42.20	-	-	-	-	-
July 29,1999	Cyclone #5		100.0	99.78	99.76	99.59	98.64	94.94	86.93	76.50	63.75	47.50	43.25	-	-	-	-	-
August30,1999	Cyclone #5				100.00	99.95	99.43	95.63	86.38	73.90	62.60	45.10	41.05					
	MEDIAN	#NUM!	100.0	100.0	99.9	99.9	99.4	96.4	88.4	75.9	63.8	45.1	42.2	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	100.0	99.9	98.7	93.6	83.9	73.1	56.0	51.6	-	-	-	-	-
	MINIMUM	0.0	100.0	99.8	99.7	99.3	98.0	93.7	83.9	70.0	57.7	41.0	36.8	-	-	-	-	-

Notes: 1) These are 100% limits.

INVESTIGATION KCB-2 Page 297 of 500
250 790 2268 PAGE.034

File: d20-5 Summary Sheet: OVER PLOT Date: 21/09/99 Time Plotted: 9:20 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-5 OVERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

SIEVE OPENING in mm

PERCENT FINER BY WEIGHT

100
90
80
70
60
50
40
30
20
10
0

- June 16 - 20, 1999
- June 23,1999
- July 3,1999
- July 6,1999
- July 8-11, 1999
- July 29,1999
- August30,1999

1000 100 10 1 0.1 0.01 0.001

GRAIN SIZE IN MILLIMETERS

FIGURE D20-5-2

SEP 28 '99 09:14

SEP.28.1999 9:07AM MOUNT POLLY MINING NO.813 P.36/49

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 6 OVERFLOW GRADATIONS

#N/A

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PROJECT #: 1116210
MATERIAL : D20-6 OVERFLOW TAILINGS SAMPLES		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
June 16 - 20, 1999	Cyclone #6				100.00	99.93	99.35	97.00	90.00	78.33	61.95	47.98	42.35	-	-	-	-	-
June 23,1999	Cyclone #6		100.0	99.80	99.13	98.53	97.75	96.68	93.58	85.60	74.73	56.13	50.88	-	-	-	-	-
June 28,1999	Cyclone #6					100.00	99.98	99.10	93.30	80.55	66.73	44.10	38.15	-	-	-	-	-
July 6,1999	Cyclone #6					100.00	99.90	99.58	97.98	91.80	81.38	62.28	57.63	-	-	-	-	-
July 25,1999	Cyclone #6		100.0	96.15	95.83	95.30	94.63	93.15	89.35	80.70	71.05	58.45	48.88	-	-	-	-	-
August 1,1999	Cyclone #6		100.0	99.98	99.97	99.90	99.38	97.17	89.93	80.23	67.80	53.15	45.00	-	-	-	-	-
August 5,1999	Cyclone #6		100.0	99.90	99.85	99.68	99.63	96.80	91.85	83.38	73.20	61.65	49.85	-	-	-	-	-
August 16,1999	Cyclone #6			100.00	99.98	99.95	99.73	98.08	93.13	82.33	69.70	53.63	44.98	-	-	-	-	-
August30,1999	Cyclone #6		100.0	99.98	99.95	99.90	99.53	96.45	87.28	73.40	60.15	39.53	34.78					
September2,1999	Cyclone #6		100.0	99.63	99.23	96.45	87.58	66.13	46.98	32.75	23.85	14.35	12.70					
	MEDIAN	#NUM!	100.0	99.9	99.9	99.9	99.5	96.9	90.9	80.6	68.8	53.4	45.0	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	100.0	100.0	99.6	98.0	91.8	81.4	62.3	57.6	-	-	-	-	-
	MINIMUM	0.0	100.0	96.2	95.8	95.3	87.6	66.1	47.0	32.8	23.9	14.4	12.7	-	-	-	-	-

Notes: 1) These are 100% limits.

INVESTIGATION KCB-2 Page 299 of 500

250 790 2268 PAGE.036

File: d20-6 Summary Sheet: OVER PLOT Date: 21/09/99 Time Plotted: 9:21 AM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-6 OVERFLOW TAILINGS SAMPLES

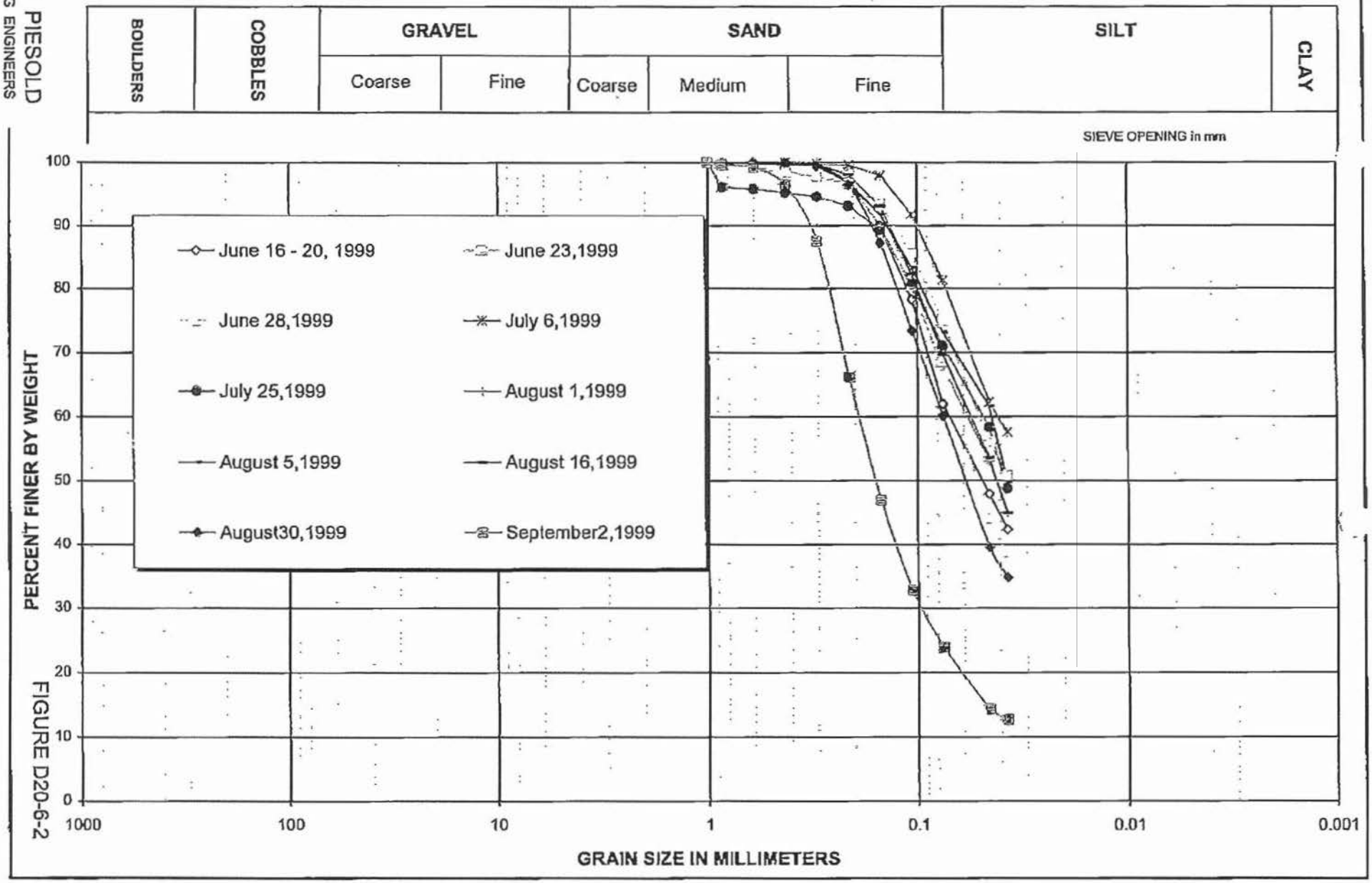
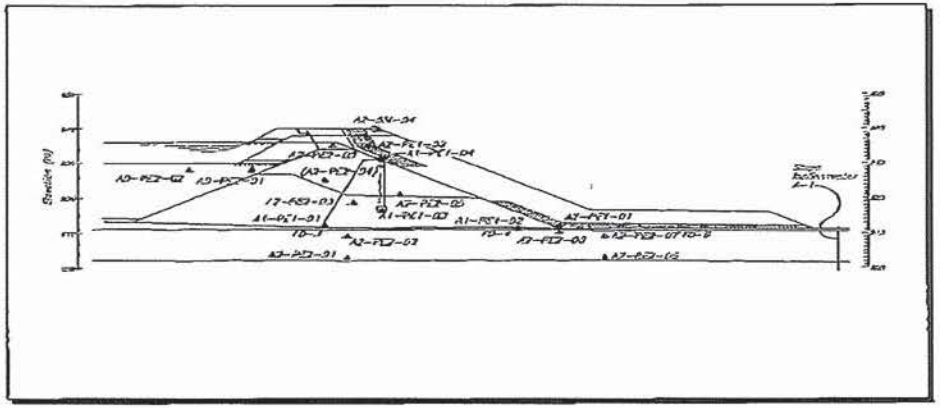


FIGURE D20-6-2

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS



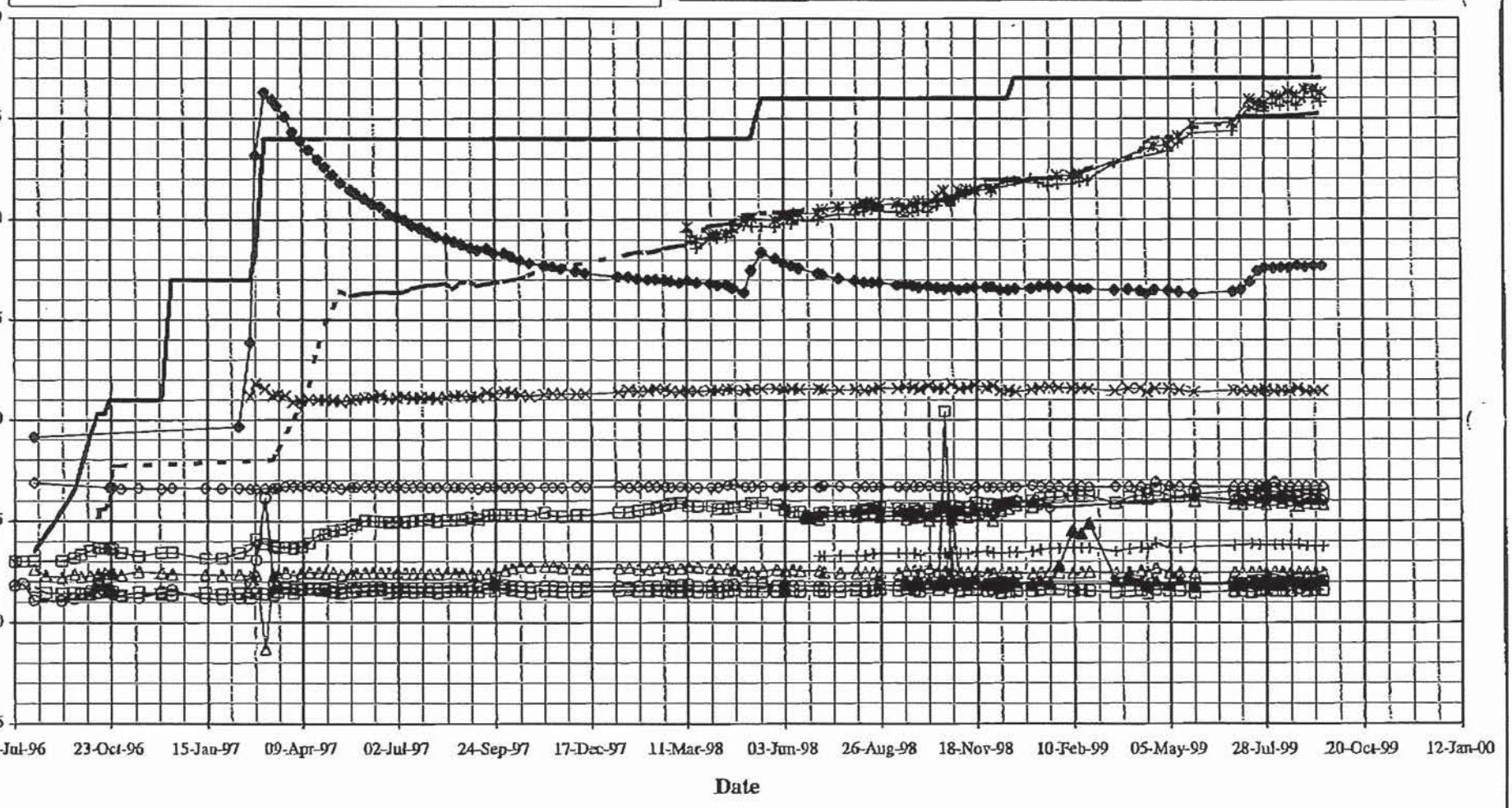
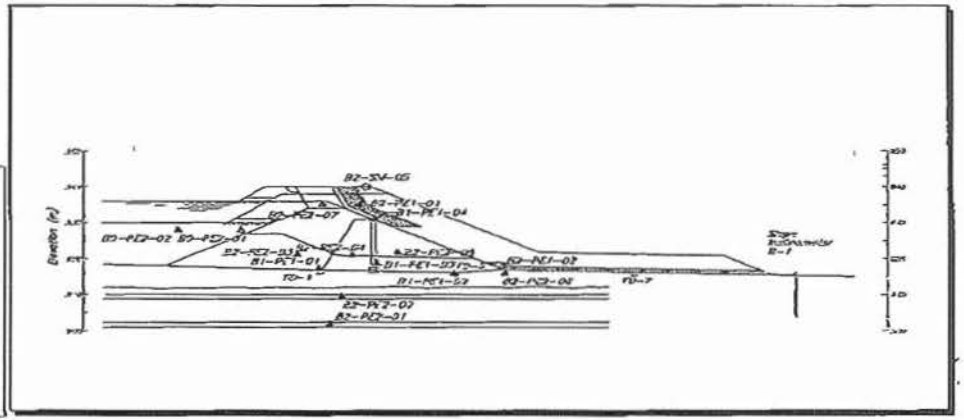


FIGURE 1

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS



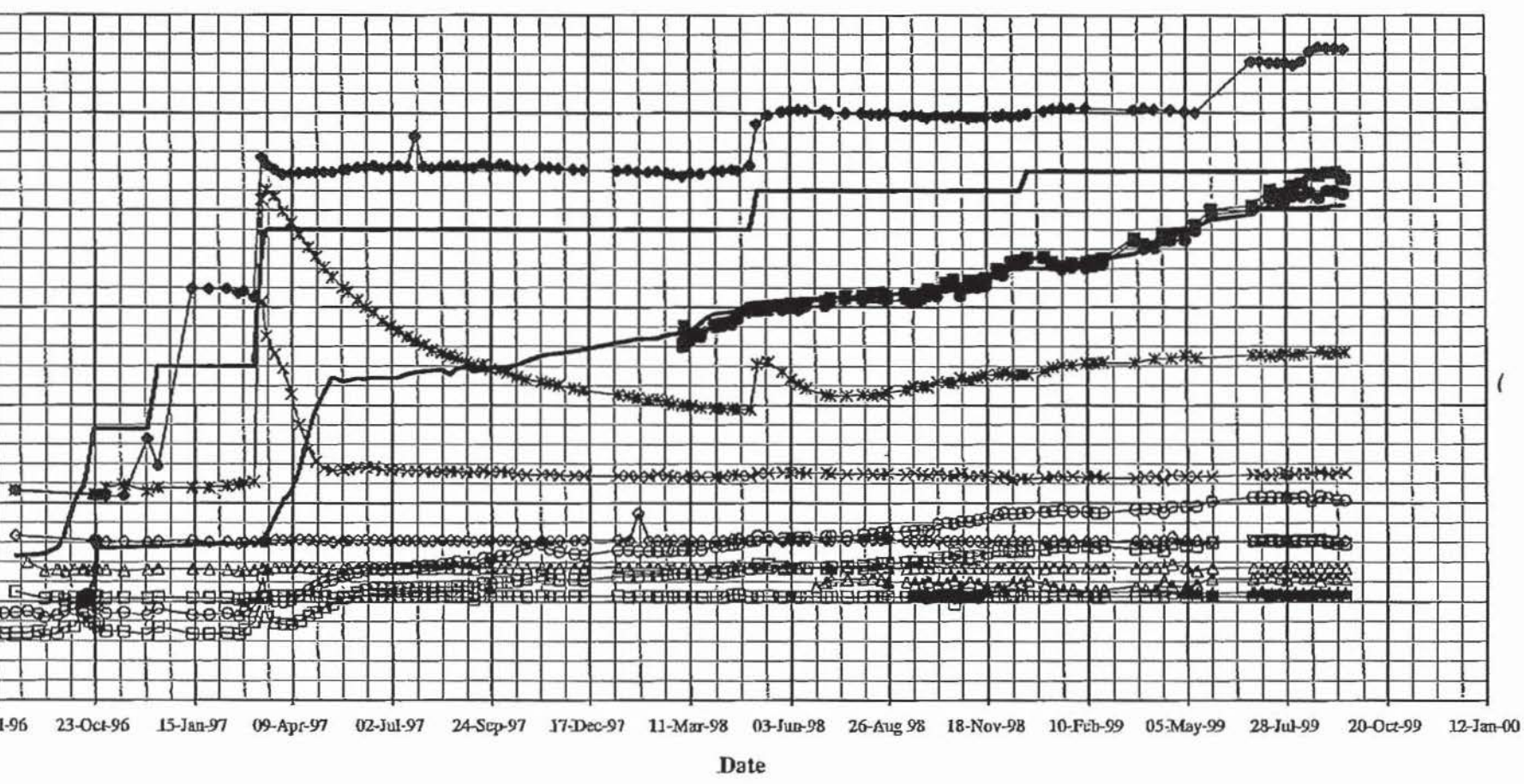
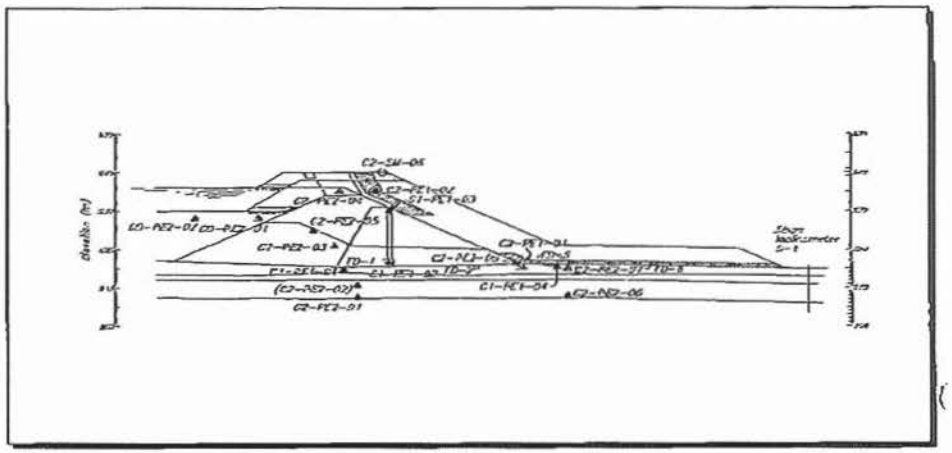


FIGURE 2

SEP 28 '99 09:16
SEP.28.1999 9:09AM MOUNT POLLEY MINING NO.813 P.40/43
INVESTIGATION-ICB-2-Page 303 of 500 PAGE.040

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS



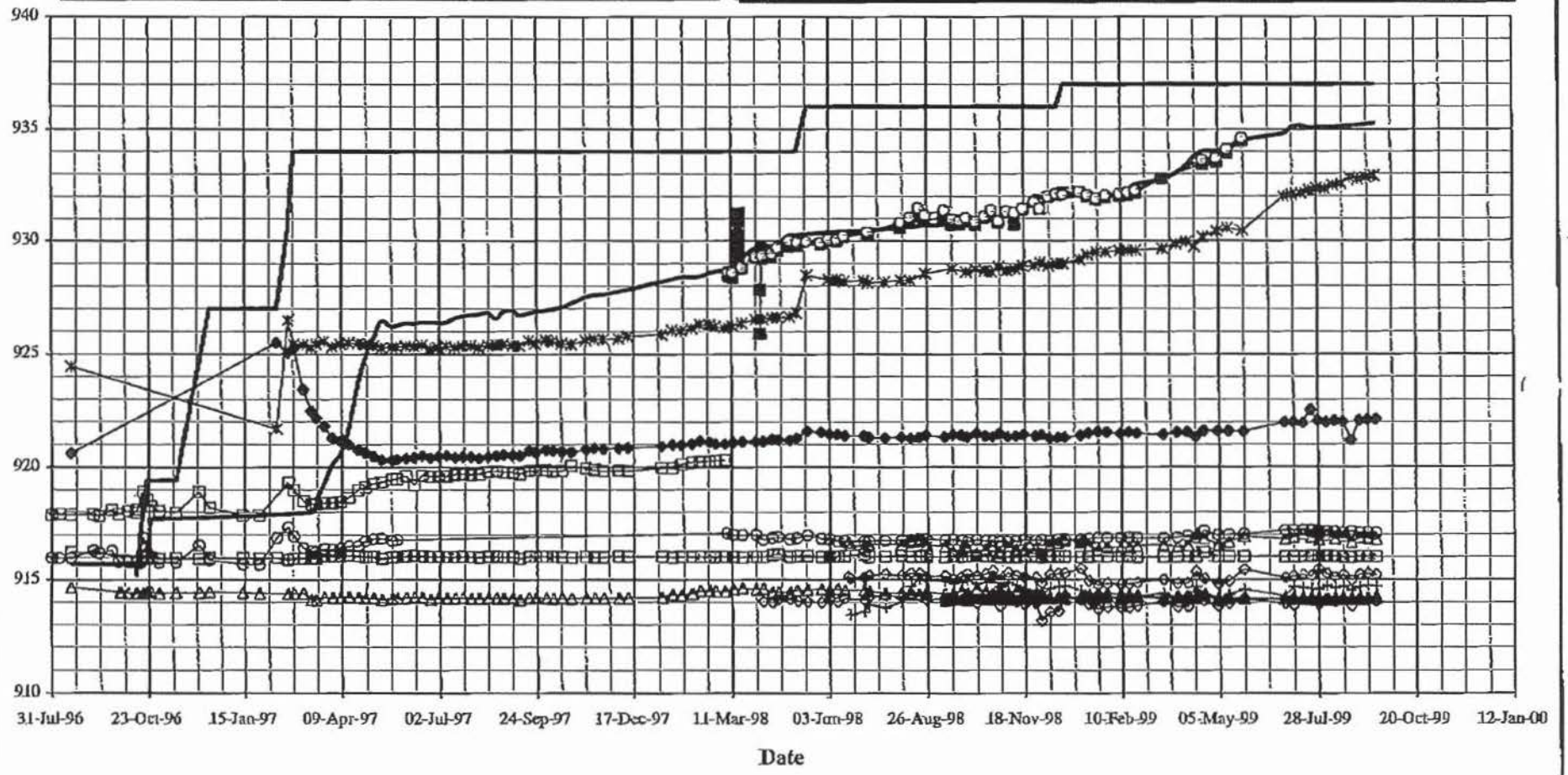
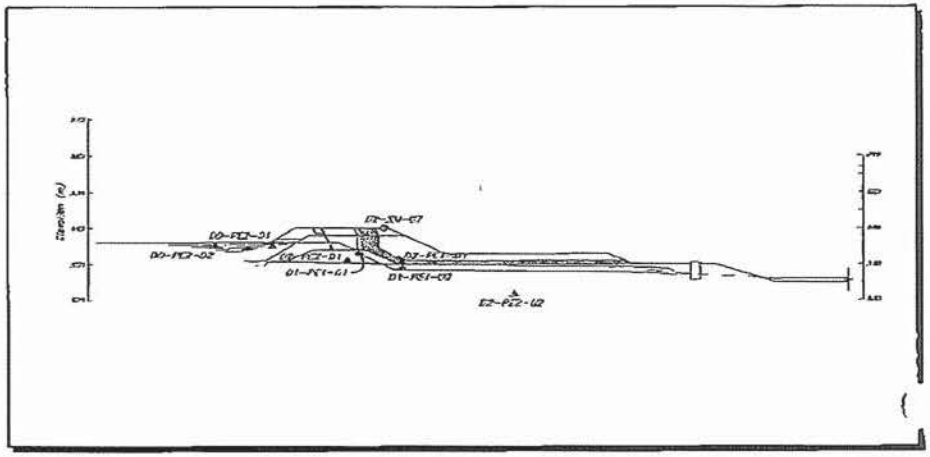


FIGURE 3

SEP 28 '99 09:16
SEP.28.1999 5:05PM INUVIK FULLY FUNDING NO.015 P.41/42
INVESTIGATION 98-2-2006304 PAGE.041

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS



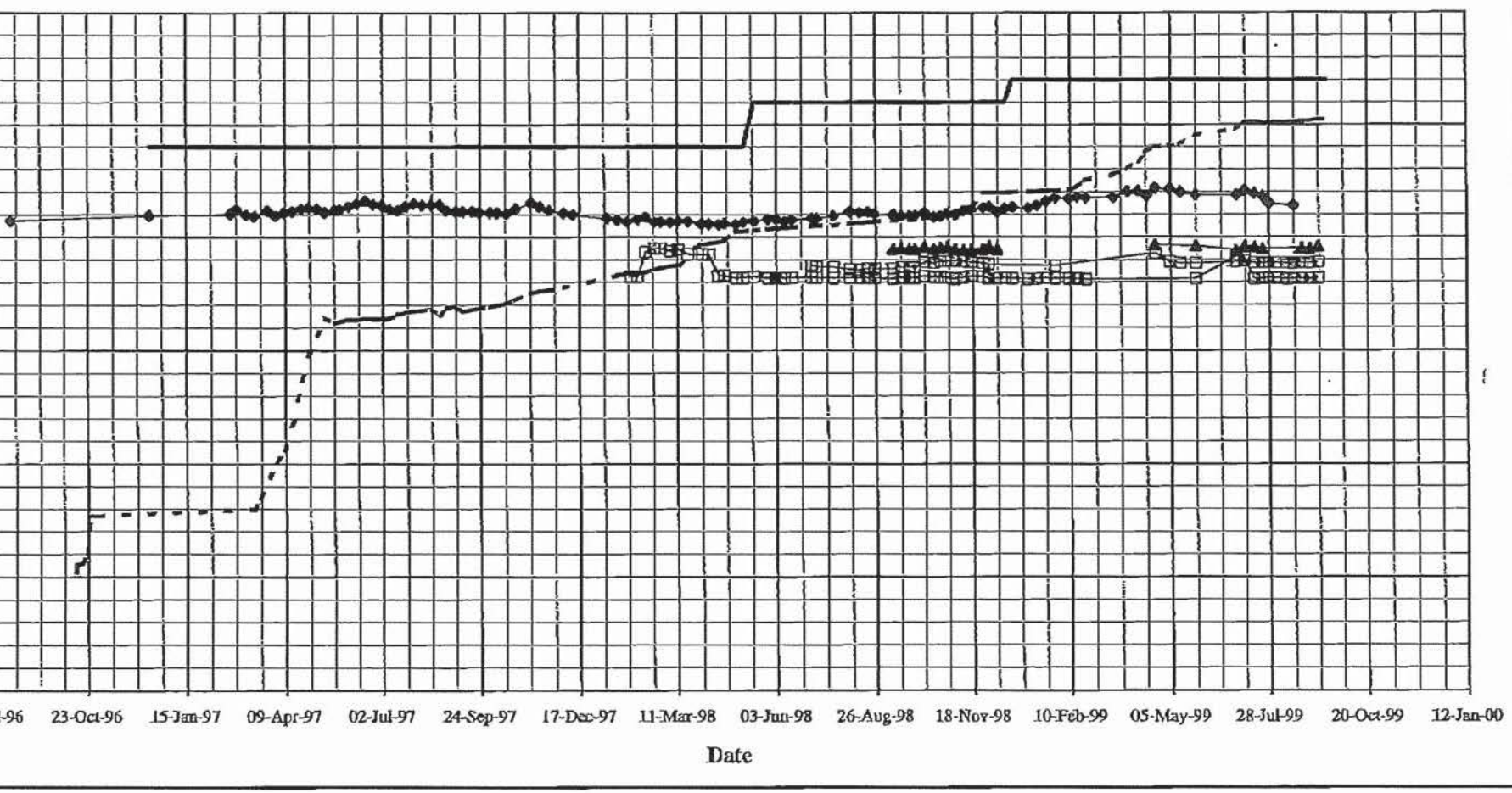


FIGURE 4

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

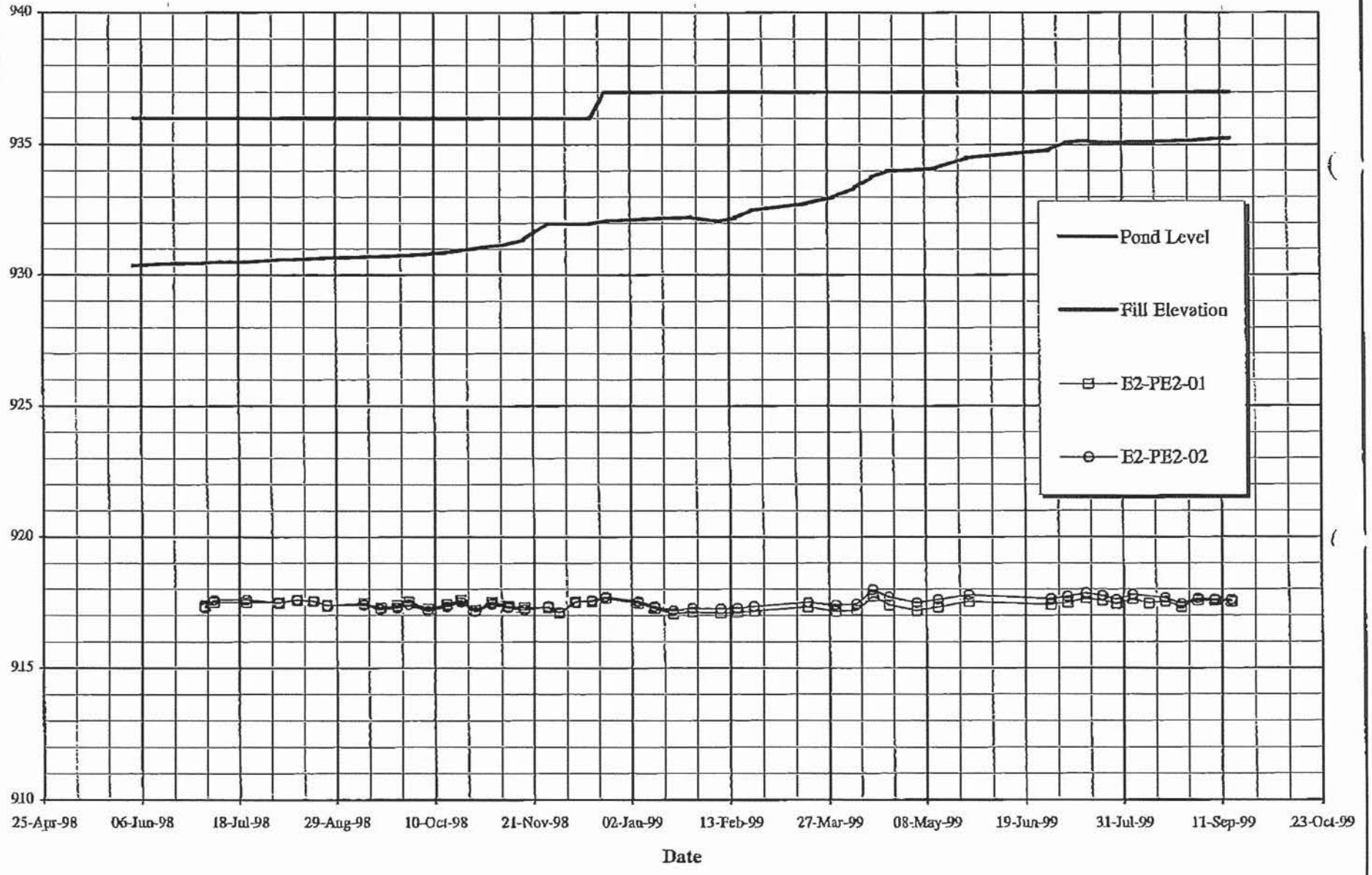


FIGURE 5

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE A FOUNDATION PIEZOMETERS

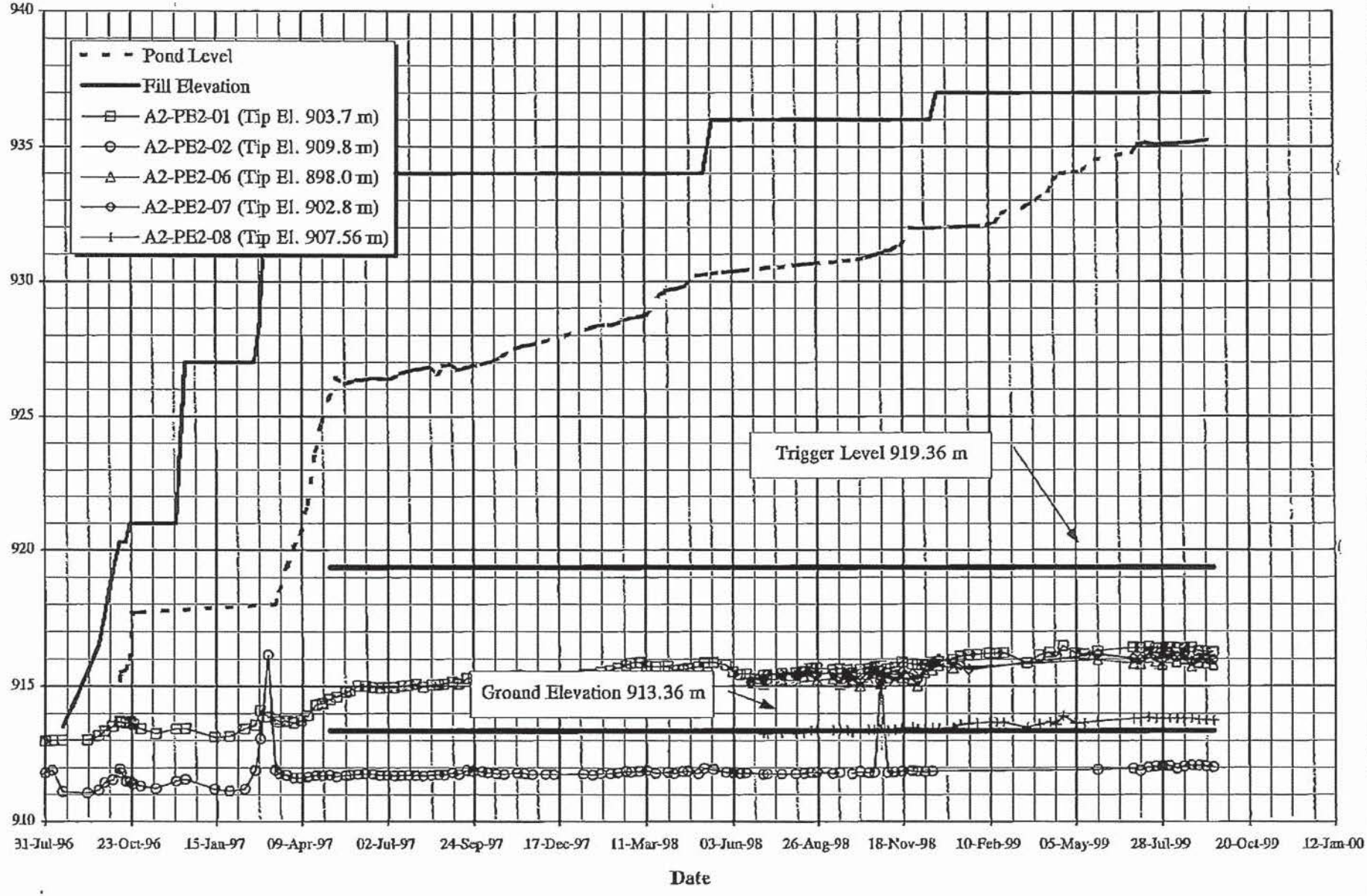


FIGURE 6

KNIGHT PIESOLD CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE B FOUNDATION PIEZOMETERS

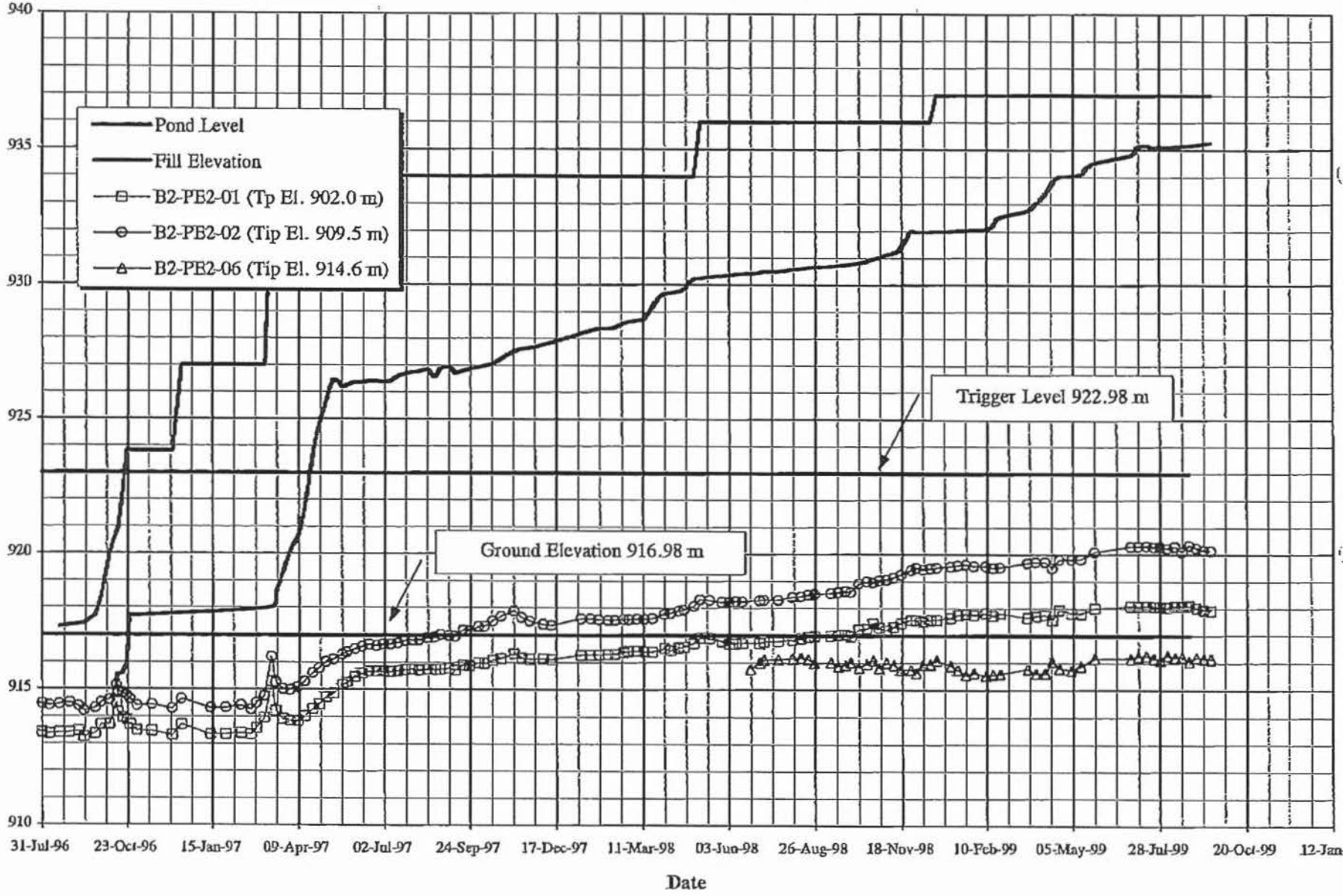


FIGURE 7

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C FOUNDATION PIEZOMETERS

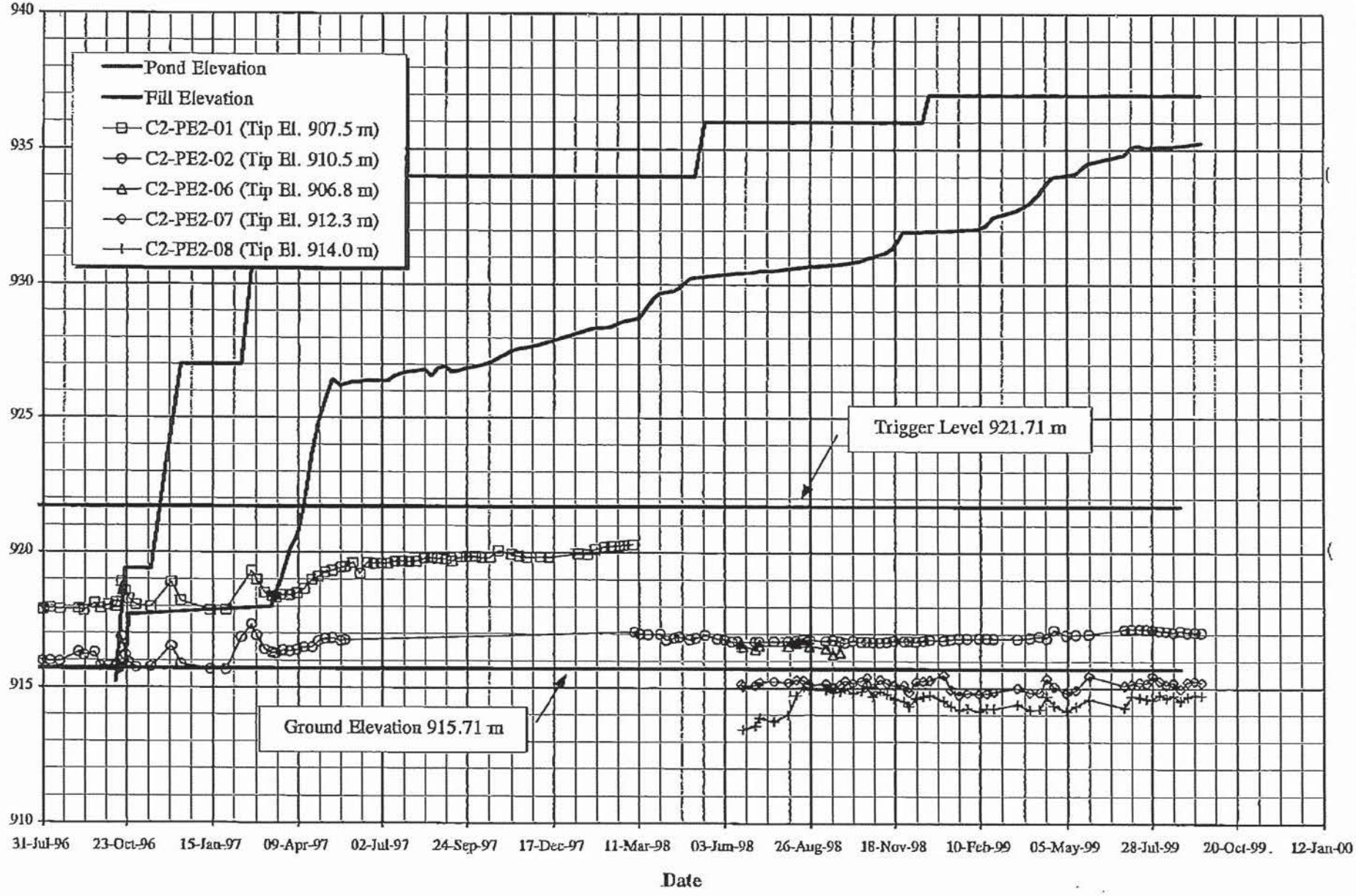


FIGURE 8

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE D FOUNDATION PIEZOMETERS

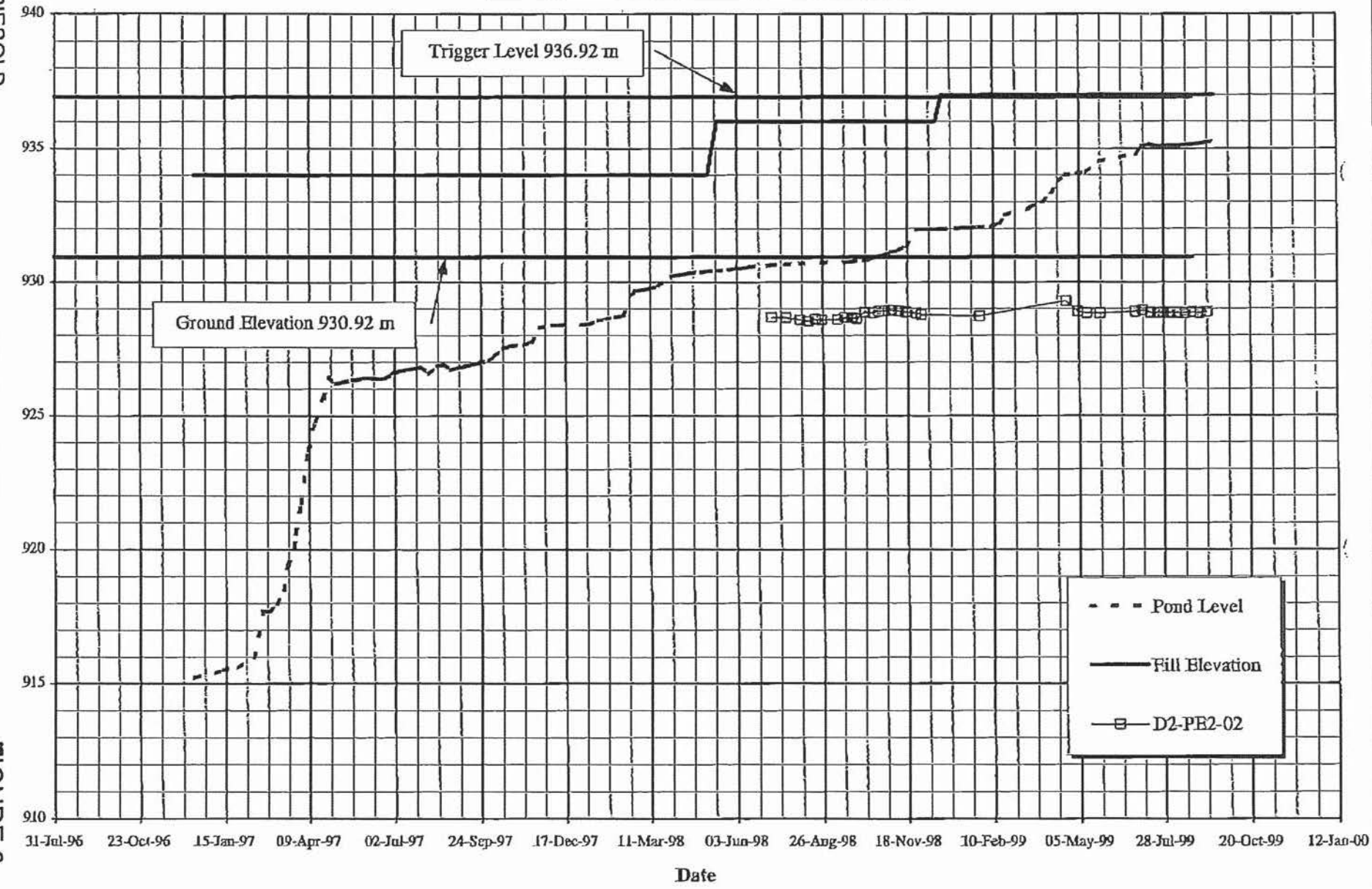


FIGURE 9

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE E FOUNDATION PIEZOMETERS

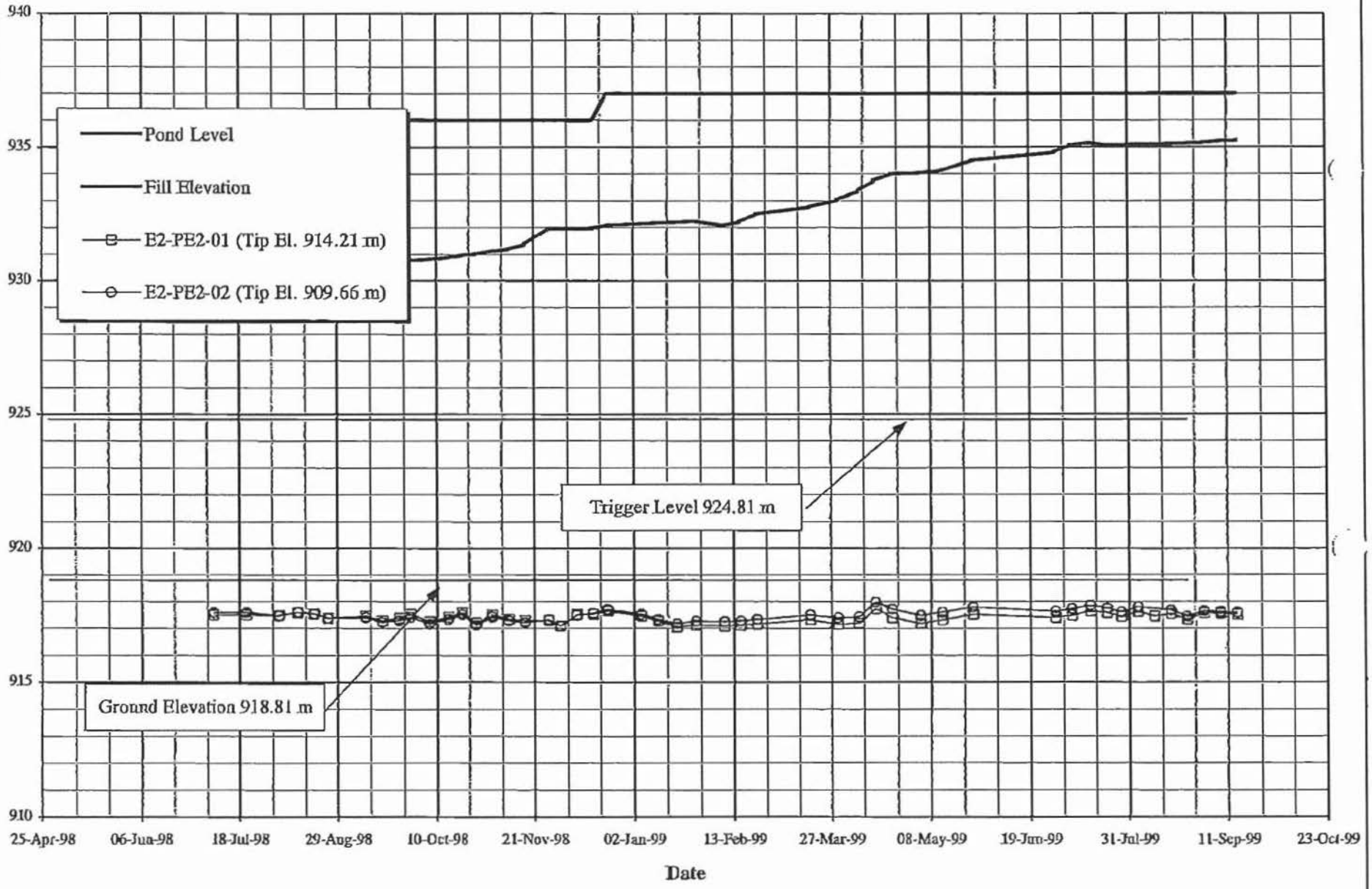


FIGURE 10

SEP 28 '99 09:19

SEP.28.1999 9:12AM MOUNT POLLY MINING NO.813 P.48/49

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

SUMMARY OF DRAIN FLOW DATA

J:\ENG\DATA\Engineer\General\Jim\Weekly Flow Readings\[Edmm.xls]Data

Note: The elevation for the top of the casing for Ground Water Well GW96-9 is approximately 916.78 m. The ground elevation is 916.18 m.

September 23, 1999

SAMPLING DATE	FD-1			FD-2			FD-3			FD-4			FD-5			Total Flow Rate			Pond El (m)	GW96-9 (GW Well) Elev. Above Top of Casing of well 9 (m)
	Flow Rate			Flow Rate			Flow Rate			Flow Rate			Flow Rate							
Date	FD1(l/min)	(l/sec)	Comments	FD2(l/min)	(l/sec)	Comments	FD3(l/min)	(l/sec)	Comments	FD4(l/min)	(l/sec)	Comments	FD5(l/min)	(l/sec)	Comments	Tot(l/min)	(l/sec)	Comments	Pond Elev.	
28-Aug-96	4.62	0.08	Clear	0.49	0.01	Clear	5.37	0.09	Clear	1.77	0.03	Tr. cloudy	-	-	-	12.25	0.20	FD-3, FD-4 incomplete		
01-Sep-96	3.55	0.06	Clear	0.82	0.01	Clear	6.56	0.11	Cloudy	1.25	0.02	V. Cloudy	-	-	-	12.18	0.20	FD-3, FD-4 incomplete		
06-Sep-96	2.60	0.04	Clear	0.62	0.01	Clear	2.71	0.05	Clear	0.93	0.02	Cloudy	-	-	-	6.86	0.11	FD-3, FD-4 incomplete		
10-Sep-96	2.04	0.03	Clear	0.66	0.01	Clear	2.17	0.04	Clear	0.81	0.01	Clear	-	-	-	5.68	0.09	FD-3, FD-4 incomplete		
27-Sep-96	3.10	0.05	Clear	0.70	0.01	Clear	3.10	0.05	Clear	1.00	0.02	Clear	-	-	-	7.90	0.13	FD-3, FD-4 incomplete		
05-Oct-96	4.94	0.08	Clear	0.77	0.01	Clear	4.33	0.07	Tr. cloudy	6.16	0.10	Tr. cloudy	-	-	-	16.20	0.27	FD-3, FD-4 incomplete		
12-Oct-96	3.90	0.07	Clear	1.00	0.02	Clear	3.50	0.06	Clear	1.80	0.03	Clear	-	-	-	10.20	0.17	FD-3, FD-4 incomplete	915.20	
13-Oct-96	4.20	0.07	Clear	0.90	0.02	Clear	13.50	0.23	Clear	1.70	0.03	Clear	-	-	-	20.30	0.34	FD-3 complete, FD-4 incomplete	915.50	
14-Oct-96	3.80	0.06	Clear	1.00	0.02	Clear	15.00	0.25	Clear	5.40	0.09	Clear	-	-	-	25.20	0.42	FD-3 complete, FD-4 complete	915.23	
17-Oct-96	5.90	0.10	Clear	0.80	0.01	Clear	16.60	0.28	Clear	5.40	0.09	Clear	-	-	-	28.70	0.48		915.44	
18-Oct-96	9.80	0.16	Clear	1.00	0.02	Clear	26.10	0.44	Clear	9.00	0.15	Clear	-	-	-	45.90	0.77		915.50	
22-Oct-96	6.20	0.10	Clear	0.80	0.01	Clear	20.40	0.34	Clear	5.90	0.10	Clear	-	-	-	33.30	0.56		915.63	
27-Oct-96	6.00	0.10	Clear	1.50	0.03	Clear	24.20	0.40	Clear	6.40	0.11	Clear	-	-	-	38.10	0.64		916.00	
15-Mar-97	3.89	0.06	Clear	1.35	0.02	Clear	8.91	0.15	Clear	3.19	0.05	Clear	-	-	-	17.34	0.29	pig installed, sump pumped out	918.00	
16-Mar-97	3.48	0.06	Clear	1.15	0.02	Clear	8.57	0.14	Clear	2.87	0.05	Clear	-	-	-	15.88	0.26	pig installed, sump pumped out	918.20	
02-Apr-97	2.10	0.04	Clear	1.12	0.02	Clear	8.40	0.14	Clear	3.46	0.06	Clear	-	-	-	15.08	0.25	pig installed, sump pumped out	920.27	
23-Apr-97	4.14	0.07	Clear	0.94	0.02	Clear	11.56	0.19	Clear	2.35	0.04	Clear	-	-	-	18.99	0.32	pig installed, sump pumped out	923.70	
24-Apr-97	3.16	0.05	Clear	0.84	0.01	Clear	12.73	0.21	Clear	2.06	0.03	Clear	-	-	-	18.78	0.31	pig installed, sump pumped out	923.75	
29-Apr-97	2.90	0.05	Clear	0.59	0.01	Clear	10.32	0.17	Clear	1.71	0.03	Clear	-	-	-	15.52	0.26	pig installed, sump pumped out	924.81	
08-May-97	3.60	0.06	Clear	0.76	0.01	Clear	14.35	0.24	Clear	1.92	0.03	Clear	-	-	-	20.43	0.34	pig out, pumped down	925.86	
13-May-97	4.04	0.07	Clear	0.79	0.01	Clear	14.85	0.25	Clear	1.95	0.03	Clear	-	-	-	21.63	0.36	pig out, pumped down	926.43	
20-May-97	4.11	0.07	Clear	0.77	0.01	Clear	17.09	0.28	Clear	1.85	0.03	Clear	-	-	-	23.82	0.40	pig out, pumped down	926.20	
28-May-97	3.99	0.07	Clear	0.80	0.01	Clear	15.71	0.26	Clear	1.87	0.03	Clear	-	-	-	22.37	0.37	pig out, pumped down	926.25	
10-Jun-97	4.15	0.07	Clear	0.82	0.01	Clear	18.35	0.31	Clear	1.89	0.03	Clear	-	-	-	25.21	0.42	pig out, pumped down	926.34	
17-Jun-97	4.10	0.07	Clear	0.78	0.01	Clear	19.93	0.33	Clear	1.85	0.03	Clear	-	-	-	26.66	0.44	pig out, pumped down	926.40	
24-Jun-97	3.97	0.07	Clear	0.84	0.01	Clear	17.24	0.29	Clear	1.83	0.03	Clear	-	-	-	23.88	0.40	pig out, pumped down	926.39	
01-Jul-97	3.93	0.07	Clear	0.69	0.01	Clear	14.72	0.25	Clear	1.73	0.03	Clear	-	-	-	21.07	0.35	pig out, pumped down	926.38	
08-Jul-97	4.05	0.07	Clear	0.72	0.01	Clear	18.07	0.30	Clear	1.88	0.03	Clear	-	-	-	24.72	0.41	pig out, pumped down	926.39	
15-Jul-97	4.11	0.07	Clear	0.88	0.01	Clear	15.38	0.26	Clear	2.24	0.04	Clear		-	-	22.61	0.38	pig out, pumped down	926.57	
22-Jul-97	4.06	0.07	Clear	0.91	0.02	Clear	15.83	0.26	Clear	2.05	0.03	Clear	-	-		22.85	0.38	pig out, pumped down	926.66	
29-Jul-97	4.40	0.07	Clear	0.85	0.01	Clear	20.43	0.34	Clear	2.11	0.04	Clear	-	-	-	27.64	0.46	pig out, pumped down	926.73	
05-Aug-97	4.13	0.07	Clear	0.79	0.01	Clear	18.35	0.31	Clear	1.97	0.03	Clear	-	-	-	25.24	0.42	pig out, pumped down	926.75	
13-Aug-97	4.12	0.07	Clear	0.78	0.01	Clear	24.19	0.40	Clear	2.02	0.03	Clear	-	-	-	31.11	0.52	pig out, pumped down	926.82	
20-Aug-97	4.13	0.07	Clear	0.76	0.01	Clear	15.95	0.27	Clear	1.80	0.03	Clear	-		-	22.64	0.38	pig out, pumped down	926.75	
26-Aug-97	4.62	0.08	Clear	0.76	0.01	Clear	18.75	0.31	Clear	1.92	0.03	Clear	-	-	-	26.05	0.43	pig out, pumped down	926.86	
03-Sep-97	4.43	0.07	Clear	0.76	0.01	Clear	16.95	0.28	Clear	1.76	0.03	Clear	-	-	-	23.95	0.40	pig out, pumped down	926.93	
09-Sep-97	4.57	0.08	Clear	0.75	0.01	Clear	16.04	0.27	Clear	1.81	0.03	Clear	-	-	-	23.17	0.39	pig out, pumped down	926.71	
17-Sep-97	4.62	0.08	Clear	0.77	0.01	Clear	16.71	0.28	Clear	1.78	0.03	Clear	-	-	-	23.88	0.40	pig out, pumped down	926.88	
23-Sep-97	4.64	0.08	Clear	0.78	0.01	Clear	17.75	0.30	Clear	1.83	0.03	Clear	-	-	-	25.00	0.42	pig out, pumped down	926.85	
02-Oct-97	4.78	0.08	Clear	0.82	0.01	Clear	16.76	0.28	Clear	1.86	0.03	Clear	-	-	-	24.22	0.40	pig out, pumped down	926.92	0.055
08-Oct-97	4.69	0.08	Clear	0.81	0.01	Clear	16.01	0.27	Clear	1.95	0.03	Clear	-	-	-	23.46	0.39	pig out, pumped down	926.97	0.065
16-Oct-97	5.14	0.09	Clear	1.11	0.02	Clear	17.86	0.30	Clear	2.31	0.04	Clear	-	-	-	26.42	0.44	pig out, pumped down	927.06	0.095
24-Oct-97	5.13	0.09	Clear	0.92	0.02	Clear	16.23	0.27	Clear	1.98	0.03	Clear	-	-	-	24.26	0.40	pig out, pumped down	927.23	0.095
05-Nov-97	5.51	0.09	Clear	1.20	0.02	Clear	17.70	0.30	Clear	2.39	0.04	Clear	-	-	-	26.80	0.45	pig out, pumped down	927.51	Frozen
13-Nov-97	4.90	0.08	Clear	0.63	0.01	Clear	18.38	0.31	Clear	1.87	0.03	Clear	-		-	26.00	0.43	pig out, pumped down	927.60	Frozen
21-Nov-97	4.37	0.07	Clear	0.76	0.01	Clear	17.91	0.30	Clear	1.79	0.03	Clear	-	-	-	24.83	0.41	pig out, pumped down	927.63	Frozen
28-Nov-97	4.14	0.07	Clear	0.77	0.01	Clear	18.18	0.30	Clear	1.85	0.03	Clear	-	-	-	24.94	0.42	pig out, pumped down	927.65	Frozen
04-Dec-97	4.03	0.07	Clear	0.85	0.01	Clear	17.67	0.29	Clear	1.78	0.03	Clear	-	-	-	24.33	0.41	pig out, pumped down	927.75	Frozen
02-Jan-98	3.81	0.06	Clear	0.74	0.01	Clear	16.30	0.27	Clear	1.73	0.03	Clear	-		-	22.58	0.38	pig out, pumped down	928.10	Frozen

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SEP 28 '99 09:19

SEP.28.1999 9:12AM MOUNT POLLY MINING NO.813 P.49/49

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

SUMMARY OF DRAIN FLOW DATA

B:\ENG\DATA\Environmental\Water\Flow Readings\[Mt-mon. xls]Data

Note: The elevation for the top of the casing for Ground Water Well GW96-9 is approximately 916.78 m. The ground elevation is 916.18 m.

September 21, 1999

SAMPLING DATE	FD-1			FD-2			FD-3			FD-4			FD-5			Total Flow Rate			Pond El (m)	GW96-9 (GW Well)
	Flow Rate			Flow Rate			Flow Rate			Flow Rate			Flow Rate							Elev. Above Top of Casing of well 9 (m)
Date	FD1(l/min)	(l/sec)	Comments	FD2(l/min)	(l/sec)	Comments	FD3(l/min)	(l/sec)	Comments	FD4(l/min)	(l/sec)	Comments	FD5(l/min)	(l/sec)	Comments	Tot(l/min)	(l/sec)	Comments	Pond Elev.	
~~28-Jan-98~~	~~3.53~~	~~0.06~~	~~Clear~~	~~0.69~~	~~0.01~~	~~Clear~~	~~16.37~~	~~0.98~~	~~Clear~~	1.77	0.03	Tr Oilsafty	-	-	-	~~12.95~~	~~0.38~~	~~FD-2 still D-droppumping~~	928.25	Frozen
21-Jan-98	3.57	0.06	Clear	0.74	0.01	Clear	16.42	0.27	Clear	1.82	0.03	Clear	-	-	-	22.55	0.38	pig out, needs pumping	928.30	Frozen
08-Apr-98	3.84	0.06	Clear	0.67	0.01	Clear	15.54	0.26	Clear	1.52	0.03	Clear	-	-	-	21.57	0.36	pig out, pond pumped down	929.70	-
17-Apr-98	3.82	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	1.37	0.02	Clear	6.33	0.11	Clear	27.79	0.46	pig out, pond pumped down	929.85	-
25-May-98	3.82	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	1.37	0.02	Clear	6.33	0.11	Clear	27.79	0.46	pig out, pond pumped down	930.10	-
02-Jun-98	3.52	0.06	Clear	0.78	0.01	Clear	15.58	0.26	Clear	1.42	0.02	Clear	6.80	0.11	Clear	28.10	0.47	pig out, pond pumped down	930.36	-
10-Jun-98	3.83	0.06	Clear	0.79	0.01	Clear	14.60	0.24	Clear	1.44	0.02	Clear	7.51	0.13	Clear	28.17	0.47	pig out, pond pumped down	930.39	-
16-Jun-98	3.77	0.06	Clear	0.78	0.01	Clear	16.35	0.27	Clear	1.41	0.02	Clear	7.93	0.13	Clear	30.24	0.50	pig out, pond pumped down	930.42	-
03-Jul-98	3.89	0.06	Clear	0.76	0.01	Clear	16.14	0.27	Clear	2.37	0.04	Clear	12.53	0.21	Clear	35.69	0.59	FD-5 is spilling onto FD-4 providing higher values than normal	930.45	
07-Jul-98	3.71	0.06	Clear	0.72	0.01	Clear	16.00	0.27	Clear	2.22	0.04	Clear	9.66	0.16	Clear	32.34	0.54	negative value is below top of casing	930.50	-0.135
24-Jul-98	3.53	0.06	Clear	0.72	0.01	Clear	15.75	0.26	Clear	1.96	0.03	Clear	8.70	0.15	Clear	30.66	0.51	-	930.58	0.28
12-Aug-98	3.46	0.06	Clear	0.62	0.01	Clear	15.96	0.27	Clear	1.90	0.03	Clear	7.30	0.12	Clear	29.24	0.49	-	930.61	0.33
19-Aug-98	3.17	0.05	Clear	0.56	0.01	Clear	15.83	0.26	Clear	2.26	0.04	Clear	8.08	0.13	Clear	29.90	0.50	-	930.64	-
10-Sep-98	3.60	0.06	Clear	0.57	0.01	Clear	16.35	0.27	Clear	2.03	0.03	Clear	8.02	0.13	Clear	30.57	0.51	-	930.70	-
17-Sep-98	3.53	0.06	Clear	0.63	0.01	Clear	16.42	0.27	Clear	2.20	0.04	Clear	8.52	0.14	Clear	31.30	0.52	-	930.73	-
24-Sep-98	3.62	0.06	Clear	0.64	0.01	Clear	15.64	0.26	Clear	2.06	0.03	Clear	7.77	0.13	Clear	29.73	0.50	-	930.77	-
07-Oct-98	3.72	0.06	Clear	1.05	0.02	Clear	14.22	0.24	Clear	2.36	0.04	Clear	13.39	0.22	Clear	34.74	0.58	positive value is above top of casing	930.81	0.18
15-Oct-98	3.82	0.06	Clear	1.10	0.02	Clear	14.53	0.24	Clear	2.56	0.04	Clear	15.83	0.26	Clear	37.84	0.63	-	930.87	
21-Oct-98	3.94	0.07	Clear	1.12	0.02	Clear	15.35	0.26	Clear	2.95	0.05	Clear	18.46	0.31	Clear	41.82	0.70	-	930.95	
17-Nov-98	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Sump flooded,needs to be pumped		0.11
27-Nov-98	4.21	0.07	Clear	1.01	0.02	Clear	14.28	0.24	Clear	2.35	0.04	Clear	11.76	0.20	Clear	33.62	0.56		931.35	-0.03
02-Dec-98	4.35	0.07	Clear	0.92	0.02	Clear	14.16	0.24	Clear	2.37	0.04	Clear	11.46	0.19	Clear	33.26	0.55		931.97	-0.03
09-Dec-98	4.34	0.07	Clear	0.79	0.01	Clear	16.56	0.28	Clear	2.01	0.03	Clear	9.78	0.16	Clear	33.49	0.56		931.97	Frozen
16-Dec-98	4.33	0.07	Clear	0.97	0.02	Clear	13.92	0.23	Clear	2.83	0.05	Clear	19.32	0.32	Clear	41.37	0.69		931.97	Frozen
22-Dec-98	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded, needs to be pumped down	931.99	Frozen
05-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.00	Frozen
12-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.02	Frozen
20-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.03	Frozen
28-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.05	Frozen
09-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.06	Frozen
16-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.07	Frozen
23-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.08	Frozen
18-Mar-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	933.08	Frozen
30-Mar-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	934.08	Frozen
08-Apr-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	935.08	Frozen
																		(Started pumping April 9)		

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Knight Piésold CONSULTING	**DATE:** 7-Sept-1999	**FILE NO.:**	11162/10.F01/.F02/.F05/.F07
	TIME:	**REF NO.:**	99-011
Knight Piésold, Mt. Polley Site *Fax: (250) 790-2268* *Phone: (250) 790-2215*	**OPERATOR:**	**PAGES:**	1 of 46
	SENDER: s.22	**APPROVED:**	

TO:	Ministry of Energy and Mines, Mines Branch, Victoria, B.C.	**FAX :**	250-952-0481
ATTN:	George Headley		
CC:	Don Parsons / Eric LeNeve, MPMC Site Ken Brouwer / s.22 KP Vancouver		
SUBJECT:	Mount Polley Stage 2C Construction Progress Report		

Dear Mr. Headley,

Attached is the first Progress Report for Stage 2C Construction at the Mount Polley Mine. Reports will be submitted to you twice per month during the construction season. Up to date materials testing results, piezometer data and drain flow measurements will be included in every Progress Report.

If you have any questions or comments, please do not hesitate to contact Ken Brouwer in the KP Vancouver Office.

Regards,

s.22

Project Engineer
Knight Piésold

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION
PROGRESS REPORT NO. 1
AUGUST 16 to AUGUST 31, 1999

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 2C construction activities over the reporting period. Knight Piésold Ltd. (KP) carried out QA/QC activities over this period.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 (CWM), Project Engineer

The following MPMC management personnel were on site during the reporting period:

- Eric LeNeve, Tailings Coordinator
- Don Parsons, Mine Superintendent

1.2 CONTRACT DEVELOPMENTS

MPMC obtained equipment from the existing mine fleet and from various contractors in order to begin the work. KP issued the majority of the Drawings for Stage 2C Construction by fax. A complete set of finalized Drawings will be issued for construction as soon as they are completed.

1.3 WEATHER

Conditions were generally partly cloudy and warm during the reporting period. Maximum daytime highs reached about +23 °C and nightly lows sank to as low as +4 °C.

1.4 TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings Underflow (Zone CS) was placed upstream of the Main Embankment crest during the reporting period from approximate Chainage 17+00 to 26+00 and from Elevation 936 to 940 m. A significant beach continues to be present upstream of the Zone CS. Wind erosion of the cycloned sand was not observed over the reporting period.

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On August 27th, one cyclone was moved from the Main Embankment to the Perimeter Embankment. Zone CS placement commenced in the afternoon and through to the end of the reporting period from Chainage 39+50 to 40+50 and from Elevation 932 to 938 m. Water lies against most of the Perimeter Embankment at this time; however, MPMC plans to accelerate Zone CS placement in these areas in order to meet future fill placement and freeboard requirements.

SECTION 2.0 - CONSTRUCTION ACTIVITIES

MPMC carried out the following activities during the reporting period:

- Movement and maintenance of the tailings line on the Perimeter Embankment in order to prepare for Zone CS fill placement.
- Placement of Zone CS fill on the Main and Perimeter Embankments.
- Maintenance and optimization of cyclones.
- Development of the Rock Borrow for Zone T material and material for haul road upgrades.
- Excavation of barge channel.
- Borrow Area 2 investigation for Zone S materials. Drilling was carried out by Geotech Drilling, Prince George, B.C.

SECTION 3.0 - KNIGHT PIÉSOLD ACTIVITIES

3.1 GENERAL

KP activities over the reporting period included the following:

- Collection and Record Testing of Zone CS materials.
- Monitoring of Borrow Materials Investigation.
- Logging of Borrow Area 2 boreholes and collection of Zone S materials for lab testing.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to schedules and current and future design.
- Preparation of progress reports.

3.2 MONITORING

3.2.1 General

On-going monitoring of instrumentation was continued over the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

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3.2.2 Vibrating Wire Piezometers

No new piezometers were installed over this period.

Piezometer readings were taken on August 17 and 24. The following observations are based on the data from the attached piezometer graphs.

- Foundation Piezometers
  All foundation piezometers have generally remained static through spring runoff and have not reacted to placement of Zone CS material.

- Fill Piezometers
  Pore pressures in the vicinity of B2-PE2-03 (Zone S), C2-PE2-05 (Zone S) and A2-PE2-03 (Zone B) have increased, likely as a result of Zone CS placement. The remainder of the piezometers placed in the engineered fill have remained relatively static.

- Drain Piezometers
  All piezometers located within the drains have remained static. This indicates that the drains are free draining and are functioning as designed.

- Tailings Piezometers
  Plane C tailings piezometers were reacting to the rise in pond level until they stopped functioning at the end of May, 1999. Plane B tailings piezometers continue to mimic the pond level quite accurately, while the tailings piezometers at Plane A have reacted to the placement of Zone CS material.

3.2.3 Drain Flows

Due to the high water level in the Seepage Collection Pond at the Main Embankment, the outlets of the foundation drains are flooded and the flows have not been recorded since December 22, 1998. MPMC plans to lower the level of the pond in order to continue monitoring the foundation drain flows.

MPMC has constructed small weirs at the Main Embankment Outlet Drains to monitor Chimney Drain flows. No data has been collected due to the low observed flow levels. The Outlet Drains will discharge into the Zone T fill during Stage 3 Construction.

3.2.4 Standpipe Piezometer Levels

The water level in standpipe piezometer GW96-9 (downstream of the right abutment of the Main Embankment) has not been monitored this season due to a break in the pipe. The pipe will be repaired in the near future and readings will recommence.

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CONSULTING

3.2.5 Survey Monuments

New survey points will be installed following the completion of Stage 2C construction in order to measure any settlements prior to the beginning of Stage 3 Construction.

3.3 QA/QC and Laboratory Testing

All record samples, bi-weekly composite underflow, overflow and mill feed samples and selected samples from the Borrow Materials Investigation are being tested by KP or MPMC personnel.

Two (2) record samples of the upstream cycloned sand fill (R-ZCS-12 and 13) were tested during the reporting period. The results from the compaction testing showed that acceptable compaction results are being obtained in the field, as seen in the following table.

Sample No.	Optimum Moisture Content (%)	Maximum Dry Density (kg/m^3)	Field Moisture Content (%)	Field Dry Density (kg/m^3)	Field Compaction (%)
R/ZCS1-12	17.3	1675	11.6	1621	96.8
R/ZCS1-13	17.0	1720	3.3	1619	94.1

A total of fifty one (51) control samples from the Borrow Materials Investigation were collected during the reporting period. Bi-weekly composite samples of overflow and underflow were collected from each cyclone. In addition, bi-weekly composite sampling of the mill feed was carried out. Control and record testing carried out to date is presented at the end of this report.

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SECTION 4.0 - SUMMARY

- MPMC continued Stage 2C Construction activities.
- KP provided QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,

s.22 Knight Piésold

Distribution: Eric LeNeve, Tailings Coordinator, MPMC, Site
Don Parsons, Mine Superintendent, MPMC, Site
George Headley, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, Project Director/John Wilkinson, Project Manager, KP Vancouver

SEP 07 '99 11:23

SEP. 7.1999 11:17AM MOUNT POLLEY MINING NO.858 P.7/46

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION

ZONE FS CONTROL TEST SUMMARY SHEET

A:\[C-ZFS-SUM.XLS]sumcs table 04-Sep-99

Date Sampled	Sample No.	Location	Elev (m)	R2 Field m/c %	R3 (Particle Size Distribution) 75	37.5	25	19.0	9.5	4.75	1.7	1.180	0.600	0.425	0.150	0.075
					Seive Sizes 3	1 1/2	1	3/4	3/8	#4	#12	#16	#30	#40	#100	#200
-	C/ZFS-1	Main Embankment Stockpile	-	-	100.0	100.0	100.0	94.2	74.0	44.0	25.4	25.0	19.7	17.4	12.4	9.9
-	C/ZFS-2	Main Embankment Stockpile	-	-	100.0	100.0	100.0	92.9	70.7	37.8	22.4	19.3	15.7	14.1	10.6	8.7
-	C/ZFS-3	Main Embankment Stockpile	-	-	100.0	100.0	100.0	93.6	77.5	48.4	28.9	24.3	18.2	15.6	10.1	7.5
-	C/ZFS-4	Main Embankment Stockpile	-	-	100.0	100.0	100.0	91.5	71.3	40.3	23.1	19.3	14.5	12.4	7.9	5.8
-	C/ZFS-5	Main Embankment Stockpile	-	-	100.0	100.0	98.9	92.9	74.4	41.5	24.3	20.3	15.2	13.0	8.5	6.1
		MEAN		#DIV/0!	100.0	100.0	99.8	93.0	73.6	42.4	24.8	21.6	16.7	14.5	9.9	7.6
		MEDIAN		#NUM!	100.0	100.0	100.0	92.9	74.0	41.5	24.3	20.3	15.7	14.1	10.1	7.5
		MAXIMUM		0.0	100.0	100.0	100.0	94.2	77.5	48.4	28.9	25.0	19.7	17.4	12.4	9.9
		MINIMUM		0.0	100.0	100.0	98.9	91.5	70.7	37.8	22.4	19.3	14.5	12.4	7.9	5.8

Notes:

R2 Moisture Content (ASTM D2216)

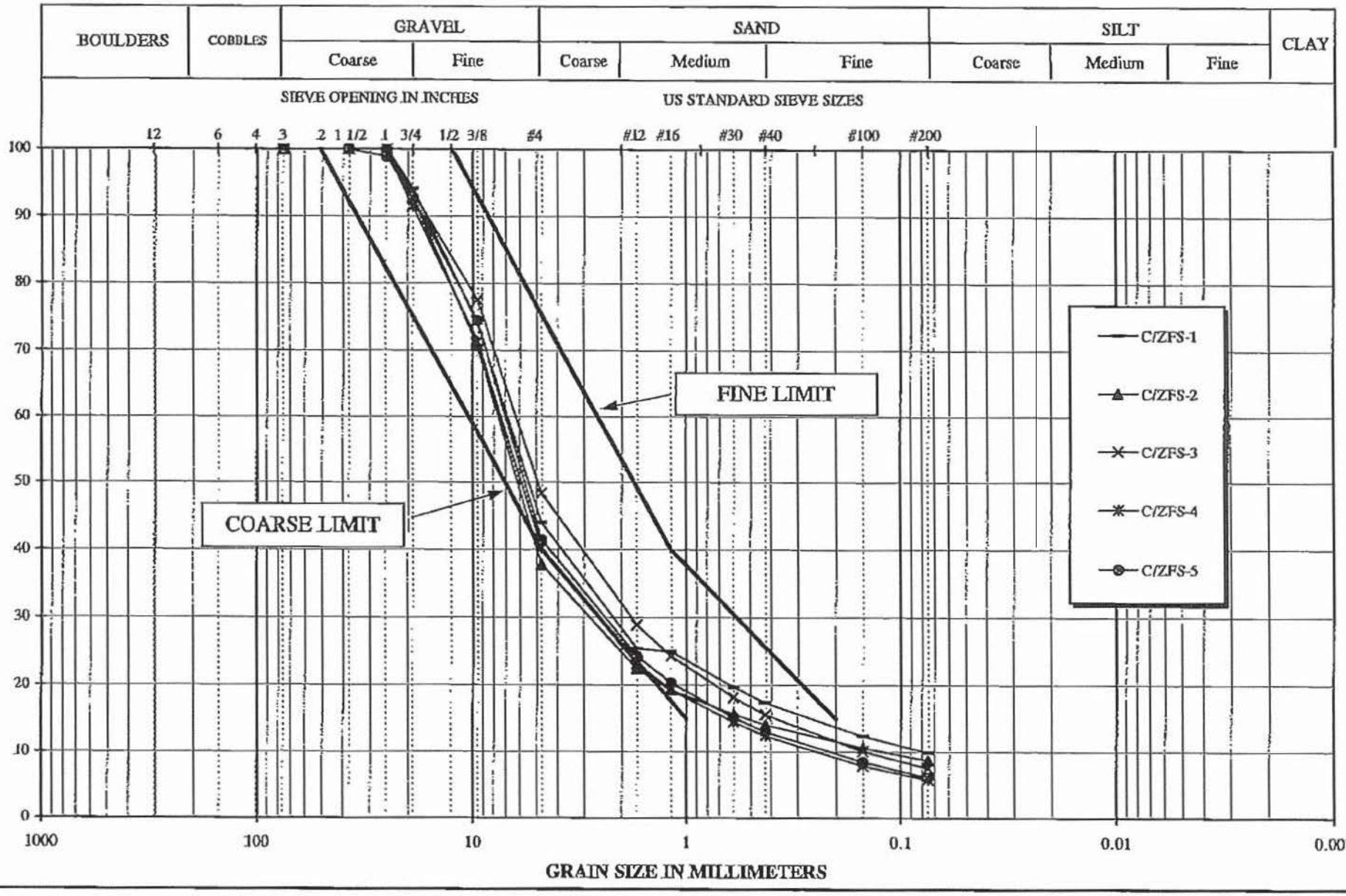
R3 Particle Size Distribution (ASTM D422)

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KNIGHT PIESOLD LTD.
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION.
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION - ZONE FS CONTROL SAMPLES - GRADATION CURVES



SEP 07 '99 11:24

SEP. 7.1999 11:10AM MOUNT POLLEY MINING NO.030 P.27/40

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 1 UNDERFLOW GRADATIONS

H:\ENG\DATA\Eng docs\CYCLONE DATA\hp cyclone gradations\d10-1 Summary.xls]Underflow Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116/10
MATERIAL :	D10-1 UNDERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #1	99.9	99.9	99.48	99.00	97.60	92.00	75.60	52.40	36.60	27.10	16.30	14.20	-	-	-	-	-
May 12- 17, 1999	Cyclone #1		100.0	99.50	98.90	96.80	89.50	73.20	53.90	38.50	29.00	16.5	14.3	-	-	-	-	-
May 18- 26, 1999	Cyclone #1			100.0	99.9	99.4	96.6	88.3	68.8	48.2	27.3	17.2	13.5	-	-	-	-	-
May 27- 30, 1999	Cyclone #1		100.0	99.9	99.6	98.2	92.2	75.5	54.6	36.8	23.9	15.6	12.7	-	-	-	-	-
May 31- June 2, 1999	Cyclone #1			100.0	99.9	99.6	98.3	91.4	72.5	50.8	37.1	28.5	25.5	-	-	-	-	-
June 4,1999	Cyclone #1		100.0	99.8	99.2	96.8	91.7	77.4	54.1	35.9	24.4	15.9	12.9	-	-	-	-	-
June 6,1999	Cyclone #1		100.0	99.9	99.6	98.3	95.3	84.9	62.0	40.4	26.5	16.4	13.1	-	-	-	-	-
June15, 1999	Cyclone #1		100.0	99.4	99.0	98.1	95.7	86.8	63.5	39.6	27.1	15.3	13.3	-	-	-	-	-
June 16-20, 1999	Cyclone #1		100.0	99.8	99.5	98.5	94.3	81.7	55.8	38.8	27.6	17.0	14.2	-	-	-	-	-
June 23,1999	Cyclone #1			100.0	99.8	99.3	97.7	88.8	65.8	49.0	32.7	19.1	15.4	-	-	-	-	-
June 28,1999	Cyclone #1		100.0	99.5	98.8	96.8	90.9	73.6	50.7	35.4	26.7	15.9	13.7	-	-	-	-	-
July 3,1999	Cyclone #1		100.0	99.4	98.7	97.1	93.7	83.4	59.8	37.6	27.1	16.3	14.2	-	-	-	-	-
July 6,1999	Cyclone #1		100.0	99.8	99.5	98.3	94.7	83.5	60.8	39.6	28.5	17.0	15.0	-	-	-	-	-
July 8-11, 1999	Cyclone #1		100.0	99.7	99.4	97.0	90.8	74.3	50.6	33.1	23.4	12.8	11.1	-	-	-	-	-
July 15,1999	Cyclone #1		100.0	99.7	99.2	94.6	82.0	61.0	42.6	30.4	21.3	13.7	12.0	-	-	-	-	-
July 22,1999	Cyclone #1		100.0	99.9	99.8	99.1	96.1	84.9	60.8	39.9	28.3	20.6	13.1	-	-	-	-	-
July 25,1999	Cyclone #1		100.0	99.6	99.1	97.9	94.1	82.5	59.2	41.9	30.7	19.1	14.3	-	-	-	-	-
July 29, 1999	Cyclone #1		100.0	99.8	99.7	98.3	93.9	81.6	60.4	43.6	31.6	19.4	15.4	-	-	-	-	-
August 1,1999	Cyclone #1		100.0	99.9	99.7	98.2	92.7	78.0	55.4	42.4	31.5	19.8	17.6	-	-	-	-	-
August 5,1999	Cyclone #1			100.0	99.9	99.5	99.0	89.6	75.1	56.5	41.0	23.2	17.5	-	-	-	-	-
August 8,1999	Cyclone #1			100.0	99.9	99.0	93.8	79.4	55.8	38.0	27.9	18.1	14.8	-	-	-	-	-
August 12,1999	Cyclone #1			100.0	99.9	99.2	97.9	83.4	60.2	41.5	29.7	18.0	14.2	-	-	-	-	-
August 16,1999	Cyclone #1				100.0	99.4	95.2	79.6	59.6	42.9	31.7	21.3	16.9	-	-	-	-	-
August 18,1999	Cyclone #1		100.0	99.9	99.8	99.3	95.9	84.7	67.2	46.4	32.6	18.2	15.6	-	-	-	-	-
August 23,1999	Cyclone #1			100.0	99.9	99.2	94.9	77.8	55.5	36.8	26.0	14.1	12.0	-	-	-	-	-
	MEDIAN	99.9	100.0	99.9	99.6	98.3	94.3	81.7	59.6	39.6	27.9	17.0	14.2	-	-	-	-	-
	MAXIMUM	99.9	100.0	100.0	100.0	99.6	99.0	91.4	75.1	56.5	41.0	28.5	25.5	-	-	-	-	-
	MINIMUM	99.9	99.9	99.4	98.7	94.6	82.0	61.0	42.6	30.4	21.3	12.8	11.1	-	-	-	-	-

Notes: 1) These are 100% fines.

INVESTIGATION KGD 2 Page 321 of 500E.009

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-1 UNDERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
CONSULTING ENGINEERS

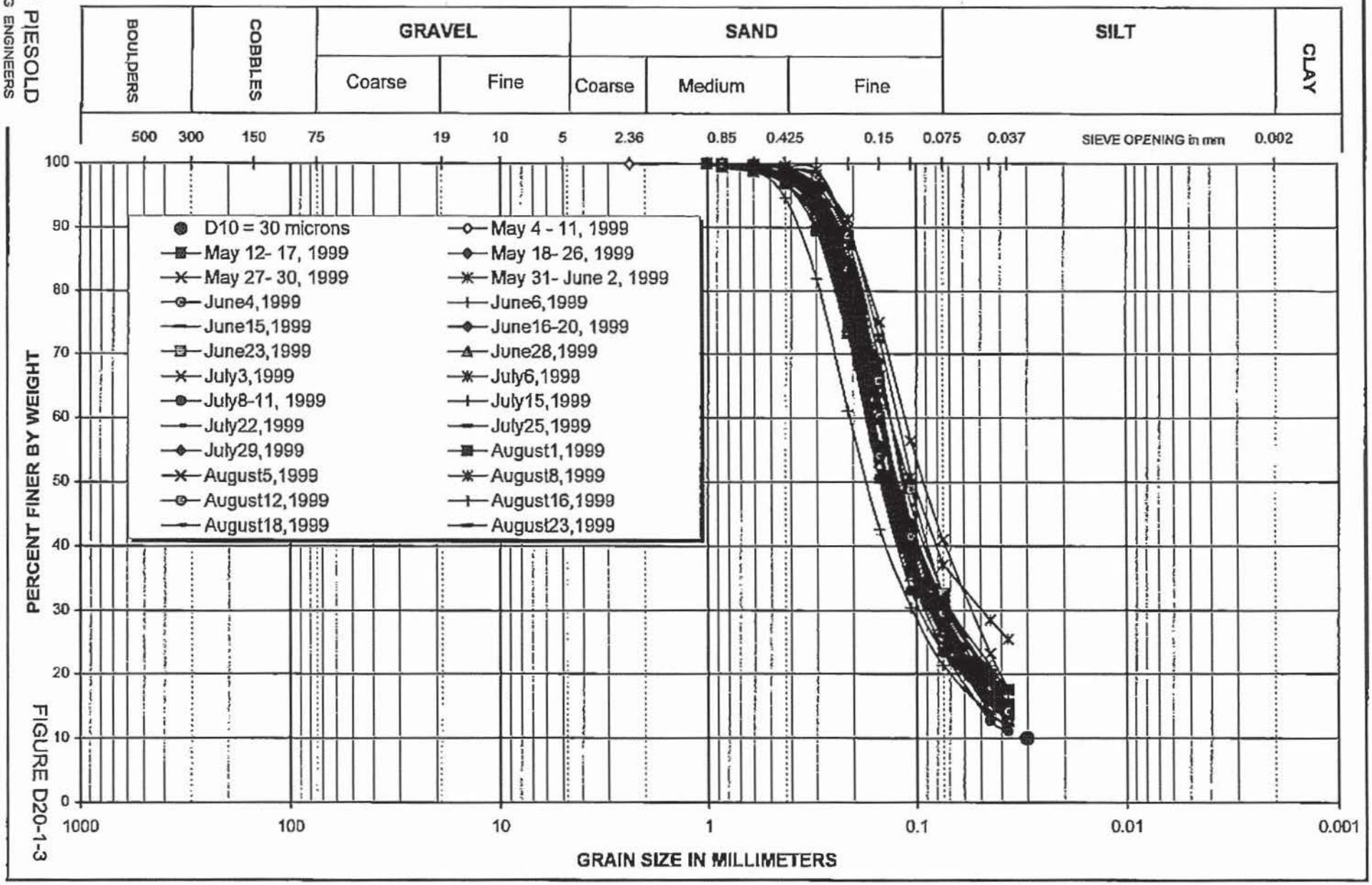


FIGURE D20-1-3

SEP 07 '99 11:24
INVESTIGATION KCB-2 Page 322 of 500
250 790 2268 PAGE.010
SEP. 7.1999 11:08AM MOUNT POLLY MINING NO.838 P.10/40

SEP 07 '99 11:25

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 2 UNDERFLOW GRADATIONS

R:\ENGDATA\lieg.doc\CYCLONE DATA\to cyclone gradations\[D10-2 Summary.xls]Dicker Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PROJECT #: 1116/10
MATERIAL : D10-2 UNDERFLOW TAILINGS SAMPLES		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%
May 4 - 11, 1999	Cyclone #2			100.00	99.90	99.30	96.30	84.00	58.80	39.00	26.40	16.60	14.40	-	-	-	-	-
May 12- 17, 1999	Cyclone #2		100.0	99.80	99.50	99.10	98.00	92.90	75.30	47.00	26.60	16.1	12.4	-	-	-	-	-
May 18- 26, 1999	Cyclone #2		100.0	99.3	98.3	95.1	86.1	67.8	44.7	28.5	19.3	12.8	10.4	-	-	-	-	-
May 27- 30, 1999	Cyclone #2		100.0	100.0	99.7	98.9	93.5	80.0	51.3	36.4	26.1	14.9	13.1	-	-	-	-	-
May 31- June 2, 1999	Cyclone #2		100.0	99.1	98.3	95.5	88.9	72.9	50.4	33.6	22.4	14.2	11.1	-	-	-	-	-
June 4,1999	Cyclone #2		100.0	98.1	96.6	93.1	87.3	73.6	50.5	33.8	24.1	16.8	14.3	-	-	-	-	-
June 5,1999	Cyclone #2		100.0	99.3	98.3	94.1	84.2	64.9	44.8	32.0	23.6	16.4	13.8	-	-	-	-	-
June 7,1999	Cyclone #2		100.0	98.9	97.8	95.6	89.1	75.1	48.6	35.0	22.9	15.7	12.9	-	-	-	-	-
June 8,1999	Cyclone #2		100.0	99.3	98.5	95.7	93.4	79.4	55.9	37.5	27.3	16.1	13.6	-	-	-	-	-
June 14 - 16, 1999	Cyclone #2		100.0	98.3	98.1	94.6	85.9	68.6	49.2	35.0	26.3	16.2	14.2	-	-	-	-	-
June 15,1999	Cyclone #2		100.0	98.1	96.8	93.5	85.7	69.5	47.8	31.6	22.5	14.1	12.7	-	-	-	-	-
June 16-20, 1999	Cyclone #2		100.0	98.7	97.4	95.4	89.9	77.9	55.5	38.8	26.9	16.4	13.7	-	-	-	-	-
June 23,1999	Cyclone #2		100.0	98.7	97.3	94.0	88.3	71.3	45.8	32.5	22.4	14.1	11.6	-	-	-	-	-
June 28,1999	Cyclone #2		100.0	98.7	97.6	94.6	86.4	66.5	45.7	31.9	23.8	14.0	12.2	-	-	-	-	-
July 3,1999	Cyclone #2			100.0	99.9	99.6	97.2	88.3	71.3	52.9	39.4	22.9	19.5	-	-	-	-	-
July 5,1999	Cyclone #2		100.0	98.9	97.6	92.6	82.5	66.0	50.5	39.2	31.9	23.7	22.1	-	-	-	-	-
July 6,1999	Cyclone #2		100.0	99.1	98.4	96.4	91.8	77.3	52.9	35.1	25.4	15.1	13.5	-	-	-	-	-
July 15,1999	Cyclone #2		100.0	99.9	99.7	97.4	90.0	73.3	55.3	41.0	27.7	16.9	14.8	-	-	-	-	-
July 19,1999	Cyclone #2		100.0	99.9	99.7	98.7	93.4	76.3	53.0	38.1	27.7	21.7	13.6	-	-	-	-	-
July 22,1999	Cyclone #2			100.0	99.9	99.3	96.3	83.3	58.5	40.2	29.2	20.2	13.6	-	-	-	-	-
July 25,1999	Cyclone #2		100.0	99.6	99.2	98.2	97.0	81.3	58.8	44.6	31.7	20.3	18.3	-	-	-	-	-
August 1,1999	Cyclone #2		100.0	99.7	99.2	96.8	91.4	78.9	57.8	44.5	32.5	19.9	17.5	-	-	-	-	-
August 5,1999	Cyclone #2		100.0	99.7	98.3	95.7	86.8	71.5	53.3	40.6	29.2	20.1	15.8	-	-	-	-	-
August 8,1999	Cyclone #2			100.0	99.8	97.8	88.5	68.4	46.9	32.3	23.8	15.5	12.7	-	-	-	-	-
August 12,1999	Cyclone #2		100.0	99.9	99.7	98.0	92.3	73.6	51.8	36.7	27.1	17.3	14.3	-	-	-	-	-
August 16,1999	Cyclone #2			100.0	99.9	98.9	93.1	74.7	55.4	39.4	28.4	20.5	14.6	-	-	-	-	-
August 18,1999	Cyclone #2		100.0	99.9	99.6	97.0	87.6	65.9	47.5	33.9	25.0	15.0	13.1	-	-	-	-	-
August 23,1999	Cyclone #2		100.0	99.9	99.7	97.8	90.3	69.6	49.8	34.7	25.4	14.7	12.7	-	-	-	-	-
	MEDIAN	#NUM!	100.0	99.6	98.8	96.6	90.0	73.6	51.5	36.6	26.3	16.3	13.6	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	99.9	99.6	98.0	92.9	75.3	52.9	39.4	23.7	22.1	-	-	-	-	-
	MINIMUM	0.0	100.0	98.1	96.6	92.6	82.5	64.9	44.7	28.5	19.3	12.8	10.4	-	-	-	-	-

Notes: 1) These are 100% limits.

INVESTIGATION\D10-2 2000823.XLS 5/6/00 . 011

SEP 07 '99 11:25

SEP. 1.1999 11:13PM FROM FULL FILING NO. 039 P.17/40

File: d20-2 Summary Sheet: Under Plot Date: 01/09/99 Time Plotted: 3:06 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-2 UNDERFLOW TAILINGS SAMPLES

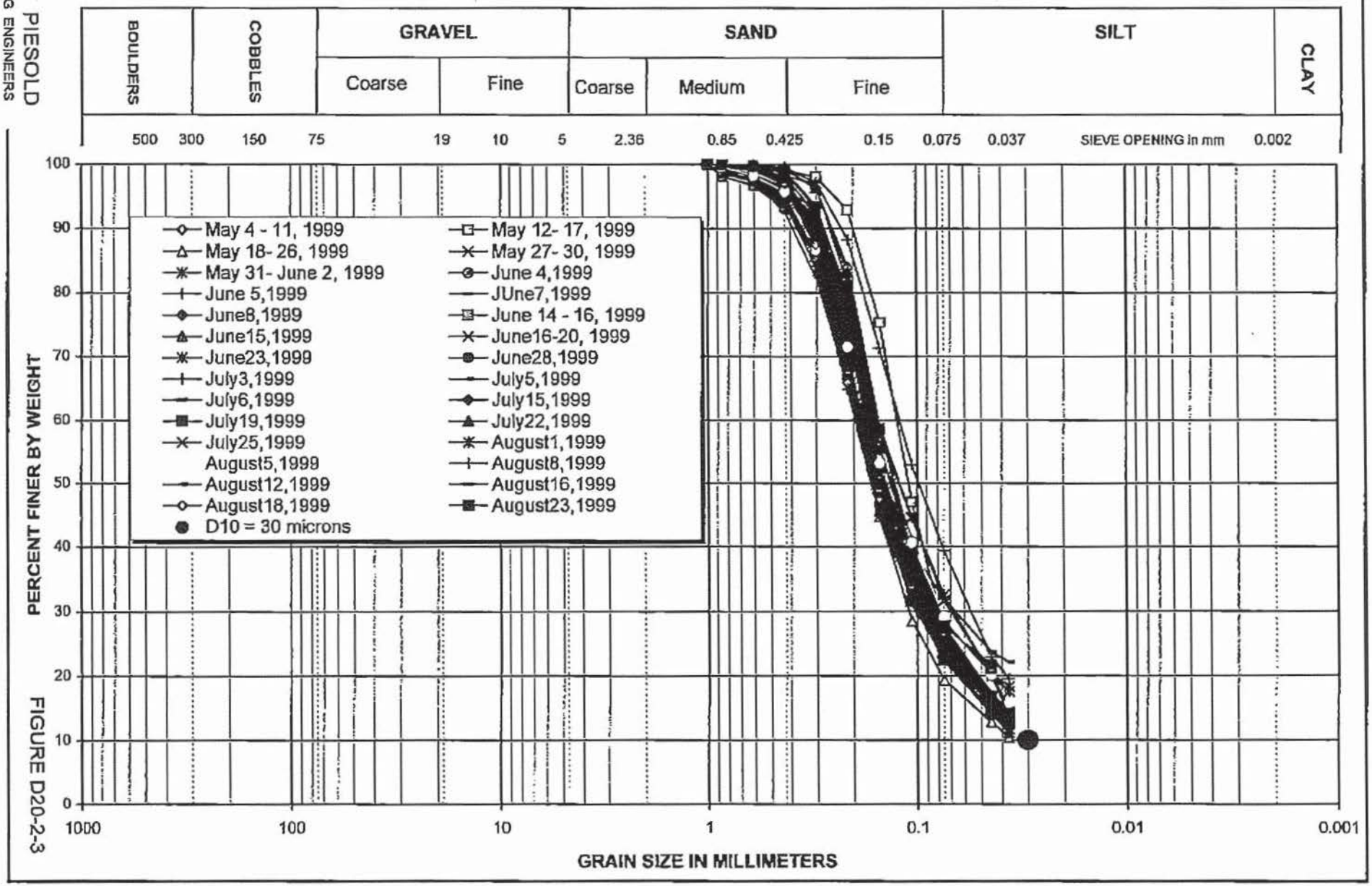


FIGURE D20-2-3

INVESTIGATION KSB-2 Page 824 of 500E.012

SEP 07 '99 11:26

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 3 UNDERFLOW GRADATIONS

G:\ENVDATA\Engdesk\CYCLONE DATA\[tp cyclone gradation\(@3-3 Summary.xls]Under Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116/10
MATERIAL :	D20-3 UNDERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #3	98.2	98.2	97.65	97.15	95.95	91.95	77.65	52.35	34.95	23.75	14.75	14.50	-	-	-	-	-
May 12- 17, 1999	Cyclone #3	99.9	99.9	99.90	99.90	99.70	98.30	90.70	70.00	49.10	33.40	20.9	16.2	-	-	-	-	-
May 27- 30, 1999	Cyclone #3		100.0	100.0	99.7	98.9	93.5	80.0	51.3	36.4	26.1	14.9	13.1	-	-	-	-	-
June 5,1999	Cyclone #3		100.0	99.6	99.1	97.3	92.0	76.1	53.1	37.3	26.8	18.3	15.5	-	-	-	-	-
June 6,1999	Cyclone #3		100.0	99.9	99.5	98.1	94.4	83.4	59.4	39.5	27.6	18.7	15.7	-	-	-	-	-
June 7,1999	Cyclone #3		100.0	99.8	99.5	98.2	91.9	75.0	46.8	32.9	21.1	13.7	11.1	-	-	-	-	-
June 14-16, 1999	Cyclone #3		100.0	99.8	99.3	96.6	88.1	70.1	49.5	35.2	26.2	15.9	13.9	-	-	-	-	-
June 15,1999	Cyclone #3		100.0	99.5	99.1	97.5	91.5	73.8	51.0	36.7	29.0	20.6	19.4	-	-	-	-	-
June 16-20,1999	Cyclone #3		100.0	99.0	97.9	95.8	90.4	76.8	51.8	36.7	25.8	15.7	13.0	-	-	-	-	-
June 23,1999	Cyclone #3		100.0	99.6	99.3	97.3	93.1	78.1	55.8	39.8	30.1	19.2	17.0	-	-	-	-	-
July 3,1999	Cyclone #3		100.0	99.3	98.5	96.0	88.3	70.3	46.6	31.8	24.2	14.6	12.7	-	-	-	-	-
July 5,1999	Cyclone #3		100.0	99.0	97.1	90.7	76.1	56.1	38.4	26.9	20.4	12.4	11.0	-	-	-	-	-
July 6,1999	Cyclone #3		100.0	99.2	98.8	97.4	93.8	81.8	58.9	38.7	28.0	16.6	14.6	-	-	-	-	-
July 15,1999	Cyclone #3		100.0	98.4	97.1	94.2	88.1	72.9	51.2	36.2	25.6	16.8	14.9	-	-	-	-	-
July 19,1999	Cyclone #3		100.0	99.3	98.9	97.3	93.1	82.0	61.9	44.1	32.2	24.1	17.3	-	-	-	-	-
July 22,1999	Cyclone #3		100.0	99.6	99.4	98.7	97.0	88.9	67.0	44.7	31.9	25.4	15.3	-	-	-	-	-
July 25,1999	Cyclone #3		100.0	99.4	98.7	97.4	94.7	85.7	60.4	43.3	31.7	20.9	16.0	-	-	-	-	-
August 1,1999	Cyclone #3		100.0	99.1	98.2	95.2	88.3	73.1	51.8	39.8	29.9	19.4	17.4	-	-	-	-	-
August 5,1999	Cyclone #3		100.0	99.9	99.7	99.0	95.3	83.8	60.7	45.4	32.8	21.4	16.9	-	-	-	-	-
August 8,1999	Cyclone #3		100.0	99.6	99.1	96.6	89.5	74.0	51.3	34.9	25.9	16.4	13.4	-	-	-	-	-
August 12,1999	Cyclone #3		100.0	99.9	99.8	99.2	95.8	82.3	61.2	41.9	30.0	21.4	15.3	-	-	-	-	-
August 16,1999	Cyclone #3			100.0	99.9	98.5	92.7	75.3	55.6	39.8	29.6	20.5	16.9	-	-	-	-	-
August 18,1999	Cyclone #3			100.0	99.8	98.7	95.1	76.4	51.1	34.2	24.4	15.3	12.8	-	-	-	-	-
	MEDIAN	99.0	100.0	99.6	99.1	97.4	92.7	76.8	52.4	37.3	27.6	18.3	15.3	-	-	-	-	-
	MAXIMUM	99.9	100.0	100.0	99.9	99.7	98.3	90.7	70.0	49.1	33.4	25.4	19.4	-	-	-	-	-
	MINIMUM	98.2	98.2	97.7	97.1	90.7	76.1	56.1	38.4	26.9	20.4	12.4	11.0	-	-	-	-	-

Notes: 1) These are 100% fines.

SEP. 7.1999 11:17AM MOUNT POLLEY MINING NO.039 P.13/40

INVESTIGATION KSB-2 Page 325 of 500E.013

SEP 07 '99 11:26

SEP. 1.1999 11:26AM MOUNT POLLEY MINING

File: d20-3 Summary Sheet: Under Plot (2) Date: 01/08/99 Time Plotted: 3:17 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-3 UNDERFLOW TAILINGS SAMPLES

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

500 300 150 75 19 10 5 2.36 0.85 0.425 0.15 0.075 0.037 SIEVE OPENING in mm 0.002

PERCENT FINER BY WEIGHT

100 90 80 70 60 50 40 30 20 10 0

- D10 = 30 microns
- May 4 - 11, 1999
- May 12- 17, 1999
- May 27- 30, 1999
- May 31- June 2, 1999
- June 5,1999
- June6,1999
- June7,1999
- June14-16, 1999
- June15,1999
- June16-20,1999
- June23,1999
- July3,1999
- July5,1999
- July6,1999
- July15,1999
- July19,1999
- July22,1999
- July25,1999
- August1,1999
- August5,1999
- August8,1999
- August12,1999
- August16,1999
- August18,1999

1000 100 10 1 0.1 0.01 0.001

GRAIN SIZE IN MILLIMETERS

FIGURE D20-3-3

INVESTIGATION KGS-2 PAGE 326 of 500E.014

SEP 07 '99 11:27

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 4 UNDERFLOW GRADATIONS

H:\ENG\DATA\Eng docs\CYCLOND DATA\[cyclone gradations\[D20-4 Summary.xls]Under Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PERIOD : 31-Aug-99
MATERIAL :	D20-4 UNDERFLOW TAILINGS SAMPLES	PROJECT #: 1116210
		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%						
May 4 - 11, 1999	Cyclone #4				100.00	99.70	98.10	89.70	67.10	44.30	28.50	16.10	13.50	-	-	-	-	-
May 12- 17, 1999	Cyclone #4		100.0	98.60	97.80	93.50	88.40	70.20	49.30	34.00	25.20	14.4	12.3	-	-	-	-	-
May 27- 30, 1999	Cyclone #4		100.0	99.7	99.2	97.8	94.0	77.0	52.6	34.2	23.0	15.1	12.4	-	-	-	-	-
May 31- June 2, 1999	Cyclone #4		100.0	99.9	99.7	98.9	95.5	84.7	62.5	39.5	24.2	13.5	9.5	-	-	-	-	-
June 6,1999	Cyclone #4		100.0	98.7	97.6	94.7	90.5	77.7	53.6	35.4	23.8	15.1	12.2	-	-	-	-	-
June 8,1999	Cyclone #4		100.0	99.9	99.8	99.4	96.4	84.7	52.7	38.6	24.2	15.6	12.2	-	-	-	-	-
June 15,1999	Cyclone #4			100.0	99.9	99.2	95.3	80.2	52.4	33.2	23.8	14.4	13.0	-	-	-	-	-
June 16-20, 1999	Cyclone #4		100.0	99.7	99.2	98.0	94.4	83.4	55.8	40.4	28.9	17.5	14.9	-	-	-	-	-
June 23,1999	Cyclone #4		100.0	98.8	98.3	96.5	92.0	74.3	46.9	34.0	23.9	15.5	12.7	-	-	-	-	-
July 3,1999	Cyclone #4		100.0	98.8	98.1	96.6	93.2	82.8	58.0	37.4	26.7	14.9	12.8	-	-	-	-	-
July 5,1999	Cyclone #4		100.0	99.9	99.6	97.6	89.8	71.3	48.5	32.1	22.8	12.6	10.6	-	-	-	-	-
July 6,1999	Cyclone #4		100.0	99.8	99.6	98.4	93.9	78.6	54.0	36.3	26.0	14.5	12.6	-	-	-	-	-
July 8-11, 1999	Cyclone #4		100.0	99.5	99.0	96.9	91.5	75.7	50.4	32.9	23.2	12.9	11.8	-	-	-	-	-
July 15,1999	Cyclone #4		100.0	99.9	99.4	96.3	89.3	73.7	52.7	38.8	28.4	19.3	17.4	-	-	-	-	-
July 19,1999	Cyclone #4		100.0	96.3	95.8	94.8	92.2	72.4	51.8	38.5	29.3	27.4	15.8	-	-	-	-	-
July 22,1999	Cyclone #4		100.0	99.8	99.5	98.7	96.0	84.5	60.5	41.6	30.2	21.9	13.9	-	-	-	-	-
July 25,1999	Cyclone #4		100.0	99.6	99.3	98.6	96.7	87.4	62.1	44.7	30.2	16.0	13.6	-	-	-	-	-
August 1,1999	Cyclone #4		100.0	99.6	99.1	97.1	92.0	79.3	57.0	44.3	32.6	19.8	17.3	-	-	-	-	-
August 5,1999	Cyclone #4		100.0	99.5	98.7	97.4	94.8	87.4	66.6	51.0	35.8	22.7	18.3	-	-	-	-	-
August16,1999	Cyclone #4			100.0	99.8	98.6	92.6	74.2	54.8	39.2	28.5	18.1	14.6	-	-	-	-	-
August18,1999	Cyclone #4		100.0	99.9	99.7	98.3	91.6	70.7	49.8	34.6	25.2	14.9	13.0	-	-	-	-	-
August 23,1999	Cyclone #4		100.0	99.8	99.7	98.4	91.6	71.2	50.5	35.8	26.9	17.1	15.3	-	-	-	-	-
	MEDIAN	#NUM!	100.0	99.7	99.4	97.9	92.9	78.1	53.2	38.0	26.3	15.5	13.0	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.7	98.1	89.7	67.1	51.0	35.8	27.4	18.3	-	-	-	-	-
	MINIMUM	0.0	100.0	96.3	95.8	94.7	88.4	70.2	46.9	32.1	22.8	12.6	9.5	-	-	-	-	-

Notes: 1) There are 100% limits.

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MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-4 UNDERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
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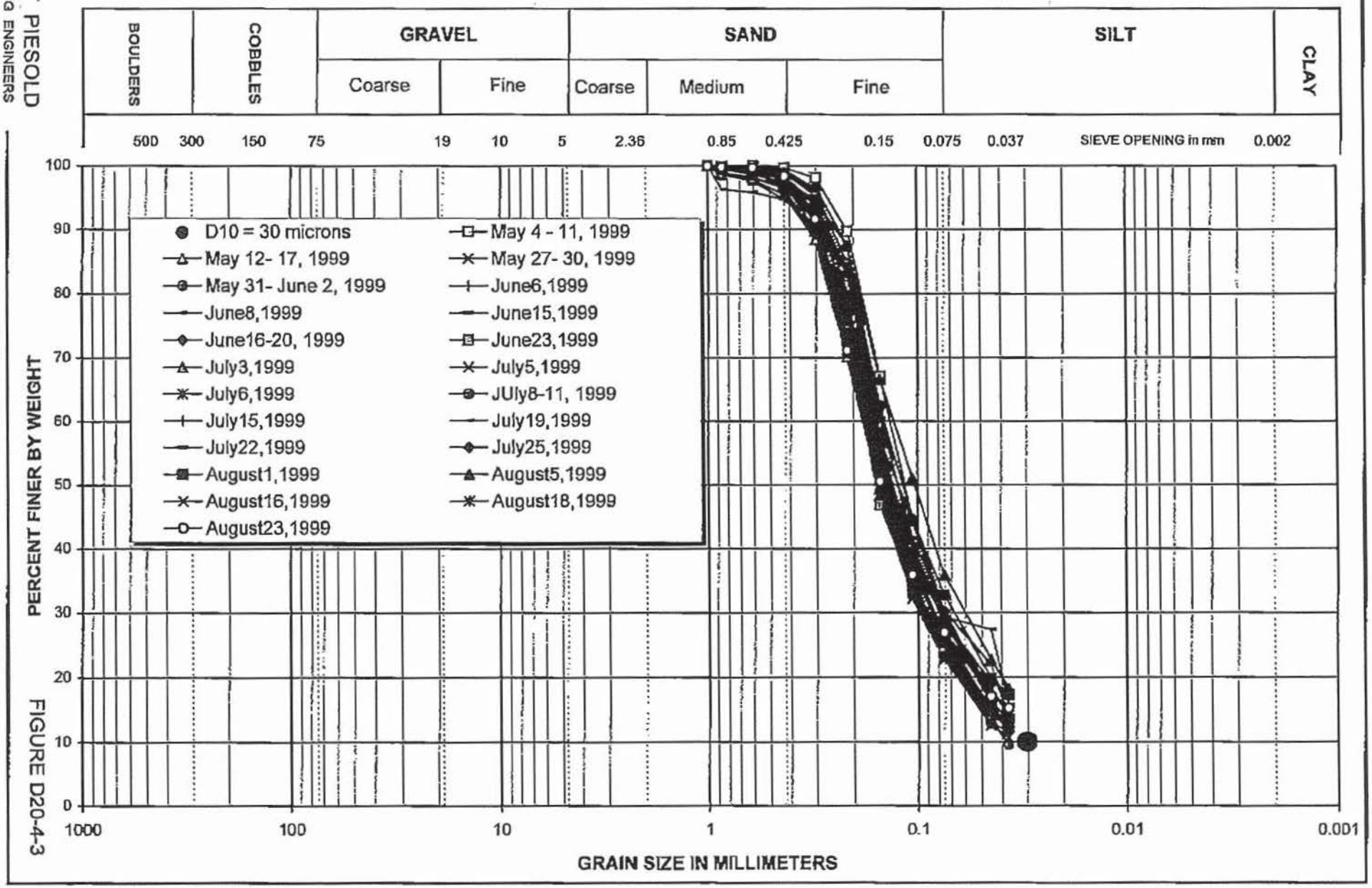


FIGURE D20-4-3

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 5 UNDERFLOW GRADATIONS

M:\ENGDATA\lingdocs\CYCLONE.DATA\tp cyclone gradation\[D20-5 Summary.xls]Under Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116210
MATERIAL :	D20-5 UNDERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
June 16 - 20, 1999	Cyclone #5		100.0	99.93	99.68	98.70	94.85	83.58	56.80	41.20	27.53	15.53	13.05	-	-	-	-	-
June 23,1999	Cyclone #5		100.0	99.78	99.15	97.43	93.93	80.50	56.68	43.15	31.60	21.1	17.9	-	-	-	-	-
June28,1999	Cyclone #5		100.0	99.93	99.70	98.35	92.08	74.25	51.90	34.75	24.95	14.3	12.4	-	-	-	-	-
July 3,1999	Cyclone #5		100.0	99.95	99.80	98.95	95.90	85.35	62.10	40.58	28.75	15.7	13.3	-	-	-	-	-
July 5,1999	Cyclone #5		100.0	99.13	98.65	96.90	91.38	76.50	53.83	36.03	25.63	14.1	12.1	-	-	-	-	-
July 6,1999	Cyclone #5		100.0	99.88	99.43	97.30	91.70	76.70	56.80	41.50	31.35	20.1	18.1	-	-	-	-	-
July 8 11, 1999	Cyclone #5		100.0	99.75	99.40	96.65	88.48	68.83	46.55	32.38	23.40	13.63	12.70	-	-	-	-	-
July 15,1999	Cyclone #5		100.0	99.98	99.83	98.33	92.23	74.48	52.83	38.03	27.08	18.1	16.1	-	-	-	-	-
July 22,1999	Cyclone #5		100.0	99.88	99.60	98.58	95.08	81.15	56.03	38.20	28.08	23.6	14.0	-	-	-	-	-
July 25,1999	Cyclone #5		100.0	99.95	99.80	99.18	96.05	83.98	61.08	44.05	33.55	23.0	18.2	-	-	-	-	-
July 29,1999	Cyclone #5		100.0	99.99	99.94	99.18	95.02	81.29	59.80	41.90	32.17	21.6	19.9	-	-	-	-	-
August 1,1999	Cyclone #5		100.0	99.98	99.92	98.83	94.45	81.63	61.07	48.92	36.25	22.7	20.2	-	-	-	-	-
August 8,1999	Cyclone #5		100.0	99.88	99.60	97.78	88.88	69.95	49.03	33.75	24.83	15.4	12.6	-	-	-	-	-
August 16,1999	Cyclone #5				100.0	99.8	96.7	80.7	58.1	39.4	27.9	19.2	14.0	-	-	-	-	-
August 18,1999	Cyclone #5			100.0	99.8	97.8	93.8	76.7	57.6	40.0	29.2	18.8	15.8	-	-	-	-	-
August 23,1999	Cyclone #5		100.0	99.9	99.7	97.0	86.7	65.0	46.7	32.0	22.8	12.3	10.5	-	-	-	-	-
	MEDIAN	#NUM!	100.0	99.9	99.7	98.3	93.9	78.6	56.7	39.7	28.0	18.4	14.0	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.8	96.7	85.4	62.1	48.9	36.3	23.6	20.2	-	-	-	-	-
	MINIMUM	0.0	100.0	99.1	98.7	96.7	86.7	65.0	46.6	32.0	22.8	12.3	10.5	-	-	-	-	-

Notes: 1) These are 100% limits.

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KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-5 UNDERFLOW TAILINGS SAMPLES

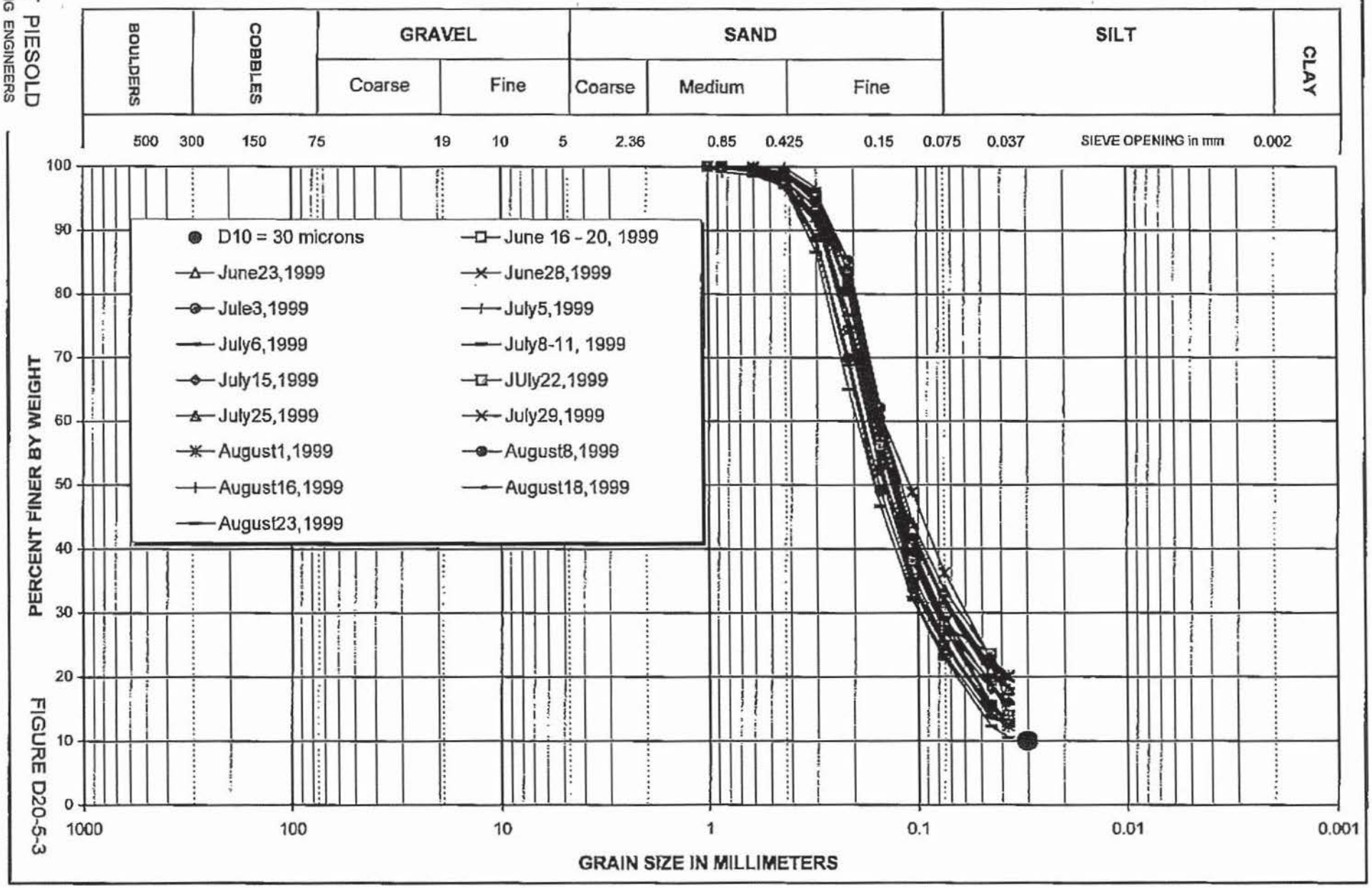


FIGURE D20-5-3

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 6 UNDERFLOW GRADATIONS

R:\ENGDATA\Engdata\CYCLONE DATA\cp cyclone gradations\[cp6-6 Summary.xls]Underflow Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116210
MATERIAL :	CP6-6 UNDERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%
June 16 - 20, 1999	Cyclone #6		100.0	99.95	99.80	99.40	96.63	85.15	55.75	39.90	27.65	16.00	12.63	-	-		-	-
June 23, 1999	Cyclone #6		100.0	99.95	99.88	99.70	98.38	90.33	68.33	45.35	31.73	17.4	14.5	-	-	-	-	-
June 28, 1999	Cyclone #6		100.0	99.95	99.70	98.30	92.93	78.58	56.25	37.78	27.65	16.2	14.1	-	-	-	-	-
July 3, 1999	Cyclone #6			100.00	99.98	99.83	98.90	93.35	74.25	48.00	31.93	16.7	14.0	-	-	-	-	-
July 5, 1999	Cyclone #6		100.0	99.98	99.88	99.30	95.25	80.10	55.20	37.48	27.50	15.8	13.8	-	-	-	-	-
July 6, 1999	Cyclone #6		100.0	99.95	99.93	99.75	98.33	90.23	68.55	44.43	31.03	17.1	14.6	-	-	-	-	-
July 8-11, 1999	Cyclone #6		100.0	99.93	99.75	98.95	96.65	84.43	61.55	40.78	28.15	19.2	14.1	-	-	-	-	-
July 15, 1999	Cyclone #6		100.0	99.98	99.95	99.78	98.20	88.53	62.95	42.63	29.33	19.0	16.5	-	-	-	-	-
July 19, 1999	Cyclone #6			100.00	99.95	99.65	98.00	87.83	65.30	45.55	32.73	24.3	17.7	-	-	-	-	-
July 22, 1999	Cyclone #6				100.00	99.88	98.85	91.65	68.98	46.10	32.80	20.6	14.9	-	-	-	-	-
July 25, 1999	Cyclone #6		100.0	99.88	99.70	99.00	96.25	87.15	63.60	48.65	37.88	26.3	22.4	-	-	-	-	-
August 1, 1999	Cyclone #6		100.0	99.90	99.57	97.30	90.72	73.93	51.68	39.77	29.48	18.7	16.5	-	-	-	-	-
August 5, 1999	Cyclone #6		100.0	99.9	99.4	98.8	97.9	83.5	66.3	49.6	37.0	22.9	18.3	-	-	-	-	-
August 8, 1999	Cyclone #6		100.0	99.9	99.6	97.2	89.0	71.0	48.2	32.8	24.1	15.6	12.9	-	-	-	-	-
August 12, 1999	Cyclone #6			100.0	99.9	99.2	94.2	77.2	55.4	38.4	28.0	21.9	15.1	-	-	-	-	-
August 16, 1999	Cyclone #6			100.0	99.9	99.2	93.9	76.7	58.0	42.5	31.4	21.7	17.0	-	-	-	-	-
August 23, 1999	Cyclone #6		100.0	100.0	100.0	99.9	97.7	85.7	62.8	42.4	30.8	17.9	15.6	-	-	-	-	-
	MEDIAN	#NUM!	100.0	100.0	99.9	99.3	96.7	85.2	62.8	42.5	30.8	18.7	14.9	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.9	98.9	93.4	74.3	49.6	37.9	26.3	22.4	-	-	-	-	-
	MINIMUM	0.0	100.0	99.9	99.4	97.2	89.0	71.0	48.2	32.8	24.1	15.6	12.6	-	-	-	-	-

Notes: 1) These are 100% limits.

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KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-6 UNDERFLOW TAILINGS SAMPLES

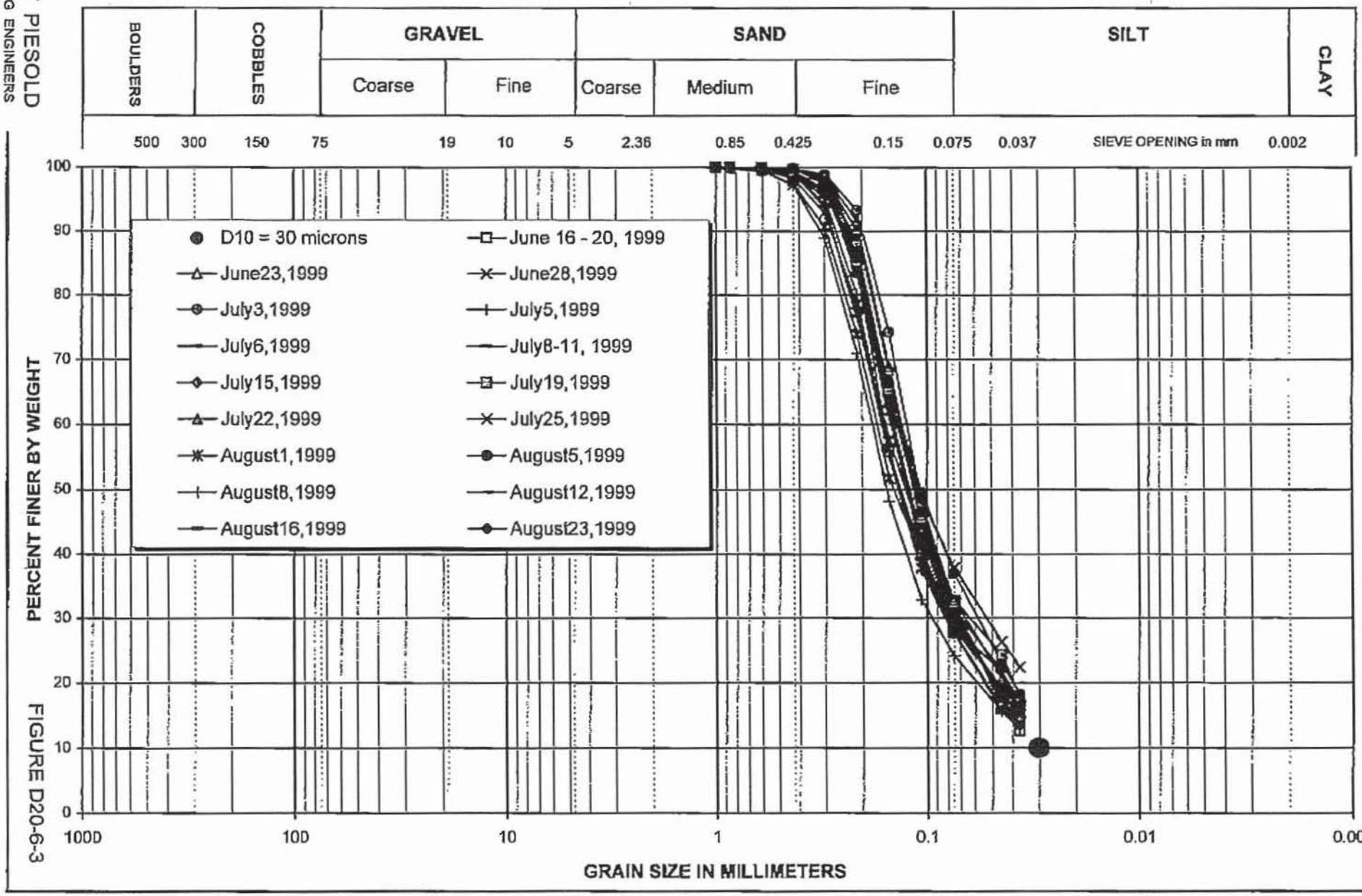


FIGURE D20-6-3

SEP 07 '99 11:28
SEP. 7.1999 11:22AM MOUNT POLLEY MINING NO.030 P.22/40
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SEP. 7.1999 11:22AM KNIGHT PIESOLD LIMITED NO.838 P.22/49

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 1 OVERFLOW GRADATIONS

B:\ENGDATA\Reg\doc\CYCLONE DATA\[cyclone gradation\[D20-1 Summary.xls]Over.Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PROJECT #: 1116/10
MATERIAL : D20-1 OVERFLOW TAILINGS SAMPLES		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #1					100.00	99.70	97.60	91.60	83.00	74.20	64.20	61.30	-	-	-	-	-
May 12 - 17, 1999	Cyclone #1		99.9	95.70	95.10	93.20	89.00	77.90	65.80	52.80	44.00	32.0	29.4	-	-	-	-	-
May 27 - 30, 1999	Cyclone #1			100.0	100.0	99.9	99.9	99.3	96.7	89.4	77.6	63.7	56.8	-	-	-	-	-
June16-20, 1999	Cyclone #1				100.0	99.9	99.7	98.7	93.8	84.1	73.0	56.9	50.9	-	-	-	-	-
June23, 1999	Cyclone #1		100.0	99.9	99.7	99.1	98.5	96.2	90.1	82.3	73.3	62.1	57.9	-	-	-	-	-
July3, 1999	Cyclone #1						100.0	99.6	96.3	87.8	76.8	58.4	53.4	-	-	-	-	-
July6, 1999	Cyclone #1		100.0	99.8	99.8	99.7	99.6	98.9	95.4	85.9	73.4	52.6	47.4	-	-	-	-	-
July8-11, 1999	Cyclone #1		100.0	99.8	99.5	99.5	99.2	97.3	90.8	79.2	67.3	48.1	44.7	-	-	-	-	-
July15, 1999	Cyclone #1		100.0	99.9	99.8	99.7	99.0	95.5	86.9	75.4	62.6	48.9	45.2	-	-	-	-	-
	MEDIAN		100.0	99.8	99.8	99.7	99.6	97.6	91.6	83.0	73.3	56.9	50.9	-	-	-	-	-
	MAXIMUM		100.0	100.0	100.0	100.0	100.0	99.6	96.7	89.4	77.6	64.2	61.3	-	-	-	-	-
	MINIMUM		99.9	95.7	95.1	93.2	89.0	77.9	65.8	52.8	44.0	32.0	29.4	-	-	-	-	-

Notes: 1) These are 100% limits.

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SEP 07 '99 11:29

File: d20-1 Summary Sheet: OVER PLOT Date: 01/09/99 Time Plotted: 2:43 PM

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-1 OVERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
CONSULTING ENGINEERS

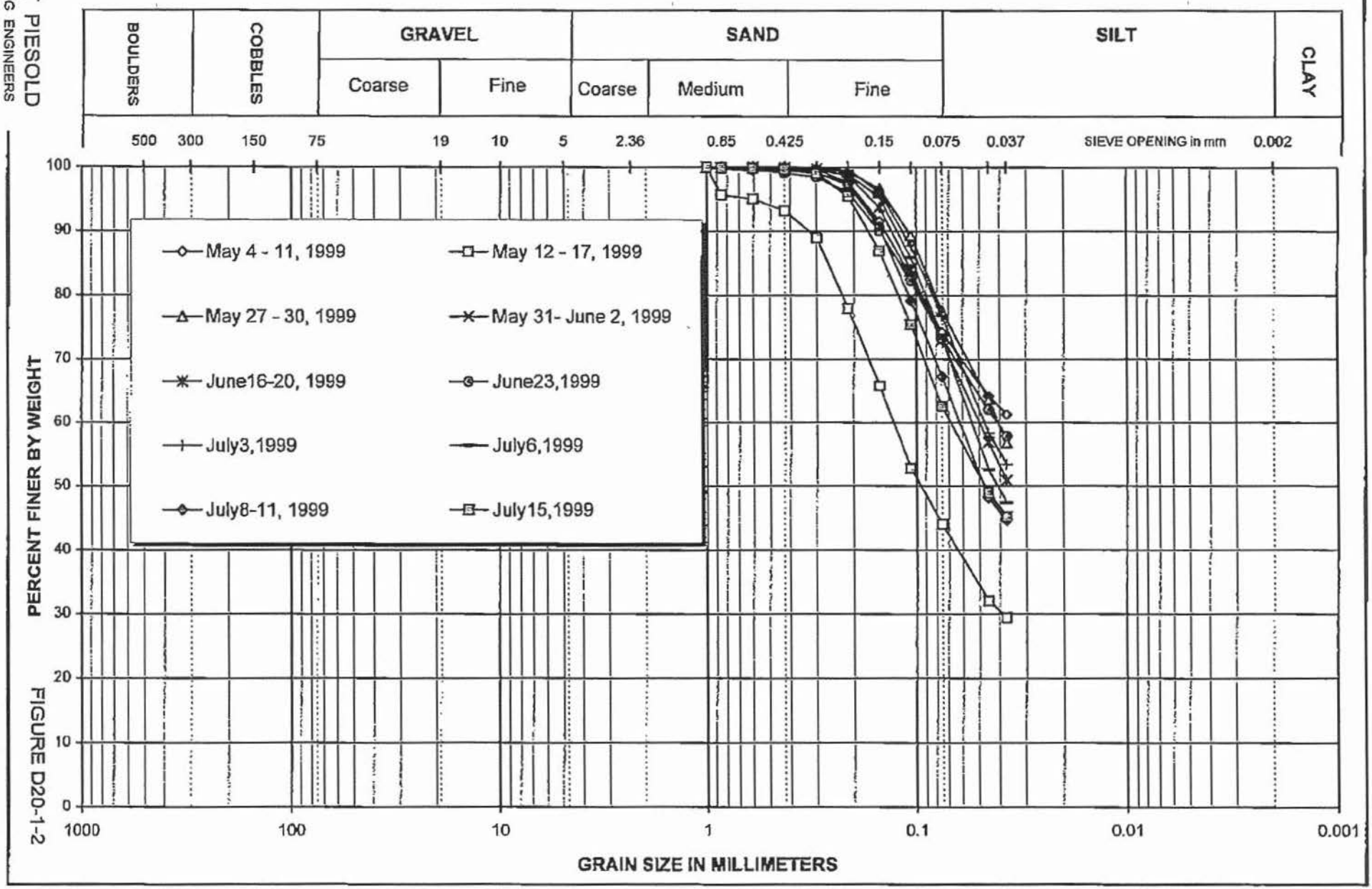


FIGURE D20-1-2

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SEP. 7.1999 11:23AM FROM FULL FILING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 2 OVERFLOW GRADATIONS

R:\ENGDATA\Engdata\CYCLONE DATA\hp cyclone gradation\320-2 Summary.xls]Over.Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PROJECT #: 1116210
MATERIAL : D20-2 OVERFLOW TAILINGS SAMPLES		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #2		100.0	99.80	99.50	98.70	96.30	88.20	72.40	59.10	48.70	39.20	36.80	-	-	-	-	-
May 12 - 17, 1999	Cyclone #2			100.00	99.50	97.50	87.90	68.90	50.30	36.20	27.90	17.4	15.3	-	-	-	-	-
May 27 - 30, 1999	Cyclone #2			100.0	99.9	99.8	99.6	98.3	93.1	85.7	77.0	59.1	55.4	-	-	-	-	-
June 16,1999	Cyclone #2		100.0	99.9	99.7	99.5	98.9	96.0	84.9	73.4	60.3	43.3	39.0	-	-	-	-	-
June 16-20, 1999	Cyclone #2				100.0	99.9	99.6	98.5	93.3	83.3	69.0	56.0	49.8	-	-	-	-	-
July 25,1999	Cyclone #2				100.0	99.9	99.4	98.2	93.3	83.1	73.0	68.3	50.6	-	-	-	-	-
August 1,1999	Cyclone #2		100.0	98.8	98.6	98.2	97.5	95.7	90.5	83.5	74.0	60.4	56.1	-	-	-	-	-
August 16,1999	Cyclone #2		100.0	99.9	99.9	99.8	99.2	94.7	82.1	60.7	41.8	24.5	19.2	-	-	-	-	-
	MEDIAN	#NUM!	100.0	99.9	99.8	99.6	99.1	95.8	87.7	78.2	64.7	49.7	44.4	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.9	99.6	98.5	93.3	85.7	77.0	68.3	56.1	-	-	-	-	-
	MINIMUM	0.0	100.0	98.8	98.6	97.5	87.9	68.9	50.3	36.2	27.9	17.4	15.3	-	-	-	-	-

Notes: 1) These are 100% fluids.

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MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-2 OVERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
CONSULTING ENGINEERS

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

500 300 150 75 19 10 5 2.36 0.85 0.425 0.15 0.075 0.037 SIEVE OPENING in mm 0.002

PERCENT FINER BY WEIGHT

100 90 80 70 60 50 40 30 20 10 0

- May 4 - 11, 1999
- May 12 - 17, 1999
- May 27 - 30, 1999
- June16,1999
- June16-20, 1999
- July25,1999
- August1,1999
- August16,1999

1000 100 10 1 0.1 0.01 0.001

GRAIN SIZE IN MILLIMETERS

FIGURE D20-2-2

SEP 07 '99 11:29
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SEP 07 '99 11:30

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 3 OVERFLOW GRADATIONS

H:\ENGDATA\Inactive\CYCLONE DATA\tp cyclone_multidata\MB-3 Summary.xls]Over Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT : MOUNT POLLEY - CYCLONE TAILINGS ANALYSES		PROJECT #: 1116210
MATERIAL : D20-3 OVERFLOW TAILINGS SAMPLES		AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%		%	%	%	%	%
May 4 - 11, 1999	Cyclone #3				100.00	99.90	99.40	97.50	91.60	82.50	70.80	56.40	51.90	-	-	-	-	-
May 12- 17, 1999	Cyclone #3	99.8	99.8	99.00	98.30	96.20	89.00	70.30	46.70	32.30	22.70	15.20	12.40	-	-	-	-	-
June 5,1999	Cyclone #3		100.0	99.7	99.3	97.8	94.2	84.3	67.8	46.5	27.5	16.0	12.4	-	-	-	-	-
June 7,1999	Cyclone #3				100.0	99.8	99.8	96.8	89.2	75.2	60.5	39.6	34.6	-	-	-	-	-
June 8,1999	Cyclone #3			100.0	99.8	98.9	97.0	83.0	56.6	36.2	25.3	13.8	11.5	-	-	-	-	-
June 16-20, 1999	Cyclone #3				100.0	99.9	99.5	98.3	94.6	86.5	73.7	61.2	55.4	-	-	-	-	-
June 23,1999	Cyclone #3		100.0	99.7	99.4	99.0	98.2	95.4	86.8	71.7	57.9	38.2	33.3	-	-	-	-	-
August 1,1999	Cyclone #3			100.0	99.9	99.8	99.1	96.6	88.4	78.9	67.6	53.8	48.8	-	-	-	-	-
August 18,1999	Cyclone #3						100.0	98.3	92.5	81.4	69.7	53.6	48.6	-	-	-	-	-
	MEDIAN	99.8	100.0	99.7	99.8	99.4	99.1	96.6	88.4	75.2	60.5	39.6	34.6	-	-	-	-	-
	MAXIMUM	99.8	100.0	100.0	100.0	99.9	100.0	98.3	94.6	86.5	73.7	61.2	55.4	-	-	-	-	-
	MINIMUM	99.8	99.8	99.0	98.3	96.2	89.0	70.3	46.7	32.3	22.7	13.8	11.5	-	-	-	-	-

Notes: 1) These are 100% limits.

SEP. 7.1999 11:03AM KNIGHT PIESOLD LIMITED NO.030 P.03/40

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MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-3 OVERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
CONSULTING ENGINEERS

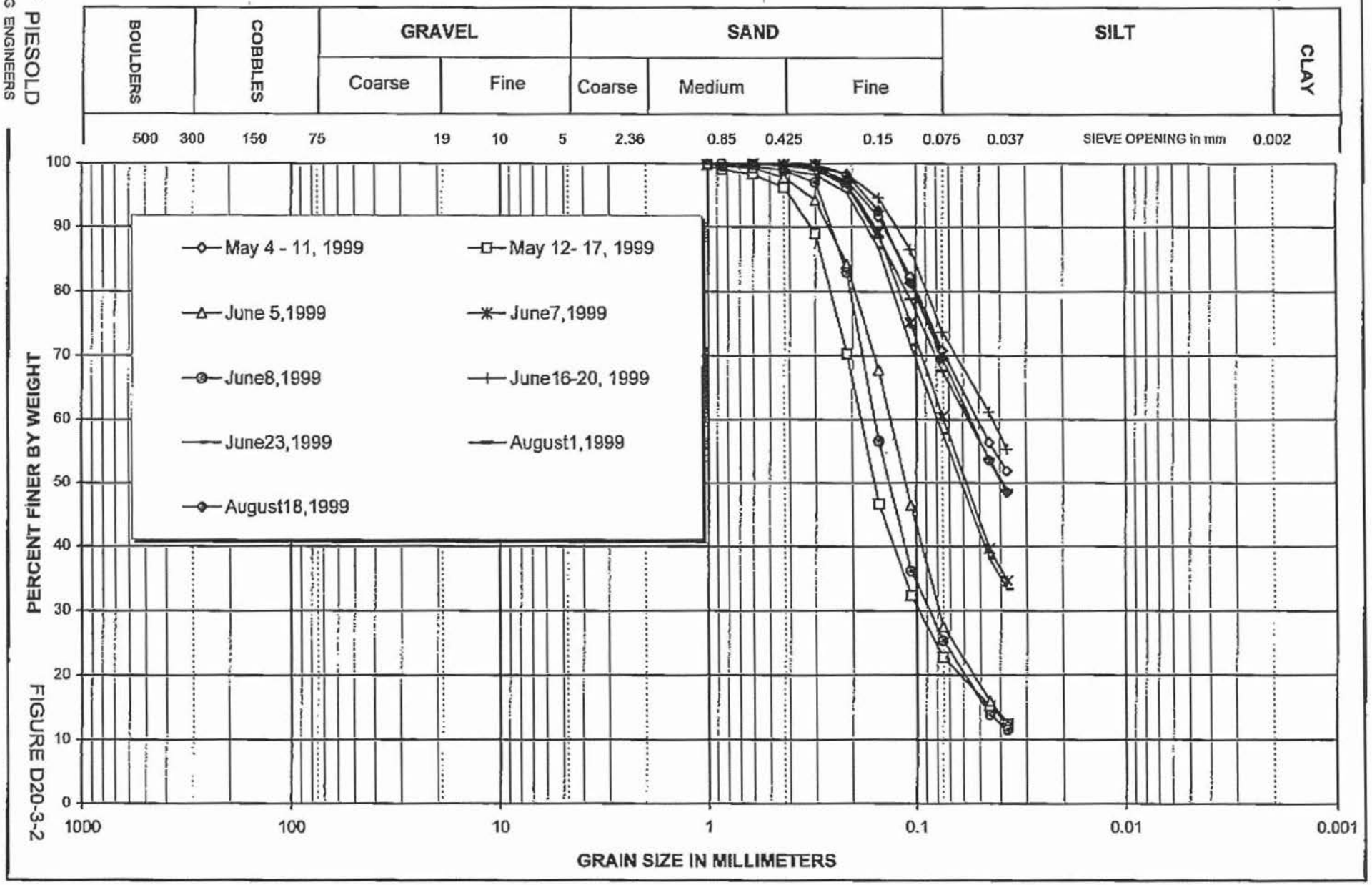


FIGURE D20-3-2

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SEP 07 '99 11:30

SEP. 7.1999 11:24AM FROM FULL TILTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 4 OVERFLOW GRADATIONS

H:\ENGDATA\Eng docs\CYCLONE DATA\[cyclone gradations([03-4 Summary.xls]Over Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116210
MATERIAL :	D18-4 OVERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
May 4 - 11, 1999	Cyclone #4			100.00	100.00	99.70	98.10	89.70	67.10	44.30	28.50	16.10	13.50	-	-	-	-	-
May 12- 17, 1999	Cyclone #4		100.0	98.60	97.80	95.50	88.40	70.20	49.50	34.00	25.20	14.40	12.30	-	-	-	-	-
May 27- 30, 1999	Cyclone #4		100.0	99.7	99.2	97.8	94.0	77.0	52.6	34.2	23.0	15.1	12.4	-	-	-		-
May 31- June 2, 1999	Cyclone #4		100.0	99.5	99.1	97.6	94.0	84.4	70.8	61.1	55.0	50.5	48.7	-	-	-	-	-
June16-20, 1999	Cyclone #4				100.0	99.8	99.6	98.4	93.7	83.7	68.9	55.8	49.9	-	-	-	-	-
June 23,1999	Cyclone #4			100.0	99.8	99.6	99.3	98.1	93.2	82.5	70.5	52.1	46.9	-	-	-	-	-
July 3,1999	Cyclone #4				100.0	99.9	99.8	99.3	95.4	86.6	76.2	57.9	53.2	-	-	-	-	-
July 6,1999	Cyclone #4		100.0	99.7	98.6	93.3	80.6	60.6	44.4	33.1	25.5	16.7	15.2	-	-	-	-	-
July 25,1999	Cyclone #4		100.0	99.9	99.9	99.8	99.7	98.9	95.8	87.6	76.9	58.8	51.7	-	-	-	-	-
August 1,1999	Cyclone #4			100.0	99.9	99.8	99.2	97.0	89.7	80.5	69.3	56.5	50.7	-	-	-	-	-
August 16,1999	Cyclone #4		100.0	99.9	99.9	99.8	99.3	96.5	89.5	78.2	66.6	51.8	45.0	-	-	-	-	-
	MEDIAN	#NUM!	100.0	99.9	99.9	99.7	99.2	96.5	89.5	78.2	66.6	51.8	46.9	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	99.9	99.8	99.3	95.8	87.6	76.9	58.8	53.2	-	-	-	-	-
	MINIMUM	0.0	100.0	98.6	97.8	93.3	80.6	60.6	44.4	33.1	23.0	14.4	12.3	-	-	-	-	-

Notes: 1) There are 100% limits.

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NO.030 P.27/40

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-4 OVERFLOW TAILINGS SAMPLES

KNIGHT PIESOLD
CONSULTING ENGINEERS

BOULDERS	COBBLES	GRAVEL		SAND			SILT	CLAY
		Coarse	Fine	Coarse	Medium	Fine		

500 300 150 75 19 10 5 2.36 0.85 0.425 0.15 0.075 0.037 SIEVE OPENING in mm 0.002

PERCENT FINER BY WEIGHT

100 90 80 70 60 50 40 30 20 10 0

- May 4 - 11, 1999
- May 12- 17, 1999
- May 27- 30, 1999
- May 31- June 2, 1999
- June16-20, 1999
- June23,1999
- July3,1999
- July6,1999
- July25,1999
- August1,1999
- August16,1999

1000 100 10 1 0.1 0.01 0.001

GRAIN SIZE IN MILLIMETERS

FIGURE D20-4-2

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SEP 07 '99 11:31

SEP. 7.1999 11:25AM KNIGHT PIESOLD LTD. NO.838 P.29/49

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 5 OVERFLOW GRADATIONS

R:\1999\DATA\Engdata\CYCLONE DATA\[up cyclone gradations(#20-5 Summary.xls]Over Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116210
MATERIAL :	D20-5 OVERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
June 16 - 20, 1999	Cyclone #5					100.00	99.88	98.68	93.30	82.75	65.63	51.65	46.00	-	-	-	-	-
June 23,1999	Cyclone #5			100.00	99.70	99.28	97.98	93.70	83.88	70.00	57.68	40.98	36.75	-	-	-	-	-
July 3,1999	Cyclone #5		100.0	99.98	99.95	99.90	99.65	98.48	93.63	83.90	73.08	56.03	51.55	-	-	-	-	-
July 6,1999	Cyclone #5		100.0	99.95	99.90	99.85	99.70	97.58	88.60	72.58	59.50	42.93	39.13	-	-	-	-	-
July 8-11, 1999	Cyclone #5		100.0	99.95	99.85	99.68	99.18	96.38	88.40	75.85	64.25	44.03	42.20	-	-	-	-	-
July 29,1999	Cyclone #5		100.0	99.78	99.76	99.59	98.64	94.94	86.93	76.50	63.75	47.50	43.25	-	-	-	-	-
	MEDIAN	#NUM!	100.0	100.0	99.9	99.8	99.4	97.0	88.5	76.2	64.0	45.8	42.7	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	100.0	99.9	98.7	93.6	83.9	73.1	56.0	51.6	-	-	-	-	-
	MINIMUM	0.0	100.0	99.8	99.7	99.3	98.0	93.7	83.9	70.0	57.7	41.0	36.8	-	-	-	-	-

Notes: 1) These are 100% fines.

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SEP 07 '99 11:31

File: d20-5 Summary Sheet: OVER FLOT Date: 01/09/99 Time Plotted: 3:43 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-5 OVERFLOW TAILINGS SAMPLES

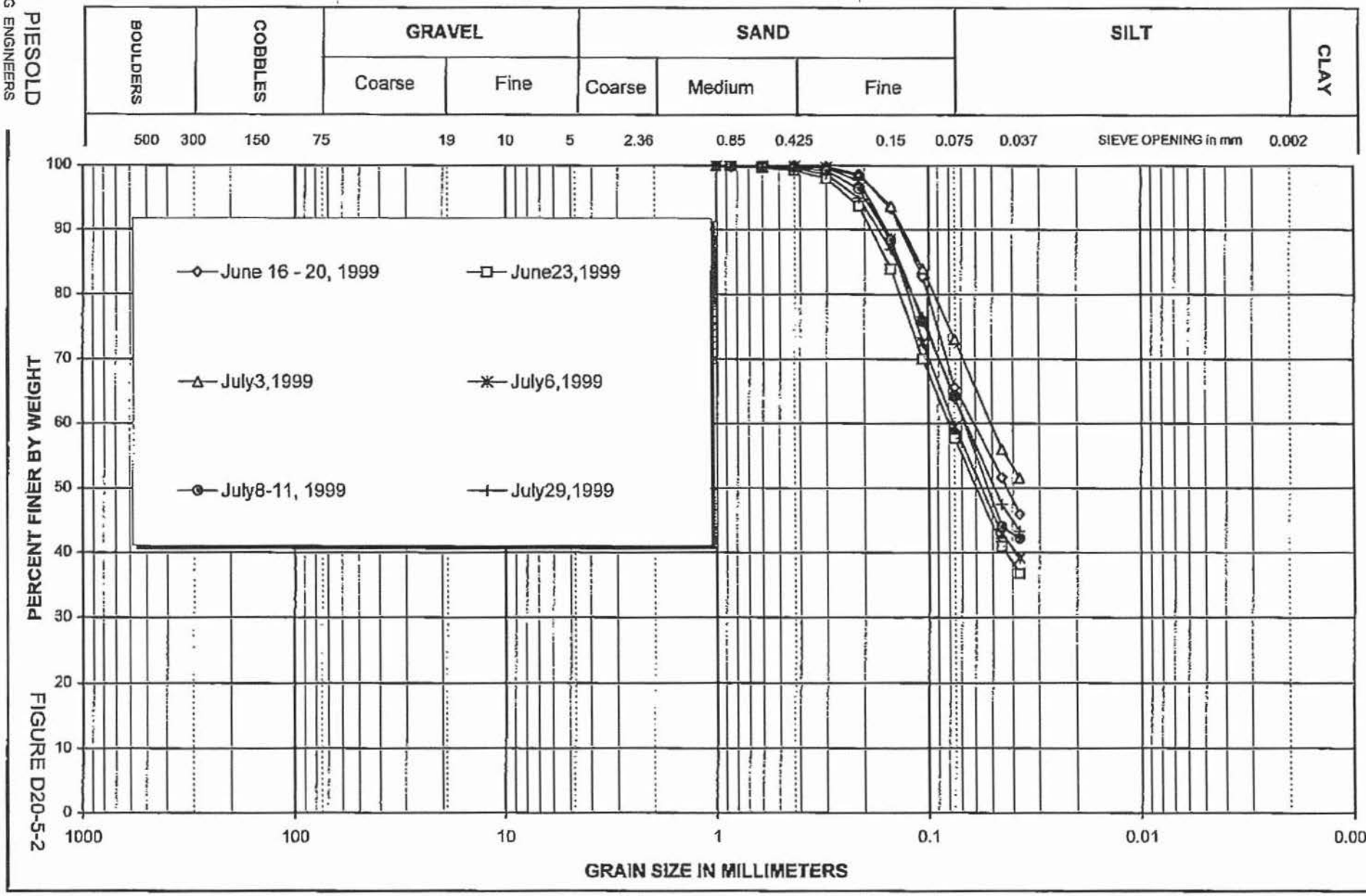


FIGURE D20-5-2

SEP. 7.1999 11:23AM FROM PULL FILTERS NO.830 P.30/40

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250 790 2268 PAGE.030

SEP 07 '99 11:31

SEP. 7.1999 11:23PM FROM FULL UTILITIES NO.030 P.32/40

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION

CYCLONE # 6 OVERFLOW GRADATIONS

E:\ENGDATA\Projects\CYCLONE DATA\dp cyclone gradations\[D20-6 Summary.xls]Data Data

Knight Piesold CONSULTING	1999 CONTROL SAMPLE TESTS - SUMMARY SHEET	SHEET : 1 of 1
		PERIOD : 31-Aug-99
PROJECT :	MOUNT POLLEY - CYCLONE TAILINGS ANALYSES	PROJECT #: 1116/10
MATERIAL :	D20-6 OVERFLOW TAILINGS SAMPLES	AREA : Tailings Storage Facility

SAMPLE	LOCATION	Particle Size Distribution																
		2.36	1.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.037	0.030	0.010	0.005	0.002	0.001
		#8	#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	Hydrometer				
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
June 16 - 20, 1999	Cyclone #6				100.00	99.93	99.35	97.00	90.00	78.33	61.95	47.98	42.35	-	-	-	-	-
June 23,1999	Cyclone #6		100.0	99.80	99.13	98.53	97.75	96.68	93.58	85.60	74.73	56.13	50.88	-	-	-	-	-
June 28,1999	Cyclone #6					100.00	99.98	99.10	93.30	80.55	66.73	44.10	38.15	-	-	-	-	-
July 6,1999	Cyclone #6					100.00	99.90	99.58	97.98	91.80	81.38	62.28	57.63	-	-	-	-	-
July 25,1999	Cyclone #6		100.0	96.15	95.83	95.30	94.63	93.15	89.35	80.70	71.05	58.45	48.88	-	-	-	-	-
August 1,1999	Cyclone #6		100.0	99.98	99.97	99.90	99.38	97.17	89.93	80.23	67.80	53.15	45.00	-	-	-	-	-
August 5,1999	Cyclone #6		100.0	99.90	99.85	99.68	99.63	96.80	91.85	83.38	73.20	61.65	49.85	-	-	-	-	-
August 16,1999	Cyclone #6			100.00	99.98	99.95	99.73	98.08	93.13	82.33	69.70	53.63	44.98	-	-	-	-	-
	MEDIAN	#NUM!	100.0	99.9	99.9	99.9	99.5	97.1	92.5	81.5	70.4	54.9	46.9	-	-	-	-	-
	MAXIMUM	0.0	100.0	100.0	100.0	100.0	100.0	99.6	98.0	91.8	81.4	62.3	57.6	-	-	-	-	-
	MINIMUM	0.0	100.0	96.2	95.8	95.3	94.6	93.2	89.4	78.3	62.0	44.1	38.2	-	-	-	-	-

Notes: 1) These are 100% limits.

INVESTIGATION KGB-2 PAGE 343 OF 500E.031

SEP 07 '99 11:31

File: d20-6 Summary Sheet: OVER FLOT Date: 01/09/99 Time Plotted: 3:49 PM

KNIGHT PIESOLD
CONSULTING ENGINEERS

MOUNT POLLEY MINING CORPORATION - MOUNT POLLEY MINE
GRADATION LIMITS
D20-6 OVERFLOW TAILINGS SAMPLES

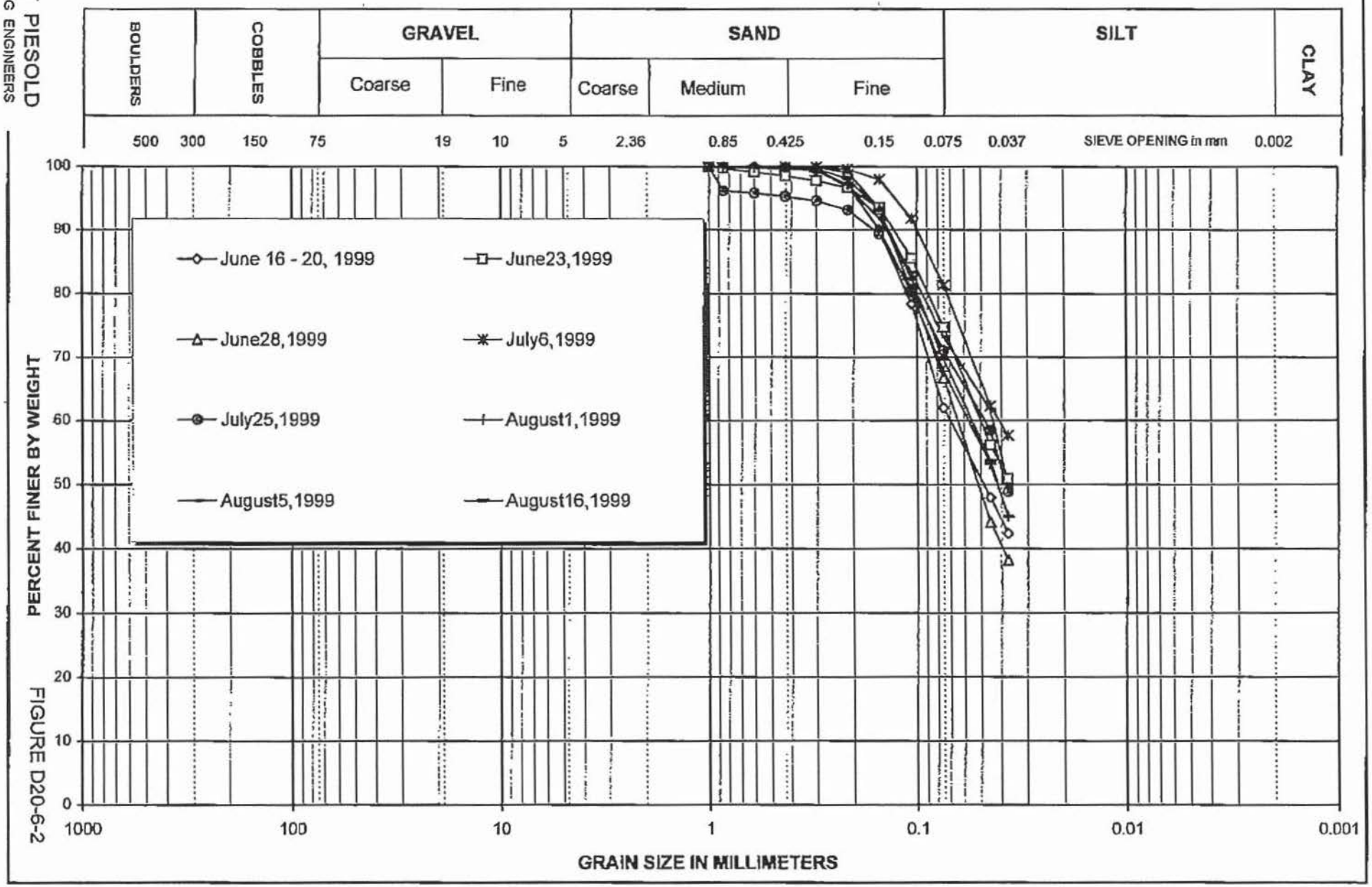


FIGURE D20-6-2

SEP. 7.1999 11:20AM FROM FULL FILING INV.030 P.32/40

INVESTIGATION KCB-2 Page 344 of 500
250 790 2268 PAGE.032

SEP. 7.1999 11:26AM MOUNT POLLEY MINING NO.836 P.33/46

SEP 07 '99 11:32 INVESTIGATION KCB-2 Page 345 of 500 250 790 2268 PAGE.033

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY

STAGE 2C CONSTRUCTION
ZONE CS RECORD TEST SUMMARY SHEET

A:\[Pc2CS-R.]Mt.Polley.wkb 04-Sep-99

Date Sampled	Sample No.	Location on Embankment	Elev. (m)	R1 Atterberg Limits			R2 Field	R3 (Particle Size Distribution) Grain Size in mm											R4 Standard Proctor		Specific	R7 Field Density		Compaction
				PL	LL	PI	m/c	3.00	0.85	0.60	0.43	0.30	0.212	0.150	0.106	0.075	0.045	0.007	Max.Dry Density	Optimum m/c	Gravity	Dry Density	m/c	
				%	%	%	%	U.S. Standard Sieve Sizes																
								#16	#20	#28	#35	#48	#65	#100	#150	#200	#325	#400	kg/m³	%		kg/m³	%	%
-	R/ZCS1-1	17+00 TOP	-	-	-	-	-	100.0	99.91	99.79	98.06	92.41	76.65	62.35	45.06	33.59	19.92	16.32	-	-	-	-	-	-
-	R/ZCS1-3	18+75 TOP	-	-	-	-	-	100.0	99.80	99.18	94.85	81.95	61.73	43.20	30.95	22.85	14.8	12.3	-	-	-	-	-	-
-	R/ZCS1-3	20+75 TOP	-	-	-	-	-	100.0	99.9	99.8	98.7	93.4	76.7	54.9	39.7	29.9	18.7	15.8	-	-	-	-	-	-
-	R/ZCS1-4	17+00 MID	-	-	-	-	-	100.0	100.0	99.8	98.9	94.8	74.7	51.1	37.9	27.6	15.9	13.4	-	-	-	-	-	-
-	R/ZCS1-5	24+00 MID	-	-	-	-	-	100.0	99.8	99.5	98.7	94.5	76.3	50.5	34.1	24.1	14.5	11.6	-	-	-	-		-
-	R/ZCS1-6	18+75 MID	-	-	-	-	-	100.0	99.1	97.9	92.4	78.8	58.3	40.5	28.9	22.0	14.3	12.2	-	-	-	-	-	-
-	R/ZCS1-7	20+75 MID	-	-	-	-	-	100.0	99.9	99.6	97.8	91.3	69.6	45.7	32.6	23.6	13.6	11.9	-	-	-	-	-	-
-	R/ZCS1-8	17+00 BTM	-	-	-	-	-	100.0	100.0	99.9	99.1	94.4	72.5	45.5	31.3	21.9	13.5	11.1	-	-	-	-	-	-
-	R/ZCS1-9	18+75 BTM	-	-	-	-	-	100.0	99.2	97.5	90.8	79.3	59.3	41.5	29.5	23.0	15.3	13.3	-	-	-	-		-
-	R/ZCS1-10	20+75 BTM	-	-	-	-	-	100.0	99.9	99.6	98.5	92.9	72.9	47.0	30.1	21.4	14.6	10.6	-	-	-	-	-	-
-	R/ZCS1-11	24+00 BTM	-	-	-	-	-	100.0	99.7	99.3	97.8	90.6	67.1	42.2	29.3	20.7	13.6	10.5	-	-	-	-	-	-
19-Aug-99	R/ZCS1-12	22+40, 15m U/S Sol.	939.0	-	-	-	11.6	100.0	100.0	99.9	99.4	96.4	82.6	60.3	42.1	30.6	17.7	15.5	1675	17.3	-	1621	11.6	96.8
19-Aug-99	R/ZCS1-13	20+00, 10m U/S Sol.	940.0	-	-	-	3.3	100.0	99.9	99.6	98.0	91.5	71.0	50.0	34.7	25.0	14.2	12.3	1720	17.0	-	1619	3.3	94.1
	20° Cyclone Average	-	-	-	-	-	-	100.0	99.9	99.8	99.4	96.8	87.8	64.6	40.7	26.0	15.4	12.1	-	-	-	-	-	-
		MEAN		#DIV/0!	#DIV/0!	#DIV/0!	7.5	100.0	99.8	99.4	97.3	90.6	71.9	49.9	34.8	25.2	15.4	12.8	1698	17.2	#DIV/0!	1620	7.5	95.5
		MEDIAN		#NUM!	#NUM!	#NUM!	7.5	100.0	99.9	99.6	98.3	92.6	72.7	48.5	33.4	23.8	14.7	12.2	1698	17.2	#NUM!	1620	7.5	95.5
		MAXIMUM		0.0	0.0	0.0	11.6	100.0	100.0	99.9	99.4	96.8	87.8	64.6	45.1	33.6	19.9	16.3	1720	17.3	0.00	1621	11.6	96.8
		MINIMUM		0.0	0.0	0.0	3.3	100.0	99.1	97.5	90.8	78.8	58.3	40.5	28.9	20.7	13.5	10.5	1675	17.0	0.00	1619	3.3	94.1

Notes:

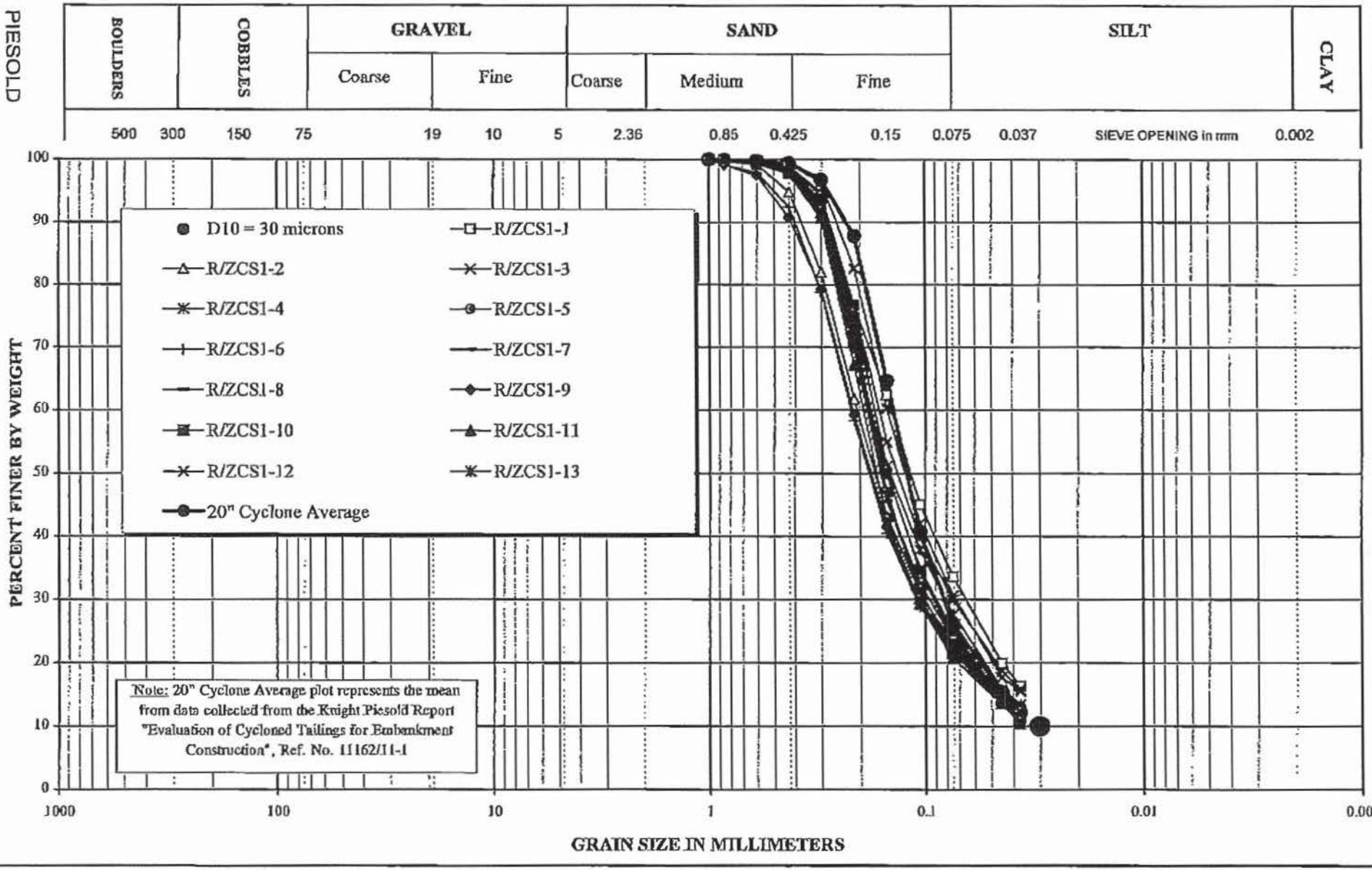
1. Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Specific Gravity (ASTM D854)
R7 Density by Nuclear Methods (ASTM D2922)

SEP 07 '99 11:32
SEP. 7.1999 11:20AM MOUNT POLLEY MINING NO.030 P.34/40
INVESTIGATION\99-2\2885\46 of 500E.034

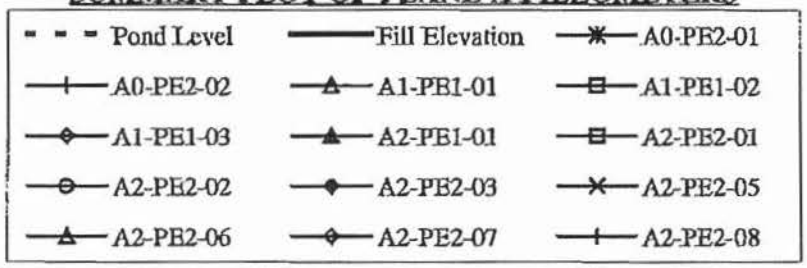
KNIGHT PIESOLD
CONSULTING ENGINEERS

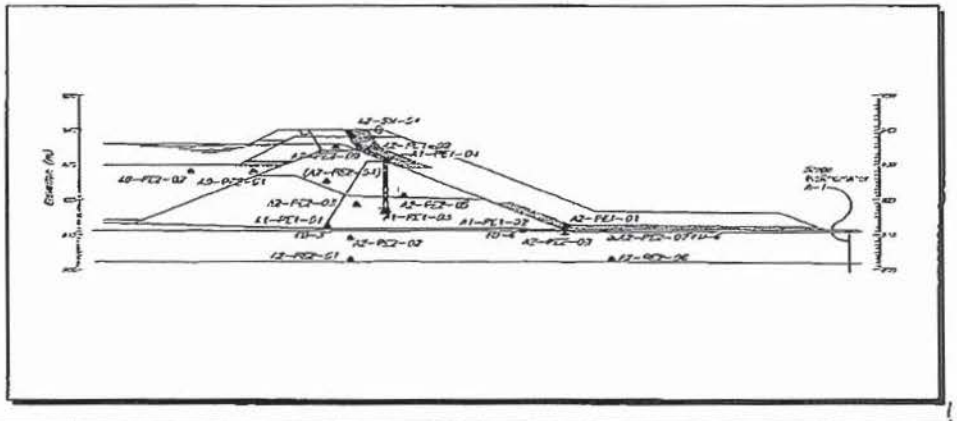
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE - TAILINGS STORAGE FACILITY
STAGE 2C CONSTRUCTION
ZONE CS1 - RECORD SAMPLES - GRADATION CURVES



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CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE A PIEZOMETERS





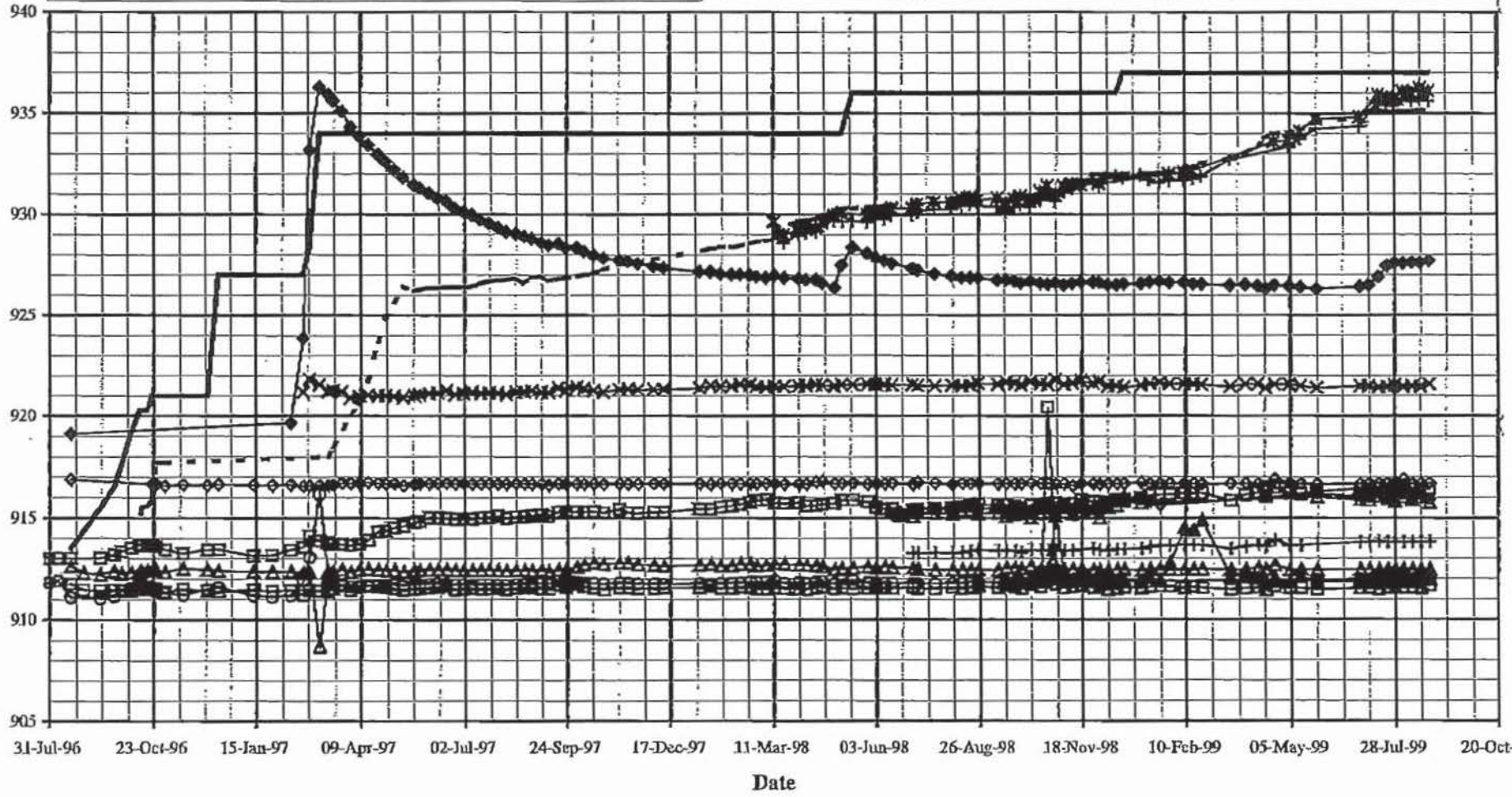
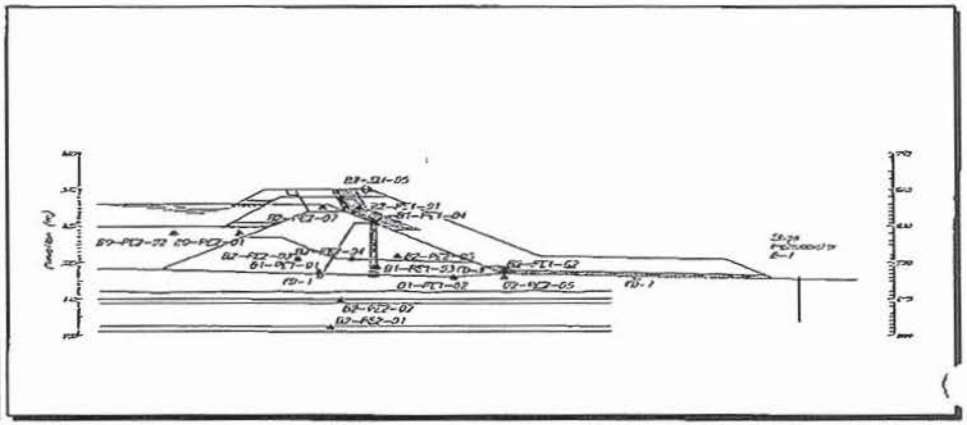


FIGURE 1

KNIGHT PIESOLD
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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE B PIEZOMETERS



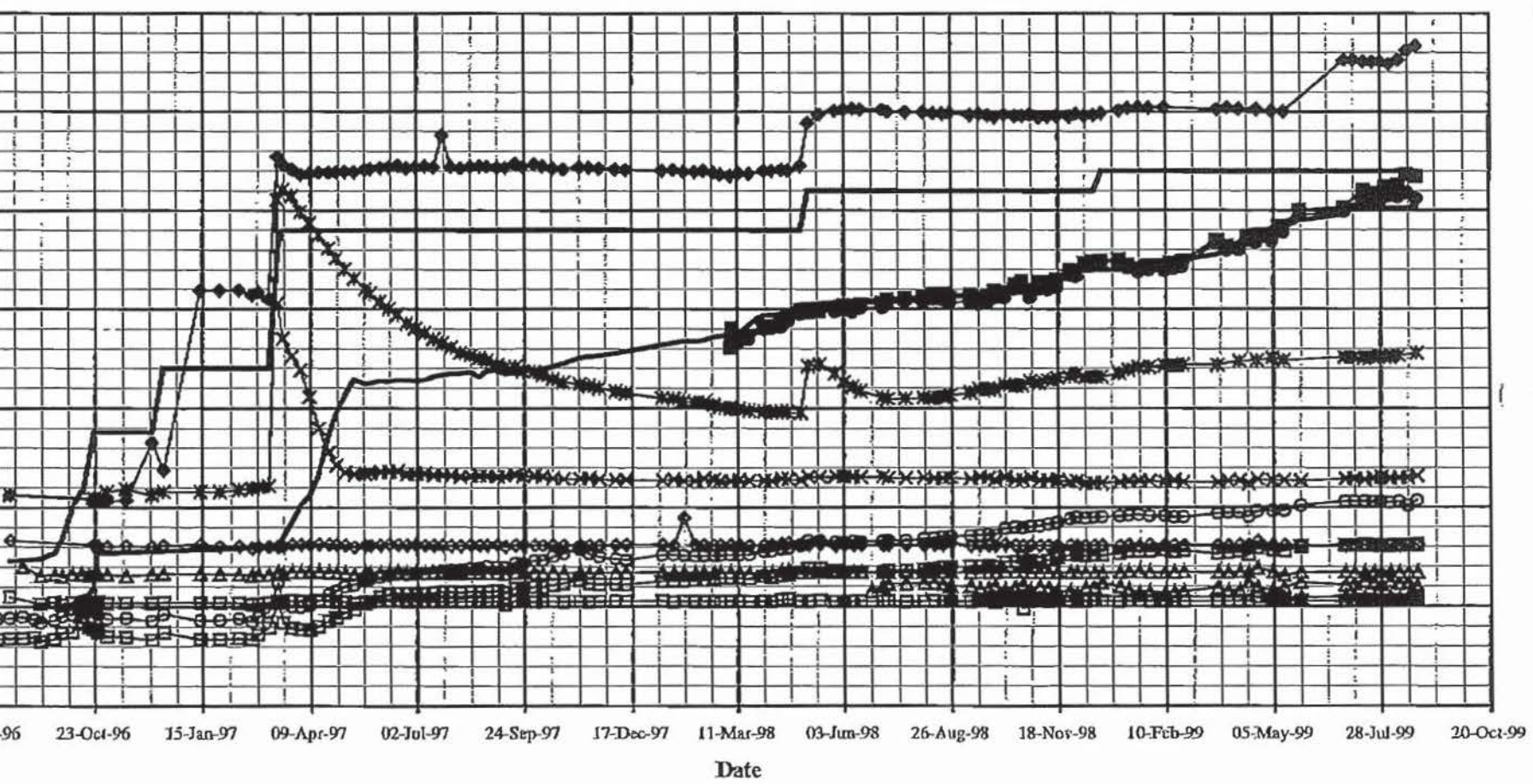
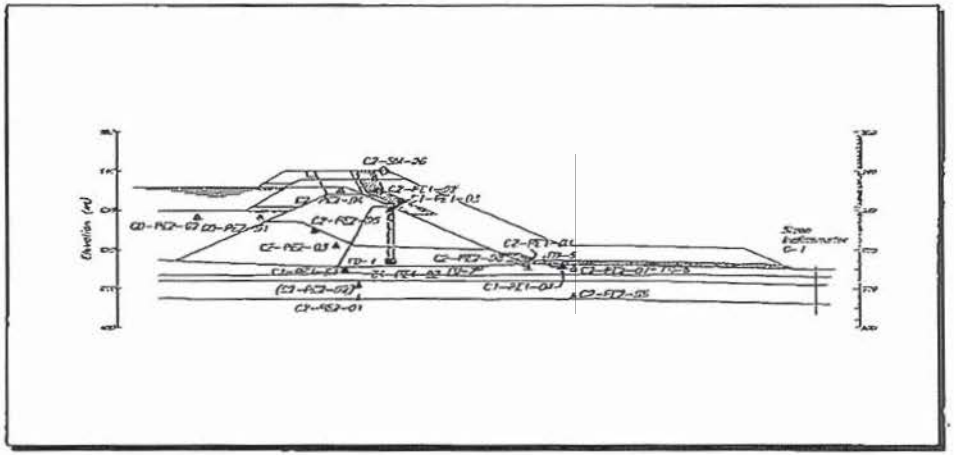


FIGURE 2

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE C PIEZOMETERS



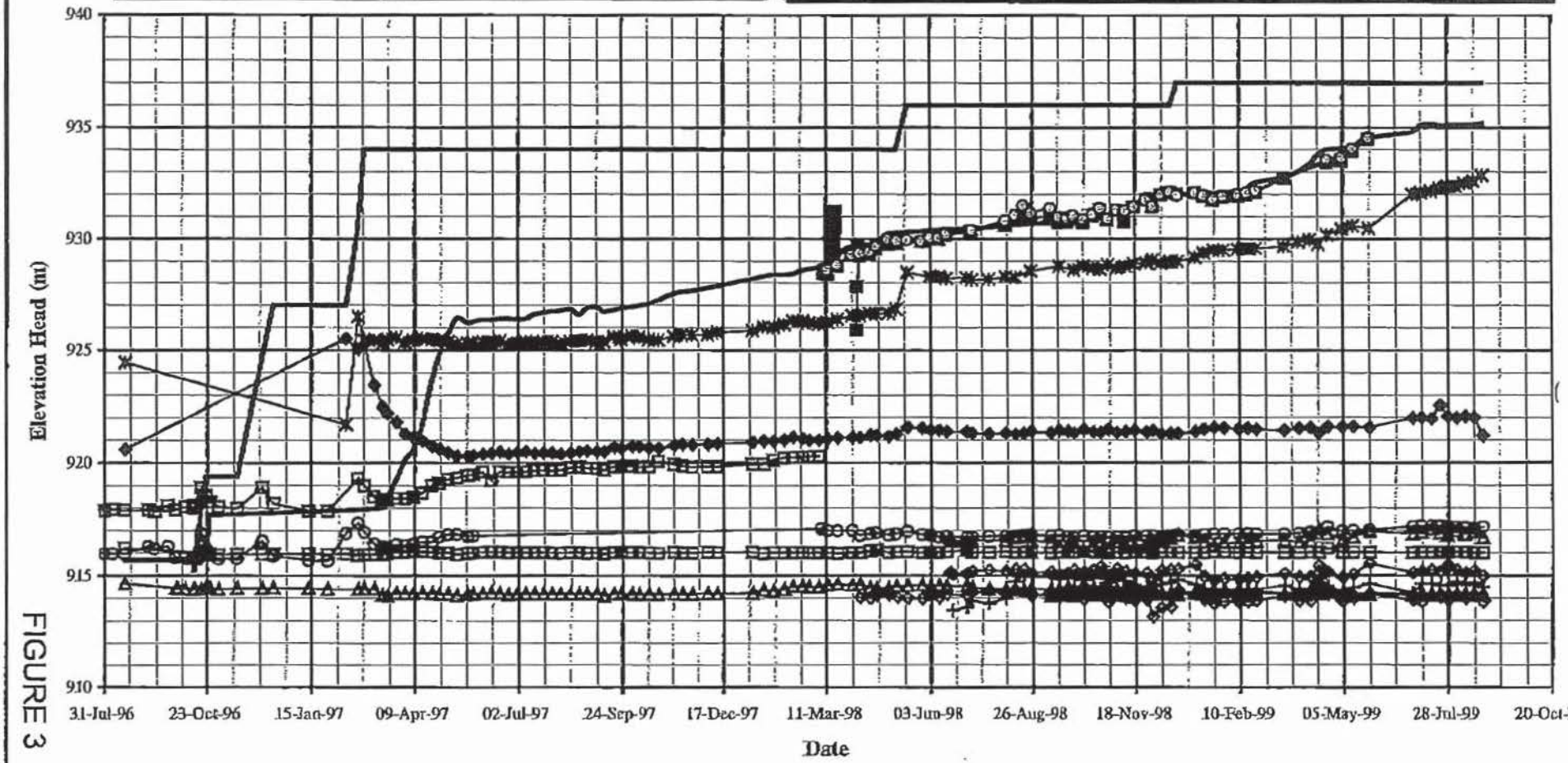
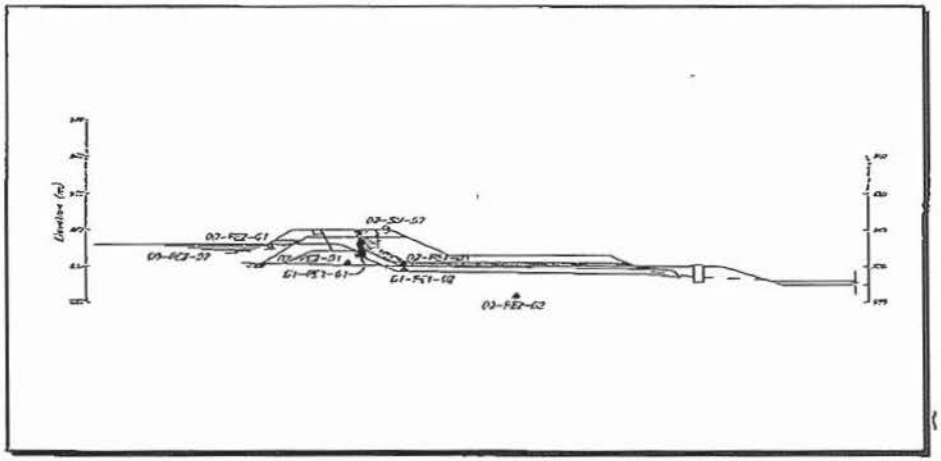


FIGURE 3

SEP 07 '99 11:34

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE D PIEZOMETERS



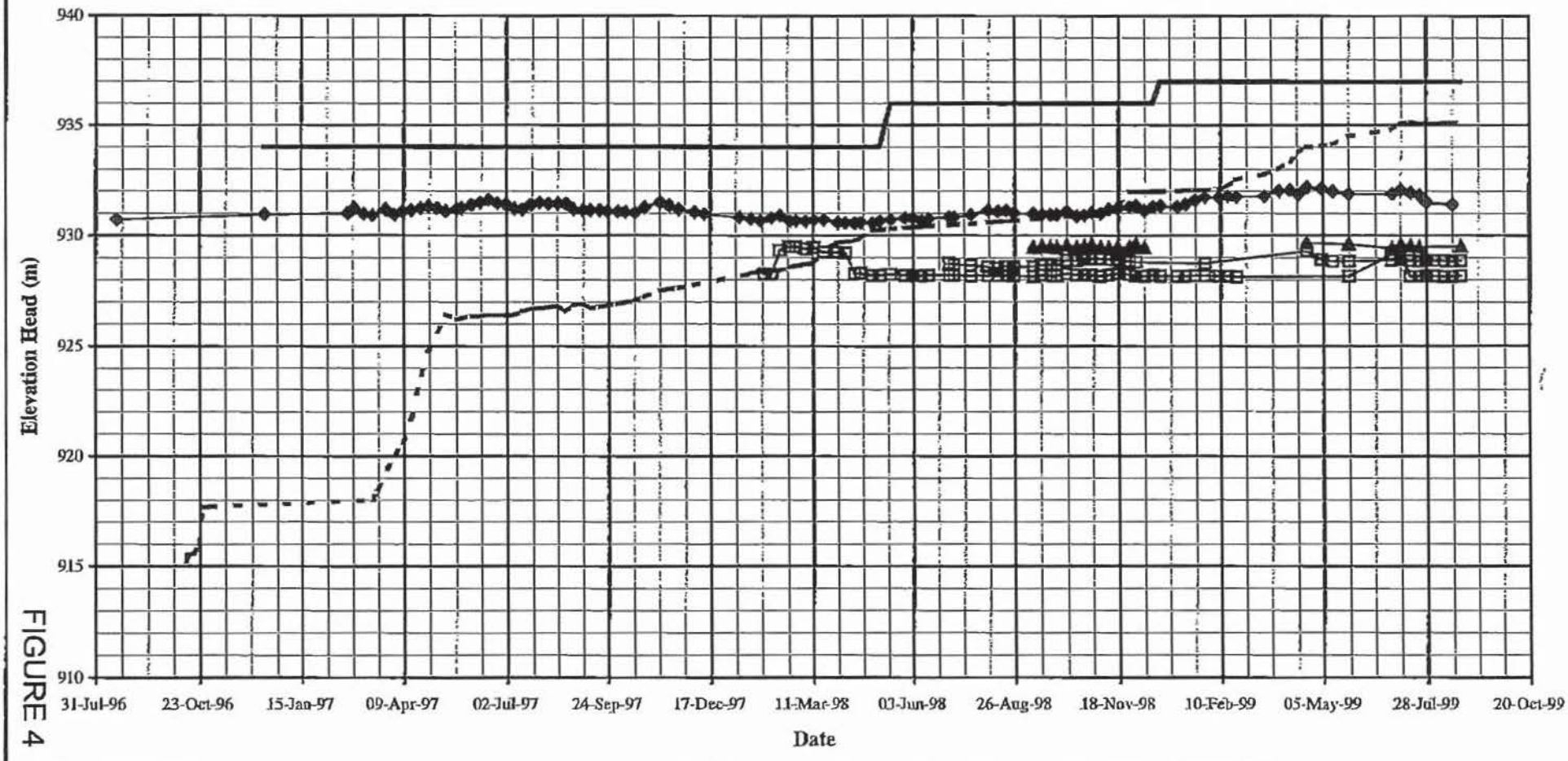


FIGURE 4

SEP. 07 1999 11:07AM KNIGHT PIESOLD LTD. NO. 030 P. 38/40

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250 790 2268 PAGE.038

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
SUMMARY PLOT OF PLANE E PIEZOMETERS

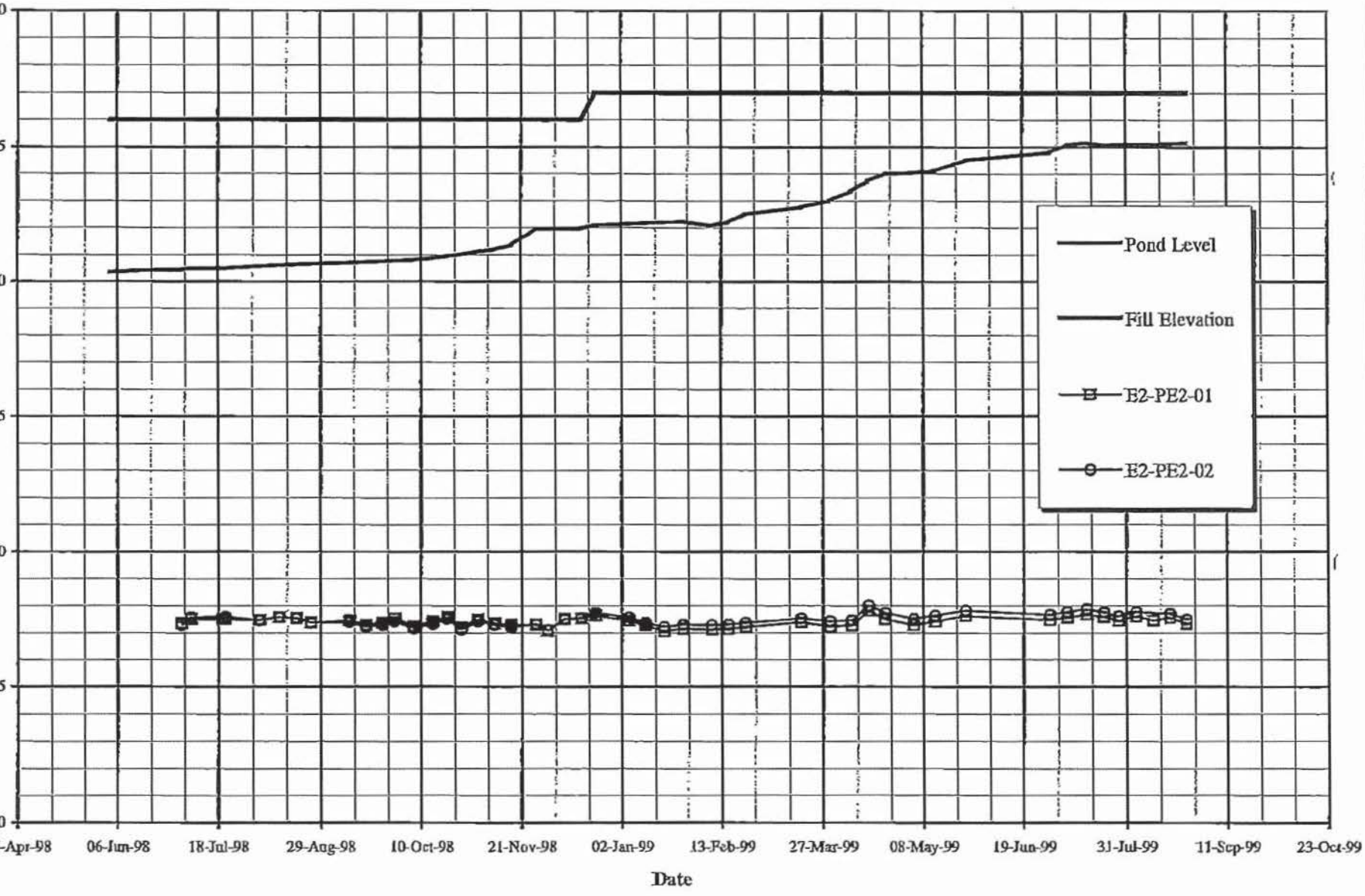


FIGURE 5

SEP 07 '99 11:34

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE A FOUNDATION PIEZOMETERS

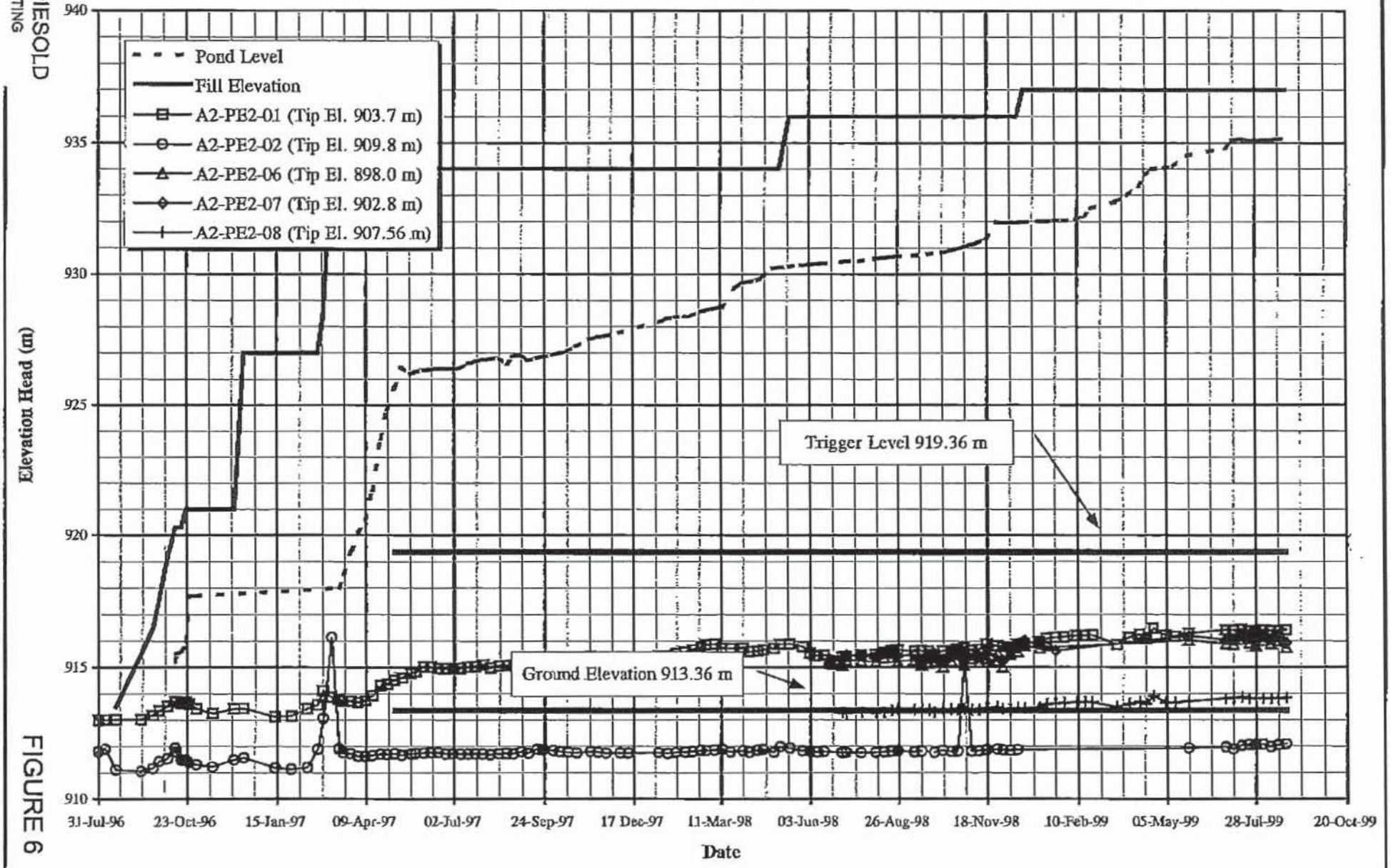


FIGURE 6

SEP. 7.1999 11:28AM MOUNT POLLEY MINING INV.838 P.40/48

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250 790 2268 PAGE.040

KNIGHT PIÉSOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE B FOUNDATION PIEZOMETERS

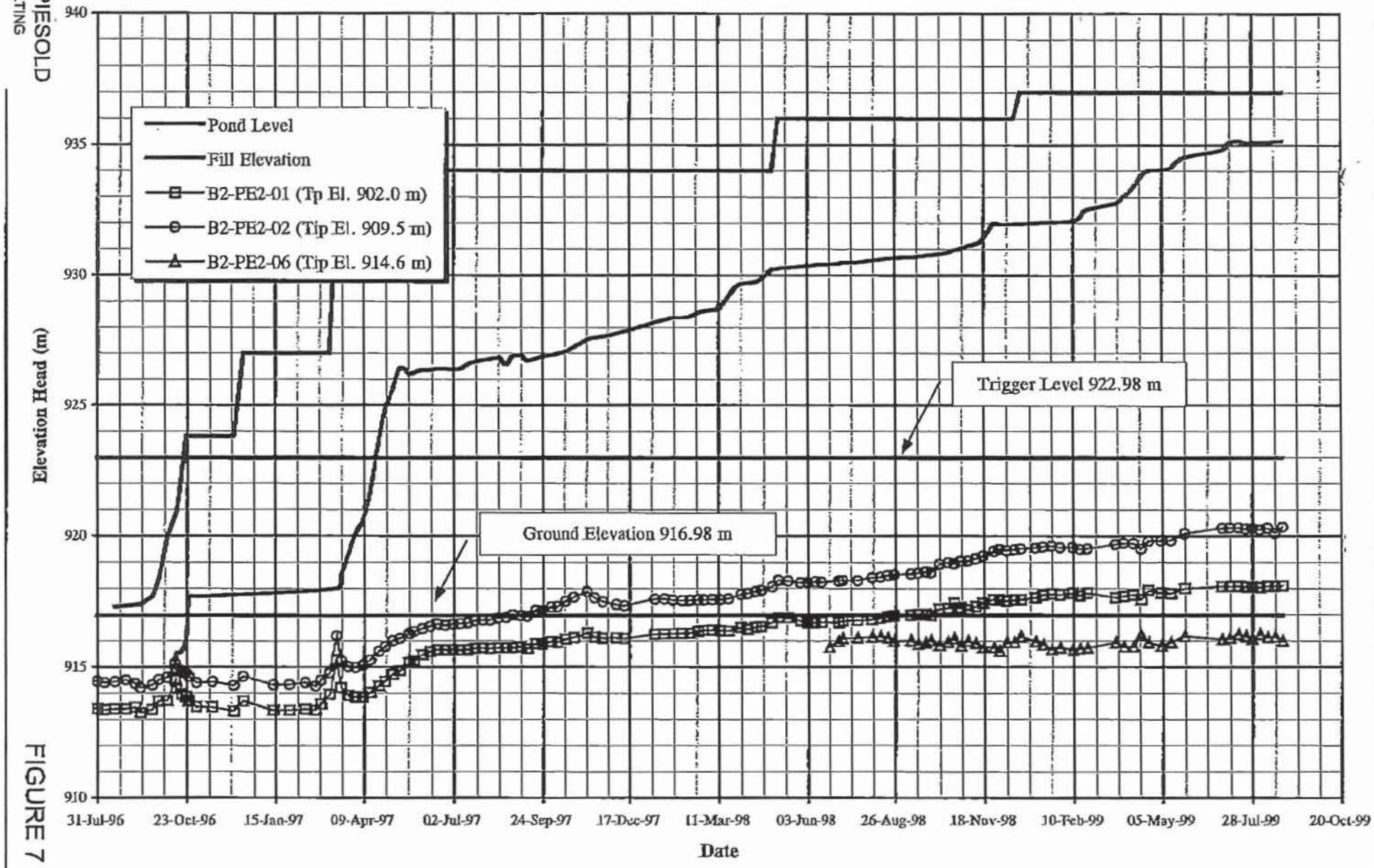


FIGURE 7

250 790 2268 PAGE.041

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE C FOUNDATION PIEZOMETERS

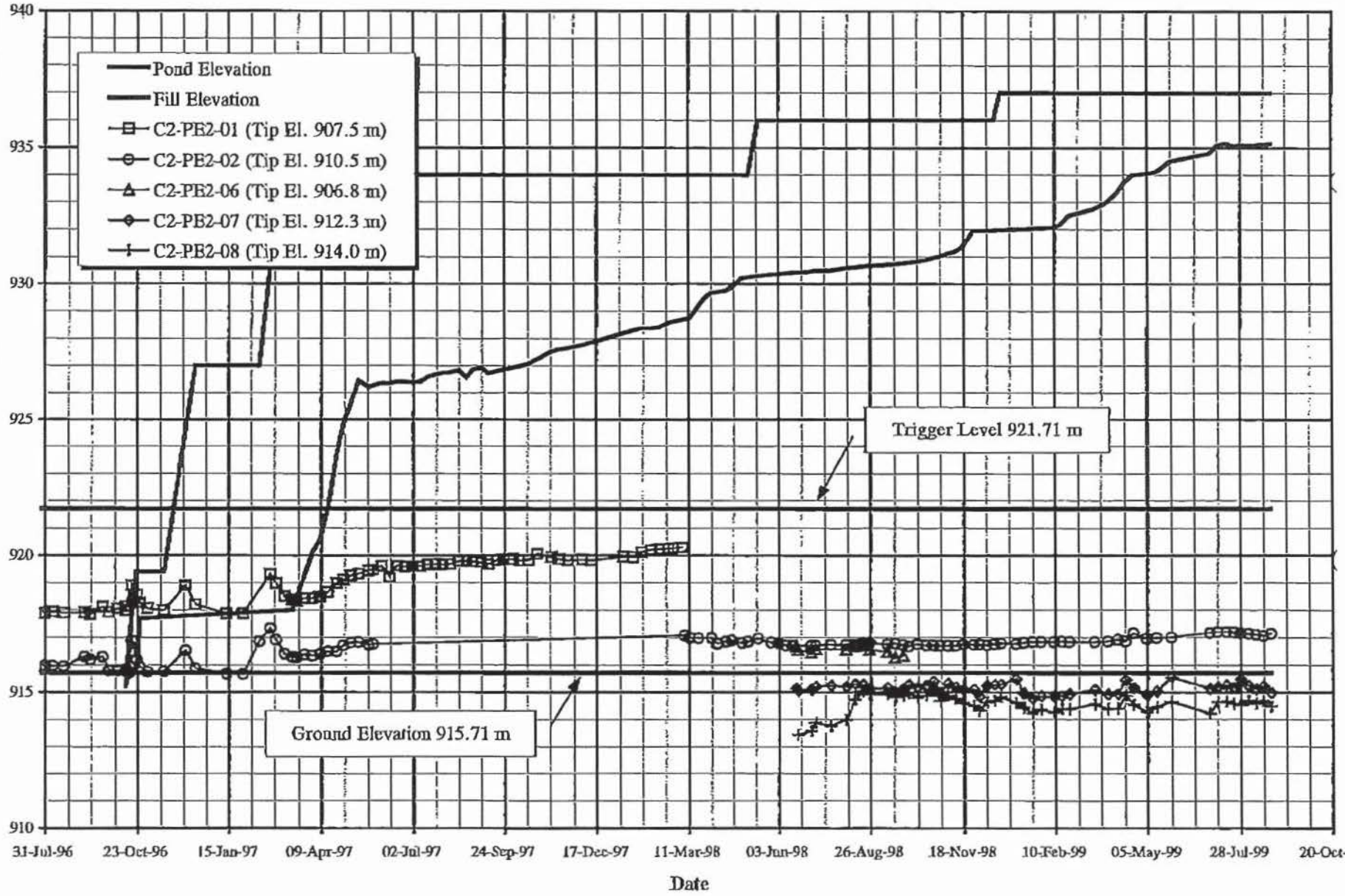


FIGURE 8

SEP 07 '99 11:35

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE D FOUNDATION PIEZOMETERS

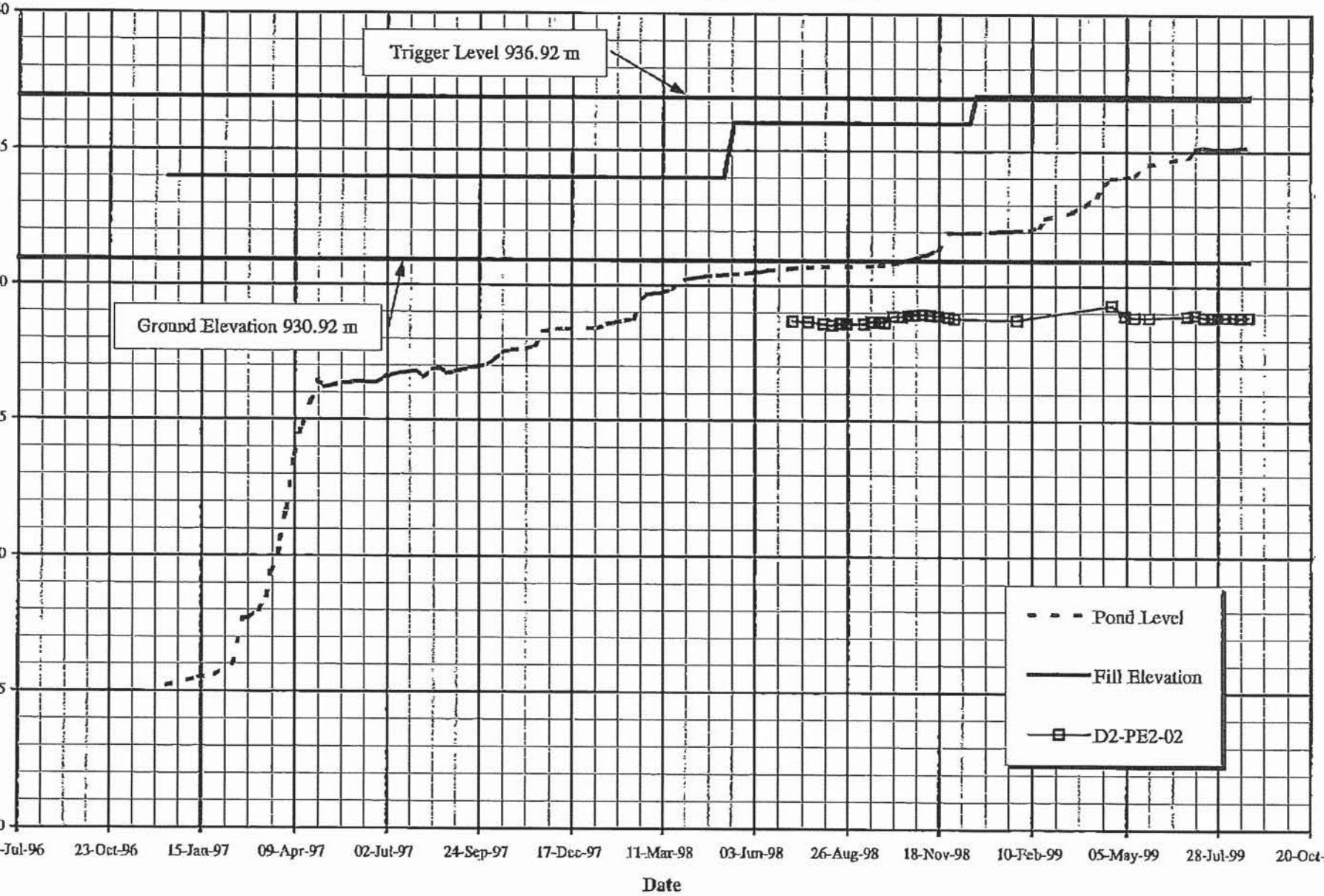


FIGURE 9

SEP. 7.1999 11:29AM MOUNT POLLEY MINING NO.030 P.43/48

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SEP 07 '99 11:36

KNIGHT PIESOLD
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY
PLANE E FOUNDATION PIEZOMETERS

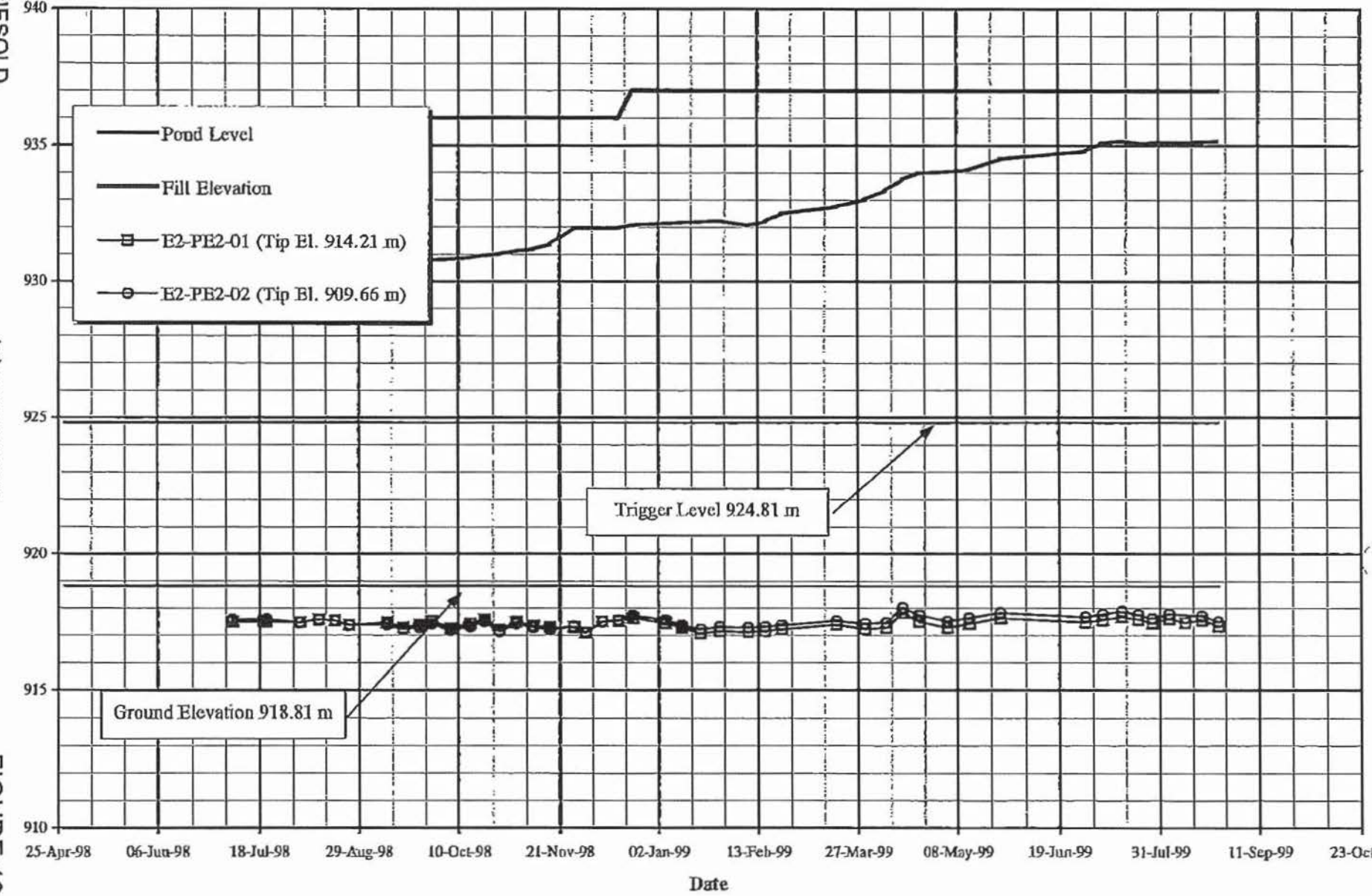


FIGURE 10

SEP. 7.1999 11:23AM KNIGHT PIESOLD NO.838 P.444/4D

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SEP 07 '99 11:36

SEP. 7.1999 11:36AM MOUNT POLLEY MINING NO.856 P.45/45

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

SUMMARY OF DRAIN FLOW DATA

P:\ENGDATA\Engineer\Geotechnical\Weekly Piezo Readings\[Piezo.xls]Data

Note: The elevation for the top of the casing for Ground Water Well GW96-9 is approximately 916.78 m. The ground elevation is 916.18 m.

September 4, 1999

SAMPLING DATE	FD-1			FD-2			FD-3			FD-4			FD-5			Tot(a) Flow Rate			Pond El (m)	GW96-9 (GW Well) Elev. Above Top of Casing of well 9 (m)
	Flow Rate			Flow Rate			Flow Rate			Flow Rate			Flow Rate							
Date	FD1(l/min)	(l/sec)	Comments	FD2(l/min)	(l/sec)	Comments	FD3(l/min)	(l/sec)	Comments	FD4(l/min)	(l/sec)	Comments	FD5(l/min)	(l/sec)	Comments	Tot(l/min)	(l/sec)	Comments	Pond Elev.	
28-Aug-96	4.62	0.08	Clear	0.49	0.01	Clear	5.37	0.09	Clear	1.77	0.03	Tr. cloudy	-	-	-	12.25	0.20	FD-3, FD-4 incomplete		
01-Sep-96	3.55	0.06	Clear	0.82	0.01	Clear	6.56	0.11	Cloudy	1.25	0.02	V. Cloudy	-	-	-	12.18	0.20	FD-3, FD-4 incomplete		
05-Sep-96	2.60	0.04	Clear	0.62	0.01	Clear	2.71	0.05	Clear	0.93	0.02	Cloudy	-	-	-	6.86	0.11	FD-3, FD-4 incomplete		
10-Sep-96	2.04	0.03	Clear	0.66	0.01	Clear	2.17	0.04	Clear	0.81	0.01	Clear	-	-	-	5.68	0.09	FD-3, FD-4 incomplete		
27-Sep-96	3.10	0.05	Clear	0.70	0.01	Clear	3.10	0.05	Clear	1.00	0.02	Clear	-	-	-	7.90	0.13	FD-3, FD-4 incomplete		
05-Oct-96	4.94	0.08	Clear	0.77	0.01	Clear	4.33	0.07	Tr. cloudy	6.16	0.10	Tr. cloudy	-	-	-	16.20	0.27	FD-3, FD-4 incomplete		
12-Oct-96	3.90	0.07	Clear	1.00	0.02	Clear	3.50	0.06	Clear	1.80	0.03	Clear	-	-	-	10.20	0.17	FD-3, FD-4 incomplete	915.20	
13-Oct-96	4.20	0.07	Clear	0.90	0.02	Clear	13.50	0.23	Clear	1.70	0.03	Clear	-	-	-	20.30	0.34	FD-3 complete, FD-4 incomplete	915.50	
14-Oct-96	3.80	0.06	Clear	1.00	0.02	Clear	15.00	0.25	Clear	5.40	0.09	Clear	-	-	-	25.20	0.42	FD-3 complete, FD-4 complete	915.29	
17-Oct-96	5.90	0.10	Clear	0.80	0.01	Clear	16.60	0.28	Clear	5.40	0.09	Clear	-	-	-	28.70	0.48		915.44	
18-Oct-96	9.80	0.16	Clear	1.00	0.02	Clear	26.10	0.44	Clear	9.00	0.15	Clear	-	-	-	45.90	0.77		915.50	
22-Oct-96	6.20	0.10	Clear	0.80	0.01	Clear	20.40	0.34	Clear	5.90	0.10	Clear	-	-	-	33.90	0.56		915.63	
27-Oct-96	6.00	0.10	Clear	1.50	0.03	Clear	24.20	0.40	Clear	6.40	0.11	Clear	-	-	-	38.10	0.64		916.00	
15-Mar-97	3.89	0.06	Clear	1.35	0.02	Clear	8.91	0.15	Clear	3.19	0.05	Clear	-	-	-	17.34	0.29	pig installed, sump pumped out	918.00	
16-Mar-97	3.48	0.06	Clear	1.15	0.02	Clear	8.37	0.14	Clear	2.87	0.05	Clear	-	-	-	15.88	0.26	pig installed, sump pumped out	918.20	
02-Apr-97	2.10	0.04	Clear	1.12	0.02	Clear	8.40	0.14	Clear	3.46	0.06	Clear	-	-	-	15.08	0.25	pig installed, sump pumped out	920.27	
23-Apr-97	4.14	0.07	Clear	0.94	0.02	Clear	11.56	0.19	Clear	2.35	0.04	Clear	-	-	-	18.99	0.32	pig installed, sump pumped out	923.70	
24-Apr-97	3.16	0.05	Clear	0.84	0.01	Clear	12.73	0.21	Clear	2.05	0.03	Clear	-	-	-	18.78	0.31	pig installed, sump pumped out	923.75	
29-Apr-97	2.90	0.05	Clear	0.59	0.01	Clear	10.32	0.17	Clear	1.71	0.03	Clear	-	-	-	15.52	0.26	pig installed, sump pumped out	924.81	
08-May-97	3.60	0.06	Clear	0.76	0.01	Clear	14.15	0.24	Clear	1.92	0.03	Clear	-	-	-	20.43	0.34	pig out, pumped down	925.86	
13-May-97	4.04	0.07	Clear	0.79	0.01	Clear	14.85	0.25	Clear	1.95	0.03	Clear	-	-	-	21.63	0.36	pig out, pumped down	926.43	
20-May-97	4.11	0.07	Clear	0.77	0.01	Clear	17.09	0.28	Clear	1.85	0.03	Clear	-	-	-	23.82	0.40	pig out, pumped down	926.20	
28-May-97	3.99	0.07	Clear	0.80	0.01	Clear	15.71	0.26	Clear	1.87	0.03	Clear	-	-	-	22.37	0.37	pig out, pumped down	926.25	
10-Jun-97	4.15	0.07	Clear	0.82	0.01	Clear	18.35	0.31	Clear	1.89	0.03	Clear	-	-	-	25.21	0.42	pig out, pumped down	926.34	
17-Jun-97	4.10	0.07	Clear	0.78	0.01	Clear	19.93	0.33	Clear	1.85	0.03	Clear	-	-	-	26.66	0.44	pig out, pumped down	926.40	
24-Jun-97	3.97	0.07	Clear	0.84	0.01	Clear	17.24	0.29	Clear	1.83	0.03	Clear	-	-	-	23.88	0.40	pig out, pumped down	926.39	
01-Jul-97	3.93	0.07	Clear	0.69	0.01	Clear	14.72	0.25	Clear	1.73	0.03	Clear	-	-	-	21.07	0.35	pig out, pumped down	926.38	
08-Jul-97	4.05	0.07	Clear	0.72	0.01	Clear	18.07	0.30	Clear	1.88	0.03	Clear	-	-	-	24.72	0.41	pig out, pumped down	926.39	
15-Jul-97	4.11	0.07	Clear	0.88	0.01	Clear	15.38	0.26	Clear	2.24	0.04	Clear	-	-	-	22.61	0.38	pig out, pumped down	926.57	
22-Jul-97	4.06	0.07	Clear	0.91	0.02	Clear	15.83	0.26	Clear	2.05	0.03	Clear	-	-	-	22.85	0.38	pig out, pumped down	926.66	
29-Jul-97	4.40	0.07	Clear	0.85	0.01	Clear	20.48	0.34	Clear	2.11	0.04	Clear	-	-	-	27.84	0.46	pig out, pumped down	926.73	
05-Aug-97	4.13	0.07	Clear	0.79	0.01	Clear	18.35	0.31	Clear	1.97	0.03	Clear	-	-	-	25.24	0.42	pig out, pumped down	926.75	
13-Aug-97	4.12	0.07	Clear	0.78	0.01	Clear	24.19	0.40	Clear	2.02	0.03	Clear	-	-	-	31.11	0.52	pig out, pumped down	926.82	
20-Aug-97	4.13	0.07	Clear	0.76	0.01	Clear	15.96	0.27	Clear	1.80	0.03	Clear	-	-	-	22.64	0.38	pig out, pumped down	926.75	
26-Aug-97	4.62	0.08	Clear	0.76	0.01	Clear	18.75	0.31	Clear	1.92	0.03	Clear	-	-	-	26.05	0.43	pig out, pumped down	926.86	
03-Sep-97	4.48	0.07	Clear	0.76	0.01	Clear	16.95	0.28	Clear	1.76	0.03	Clear	-	-	-	23.95	0.40	pig out, pumped down	926.93	
09-Sep-97	4.57	0.08	Clear	0.75	0.01	Clear	16.04	0.27	Clear	1.81	0.03	Clear	-	-	-	23.17	0.39	pig out, pumped down	926.71	
17-Sep-97	4.62	0.08	Clear	0.77	0.01	Clear	16.71	0.28	Clear	1.78	0.03	Clear		-	-	23.88	0.40	pig out, pumped down	926.88	
23-Sep-97	4.64	0.08	Clear	0.78	0.01	Clear	17.75	0.30	Clear	1.83	0.03	Clear	-	-	-	25.00	0.42	pig out, pumped down	926.85	
02-Oct-97	4.78	0.08	Clear	0.82	0.01	Clear	16.76	0.28	Clear	1.86	0.03	Clear	-	-	-	24.22	0.40	pig out, pumped down	926.92	0.055
08-Oct-97	4.69	0.08	Clear	0.81	0.01	Clear	16.01	0.27	Clear	1.95	0.03	Clear	-	-	-	23.46	0.39	pig out, pumped down	926.97	0.055
16-Oct-97	5.14	0.09	Clear	1.11	0.02	Clear	17.86	0.30	Clear	2.31	0.04	Clear	-	-	-	26.42	0.44	pig out, pumped down	927.06	0.095
24-Oct-97	5.13	0.09	Clear	0.92	0.02	Clear	16.23	0.27	Clear	1.98	0.03	Clear	-	-	-	24.26	0.40	pig out, pumped down	927.23	0.095
06-Nov-97	5.51	0.09	Clear	1.20	0.02	Clear	17.70	0.30	Clear	2.39	0.04	Clear	-	-	-	26.80	0.45	pig out, pumped down	927.51	Frozen
13-Nov-97	4.90	0.08	Clear	0.65	0.01	Clear	18.58	0.31	Clear	1.87	0.03	Clear	-	-	-	26.00	0.43	pig out, pumped down	927.60	Frozen

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SEP 07 '99 11:37

SEP. 7.1999 11:30AM MOUNT POLLEY MINING INV.838 P.46/46

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY

SUMMARY OF DRAIN FLOW DATA

I:\ENG\DATA\Engdata\Geotechnical\Weekly Hours Readings\[FD-mon.xls]Data

Note: The elevation for the top of the casing for Ground Water Well GW96-9 is approximately 936.78 m. The ground elevation is 937.18 m.

September 4, 1999

SAMPLING DATE	FD-1			FD-2			FD-3			FD-4			FD-5			Total Flow Rate			Pond El (m)	GW96-9 (GW Well) Elev. Above Top of Casing at well 9 (m)
	Flow Rate			Flow Rate			Flow Rate			Flow Rate			Flow Rate							
Date	FD1(l/min)	(l/sec)	Comments	FD2(l/min)	(l/sec)	Comments	FD3(l/min)	(l/sec)	Comments	FD4(l/min)	(l/sec)	Comments	FD5(l/min)	(l/sec)	Comments	Tot(l/min)	(l/sec)	Comments	Pond Elev.	
24-Aug-96	4.62	0.08	Clear	0.90	0.01	Clear	18.36	0.30	Clear	1.79	0.03	Tr Cloudy	-	-	-	25.85	0.29	FD-3 of FD-4 pipes reversed	927.63	Frozen
28-Nov-97	4.14	0.07	Clear	0.77	0.01	Clear	18.18	0.30	Clear	1.85	0.03	Clear	-	-	-	24.94	0.42	pig out, pumped down	927.65	Frozen
04-Dec-97	4.03	0.07	Clear	0.85	0.01	Clear	17.67	0.29	Clear	1.78	0.03	Clear	-	-	-	24.33	0.41	pig out, pumped down	927.75	Frozen
02-Jan-98	3.81	0.06	Clear	0.74	0.01	Clear	16.30	0.27	Clear	1.73	0.03	Clear	-	-	-	22.58	0.38	pig out, pumped down	928.10	Frozen
14-Jan-98	3.85	0.06	Clear	0.80	0.01	Clear	16.57	0.28	Clear	1.77	0.03	Clear	-	-	-	22.99	0.38	pig out, needs pumping	928.25	Frozen
21-Jan-98	3.57	0.06	Clear	0.74	0.01	Clear	16.42	0.27	Clear	1.82	0.03	Clear	-		-	22.55	0.38	pig out, needs pumping	928.30	Frozen
08-Apr-98	3.84	0.06	Clear	0.67	0.01	Clear	15.54	0.26	Clear	1.52	0.03	Clear	-	-	-	21.57	0.36	pig out, pond pumped down	929.70	-
17-Apr-98	3.82	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	1.37	0.02	Clear	6.33	0.11	Clear	27.79	0.46	pig out, pond pumped down	929.85	-
25-May-98	3.82	0.06	Clear	0.69	0.01	Clear	15.58	0.26	Clear	1.37	0.02	Clear	6.33	0.11	Clear	27.79	0.46	pig out, pond pumped down	930.10	-
02-Jun-98	3.52	0.06	Clear	0.78	0.01	Clear	15.58	0.26	Clear	1.42	0.02	Clear	6.80	0.11	Clear	28.10	0.47	pig out, pond pumped down	930.36	-
10-Jun-98	3.83	0.06	Clear	0.79	0.01	Clear	14.60	0.24	Clear	1.44	0.02	Clear	7.51	0.13	Clear	28.17	0.47	pig out, pond pumped down	930.39	-
16-Jun-98	3.77	0.06	Clear	0.78	0.01	Clear	16.35	0.27	Clear	1.41	0.02	Clear	7.93	0.13	Clear	30.24	0.50	pig out, pond pumped down	930.42	-
03-Jul-98	3.89	0.06	Clear	0.76	0.01	Clear	16.14	0.27	Clear	2.37	0.04	Clear	12.53	0.21	Clear	35.69	0.59	FD-5 is spilling onto FD-4 providing higher values than normal	930.45	-
07-Jul-98	3.71	0.06	Clear	0.72	0.01	Clear	16.03	0.27	Clear	2.22	0.04	Clear	9.66	0.16	Clear	32.34	0.54	negative value is below top of casing	930.50	-0.135
24-Jul-98	3.53	0.06	Clear	0.72	0.01	Clear	15.75	0.26	Clear	1.96	0.03	Clear	8.70	0.15	Clear	30.66	0.51	-	930.58	0.28
12-Aug-98	3.46	0.06	Clear	0.62	0.01	Clear	15.96	0.27	Clear	1.90	0.03	Clear	7.50	0.12	Clear	29.24	0.49	-	930.61	0.33
19-Aug-98	3.17	0.05	Clear	0.56	0.01	Clear	15.83	0.26	Clear	2.26	0.04	Clear	8.08	0.13	Clear	29.90	0.50	-	930.64	-
10-Sep-98	3.60	0.06	Clear	0.57	0.01	Clear	16.35	0.27	Clear	2.03	0.03	Clear	8.02	0.13	Clear	30.57	0.51	-	930.70	-
17-Sep-98	3.53	0.06	Clear	0.63	0.01	Clear	16.42	0.27	Clear	2.20	0.04	Clear	8.52	0.14	Clear	31.30	0.52	-	930.73	-
24-Sep-98	3.62	0.06	Clear	0.64	0.01	Clear	15.64	0.26	Clear	2.06	0.03	Clear	7.77	0.13	Clear	29.73	0.50	-	930.77	-
07-Oct-98	3.72	0.06	Clear	1.06	0.02	Clear	14.22	0.24	Clear	2.36	0.04	Clear	13.39	0.22	Clear	34.74	0.58	positive value is above top of casing	930.81	0.18
15-Oct-98	3.82	0.06	Clear	1.10	0.02	Clear	14.53	0.24	Clear	2.56	0.04	Clear	15.83	0.26	Clear	37.84	0.63	-	930.87	
21-Oct-98	3.94	0.07	Clear	1.12	0.02	Clear	15.35	0.26	Clear	2.95	0.05	Clear	18.46	0.31	Clear	41.82	0.70	-	930.95	
17-Nov-98	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Sump flooded,needs to be pumped		0.11
27-Nov-98	4.21	0.07	Clear	1.01	0.02	Clear	14.28	0.24	Clear	2.35	0.04	Clear	11.76	0.20	Clear	33.62	0.56		931.35	-0.03
02-Dec-98	4.35	0.07	Clear	0.92	0.02	Clear	14.16	0.24	Clear	2.37	0.04	Clear	11.46	0.19	Clear	33.26	0.55		931.97	-0.03
09-Dec-98	4.34	0.07	Clear	0.79	0.01	Clear	16.56	0.28	Clear	2.01	0.03	Clear	9.78	0.16	Clear	33.49	0.56		931.97	Frozen
16-Dec-98	4.33	0.07	Clear	0.97	0.02	Clear	13.92	0.23	Clear	2.83	0.05	Clear	19.32	0.32	Clear	41.37	0.69		931.97	Frozen
23-Dec-98	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded, needs to be pumped down	931.99	Frozen
05-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.00	Frozen
12-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.02	Frozen
20-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.03	Frozen
28-Jan-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.05	Frozen
09-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.06	Frozen
16-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.07	Frozen
23-Feb-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	932.08	Frozen
18-Mar-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	933.08	Frozen
30-Mar-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	934.08	Frozen
08-Apr-99	#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A		#N/A	#N/A	Flooded needs to be pumped down	935.08	Frozen
																		(Started pumping April 9)		

INVESTIGATION NO. 2 Page 358 of 500 EOC.046

→ G.H. 11 # 14745-10/MTP16

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DATE:	September 12, 2001	**FILE NO.:**	11162/14
TIME:		**REF NO.:**	1/3321
OPERATOR:	DM	**PAGES:**	1 of 26
SENDER:	DM	**APPROVED:**	

TO:	Ministry of Energy and Mines	**FAX :**	250-952-0481
ATTN:	Chris Carr		
CC:	Ken Brouwer, KP Vancouver Don Parsons / Eric LeNeve, MPMC Site		
SUBJECT:	Final Progress Report No. 19, Rev. 1		

Dear Mr. Carr,

Please find attached a copy of Progress Report #19 from August 13 to 24, 2001. If you have any questions, please do no hesitate to contact me, Wilson Muir or Ken Brouwer in our Vancouver office.

Regards,

s.22

Knight Piesold Consulting

MP00022

Construction
Monitoring Reports
for TMF
September 1, 2000 to
September 12, 2001

~~missing reports 5+6~~

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
PROGRESS REPORT NO. 19 – AUGUST 13 TO AUGUST 24, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) completed Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F and T to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). Zone S was completed up to El. 942.5 m on August 19, 2001. MPMC carried out the majority of this work. Material haulage only was completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 Resident Engineer (left site August 17, 2001).
- s.22 KP Staff Engineer (arrived on site August 16, 2001)

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Charlie O'Hara General Foreman
- s.22 Site Foreman
- s.22 Site Foreman

1.2 CONTRACT DEVELOPMENTS

No new contract developments took place over the reporting period.

1.3 DESIGN DEVELOPMENTS

No new design developments occurred during the reporting period.

1.3 WEATHER

Conditions were warm and sunny with clouds and showers towards the end of the week. Maximum daytime highs reached about +28 °C and nightly lows sinking to as low as +8 °C.

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1.4 SAFETY

No new safety incidents occurred over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 19+00 to obtain a well developed, even beach in this area. The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Hitachi EX 400
- Haul Trucks: 1 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992B
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K, 1Caterpillar D7G
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks
- Lake Excavating: 6 dump trucks and 1 Caterpillar 966 loader

MPMC carried out the following activities during the reporting period:

- Placement of Zone F, Perimeter Embankment: Ch. 37+50 to 40+00, El. 934.0 to 942.5 m.
- Placement of Zone S, Perimeter Embankment: Ch. 36+50 to 39+25, El. 941.3 to 942.5 m and Ch. 39+25 to 44+50, El. 942.0 to 942.5 m.
- Placement of Zone T, Perimeter Embankment: Ch. 36+25 to 39+00, El.934.0 to 942.5 m.

Zone S, from Chainage 37+75 to 38+88, was placed and compacted to specification but haul trucks formed ruts in this area after placement. It will be graded and recompacted at MPMC's earliest convenience.

MPMC also wishes to leave the access ramps in place along the Perimeter Embankment between the Zone T haul road and the crest of the dam. This will allow access to the crest in the future. The ramps were cut into Zone T fill material and appear to be stable.

Zone F was delivered from the stockpile at the millsite and Zone S originated from Borrow Area 2. Zone T was delivered from the Rock Borrow. Zone F was placed in a 1 m thick lift on the downstream embankment slope over stiff Zone S, while Zone S was placed in 300 mm horizontal lifts. Zone T was placed in 1 m thick lifts over Zone F.

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SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F, S and T.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Record sampling and testing of embankment fill materials.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- R-ZS-3-8
- R-ZS-3-9
- R-ZF-42
- R-ZT-18

The record tests completed during the reporting period proved suitable for their respective zones. The results of the tests are presented in the attached tables and figures.

SECTION 5.0 - MONITORING

5.1 GENERAL

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed during the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.8. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the foundation piezometers.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. Generally, these piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Readings at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on August 17, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.9 and 5.10, respectively. The timescale on Figure 5.9 has been shortened to help magnify the data recorded in July, 2001. The spike in foundation drain flows around mid July is a result of heavy rainfall. It has since decreased.

5.4 SLOPE INCLINOMETERS

The equipment used to monitor and record the data from the slope inclinometers arrived on site on August 16, 2001. Five (5) base readings have been taken from each of SI01-1 and SI01-2 to establish a base file for each hole. The equipment was returned to RST on August 23, 2001. Monitoring of these instruments will continue in approximately December 2001. Subsequent reading intervals will be specified in the Operation, Maintenance and Surveillance Manual.

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SECTION 6.0 - ONGOING ITEMS

The 2000 and 2001 Inspection Report, Report on Stage 3 Construction, and the Operation, Maintenance and Surveillance manual will be submitted to MPMC in the coming weeks.

Submitted by

s.22

Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

SEP 12 '01 16:48

09/12/01 16:43 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P007/026

TABLE 4.2

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

ZONE F RECORD TEST SUMMARY SHEET

M:\1162\14\Acrobat\01_08_27\Report\Stage 3B Construction\Mount\[KB-F*.xls]Data Sheet

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SHEET : 1 of 1

PROJECT : Mount Polley - Tailings Storage Facility - Stage 3B Construction — PERIOD : August 6 to August 23, 2001

MATERIAL : Zone F - Filter Sand — PROJECT NO. : 1162/14

AREA : TSF

Sample No.	Date Sampled	Location	El. (m)	Cl Atterberg Limits LL %	Cl PL %	Cl PI %	Cl Field wet %	Cl Lab %	Cl (Particle Size Distribution) 107.6 mm 4	76.2 mm 3	38.1 mm 1.5	25.4 mm 1	19.05 mm 0.75	12.7 mm 0.5	9.525 mm 0.375	4.75 mm #4	3.35 mm #6	1.18 mm #16	0.6 mm #30	0.3 mm #50	0.14986 mm #100	0.07366 mm #200	0.005 mm Clay	Cc Standard Proctor Max. Dry Density kg/m³	Cc Standard Proctor Optimum wet %	Gs Specific Gravity
B-ZF-3-1	29-Aug-00	38+10	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	93.6		51.8	34.5	23.3	15.3	10.4	6.1	3.1	-	-	-	-
B-ZF-3-2	30-Aug-00	17+80	932.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	93.8		50	35	24.5	16.7	11.9	7.8	4.2	-	-	-	-
B-ZF-3-3	31-Aug-00	20+80	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	100.0		65.6	53.8	37.7	24.9	19.1	8.4	3	-	-	-	-
B-ZF-3-4	23-Aug-00	20+65	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	98.3		53.7	36.8	25	16.1	10.5	6.8	5.3	-	-	-	-
B-ZF-3-5	26-Aug-00	25+30	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	91.6		43.1	27.3	17.1	11.6	8.3	5.2	3.1	-	-	-	-
B-ZF-3-6	25-Aug-00	19+00	935.0	-	-	-	-	-	100.0	100.0	100.0	99.1		82.4		47.5	32.3	23.3	14.7	10.3	6.8	3.9	-	-	-	-
B-ZF-3-7B	8-Sep-00	19+00	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.0		47.7	29.8	17.3	8.5	5.6	3.8	2.4	-	-	-	-
B-ZF-3-8	8-Sep-00	19+80	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.4		42.0	27.1	18.2	11.6	8.7	7.0	2.6	-	-	-	-
B-ZF-3-9	28-Aug-00	24+30	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		78.9		45.5	30.4	21.1	14.7	10.0	6.8	3.8	-	-	-	-
B-ZF-3-10	29-Aug-00	23+40	936.0	-	-	-	-	-	100.0	100.0	100.0	100.0		78.1		38.3	24.4	15.2	9.6	6.5	4.5	2.9	-	-	-	-
B-ZF-3-11	30-Aug-00	22+80	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		89.2		48.7	35.4	24.6	17.4	11.1	5.6	3.6	-	-	-	-
B-ZF-3-12	6-Sep-00	16+20	940.0	-	-	-	-	-	100.0	100.0	100.0	100.0		77.7		39.8	26.9	18.5	13.4	7.3	4.0	2.1	-	-	-	-
B-ZF-3-13	7-Sep-00	21+30	940.0	-	-	-	-	-	100.0	100.0	100.0	99.7		75.6		37.9	24.5	16.6	10.2	5.5	3.9	3.3	-	-	-	-
B-ZF-3-14	8-Sep-00	16+40	938.0	-	-	-	-	-	100.0	100.0	100.0	100.0		81.0		43.2	29.5	22.4	7.0	4.6	3.2	2.1	-	-	-	-
B-ZF-3-15	8-Sep-00	17+50	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		77.9		30.7	22.3	12.2	7.6	5.0	3.6	2.3	-	-	-	-
B-ZF-3-16	6-Sep-00	18+30	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		76.6		31.6	17.4	8.9	6.6	4.3	3.6	2.4	-	-	-	-
B-ZF-3-17	30-Sep-00	23+40	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.1		46.6	30.6	20.3	13.9	9.0	6.0	3.6	-	-	-	-
B-ZF-3-18	29-Sep-00	22+20	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.1		45.3	31.2	19.8	13.8	9.3	5.6	2.6	-	-	-	-
B-ZF-3-19	13-Sep-00	25+50	938.0	-	-	-	-	-	100.0	100.0	100.0	100.0		76.4		44.6	32.4	23.0	13.4	8.3	6.4	3.7	-	-	-	-
B-ZF-3-20	11-Sep-00	22+80	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.1		43.5	27.6	15.5	7.8	4.0	3.2	2.2	-	-	-	-
B-ZF-3-21	13-Sep-00	22+00	938.0	-	-	-	-	-	100.0	100.0	100.0	100.0		77.5		51.5	34.3	22.4	14.3	8.3	4.5	2.4	-	-	-	-
B-ZF-3-22	15-Sep-00	29+20	938.0	-	-	-	-	-	100.0	100.0	100.0	100.0		85.3		53.7	37.0	25.5	17.8	11.5	7.1	3.3	-	-	-	-
B-ZF-3-23	16-Sep-00	17+80	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		85.6		49.7	35.8	25.4	13.8	8.9	5.8	2.7	-	-	-	-
B-ZF-3-24	15-Sep-00	25+20	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		82.7		48.3	31.9	21.3	14.3	9.3	5.1	2.1	-	-	-	-
B-ZF-3-25	20-Sep-00	20+40	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		89.1		54.3	35.4	24.3	16.2	9.4	6.7	3.7	-	-	-	-
B-ZF-3-26	21-Sep-00	25+30	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		91.6		66.1	32.5	15.7	10.1	14.5	9.3	4.8	-	-	-	-
B-ZF-3-27	21-Sep-00	22+80	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.7		43.3	25.0	13.4	13.0	8.8	5.0	2.3	-	-	-	-
B-ZF-3-28	4-Dec-00	25+00	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		65.6		54.0	36.3	23.8	15.6	12.6	9.2	4.7	-	-	-	-
B-ZF-3-29	6-Dec-00	23+80	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		73.8		42.8	29.1	19.9	14.3	11.7	6.8	3.6	-	-	-	-
B-ZF-3-30	5-Dec-00	24+25	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		69.9		51.6	33.7	24.4	19.3	17.1	12.3	6.1	-	-	-	-
B-ZF-11	28-Mar-01	25+40, 0.5 m DS of Zone 5	941.8	-	-	-	4.0	-	100.0	100.0	100.0	100.0	97.5		73.5	49.1	35.9	25.8	19.7	15.0	11.6	9.1	-	-	-	-
B-ZF-32	23-May-01	33+00, 0.5 m DS of Zone 5	936.0	-	-	-	4.1	-	100.0	100.0	100.0	100.0	98.7		68.4	44.0	34.5	22.3	16.9	12.5	9.9	7.7	-	-	-	-
B-ZF-33	11-Jun-01	42+00, 0.5 m DS of Zone 5	936.0	-	-	-	3.0	-	100.0	100.0	100.0	100.0	97.9		64.8	44.1	25.8	17.8	13.2	10.5	8.5	6.9	-	-	-	-
B-ZF-34	27-Jun-01	35+00, 0.5 m DS of Zone 5	935.0	-	-	-	5.6	-	100.0	100.0	100.0	100.0	99.2		67.5	37.8	27.0	18.1	14.0	11.0	8.6	6.3	-	-	-	-
B-ZF-35	30-Jun-01	45+00, 0.5 m DS of Zone 5	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.4		70.5	46.6	32.6	23.0	17.2	13.7	10.6	8.5	-	-	-	-
B-ZF-36	10-Jul-01	53+50, 0.5 m DS of Zone 5	939.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.5		72.6	50.4	36.3	26.3	17.6	12.4	9.2	7.0	-	-	-	-
B-ZF-37	10-Jul-01	63+00, 0.5 m DS of Zone 5	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.6		65.6	41.3	28.5	22.4	16.9	13.5	9.4	6.4	-	-	-	-
B-ZF-38	29-Aug-00	35+00, 1.0 m DS of Zone 5	938.0	-	-	-	8.4	-	100.0	100.0	100.0	100.0	99.4		73.8	50.6	36.5	26.1	19.7	15.7	13.0	9.4	-	-	-	-
B-ZF-39	28-Jul-01	45+00, 1.0 m DS of Zone 5	941.0	-	-	-	3.3	-	100.0	100.0	100.0	100.0	99.9		57.6	36.3	25.8	17.7	12.6	10.4	9.5	5.3	-	-	-	-
B-ZF-40	25-Jul-01	35+00, 1.0 m DS of Zone 5	943.0	-	-	-	0.3	-	100.0	100.0	100.0	100.0	100.0		73.2	44.8	31.7	22.0	15.1	10.4	7.5	2.1	-	-	-	-
B-ZF-44	1-Aug-01	39+25 - 0.5 m DS of Zone 6	940.0	-	-	-	4.0	-	100.0	100.0	100.0	100.0	97.7		63.6	48.4	38.9	30.5	24.9	19.6	15.6	12.6	-	-	1162/14-03000.10	-
B-ZF-4-03	8-Aug-01	[illegible]	-	-	-	-	3.3	-	100.0	100.0	100.0	100.0	97.5	85.3	68.0	47.6	32.1	23.8	18.9	15.4	13.0	10.6	-	-	Worksheet 1 8/17/01	-

Page 1 of 1

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SEP 12 '01 16:48

09/12/01 16:43 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P008/026

TABLE 4.3

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

ZONE F RECORD TEST SUMMARY SHEET

M:\1\1631\4\Accuracy2004_08_27\Spatial\Stage 3B Construction\Inf\Access\[8-ZF-access.xls]Data Sheet

Knight Piésold CONSULTING

PROJECT:	MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION	SHEET:	1 of 1
MATERIAL:	Zone F - Filter Sand	PERIOD:	August 6 to August 23, 2001
		PROJECT NO.:	1116/14
		AREA:	TSF

Sample No.	Date Sampled	Location	El. (m)	C1 Atterberg Limits LL (%)	PL (%)	PI (%)	C2 Field mc (%)	LI (%)	C3 (Particle Size Distribution) 114.6 mm (4")	76.2 mm (3")	38.1 mm (1.5")	25.4 mm (1")	19.05 mm (3/4")	12.7 mm (1/2")	9.525 mm (3/8")	4.75 mm (#4)	2.36 mm (#8)	1.18 mm (#16)	0.6 mm (#30)	0.3 mm (#50)	0.149 mm (#100)	0.075 mm (#200)	0.002 mm Clay	C4 Standard Proctor Max. Dry Density (g/cc)	Optimum mc (%)	C6 Specific Gravity
R-ZF-42	16-Aug-01	39+36, 3 m DS of Zone E	942.5	-	-	-	8.1	-	100.0	100.0	100.0	100.0	99.5		79.4	55.9	36.5	20.7	13.6	9.6	6.8	4.6		-	-	-
		MEAN	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	5.0	#DIV/0!	100.0	100.0	100.0	100.0	99.5	15.3	69.4	46.3	32.6	22.7	16.9	13.1	10.3	7.6	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		MEDIAN	#N/A	#N/A	#N/A	#N/A	4.5	#N/A	100.0	100.0	100.0	100.0	99.2	15.3	69.4	46.6	32.6	22.5	16.9	12.8	9.4	7.0	#N/A	#N/A	#N/A	#N/A
		MAXIMUM (*)	0.0	0.0	0.0	0.0	8.1	0.0	100.0	100.0	100.0	100.0	99.5	15.3	79.4	55.9	36.5	20.7	16.9	13.6	9.6	6.8	4.6	0.0	0.0	0.0
		MINIMUM (*)	0.0	0.0	0.0	0.0	2.1	0.0	100.0	100.0	100.0	100.0	99.5	15.3	57.6	36.2	26.0	17.1	13.6	9.6	6.8	3.7	0.0	0.0	0.0	0.0

Note: These are 100% fines.

Values with strikethrough indicate that re-testing was successful. These samples will be stricken from the record in the following report.

IP - In progress

Collection of Stage 3A data in progress, samples R-ZF-41, 28, 29 and 30 are outstanding

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Specific Gravity (ASTM D854)

1116/14-43000-19
Revision 1
9/11/01

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SEP 12 '01 16:49

09/12/01 16:43 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P009/029

m:\1152\2\report\2\R-ZF-summ.xls\Fig A3-2 9/11/01 8:46 AM

BOULDERS	COBBLES	GRAVEL		SAND			SILT			CLAY
		Coarse	Fine	Coarse	Medium	Fine	Coarse	Medium	Fine	

SIEVE OPENING IN INCHES — US STANDARD SIEVE SIZES

12 6 4 3 2 1 1 3/4 1/2 3/8 #4 #8 #16 #30 #50 #100 #200

PERCENT FINER BY WEIGHT

100 90 80 70 60 50 40 30 20 10 0

The last 5 samples are shown for clarity

FINE LIMIT

COARSE LIMIT

R-ZF-39
R-ZF-40
R-ZF-41
R-ZF-41B
R-ZF-42

1000 100 10 1 0.1 0.01 0.001

GRAIN SIZE IN MILLIMETERS

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION - ZONE F RECORD SAMPLES GRADATION CURVES

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
1115/2/14		

FIGURE 4.2

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SEP 12 '01 16:49

09/12/01 16:44 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P010/029

TABLE 4.6

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

ZONE 5 RECORD TEST SUMMARY SHEET

Knight Piésold CONSULTING

SHEET : 1 of 1

PERIOD : July 30 to August 23, 2001

PROJECT : MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION — PROJECT NO. : VA1162514

MATERIAL : Zone 5 - Glacial Till — AREA : TSF

Sample No	Date Sampled	Location	ID No.	RJ Atterberg Limits LL %	RJ Atterberg Limits PL %	RJ Atterberg Limits PI %	RJ Moisture Content Field wc %	LI %	RS Particle Size Distribution 100.0 mm	50.0 mm	37.5 mm	25.0 mm	19.05 mm	9.525 mm	4.75 mm	2.36 mm	1.18 mm	0.60 mm	0.30 mm	0.15 mm	0.075 mm	0.0429 mm	0.0309 mm	0.0221 mm	RE Standard Proctor Max Dry Density kg/m³	RE Standard Proctor Optimum wc %	RE Standard Proctor Field Density kg/m³	RE Standard Proctor Field wc %	RE Standard Proctor Percent Compaction %	GS Specific Gravity
									4	3	1 1/2	1	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	0.0429 mm	0.0309 mm	0.0221 mm						
R-2S-3-1	10-Sep-00	Ch. 37+00	043.3	18.9	14.5	10.8	9.0	-	100.0	100.0	100.0	95.0	95.0	80.5	64.1	75.8	70.4	59.1	48.7	37.2	44.9	-	2110	8.8	2105	9.6	99.7	2.4030
R-2S-3-2	13-Sep-00	Ch. 10+00	043.0	18.0	14.4	10.8	9.5	-	100.0	100.0	95.8	95.9	93.0	87.3	85.3	80.1	75.2	70.0	65.8	56.9	46.7		2018	9.8	2021	9.5	100.7	2.4028
R-2S-3-3	19-Sep-00	Ch. 23+50	041.0	15.7	14.4	10.7	9.9	-	100.0	100.0	100.0	97.0	90.4	85.4	82.5	78.3	74.3	69.8	58.5	50.7	44.8	-	2189	8.4	2142	9.9	99.4	2.4005
R-2S-3-4	25-Sep-00	Ch. 6+00	-	14.6	12.6	8.0	9.8	-	100.0	100.0	99.1	95.4	93.4	86.9	83.9	78.7	74.5	70.2	64.4	56.2	45.3	-	2141	7.6	2092	9.0	97.7	2.4029
R-2S-3-5	26-Sep-00	S.E. Zone 5 TSF	-	15.4	12.5	9.1	8.9	-	100.0	100.0	97.7	95.0	93.6	87.5	77.3	72.7	68.3	63.0	54.2	43.5	38.6		2140	7.2	2059	9.0	104.3	2.4078
R-2S-3-6	29-Jan-01	Ch. 32+00	043.3	-	-	-	10.5	-	100.0	100.0	100.0	100.0	97.2	91.7	85.0	84.6	82.0	74.7	68.0	62.3	56.0	-	2075	10.6	2034	10.5	99.5	
R-2S-3-7	13-Jul-01	39+25.3 m DS from UH Tee	041.1	-	-	-	11.4	-	102.8	102.8	100.0	100.0	96.0	87.8	79.4	75.1	71.4	67.8	63.7	55.1	48.3	-	2068.0	9.8	2047.0	10.7	99.3	-
R-2S-3-8	15-Aug-01	Ch. 42+75.4 m DS from UH Tee	041.4	-	-	-	10.9	-	100.0	100.0	89.3	87.4	83.9	76.9	74.3	71.0	67.1	62.8	58.4	53.7	45.4	-	2060.0	6.0	2001.0	9.8	102.2	-
R-2S-3-9	16-Aug-01	Ch. 38+11.5 m DS from US Tee	043.5				10.7	-	100.0	100.0	100.0	100.0	93.1	84.3	79.2	65.4	63.6	60.8	54.2	43.5	40.2	-	2150.0	6.4	2134.0	9.6	97.4	-
		MEAN	15.7	25.7	10.9	10.0	#DIV/0!		100.8	100.8	98.3	94.3	89.4	83.2	80.0	76.2	72.8	68.3	62.0	55.3	44.9	#DIV/0!	2104.29				100.5	2.4
		MEDIAN	15.7	26.4	10.8	9.9	#NUM!		100.0	100.0	100.0	97.2	91.3	87.6	82.5	75.3	73.4	68.3	63.5	56.1	44.3	#NUM!	2110.0				99.9	2.4
		MAXIMUM (*)	18.9	34.5	10.9	11.4	0.0		102.8	100.8	100.0	100.0	97.2	91.7	85.0	84.6	82.0	74.7	68.0	62.3	56.0	0.0	2150.0				104.3	2.7
		MINIMUM (*)	13.4	12.5	8.0	8.9	0.0		100.0	100.0	89.3	87.4	83.9	76.9	71.3	65.4	63.6	60.8	54.2	43.5	38.6	0.0	2060.0				97.4	2.4

Note: There are 10 data points.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

LF - In progress

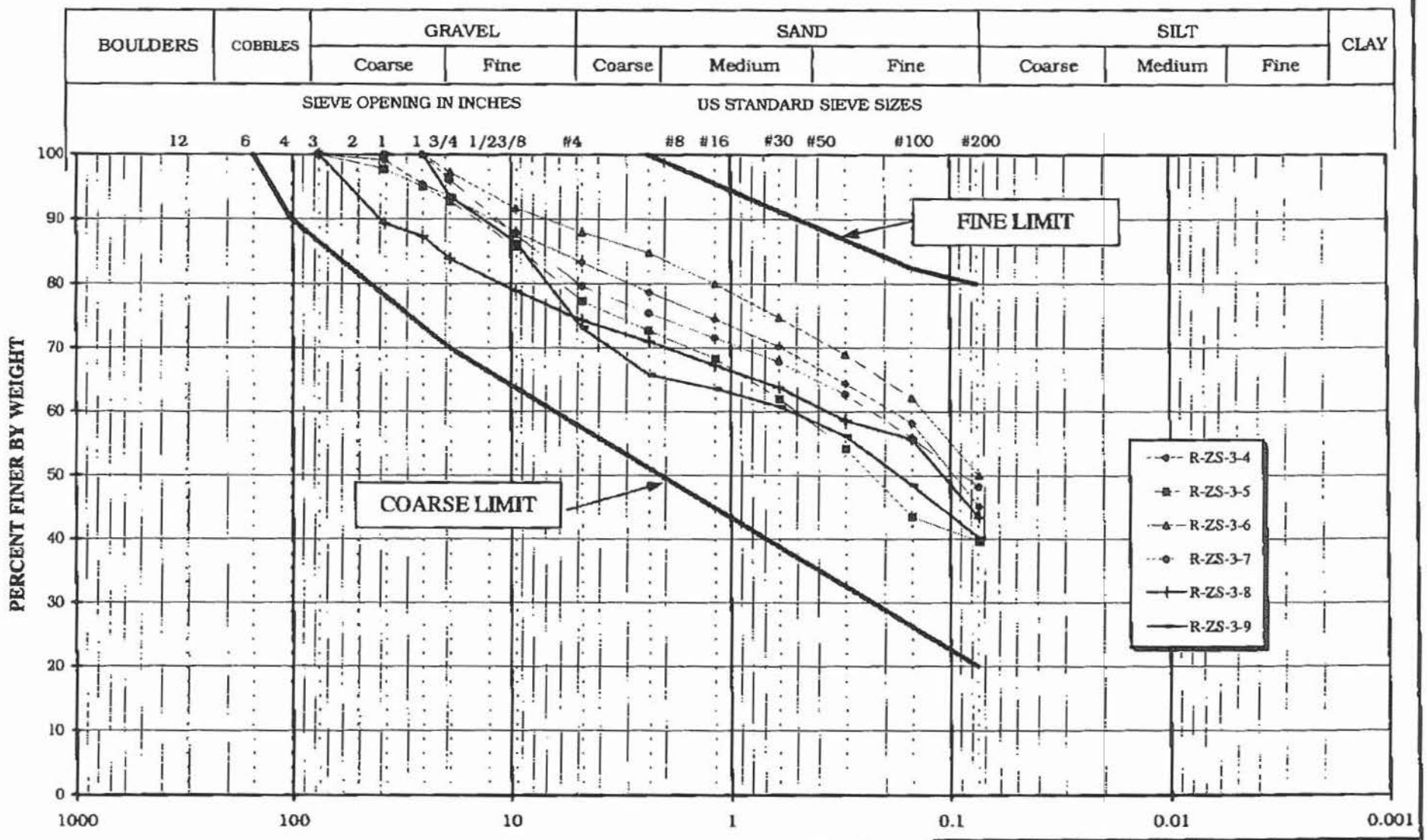
RJ	Atterberg Limits (ASTM D4318)
RJ	Moisture Content (ASTM D2216)
RS	Particle Size Distribution (ASTM D422)
RE	Laboratory Compaction (ASTM D1557)
RS	Specific Gravity (ASTM D854)

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11162/14-GSSB-19
Revision 1
9/11/01

INVESTIGATION

SEP 12 '01 16:49
09/12/01 16:44 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P011/026
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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE S RECORD SAMPLES
GRADATION CURVES

Knight Piésold CONSULTING

PROJECT NO.	REF NO.	REV.
1116214		

FIGURE 4.6

SEP 12 '01 16:50

09/12/01 16:44 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P012/026

TABLE 4.4

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION

ZONE T RECORD TEST SUMMARY SHEET

M:\1\1\1621\14\Incoming\2001_09_27\Upsite\Stage 3B Construction\lab\record\[R-ZT-summ.xls]Data Sheet

Knight Piésold CONSULTING

SHEET: 1 of 1

PERIOD: July 30 to August 23, 2001

PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

PROJECT NO.: 1116/14

MATERIAL: Zone T - Transition Zone

AREA: TSF

Sample No.	Date Sampled	Location	El. (m)	I1 Atterberg Limits			I2 Field	I3	Particle Size Distribution													I4 Standard Proctor		I5 Specific Gravity
				PL %	LL %	PI %	mc %	LI %	152.4 6	76.2 3	38.1 1 1/2	19.05 3/4	9.525 3/8	4.75 #4	2.36 #8	1.18 #16	0.6 #30	0.3 #50	0.149#100	0.0735 #200	0.020 mm Clay	Max Dry Density kg/m³	Optimum mc %	
B-ZT-1	5-Jun-00	-	-	-	-	-	-	-	90.0	80.0	59.9	40.2	26.7	18.5	13.2	9.9	7.7	5.7	3.9	2.4	-	-	-	-
B-ZT-2	16-Jul-00	-	-	-	-	-	-	-	100.0	88.0	67.0	42.6	29.0	21.3	15.9	11.8	9.1	7.3	6.1	5.1	-	-	-	-
B-ZT-3	25-Jul-00	-	-	-	-	-	-	-	100.0	86.1	57.7	44.2	30.0	20.0	14.1	10.0	7.3	4.6	2.7	1.6	-	-	-	-
B-ZT-4	27-Jul-00	-	-	-	-	-	-	-	100.0	78.0	48.3	33.9	23.5	13.0	-	5.3	3.7	2.5	1.0	0.5	-	-	-	-
B-ZT-5	23-Aug-00	19+30	939.0	-	-	-	-	-	100.0	63.8	51.4	35.6	25.7	20.9	16.1	13.0	7.8	-	4.6	3.8	-	-	-	-
B-ZT-6	23-Aug-00	25+00	-	-	-	-	-	-	100.0	65.5	36.3	-	-	15.3	10.4	13.3	9.7	6.0	3.9	1.3	-	-	-	-
B-ZT-7	25-Aug-00	30+00	913.0	-	-	-	-	-	100.0	95.0	93.1	-	-	37.8	25.1	16.0	9.8	3.7	3.3	1.8	-	-	-	-
B-ZT-8	9-Sep-00	13+80	936.0	-	-	-	-	-	100.0	80.0	70.1	44.3	30.3	12.9	6.7	6.3	4.5	-	3.2	2.0	-	-	-	-
B-ZT-9	9-Sep-00	26+00	940.0	-	-	-	-	-	100.0	90.0	70.8	46.9	27.3	17.7	10.7	7.0	6.0	-	3.1	1.8	-	-	-	-
B-ZT-10	21-Sep-00	20+60	941.0	-	-	-	-	-	100.0	83.0	67.5	-	-	27.4	20.8	16.2	12.3	5.5	1.6	0.8	-	-	-	-
B-ZT-11	4-Dec-00	20+00	941.0	-	-	-	-	-	100.0	89.0	67.4	51.9	32.7	27.3	14.8	9.8	6.7	3.5	3.4	0.3	-	-	-	-
B-ZT-12	3-Jan-01	42+50, 1.8 m DS of Zone S	973.5	-	-	-	6.6	-	100.0	80.0	46.4	32.3	22.0	14.9	10.8	7.6	5.8	4.2	3.2	2.5	-	-	-	-
B-ZT-13	23-Jan-01	32+50, 1.8 m DS of Zone S	957.0	-	-	-	3.0	-	100.0	76.2	49.7	34.5	22.9	14.6	9.7	6.4	4.1	2.4	-	-	-	-	-	-
B-ZT-14	9-Feb-01	35+40, 3 m DS of Zone S	958.0	-	-	-	1.4	-	100.0	76.9	57.9	38.3	22.6	12.2	7.3	4.5	3.1	2.2	1.6	1.2	-	-	-	-
B-ZT-15	23-Feb-01	40+25, 3 m DS of Zone S	952.0	-	-	-	3.6	-	100.0	68.3	43.5	29.5	18.8	11.4	7.2	5.1	3.9	2.8	-	-	-	-	-	-
B-ZT-16	28-Feb-01	45+00, 3 m DS of Zone S	949.5	-	-	-	4.0	-	100.0	77.3	45.8	36.2	15.8	9.9	6.8	4.9	3.4	-	-	-	-	-	-	-
B-ZT-17	5-Aug-01	45+00, 3 m DS of Zone S	948.0	-	-	-	3.3	-	100.0	82.3	47.4	33.3	23.4	16.6		7.8	5.0	3.3		1.4	-	-	-	-
B-ZT-18	23-Aug-01	36+27, 3 m DS of Zone S	940.0	-	-	-	4.3	-	100.0	100.0	67.1	48.3	34.8	26.5	17.9	11.7	6.8	4.3	2.8	2.1	-	-	-	-
		MEAN	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	3.4	#DIV/0!	99.4	79.9	60.1	39.4	25.2	17.0	11.7	9.3	6.4	4.4	3.3	1.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		MEDIAN	#NUM!	#NUM!	#NUM!	#NUM!	3.6	#NUM!	100.0	80.0	57.8	38.3	23.4	18.3	13.7	9.8	6.2	4.5	3.2	1.8	#NUM!	#NUM!	#NUM!	#NUM!
		MAXIMUM (*)	0.0	0.0	0.0	0.0	4.4	0.0	100.0	100.0	99.1	58.1	38.8	37.8	25.1	15.3	13.3	7.3	6.1	5.1	0.0	0.0	0.0	0.0
		MINIMUM (*)	0.0	0.0	0.0	0.0	1.4	0.0	90.0	63.8	43.5	29.5	15.8	9.9	6.9	4.5	3.1	2.2	1.0	0.3	0.0	0.0	0.0	0.0

Note: Times are MDPS limits.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

P - In progress

I1 Atterberg Limits (ASTM D4318)

I2 Moisture Content (ASTM D2216)

I3 Particle Size Distribution (ASTM D422)

I4 Laboratory Compaction (ASTM D1557)

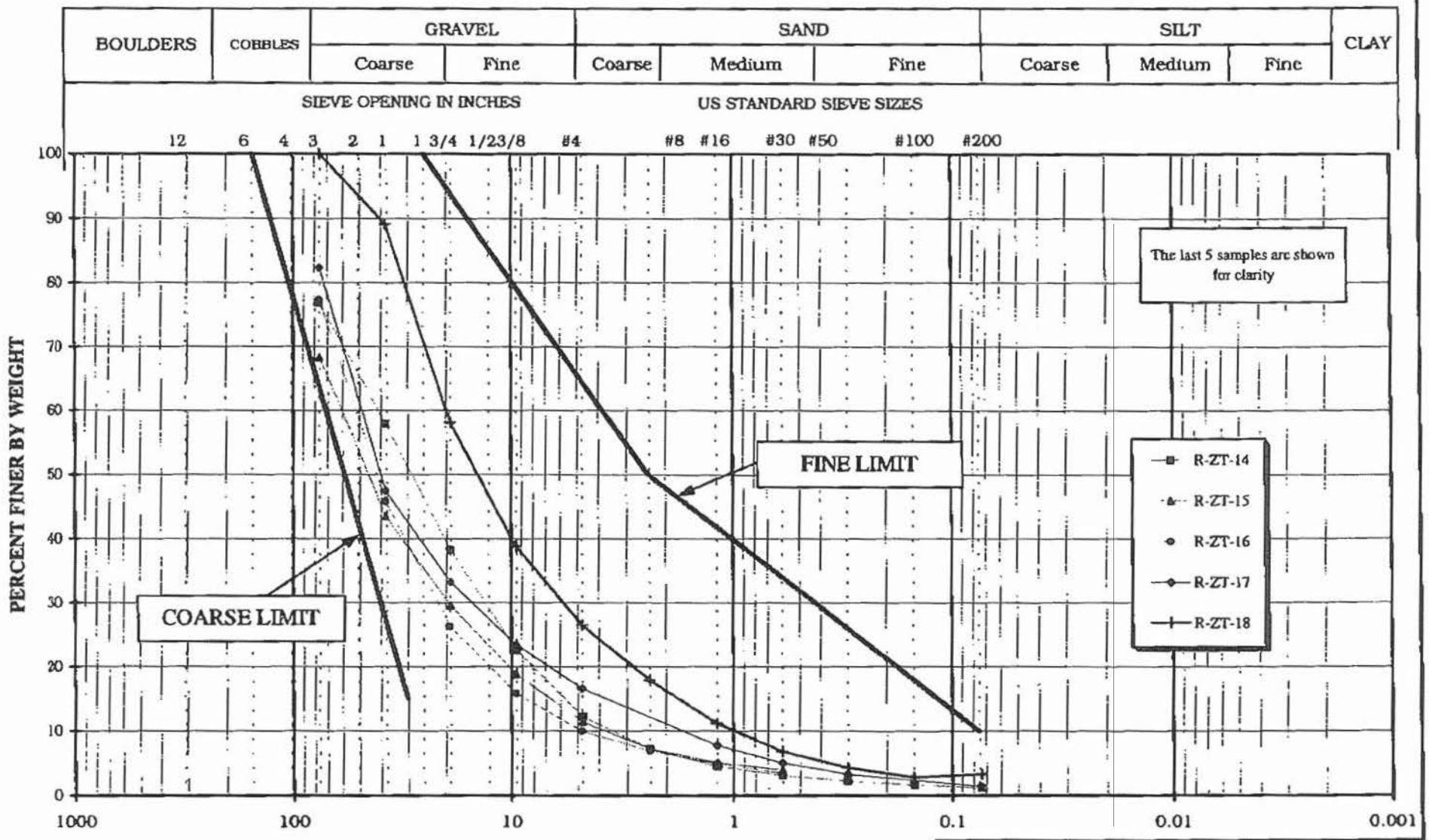
I5 Specific Gravity (ASTM D854)

1116/14-0803-19
Revision 1
9/11/01

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SEP 12 '01 16:50
09/12/01 16:45 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P013/026
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MOUNT POLLEY MINING CORPORATION

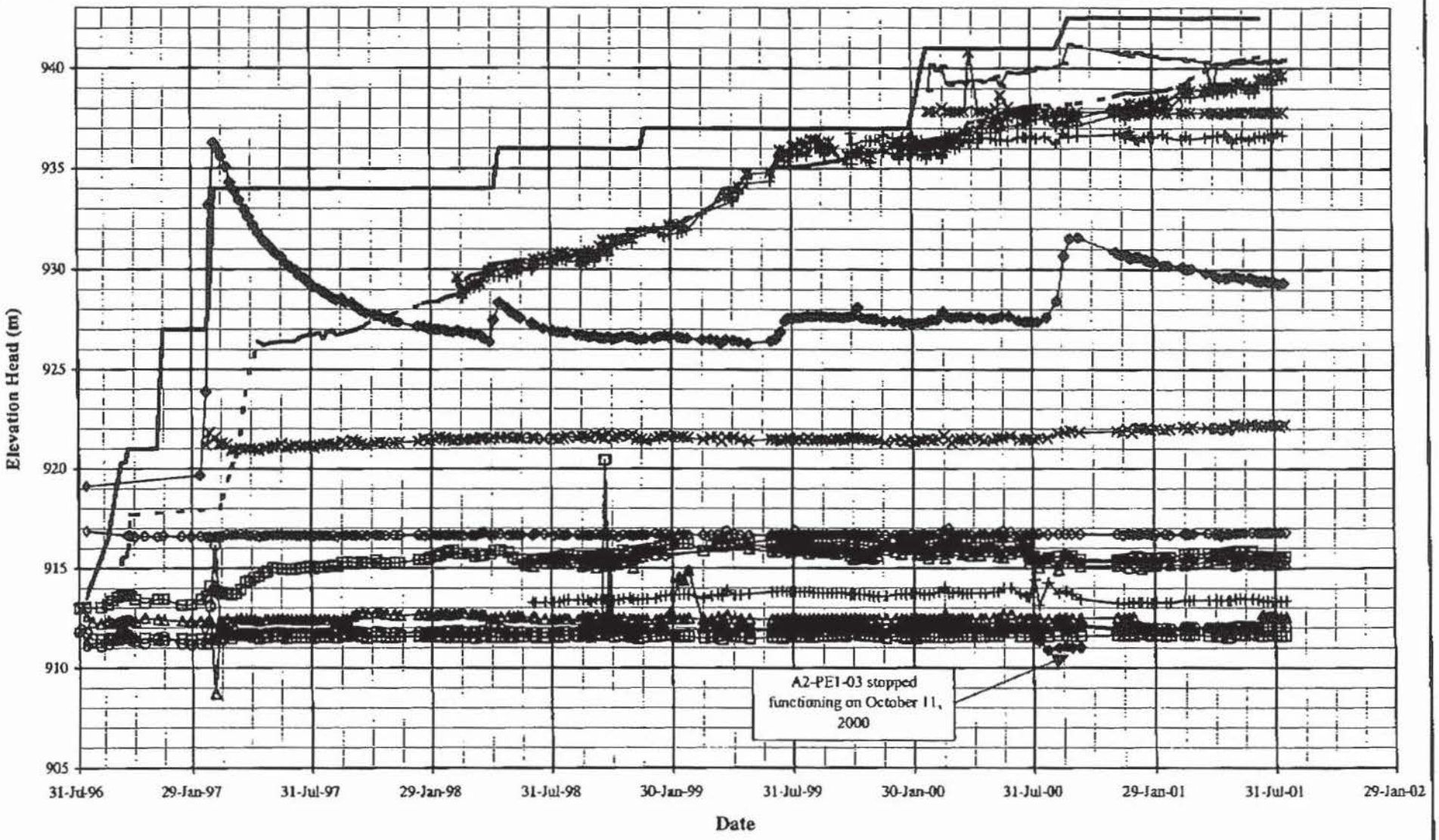
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE T RECORD SAMPLES
GRADATION CURVES

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV
11162/14		

FIGURE 4.4



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

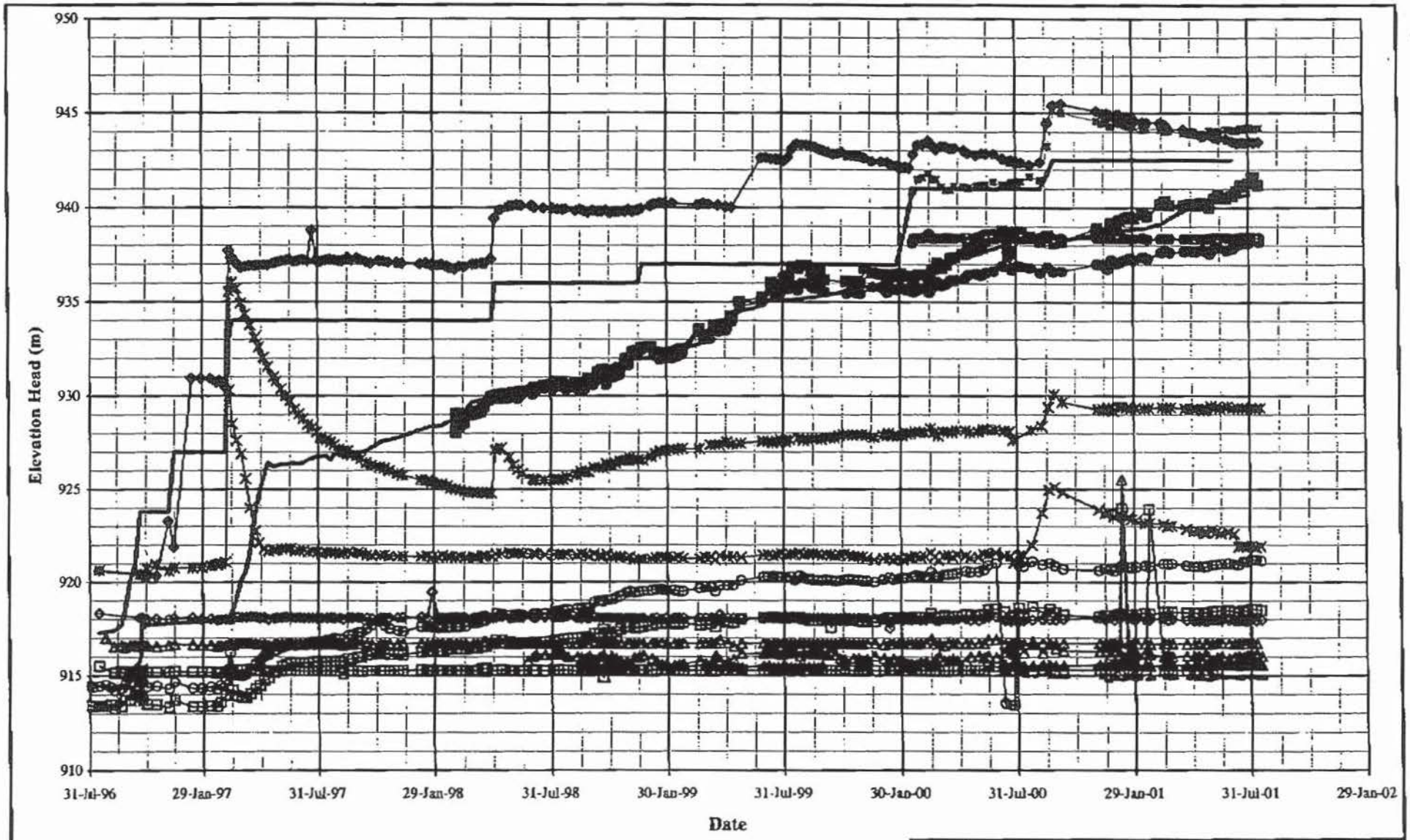
TAILINGS STORAGE FACILITY
PLANE A PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF NO	REV.
11162/14		

FIGURE 5.1

SEP 12 '01 16:50
09/12/01 16:45 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481
NO.810 P014/026
INVESTIGATION KCB-2 Page 372 of 500
604 685 0147 PAGE.014



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

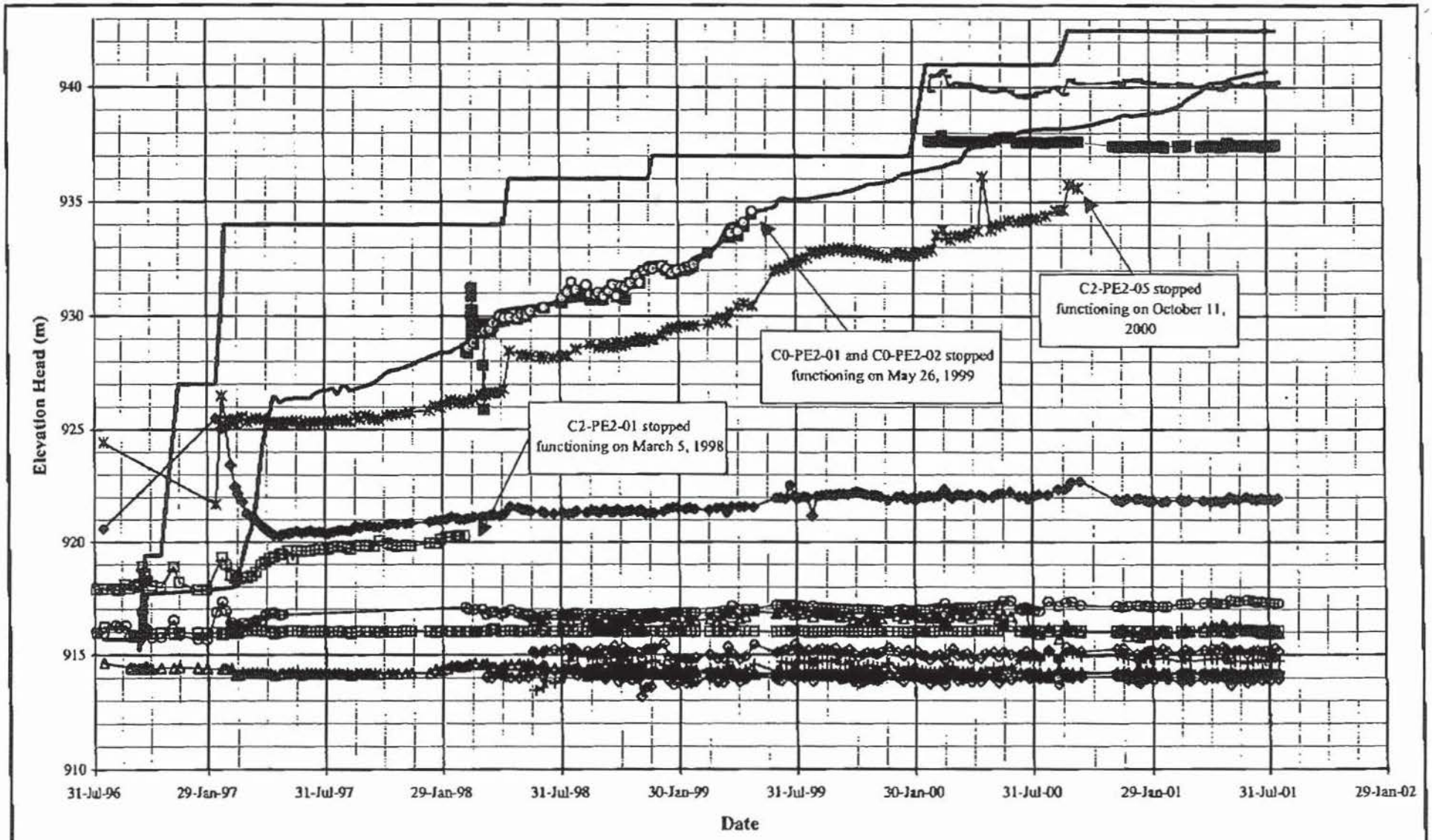
TAILINGS STORAGE FACILITY
PLANE B PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV
11162/14		

FIGURE 5.2

SEP 12 '01 16:51
09/12/01 16:45 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481
INVESTIGATION\KSB-2.DWG Page 37 of 50
NO.810 P015/026



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

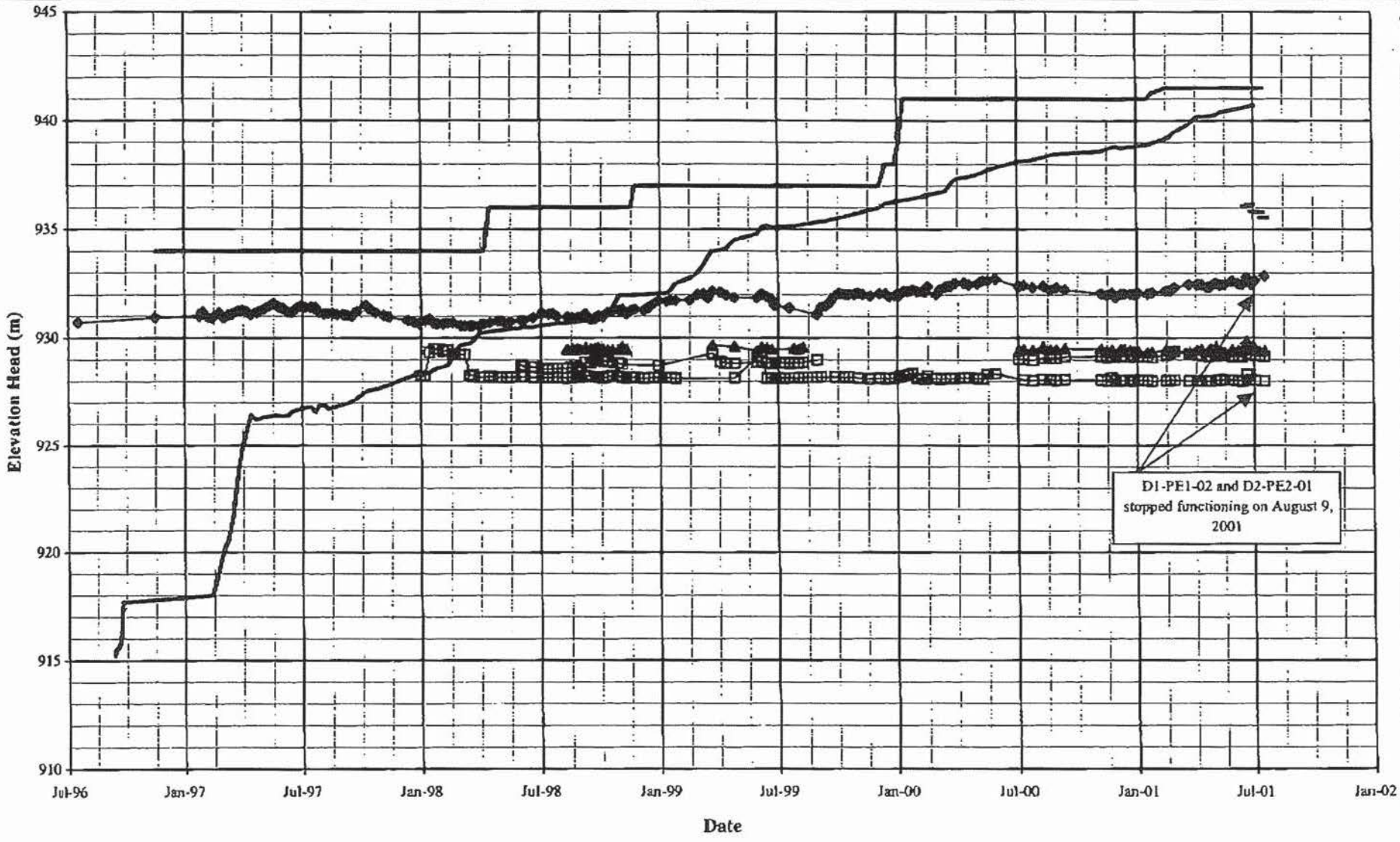
TAILINGS STORAGE FACILITY
PLANE C PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF NO.	REV
11162/14		

FIGURE 5.3

SEP 12 '01 16:51
09/12/01 16:46 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P016/026
INVESTIGATION KGB-2 Page 374 of 500 604 685 0149 PAGE.016



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

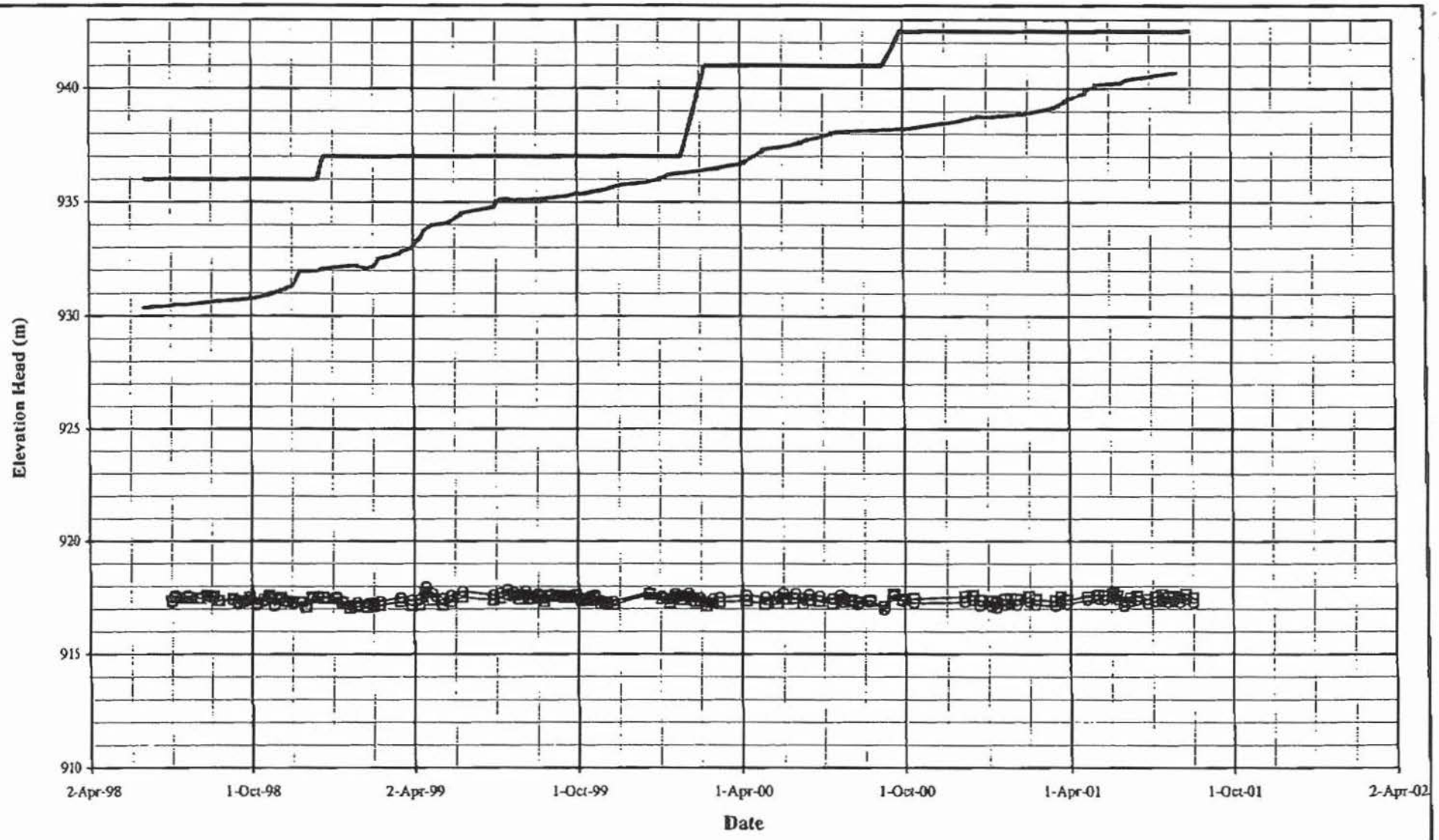
TAILINGS STORAGE FACILITY
PLANE D PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO	REF. NO	REV.
11162/14		

FIGURE 5.4

SEP 12 '01 16:51
09/12/01 16:46 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P017/026
INVESTIGATION KCB-2 Page 375 of 500
604 685 0147 PAGE.017



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

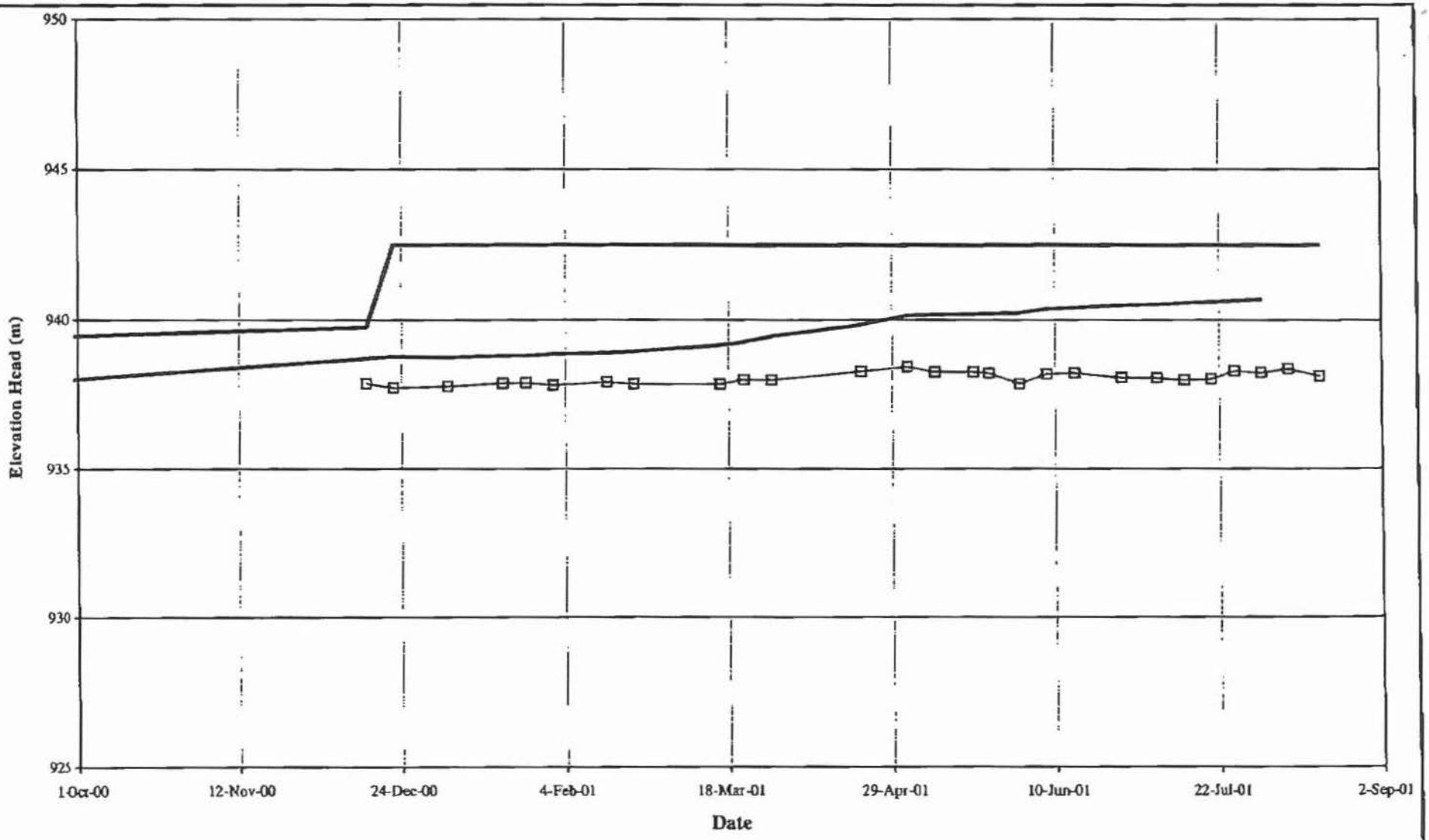
TAILINGS STORAGE FACILITY
PLANE E PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF NO.	REV.
1116/14		

FIGURE 5.5

SEP 12 '01 16:52
09/12/01 16:46 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481
NO.810 P018/026
INVESTIGATION KCB-2 Page 376 of 500
604 685 0147 PAGE.018



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

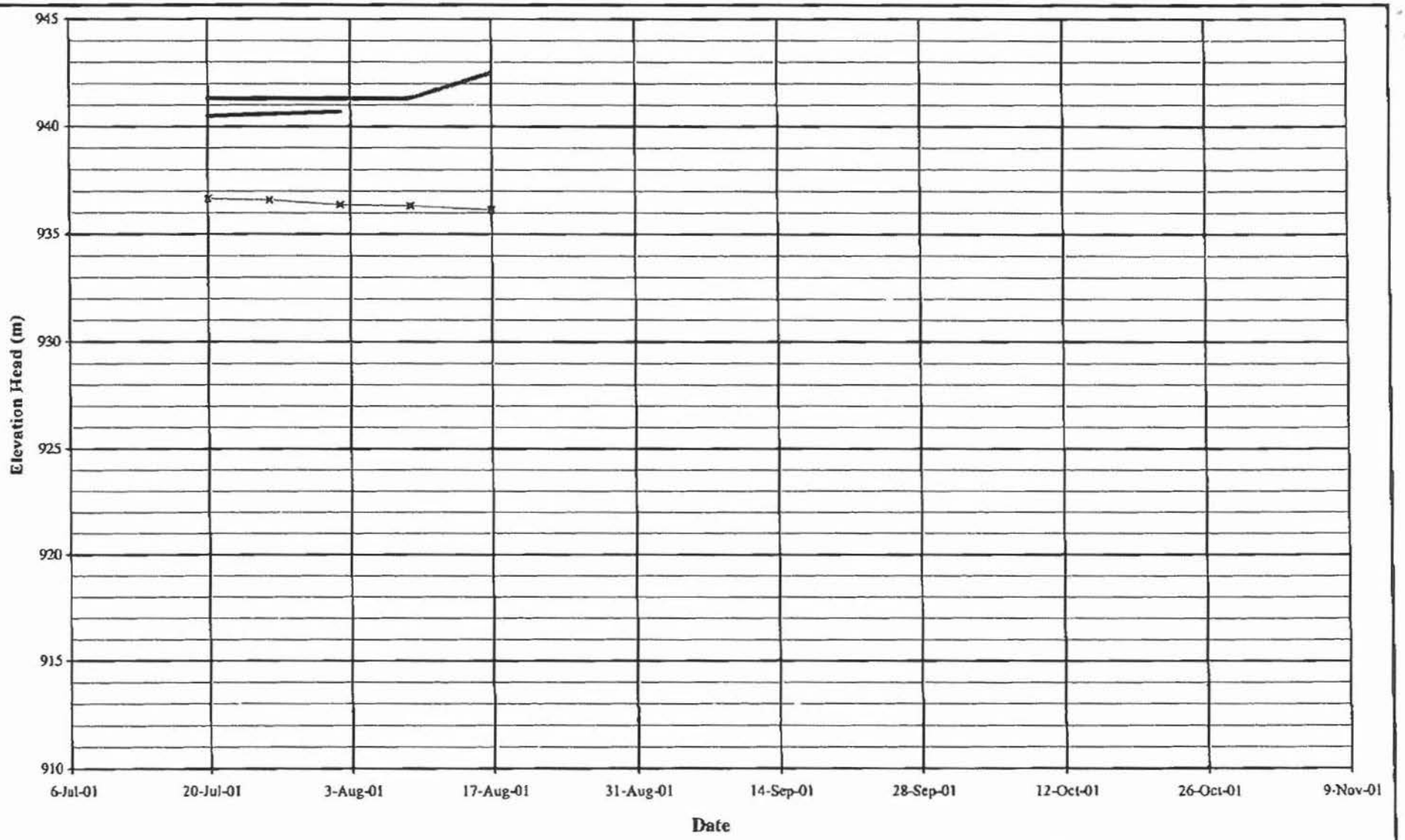
TAILINGS STORAGE FACILITY
PLANE F PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF NO.	REV.
11162/14		

FIGURE 5.6

SEP 12 '01 16:52
09/12/01 16:47 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P019/026
INVESTIGATION KGB-2 Page 377 of 500 PAGE 013



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

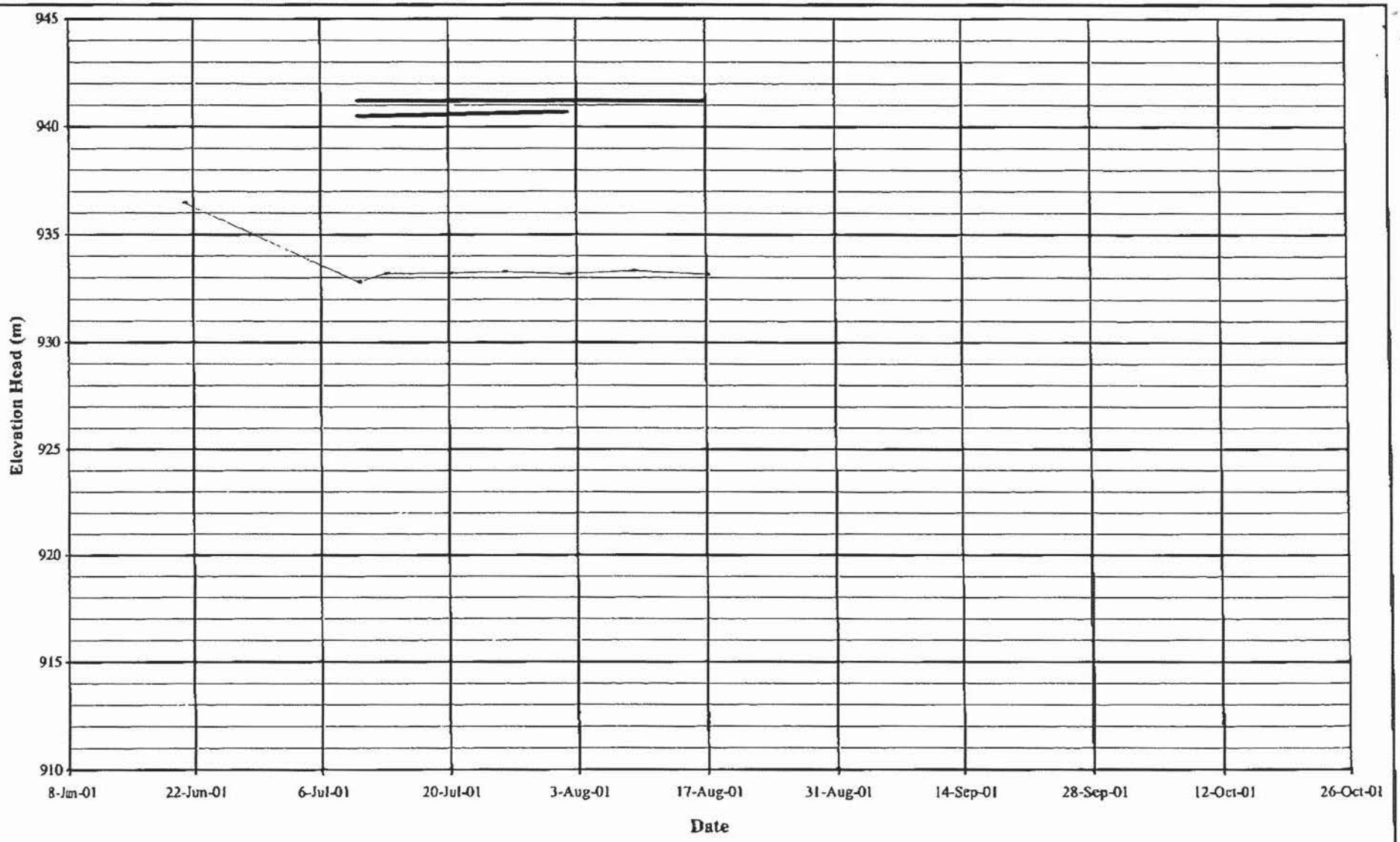
TAILINGS STORAGE FACILITY
PLANE G PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

PROJECT NO	REF. NO.	REV
11162/14		

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FIGURE 5.7

SEP 12 '01 16:52
09/12/01 16:47 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481
INVESTIGATION KCB-2 Page 378 of 500
604 685 0147 PAGE.020
NO.810 P020/026



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE H PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

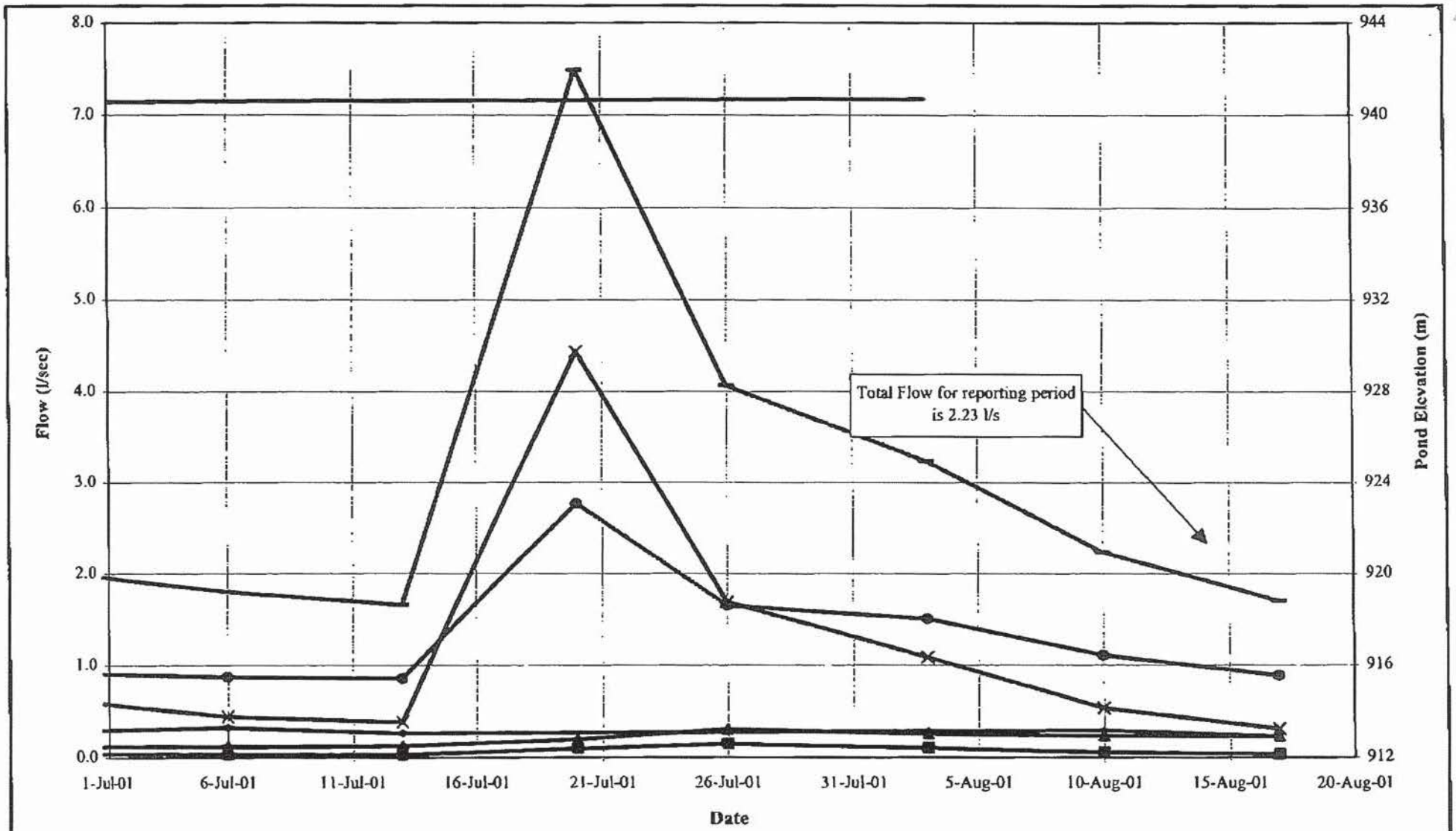
Knight Piésold CONSULTING

PROJECT NO.	REF. NO	REV
11162/14		

FIGURE 5.8

SEP 12 '01 16:52
09/12/01 16:47 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481 NO.810 P021/026
INVESTIGATION 604 685 0147 P.02
SCP-2 Page 379 of 500
PAGE.021

SEP 12 '01 16:53
09/12/01 16:47 KNIGHT PIESULD LTD VANCOUVER → 250 952 0481 NO.810 P022/026
INVESTIGATION SEP-01 Page 380 of 500 022



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
MAIN EMBANKMENT
FOUNDATION DRAIN FLOWS

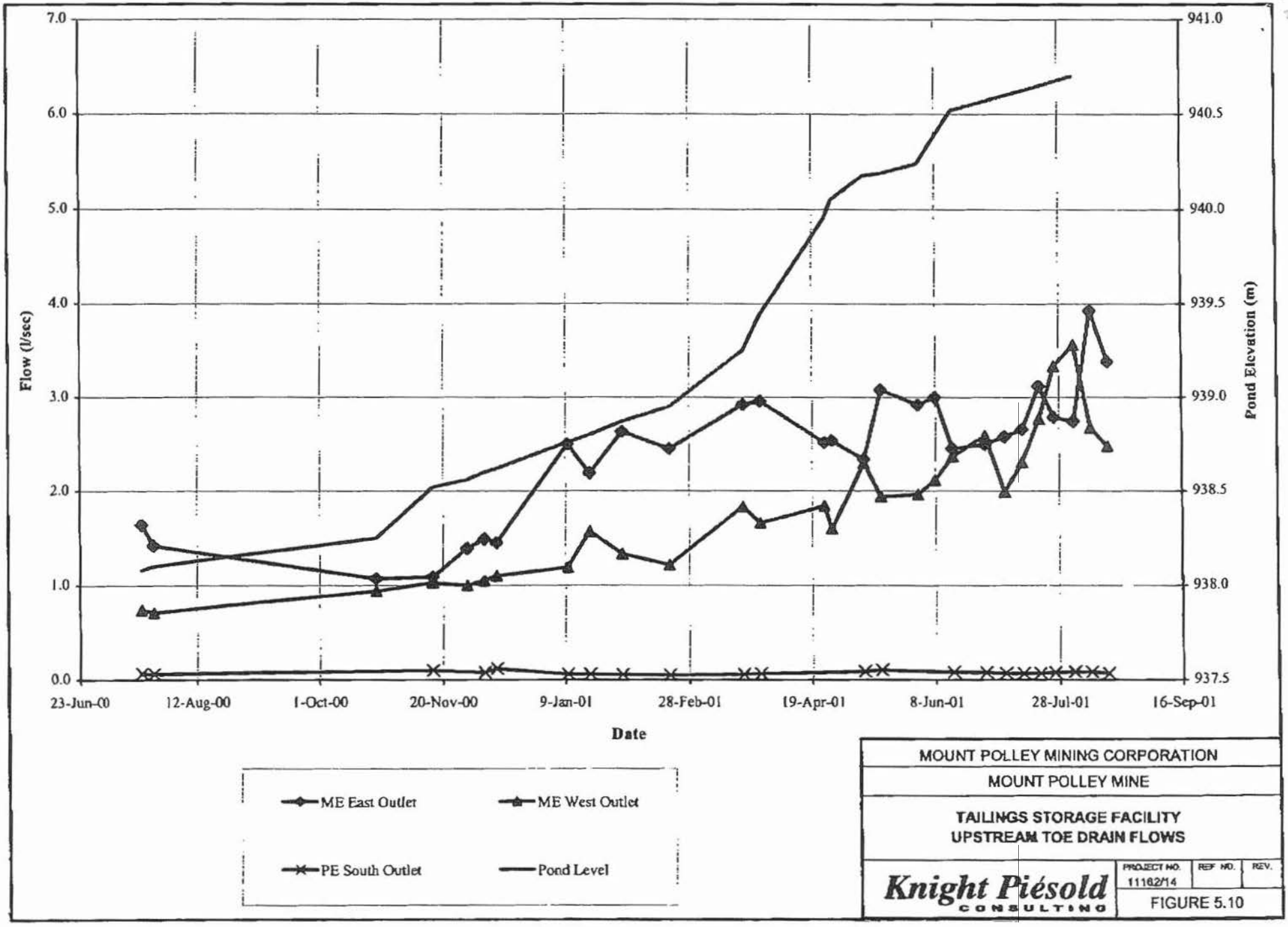
Knight Piésold CONSULTING

PROJECT NO.	REF NO.	REV.
11162/14		

FIGURE 5.9

SEP 12 '01 16:53

09/12/01 16:47 KNIGHT PIESOLD LTD VANCOUVER → 250 952 0481



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
UPSTREAM TOE DRAIN FLOWS

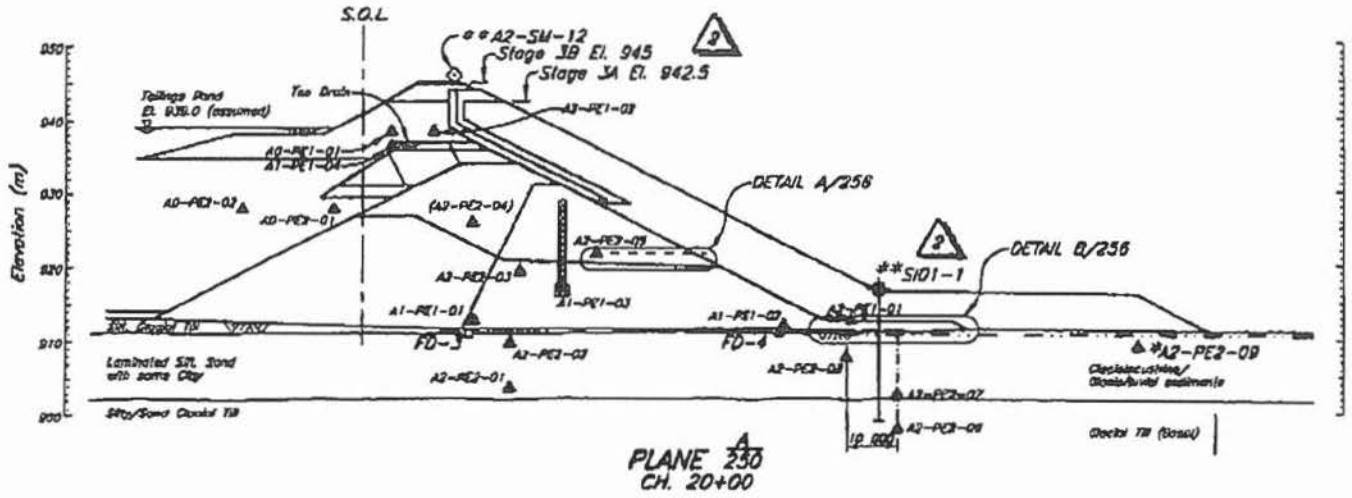
Knight Piésold CONSULTING

PROJECT NO.	REF NO.	REV.
1116214		

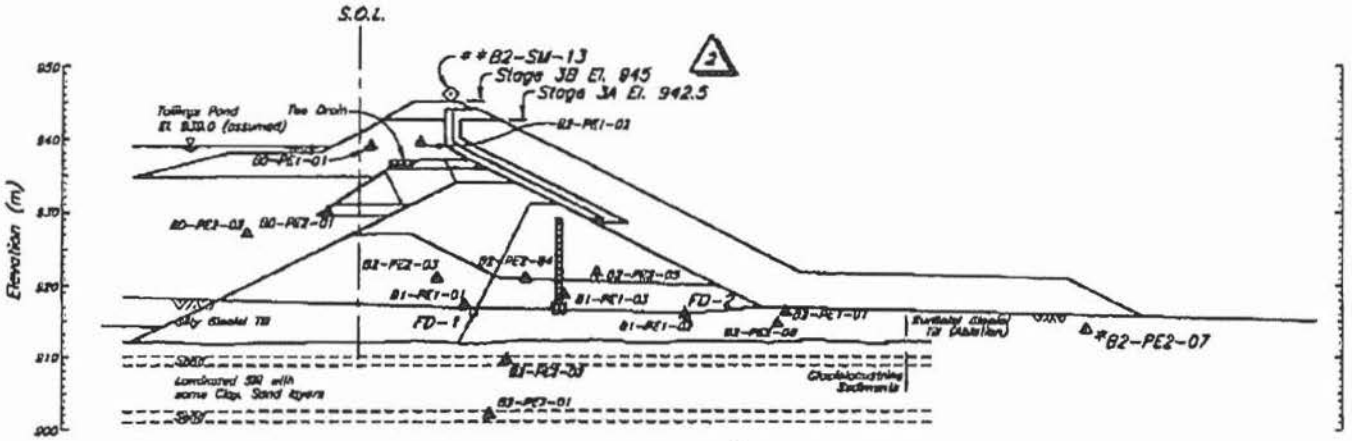
FIGURE 5.10

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604 685 0149 PAGE.023

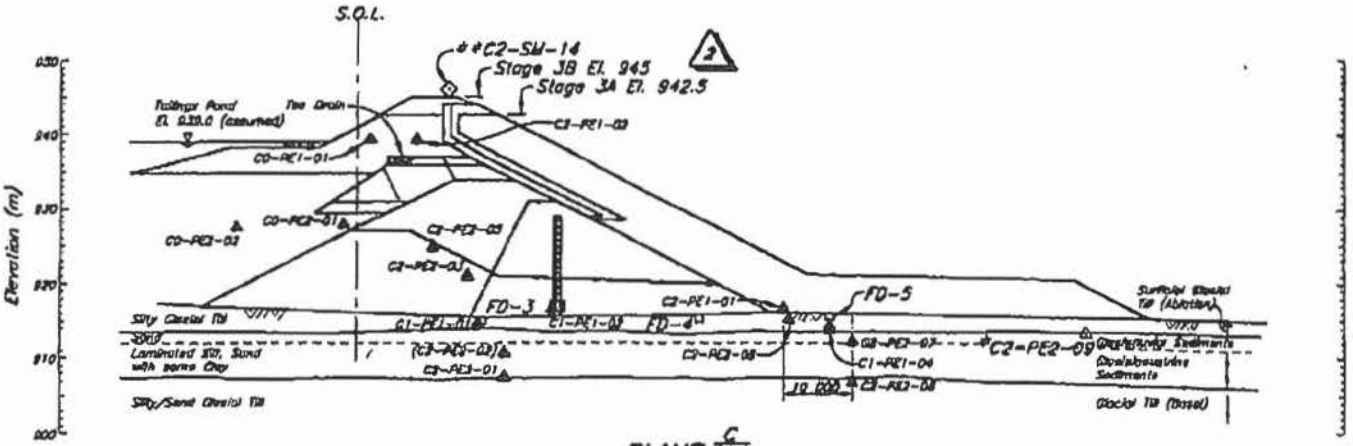
NO.810 P023/026



PLANE A/250
CH. 20+00

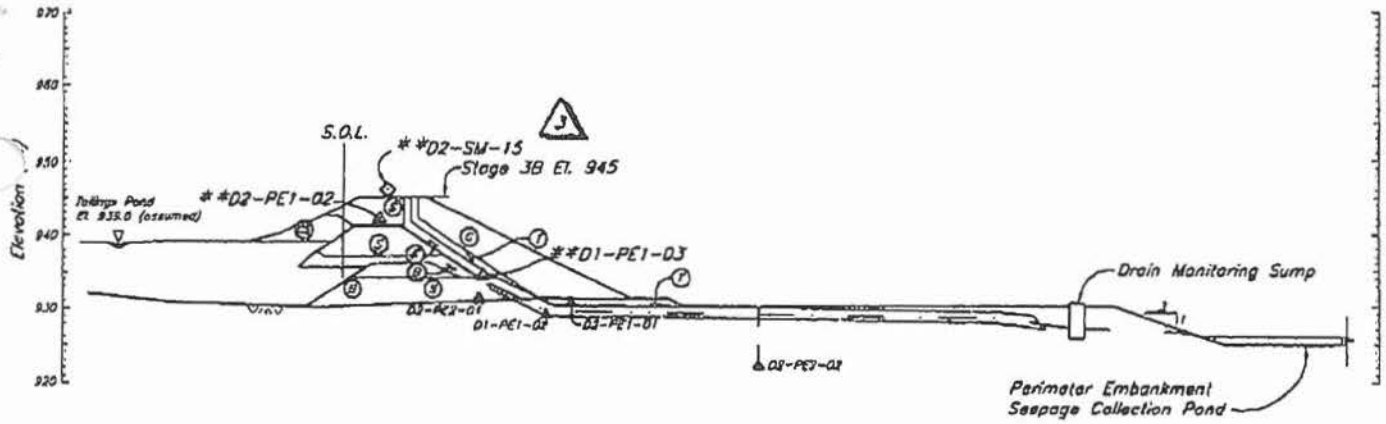


PLANE B/250
CH. 22+40

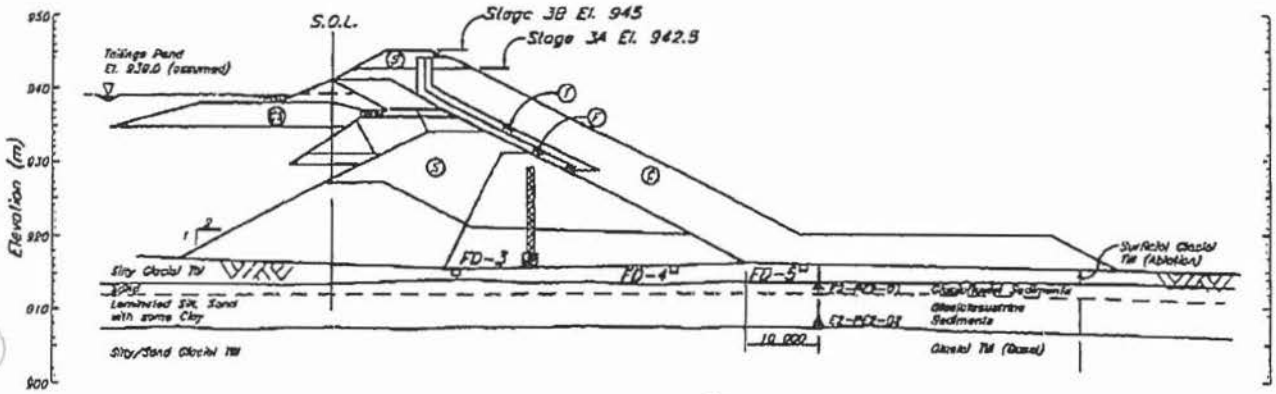


PLANE C/250
CH. 18+50

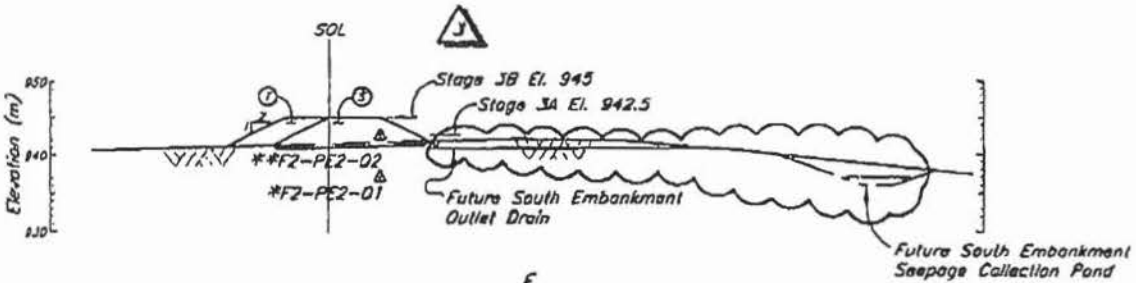
REFERENCE DRAWINGS	REVISIONS										
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	
STAGE 3 TAILINGS EMBANKMENT – INSTRUMENTATION – SECTIONS 2 OF 2								2	06MAY'01	ISSUED FO
STAGE 3 TAILINGS EMBANKMENT – INSTRUMENTATION – SUMMARY OF INSTALLATION & TYP. DETAILS								1	26JAN'01	ISSUED FO
STAGE 3 MAIN EMBANKMENT – INSTRUMENTATION – PLAN								0	2JUN'00	ISSUED FO



PLANE $\frac{D}{231}$
CH. 39+86



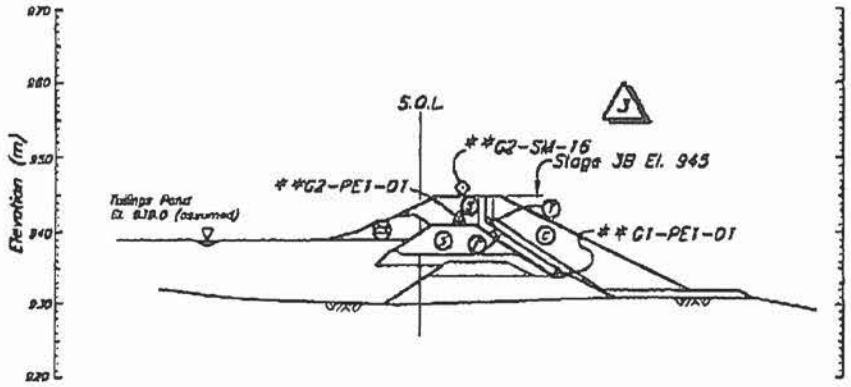
PLANE $\frac{E}{250}$
CH. 17+60



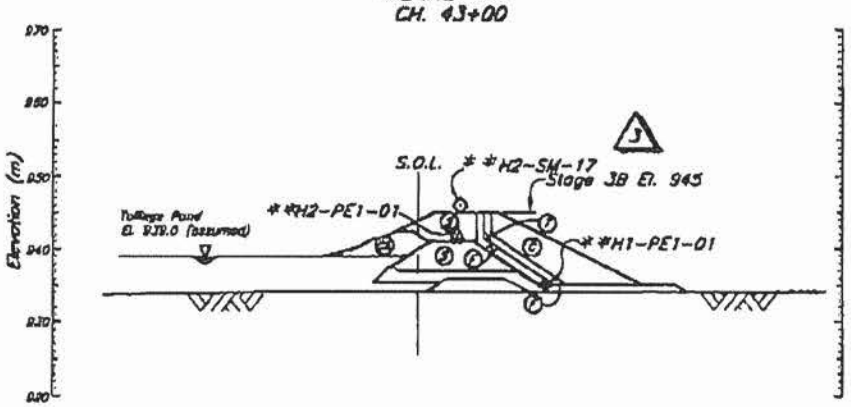
PLANE $\frac{F}{254}$
CH. 7+19

REFERENCE DRAWINGS	REVISIONS
STAGE 3 TAILINGS EMBANKMENT – INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS	3 08MAY'01 ISSUED FOR
STAGE 3 TAILINGS EMBANKMENT – SOUTH EMBANKMENT – INSTRUMENTATION PLAN	2 26JAN'01 STAGE 3B
STAGE 3 PERIMETER EMBANKMENT – INSTRUMENTATION PLAN	1 30OCT'00 PERIMETER
STAGE 3 TAILINGS EMBANKMENT – MAIN EMBANKMENT – INSTRUMENTATION PLAN	0 2JUN'00 ISSUED FOR

DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE



PLANE G 231
CH. 43+00



PLANE N 231
CH. 36+00

NOTE

1. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.

Scale 10 0 10 20 30 40 50 m

REVISIONS	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	DATE
0	FOR STAGE 3B TENDER	CWM	DSR	JRK	KJB	
1	- CREST ELEVATION 945	JRK	AW	JMTW	KJB	
2	FOR EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW	KJB	
3	FOR CONSTRUCTION	JRK	TAM	ABW	KJB	

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — C.W. MANTR

DESIGNED JRK | CHECKED ABW | DRAWN DSR | APPROVED KJB

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS – SHEET 2 OF 2

Knight Piésold CONSULTING

SCALE AS SHOWN | REVISION 3

DRAWING NO. 11162-13-259

COVER LETTER

DATE 09/12 16:42

TO: 250 952 0481
FROM: KNIGHT PIESOLD LTD VANCOUVER
TEL NO. 604 685 0147

TOTAL PAGES 027 (INCLUDE THIS PAGE)

SEP 12 '01 16:54 604 685 0147 PAGE.027

250 790 2268 PAGE.001
AUG 14 '01 16:40

Knight Piésold
CONSULTING

Mount Polley Site Office *Fax: (250) 790-2268*
www.knightpiésold.com

DATE:	August 14, 2001	**FILE NO.:**	11162/14.F01/.F02/ .F04/.F05/.F08
TIME:		**REF NO.:**	01-30
OPERATOR:		**PAGES:**	1 of 25
SENDER:	s.22		

TO:	Ministry of Energy and Mines, Victoria B.C. **FAX :** 250-952-0481
ATTN:	Chris Carr
CC:	Ken Brouwer, KP Vancouver Don Parsons / Eric LeNeve, MPMC Site
SUBJECT:	Progress Report No. 18

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 18 from August 6 to August 12, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,

s.22

Knight Piésold Consulting

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

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CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
PROGRESS REPORT NO. 18 – AUGUST 6 TO AUGUST 12, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out the majority of this work. Material haulage only is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Charlie O'Hara General Foreman
- Site Foreman
- s.22 Site Foreman

1.2 CONTRACT DEVELOPMENTS

No new contract developments took place over the reporting period.

1.3 DESIGN DEVELOPMENTS

No new design developments occurred during the reporting period.

1.3 WEATHER

Conditions were warm and sunny during the reporting period with maximum daytime highs reaching about +28 °C and nightly lows sinking to as low as +8 °C.

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1.4 SAFETY

No new safety incidents occurred over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 19+00 to obtain a well developed, even beach at the Main Embankment. The tailings line will then be moved to the ridge between the Main and South Embankments. It is anticipated that tailings will form a substantial beach in this area by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Hitachi EX 400
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992B
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K, 1Caterpillar D7G
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks
- Lake Excavating: 6 dump trucks and 1 Caterpillar 966 loader

MPMC carried out the following activities during the reporting period:

- Placement of Zone F, Perimeter Embankment: Ch. 37+00 to 39+50, El. 934.0 to 938.0 m.
- Placement of Zone S, Perimeter Embankment: Ch. 32+00 to 36+00, El. 941.3 to 942.5 m

Zone F was delivered from the stockpile at the millsite and Zone S originated from Borrow Area 2. Zone F was placed in a 1 m thick lift on the downstream embankment slope over stiff Zone S, while Zone S was placed in 300 mm horizontal lifts.

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SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F and S.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.
- Preparation of the Annual Report and the Stage 3 Construction Report

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- R-ZF-41B
- C-ZF-46

The lone Zone F record sample was a re-test of R-ZF-41, which was on the fine side of the specification on the #100 sieve. The re-test proved that the material was suitable for Zone F fill. The original sample will be stricken from the record since it is deemed that there was an error in testing this sample. The control test completed during the reporting period proved suitable for Zone F also. All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING

5.1 GENERAL

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed during the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.8. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

MOUNT POLLEY MINING CORP. #3352 P.004
AUG.14.2001 16:26 250 790 2268

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No substantial changes were noted in the foundation piezometers.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. Generally, these piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Readings at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on August 9, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.9 and 5.10, respectively.

5.4 SLOPE INCLINOMETERS

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The equipment to monitor, record and evaluate the data from the slope inclinometers is expected to be on site during the second week of August. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

SECTION 6.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 942.5 m.
- The slope inclinometers will be measured and calibrated.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,

s.22

Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

#5352 P.006 MOUNT POLLEY MINING CORP. AUG.14'2001 16:26 250 790 2268

AUG 14 '01 16:42 250 790 2268 PAGE.007
#3334 P.001
MOUNT POLLEY MINING CORP. FAX
AUG.14.2001 12:01 NO. 022 P.002
INVESTIGATION KCB-2 Page 392 of 500

TABLE 4.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F CONTROL TEST SUMMARY SHEET

H:\ENG\DATA\Engdocs\Geotechnical\Spillz\Stage 3B Construction\Rpt\control\[C-ZF-summ.xls]Data Sheet

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SHEET: 1 of 1
PERIOD: August 6 to August 12, 2001
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
PROJECT NO.: 11162/14
MATERIAL: Zone F - Filter Sand
AREA: Zone F Stockpile

Sample No.	Date Sampled	Location	El. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Field m/c %	LI %	C3 (Particle Size Distribution) 101.6 mm	76.2 mm	38.1 mm	25.4 mm	19.05 mm	12.7 mm	9.525 mm	4.75 mm	2.36 mm	1.18 mm	0.6 mm	0.3 mm	0.14736 mm	0.07366 mm	0.002 mm	C4 Standard Proctor Max Dry Density kg/m³	C4 Standard Proctor Optimum m/c %	C5 Specific Gravity
									4"	3"	1.5"	1"	0.75"	0.5"	0.375"	0.187"	0.0937"	0.0469"	0.0234"	0.0165"	0.0059"	0.0029"	Clay			
									4	3	1 1/2	1	3/4	1/2	3/8	#4	#8	#16	#30	#50	#100	#200				
C-ZF-3-1	17-Jul-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		72.8		39.8	28.7		9.5		8.3	2.9	-	-	-	-
C-ZF-3-2	19-Jul-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		67.6		39.1	33.2	29.7	14.9	10.0	6.2	3.7	-	-	-	-
C-ZF-3-3	19-Jul-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		79.5		38.6	23.7	14.1	10.8	7.0	4.0	2.4	-	-	-	-
C-ZF-3-4	20-Jul-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		88.1		50.1	33.9	20.6	13.8	9.5	5.8	3.1	-	-	-	-
C-ZF-3-5	21-Jul-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		80.0		39.0	25.4	18.8	11.7	7.8	5.3	1.0	-	-	-	-
C-ZF-3-6	24-Aug-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		76.9		39.5	25.8	17.3	12.2	5.3	2.8	1.5	-	-	-	-
C-ZF-3-7	24-Aug-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		7.3		29.2	17.0	11.0	7.5	4.8	2.6	1.5	-	-	-	-
C-ZF-3-8	25-Aug-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		86.2		53.3	35.3	21.5	14.2	9.0	6.0	2.3	-	-	-	-
C-ZF-3-9	6-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		82.1		44.6	30.0	19.6	13.3	7.7	4.0	1.6	-	-	-	-
C-ZF-3-10	6-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		80.3		36.6	23.1	16.1	11.3	7.0	3.3	1.1	-	-	-	-
C-ZF-3-11	8-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		78.1		39.3	23.6	14.5	9.2	5.4	2.9	1.3	-	-	-	-
C-ZF-3-12	9-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		81.7		46.5	30.5	19.5	12.1	6.7	3.2	1.2	-	-	-	-
C-ZF-3-13	9-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		67.0		52.9	35.3	22.7	14.3	8.2	4.2	1.3	-	-	-	-
C-ZF-3-14	9-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		82.5		44.5	30.0	19.5	12.3	6.7	3.1	1.1	-	-	-	-
C-ZF-3-15	12-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		76.3		34.5	23.7	15.2	10.5	9.3	5.2	2.6	-	-	-	-
C-ZF-3-16	13-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		78.7		39.9	26.0	16.6	10.0	5.3	3.0	1.6	-	-	-	-
C-ZF-3-17	13-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		90.8		55.3	38.6	27.3	19.1	12.6	7.8	4.0	-	-	-	-
C-ZF-3-18	13-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		90.9		55.0	37.0	24.9	16.2	10.0	45.7	3.0	-	-	-	-
C-ZF-3-19	15-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		91.9		60.1	41.6	27.1	17.1	9.9	5.2	2.2	-	-	-	-
C-ZF-3-20	17-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		82.4		41.4	28.0	19.1	12.3	6.4	3.0	1.5	-	-	-	-
C-ZF-3-21	17-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		85.1		38.7	19.6	12.4	8.4	5.1	2.6	1.5	-	-	-	-
C-ZF-3-22	18-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		87.9		35.1	16.6	10.1	6.8	4.5	3.1	2.0	-	-	-	-
C-ZF-3-23	18-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		92.0		51.8	30.2	18.2	12.0	7.3	3.6	1.5	-	-	-	-
C-ZF-3-24	18-Sep-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		89.7		42.0	24.5	15.7	10.6	6.6	3.6	1.8	-	-	-	-
C-ZF-3-25	11-Nov-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		83.3		50.8	34.0	27.5	15.2	9.5	4.6	2.1	-	-	-	-
C-ZF-3-26	29-Nov-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		79.7		44.7	29.7	20.0	14.1	10.2	5.0	2.8	-	-	-	-
C-ZF-3-27	4-Dec-00	Zone F Stockpile	-	-	-	-	-	-	100.0	100.0	100.0	100.0		86.3		58.0	42.8	31.3	23.9	17.5	11.1	6.8	-	-	-	-
C-ZF-3-31	28-Mar-01	Zone F Stockpile	-	-	-	-	4.1	-	100.0	100.0	100.0	100.0	99.6		84.0	61.6	45.0	25.5	23.3	16.5	12.7	10.0	-	-	-	-
C-ZF-3-32	28-May-01	Zone F Stockpile	-	-	-	-	4.0	-	100.0	100.0	100.0	100.0	99.4		78.9	59.5	43.4	29.6	21.9	16.8	13.1	10.4	-	-	-	-
C-ZF-3-33	28-May-01	Zone F Stockpile	-	-	-	-	2.9	-	100.0	100.0	100.0	100.0	98.7		56.0	28.1	17.6	12.8	10.1	7.8	6.1	4.8	-	-	-	-

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TABLE 4.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F CONTROL TEST SUMMARY SHEET

H:\ENG\DATA\Engdocs\Geotechnical\tpsite\Stage 3B Construction\Mt'control\[C-ZF-summ.xls]Data Sheet

Knight Piésold CONSULTING

SHEET: 1 of 1
PERIOD: August 6 to August 12, 2001
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
PROJECT NO.: 11162/14
MATERIAL: Zone F - Filter Sand
AREA: Zone F Stockpile

Sample No.	Date Sampled	Location	El. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Field m/c %	LI %	C3 (Particle Size Distribution) 101.6 mm	76.2 mm	38.1 mm	25.4 mm	19.05 mm	12.7 mm	9.525 mm	4.75 mm	2.36 mm	1.18 mm	0.6 mm	0.3 mm	0.14986 mm	0.07366 mm	0.032 mm	C4 Standard Proctor Max Dry Density kg/m³	C4 Standard Proctor Optimum m/c %	C6 Specific Gravity
									4"	3"	1.5"	1"	0.75"	0.5"	0.375"	0.187"	0.0937"	0.0469"	0.023"	0.0165"	0.0059"	0.0029"				
									4	3	1 1/2	1	3/4	1/2	3/8	#4	#8	#16	#30	#50	#100	#200	Clay			
C-ZF-3-34	11-Jun-01	Zone F Stockpile	-	-	-	-	3.7	-	100.0	100.0	100.0	100.0	99.3		98.2	95.0	91.2	85.0	70.5	58.0	36.1	25.8	-	-	-	-	-
C-ZF-3-35	11-Jun-01	Zone F Stockpile	-	-	-	-	4.2	-	100.0	100.0	100.0	100.0	97.9		93.3	86.7	74.7	65.3	50.6	38.0	21.4	15.1	-	-	-	-	-
C-ZF-3-36	12-Jun-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	97.7		90.6	82.0	74.2	66.5	52.2	39.4	23.1	16.6	-	-	-	-	-
C-ZF-3-37	3-Jul-01	Zone F Stockpile	-	-	-	-	1.5	-	100.0	100.0	100.0	100.0	95.0		86.3	74.9	63.7	56.1	43.5	36.0	22.2	16.2	-	-	-	-	-
C-ZF-3-38	3-Jul-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	98.5		96.7	85.6	80.0	72.2	59.0	42.9	26.5	19.3	-	-	-	-	-
C-ZF-3-39	3-Jul-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	99.5		95.4	81.2	74.5	68.3	59.8	46.7	29.7	19.9	-	-	-	-	-
C-ZF-3-40	4-Jul-01	Zone F Stockpile	-	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.3		98.6	84.7	80.2	73.8	62.3	46.9	32.2	23.5	-	-	-	-	-
C-ZF-3-41	4-Jul-01	Zone F Stockpile	-	-	-	-	5.5	-	100.0	100.0	100.0	100.0	99.1		97.0	86.2	76.7	71.3	61.9	46.3	31.7	21.8	-	-	-	-	-
C-ZF-3-42	13-Jul-01	Zone F Stockpile	-	-	-	-	5.3	-	100.0	100.0	100.0	100.0	96.9		92.4	85.3	77.4	66.9	50.3	35.9	23.9	-	-	-	-	-	-
C-ZF-3-43	13-Jul-01	Zone F Stockpile	-	-	-	-	5.5	-	100.0	100.0	100.0	100.0	99.1		97.1	87.4	79.0	72.0	56.7	39.1	26.5	-	-	-	-	-	-
C-ZF-3-44	28-Jul-01	Zone F Stockpile	-	-	-	-	6.9	-	100.0	100.0	100.0	100.0	99.1		98.2	89.7	80.1	73.5	60.8	43.6	31.6	18.8	14.9	-	-	-	-
C-ZF-3-45	29-Jul-01	Zone F Stockpile	-	-	-	-	8.1	-	100.0	100.0	100.0	100.0	95.0		90.7	83.6	72.5	64.5	49.3	33.6	22.6	10.2	-	-	-	-	-
C-ZF-3-46	9-Aug-01	Zone F Stockpile	-	-	-	-	6.0	-	100.0	100.0	100.0	100.0	100.0		96.4	82.6	82.2	71.7	57.1	44.0	31.5	9.5	-	-	-	-	-
		MEAN	#DIV/0!	#DIV/0!	#DIV/0!	4.3	#DIV/0!	100.0	100.0	100.0	100.0	98.5	#DIV/0!	70.5	46.8	32.1	21.5	15.3	11.0	7.5	6.1	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		MEDIAN	#NUM!	#NUM!	#NUM!	4.1	#NUM!	100.0	100.0	100.0	100.0	99.1	#NUM!	72.4	45.0	31.2	20.1	12.3	8.6	6.3	5.0	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
		MAXIMUM (*)	0.0	0.0	0.0	8.1	0.0	100.0	100.0	100.0	100.0	100.0	0.0	86.4	61.6	50.1	39.5	30.8	23.6	18.8	14.9	0.0	0.0	0.0	0.0	0.0
		MINIMUM (*)	0.0	0.0	0.0	1.5	0.0	100.0	100.0	100.0	100.0	95.0	0.0	56.0	28.1	17.6	12.8	9.8	5.9	3.2	1.5	0.0	0.0	0.0	0.0	0.0

Note: These are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

C1 Atterberg Limits (ASTM D4318)
C2 Moisture Content (ASTM D2216)
C3 Particle Size Distribution (ASTM D422)
C4 Laboratory Compaction (ASTM D1557)
C6 Specific Gravity (ASTM D854)

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AUG 14 2001 07:07 FAX 250 790 2268 KNIGHT PIESOLD LTD.
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TABLE 4.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F RECORD TEST SUMMARY SHEET

H:\ENGDATA\Engdocs\Geotechnical\Spill\Stage 3B Construction\Records\[R-ZF-summ.xls]Data Sheet

Knight Piésold CONSULTING

SHEET: 1 of 1
PERIOD: August 6 to August 12, 2001
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
PROJECT NO.: 11162/14
MATERIAL: Zone F - Filter Sand
AREA: TSF

Sample No.	Date Sampled	Location	El. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Field w/c %	LL %	C3 (Particle Size Distribution) 101.6 mm	76.2 mm	38.1 mm	25.4 mm	19.05 mm	12.7 mm	9.525 mm	4.75 mm	2.36 mm	1.18 mm	0.6 mm	0.3 mm	0.14086 mm	0.07366 mm	0.002 mm	C4 Standard Proctor Max Dry Density kg/m³	Optimum w/c %	C6 Specific Gravity
									4	3	1 1/2	1	3/4	1/2	3/8	#4	#8	#16	#30	#50	#100	#200	Clay			
R-ZF-3-1	19-Aug-00	26+10	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	88.6		51.8	34.5	23.2	15.5	10.4	6.1	3.1	-	-	-	-
R-ZF-3-2	20-Aug-00	17+00	932.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	86.6		50	35	24.5	16.2	11.9	7.8	4.2	-	-	-	-
R-ZF-3-3	21-Aug-00	20+00	933.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	80.1		46.6	31.8	21.7	14.9	10.1	6.4	3	-	-	-	-
R-ZF-3-4	23-Aug-00	20+05	933.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	85.2		53.7	35.8	15	16.1	10.6	6.8	3.3	-	-	-	-
R-ZF-3-5	24-Aug-00	25+50	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	81.6		42.1	27.3	17.8	14.6	8.2	5.2	3.1	-	-	-	-
R-ZF-3-6	25-Aug-00	19+00	935.0	-	-	-	-	-	100.0	100.0	100.0	98.1		82.4		47.8	32.2	21.3	14.7	10.1	6.8	3.7	-	-	-	-
R-ZF-3-7B	8-Sep-00	19+00	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0		86.0		47.7	29.8	15.5	8.5	5.6	3.8	2.4	-	-	-	-
R-ZF-3-8	8-Sep-00	19+00	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0											-	-	-	-
R-ZF-3-9	25-Aug-00	24+50	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		78.9		45.5	30.4	21.1	14.7	10.0	6.5	3.8	-	-	-	-
R-ZF-3-10	27-Aug-00	23+40	936.0	-	-	-	-	-	100.0	100.0	100.0	100.0		78.8		38.3	24.4	15.2	9.6	6.5	4.5	2.7	-	-	-	-
R-ZF-3-11	30-Aug-00	23+80	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		85.2		48.7	30.6	19.6	12.4	8.1	5.6	3.6	-	-	-	-
R-ZF-3-12	6-Sep-00	16+20	940.0	-	-	-	-	-	100.0	100.0	100.0	100.0		77.3		39.0	26.9	18.5	12.4	7.3	4.0	2.1	-	-	-	-
R-ZF-3-13	7-Sep-00	21+30	940.0	-	-	-	-	-	100.0	100.0	100.0	98.7		75.6		37.5	24.6	16.6	10.2	5.5	3.9	2.3	-	-	-	-
R-ZF-3-14	8-Sep-00	16+40	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		81.0		45.2	28.5	17.4	7.0	4.6	3.2	2.1	-	-	-	-
R-ZF-3-15	8-Sep-00	17+50	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		77.9		39.7	22.3	12.2	7.6	5.0	3.6	2.3	-	-	-	-
R-ZF-3-16	5-Sep-00	18+50	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		76.8		31.6	17.4	9.9	6.6	45.6	3.6	2.4	-	-	-	-
R-ZF-3-17	10-Sep-00	21+40	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		64.1		46.6	30.4	20.3	13.9	9.0	6.0	3.4	-	-	-	-
R-ZF-3-18	10-Sep-00	22+20	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.1		45.3	27.2	19.8	13.8	9.3	5.4	2.4	-	-	-	-
R-ZF-3-19	11-Sep-00	25+50	938.0	-	-	-	-	-	100.0	100.0	100.0	100.0		76.4		44.6	32.4	22.0	13.4	9.3	6.4	3.7	-	-	-	-
R-ZF-3-20	11-Sep-00	22+80	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.7		43.6	27.6	15.5	7.8	4.6	3.2	2.2	-	-	-	-
R-ZF-3-21	12-Sep-00	22+60	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		87.5		51.5	34.2	22.4	14.1	8.3	4.5	2.4	-	-	-	-
R-ZF-3-22	15-Sep-00	19+00	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		88.3		53.7	37.0	25.5	17.8	11.5	7.1	3.3	-	-	-	-
R-ZF-3-23	16-Sep-00	17+60	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		85.6		49.7	33.9	23.4	15.8	9.9	5.4	2.7	-	-	-	-
R-ZF-3-24	19-Sep-00	26+20	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		88.7		48.3	31.9	21.5	14.8	9.2	5.1	2.3	-	-	-	-
R-ZF-3-25	20-Sep-00	20+60	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		89.1		54.3	36.4	24.3	16.2	9.4	4.9	1.7	-	-	-	-
R-ZF-3-26	21-Sep-00	21+20	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.4		44.1	30.3	19.7	20.1	14.5	9.3	4.8	-	-	-	-

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TABLE 4.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F RECORD TEST SUMMARY SHEET

H:\ENG\DATA\Engdocs\Geotechnical\kpole\Stage 3B Construction\Lab\record\[R-ZF-summ.xls]Data Sheet

Knight Piésold CONSULTING

SHEET : 1 of 1
PERIOD : August 6 to August 12, 2001
PROJECT NO. : 11162/14
AREA : TSF

PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
MATERIAL: Zone F - Filter Sand

Sample No.	Date Sampled	Location	El. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Fines m/c %	LI %	C3 (Particle Size Distribution) 101.6 mm / 4	76.2 / 3	38.1 / 1.5	25.4 / 1	19.05 / 0.75	12.7 / 0.5	9.525 / 0.375	4.75 / #4	2.36 / #8	1.18 / #16	0.6 / #30	0.3 / #50	0.14936 / 0.0059	0.07366 / 0.0029	0.002 mm / Clay	C4 Standard Proctor Max Dry Density kg/m³	Optimum m/c %	C6 Specific Gravity
R-ZF-3-27	11-Sep-00	22+80	933.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.7		43.5	29.0	19.4	13.0	8.9	5.0	2.3	-	-	-	-
																							-	-	-	-
R-ZF-31	28-Mar-01	29+00, 0.5 m D/S of Zone S	931.8	-	-	-	4.0	-	100.0	100.0	100.0	100.0	97.5		71.5	49.1	35.9	25.8	19.7	15.0	11.6	9.1	-	-	-	-
R-ZF-32	28-May-01	37+00, 0.5 m D/S of Zone S	935.0	-	-	-	4.1	-	100.0	100.0	100.0	100.0	98.7		68.4	46.0	31.9	22.5	16.9	12.8	9.9	7.7	-	-	-	-
R-ZF-33	17-Jun-01	42+00, 0.8 m D/S of Zone S	936.0	-	-	-	7.0	-	100.0	100.0	100.0	100.0	97.9		68.8	44.7	28.6	17.8	13.2	10.6	8.5	6.9	-	-	-	-
R-ZF-34	20-Jun-01	35+00, 0.8 m D/S of Zone S	935.0	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.2		61.5	37.8	27.0	18.7	14.0	11.0	8.6	6.8	-	-	-	-
R-ZF-35	20-Jun-01	43+00, 0.8 m D/S of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.4		70.8	46.6	32.6	23.0	17.2	13.7	10.6	8.5	-	-	-	-
R-ZF-36	10-Jul-01	33+50, 0.8 m D/S of Zone S	939.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.5		72.6	50.4	36.5	24.8	17.6	12.8	9.2	7.0	-	-	-	-
R-ZF-37	10-Jul-01	43+00, 0.8 m D/S of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.6		65.6	41.3	26.8	21.4	16.9	13.5	9.4	6.4	-	-	-	-
R-ZF-38	19-Jul-01	35+00, 1.0 m D/S of Zone S	935.0	-	-	-	8.4	-	100.0	100.0	100.0	100.0	99.4		73.8	50.6	35.5	26.1	19.7	15.7	12.0	9.6	-	-	-	-
R-ZF-39	28-Jul-01	43+00, 1.0 m D/S of Zone S	941.0	-	-	-	2.3	-	100.0	100.0	100.0	100.0	94.9		57.6	36.2	26.0	17.7	12.6	10.4	9.3	5.7	-	-	-	-
R-ZF-40	28-Jul-01	33+00, 1.0 m D/S of Zone S	941.0	-	-	-	6.3	-	100.0	100.0	100.0	100.0	100.0		73.2	44.8	31.7	22.0	15.1	10.4	7.5	2.7	-	-	-	-
R-ZF-41	5-Aug-01	33+25, 1.0 m D/S of Zone S	940.0	-	-	-	4.3	-	100.0	100.0	100.0	100.0	97.3		69.8	48.6	35.9	30.6	24.4	19.5	15.6	12.6	-	-	-	-
R-ZF-41B	9-Aug-01	reset	-	-	-	-	3.8	-	100.0	100.0	100.0	100.0	97.5	83.3	69.0	47.6	32.7	23.8	18.9	15.6	13.0	10.6	-	-	-	-
		MEAN	#DIV/0!	#DIV/0!	#DIV/0!	4.5	#DIV/0!	100.0	100.0	100.0	100.0	98.4	83.3	68.5	45.1	32.3	22.9	17.2	13.4	10.4	7.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		MEDIAN	#NUM!	#NUM!	#NUM!	4.4	#NUM!	100.0	100.0	100.0	100.0	99.0	83.3	69.4	45.7	32.3	22.5	17.1	13.2	9.7	7.4	#NUM!	#NUM!	#NUM!	#NUM!
		MAXIMUM (*)	0.0	0.0	0.0	8.4	0.0	100.0	100.0	100.0	100.0	100.0	83.3	73.8	50.6	36.9	30.6	24.4	19.5	15.6	12.6	10.6	0.0	0.0	0.0	0.0
		MINIMUM (*)	0.0	0.0	0.0	2.3	0.0	100.0	100.0	100.0	100.0	94.9	83.3	57.6	36.2	26.0	17.7	12.6	10.4	7.5	2.7	0.0	0.0	0.0	0.0	0.0

Note : These are 100% limits.

Values with strikethrough indicate that re-testing was successful. These samples will be stricken from the record in the following report.

IP - In progress

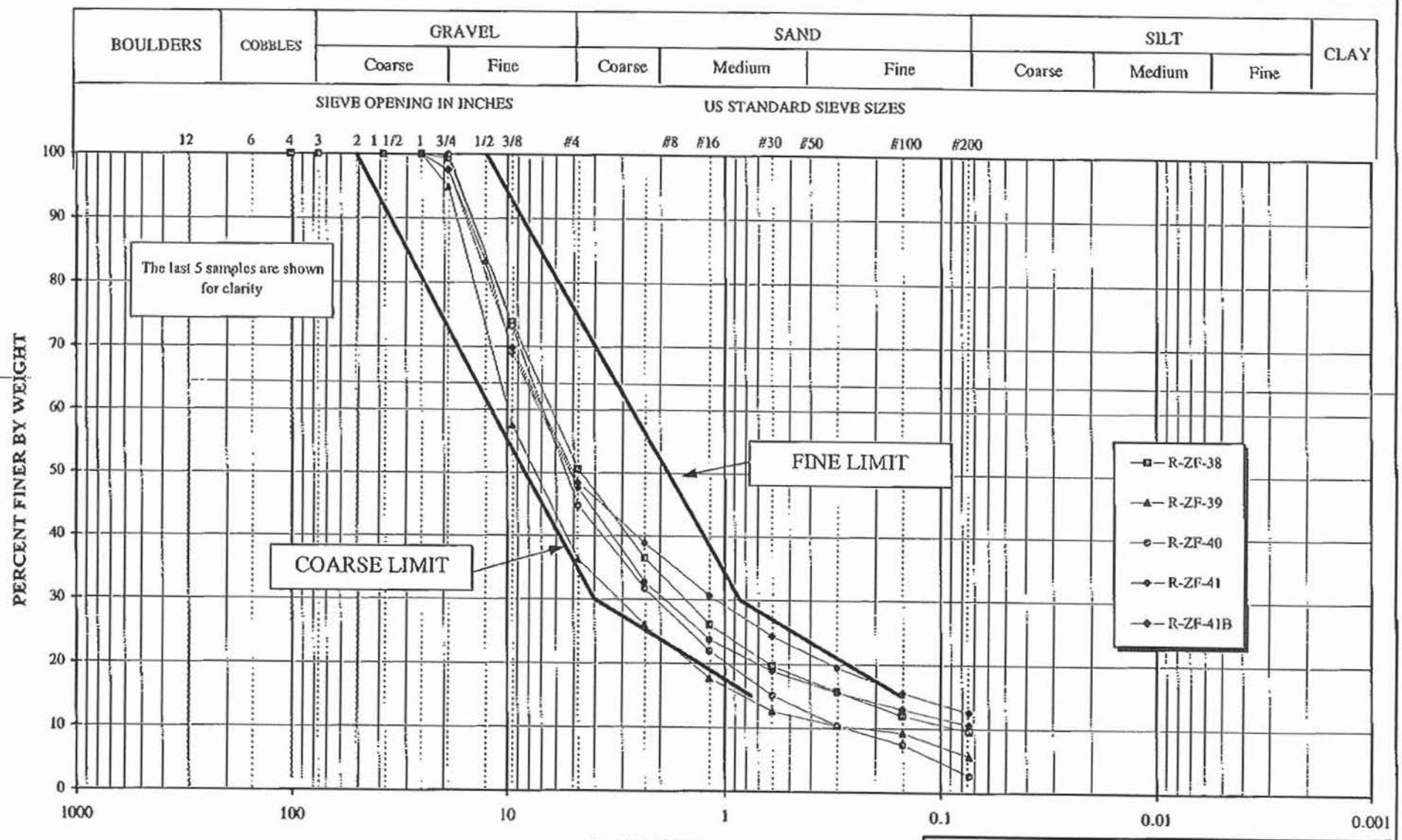
Collection of Stage 3A data in progress, samples R-ZF-8, 28, 29 and 30 are outstanding

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Specific Gravity (ASTM D854)

11162/14-0600-17
Revision 0
8/13/01

MOUNT POLLEY MINING CORP.
INVESTIGATION KCB-2 Page 395 of 500

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F RECORD SAMPLES
GRADATION CURVES

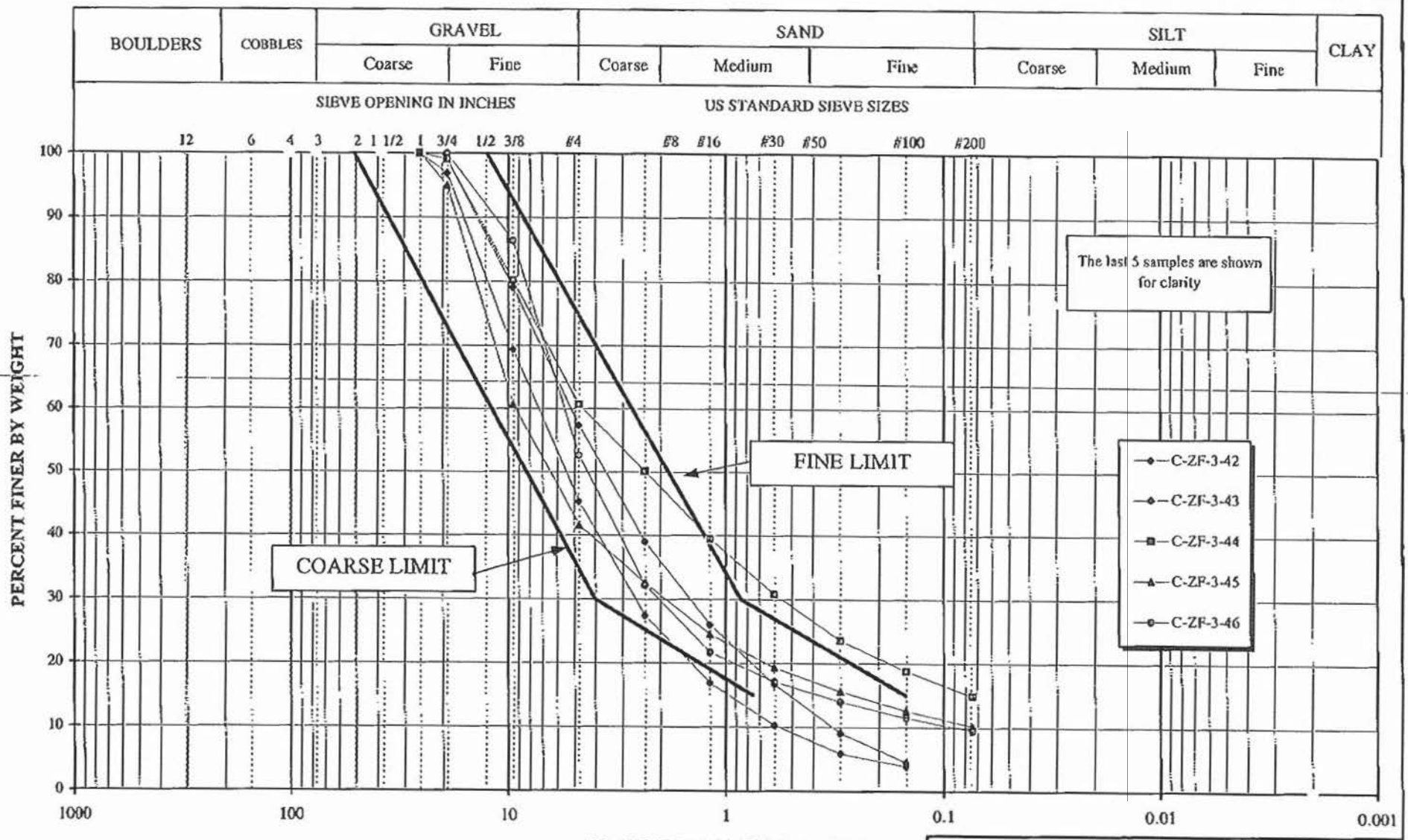
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PROJECT NO.	REF. NO	REV.
11162/14		

FIGURE 4.2

AUG 14 '01 16:43 250 790 2268 PAGE.011

INVESTIGATION KCB-2 Page 396 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

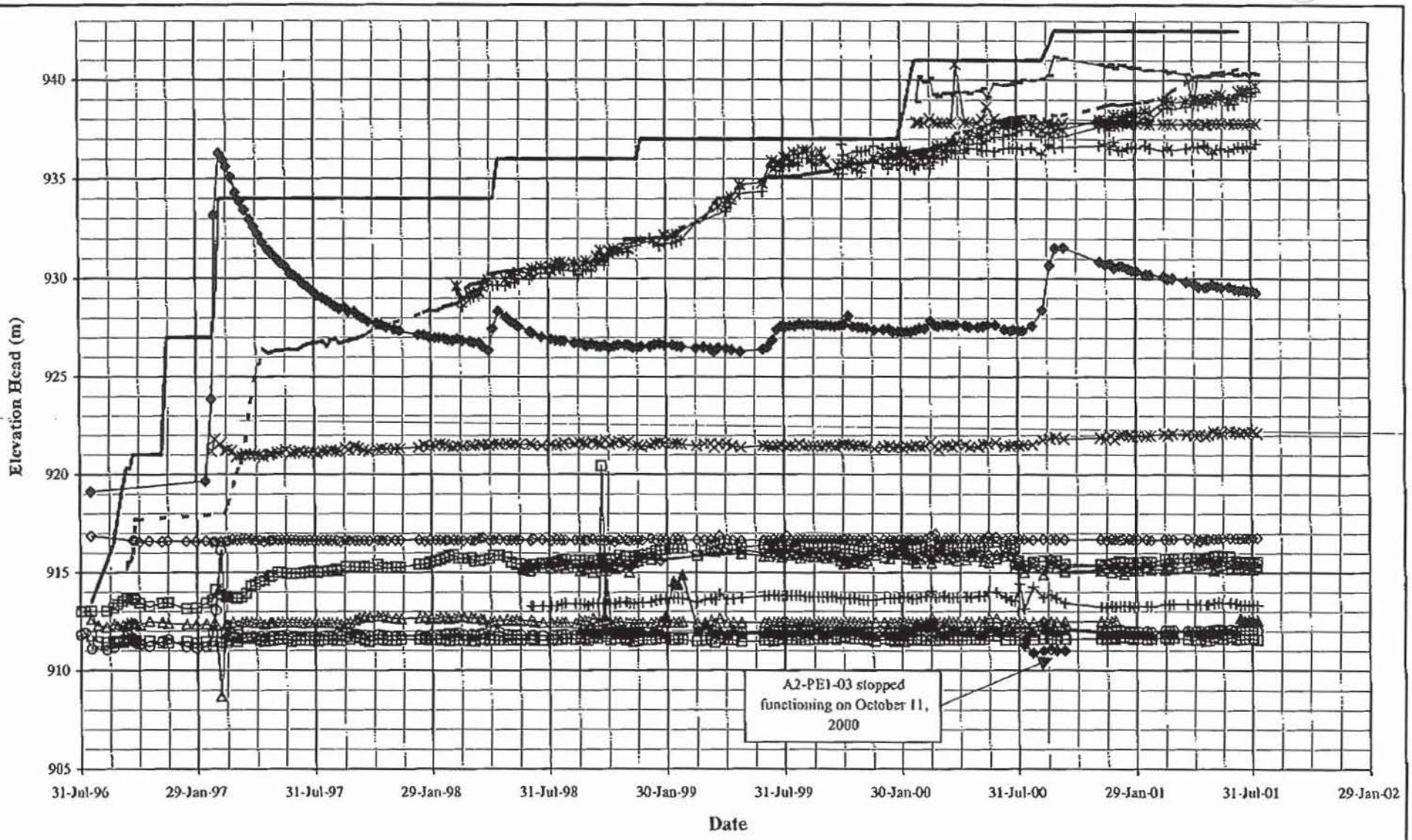
TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F CONTROL SAMPLES
GRADATION CURVES

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 4.1

AUG 14 '01 16:44 250 790 2268 PAGE.012
INVESTIGATION KCB-2 Page 397 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

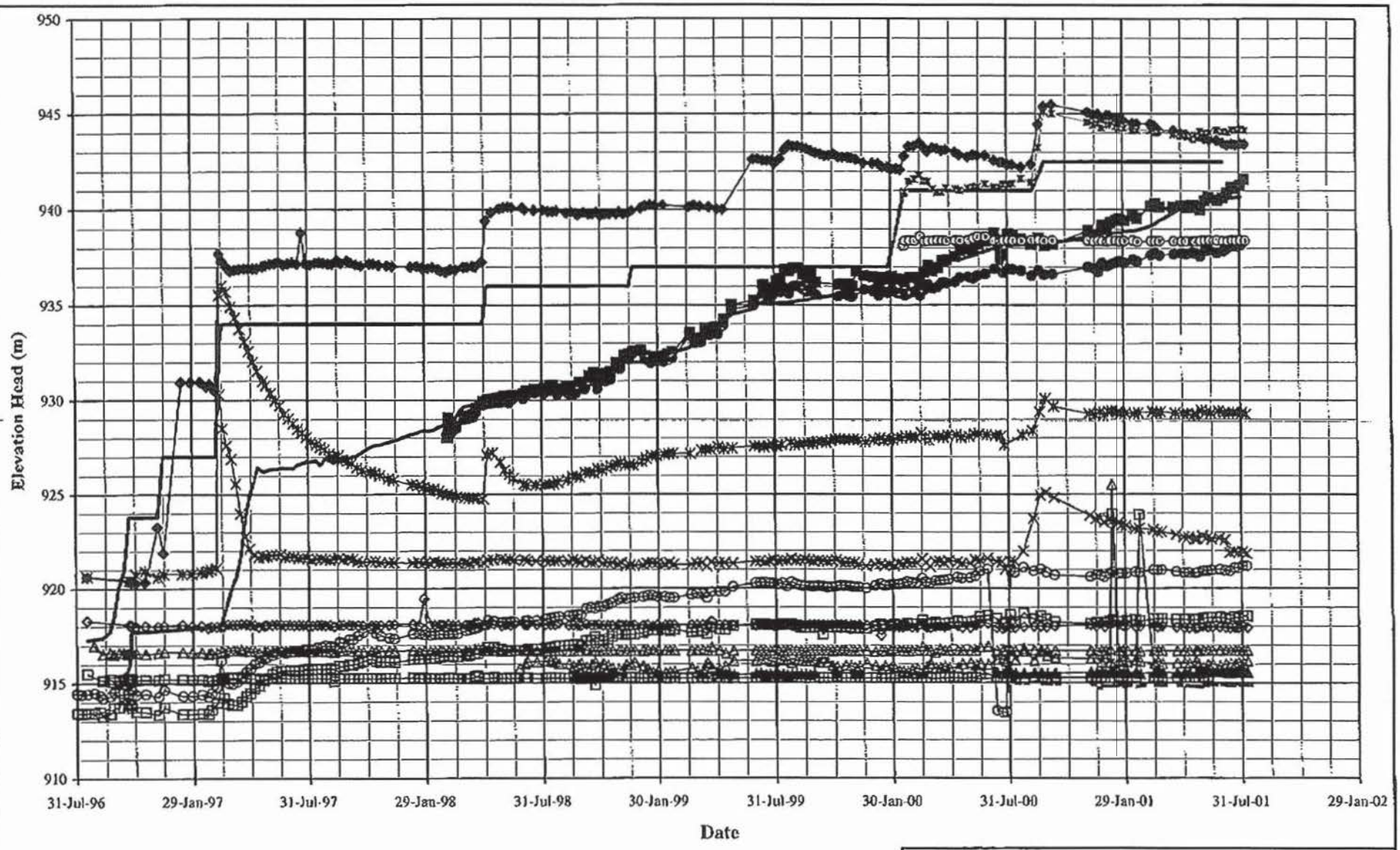
TAILINGS STORAGE FACILITY
PLANE A PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

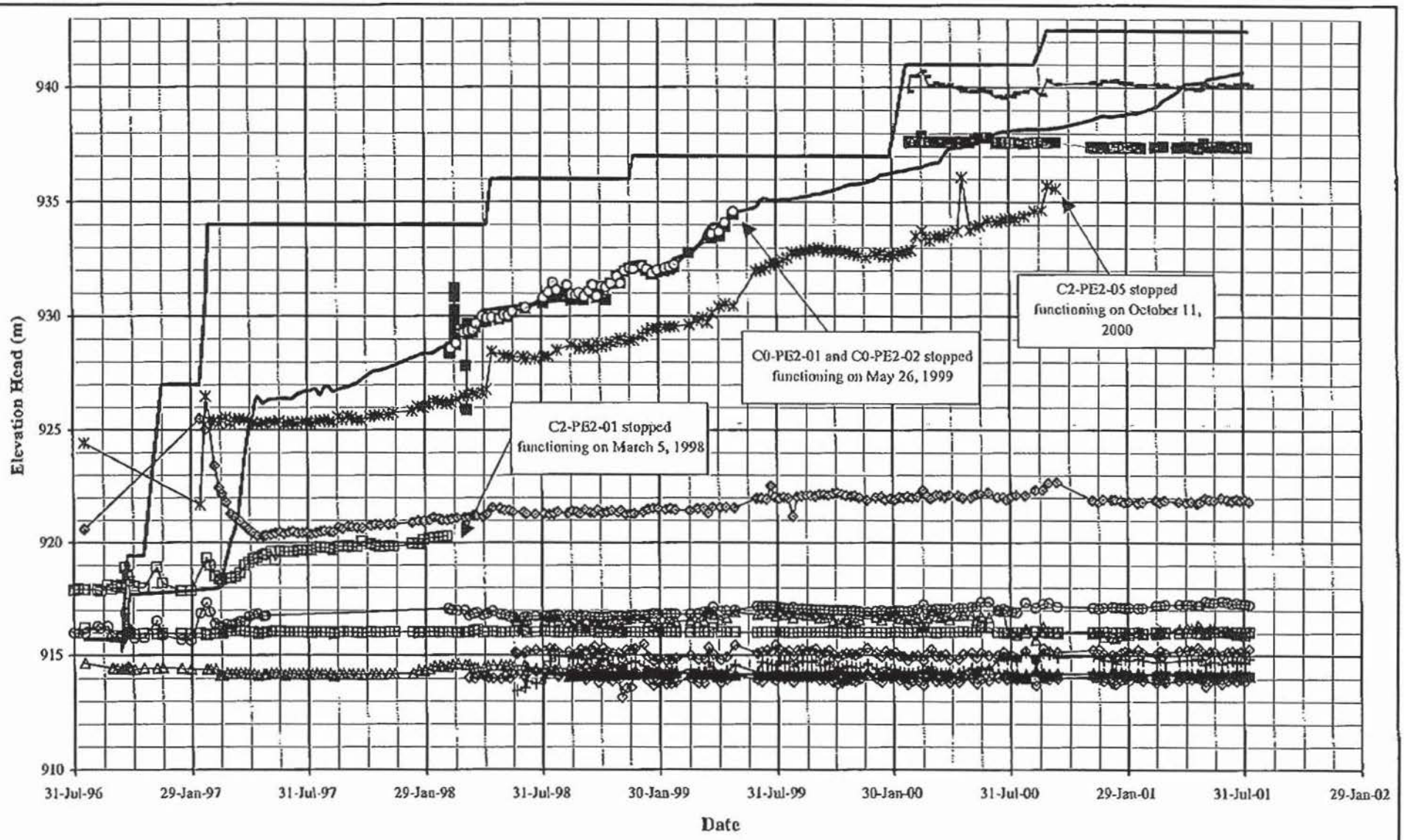
FIGURE 5.1

AUG.14'2001 02:49 PM MOUNT POLLEY MINING CORP. #3332 P.013
AUG 14 '01 16:44 250 790 2268 PAGE.013
INVESTIGATION KCB-2 Page 398 of 500



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE B PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.2		

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE C PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

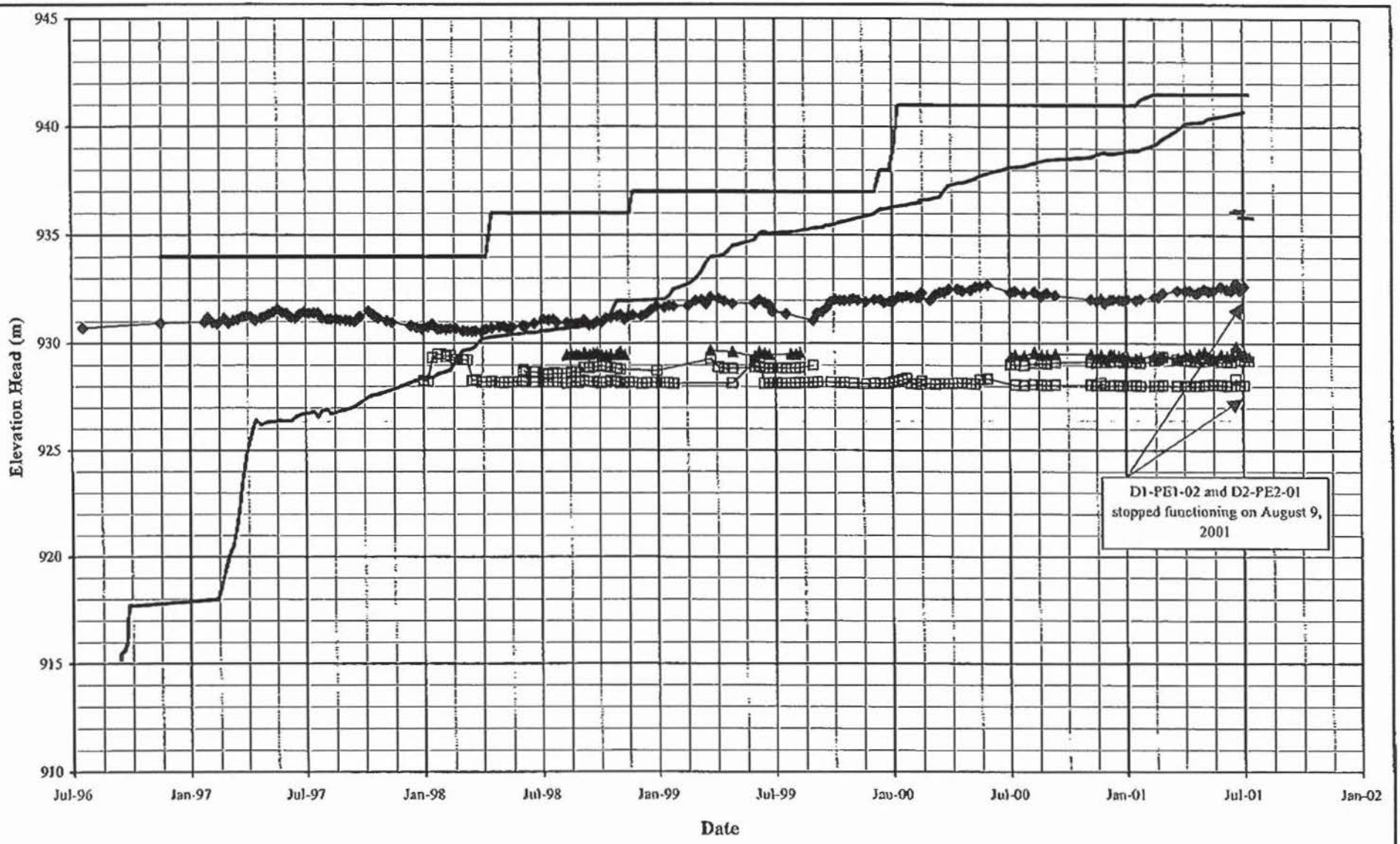
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.3

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE D PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

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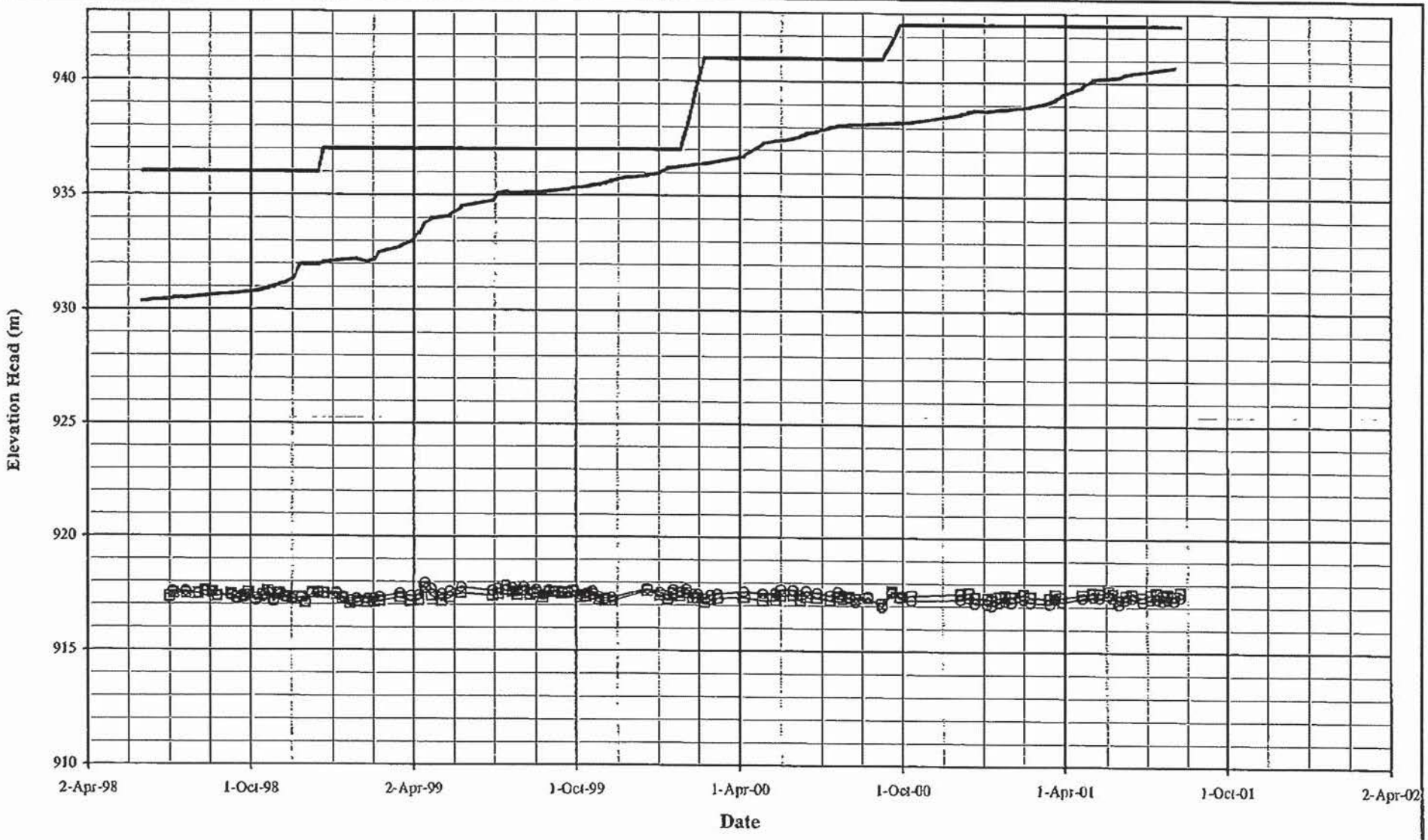
PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.4

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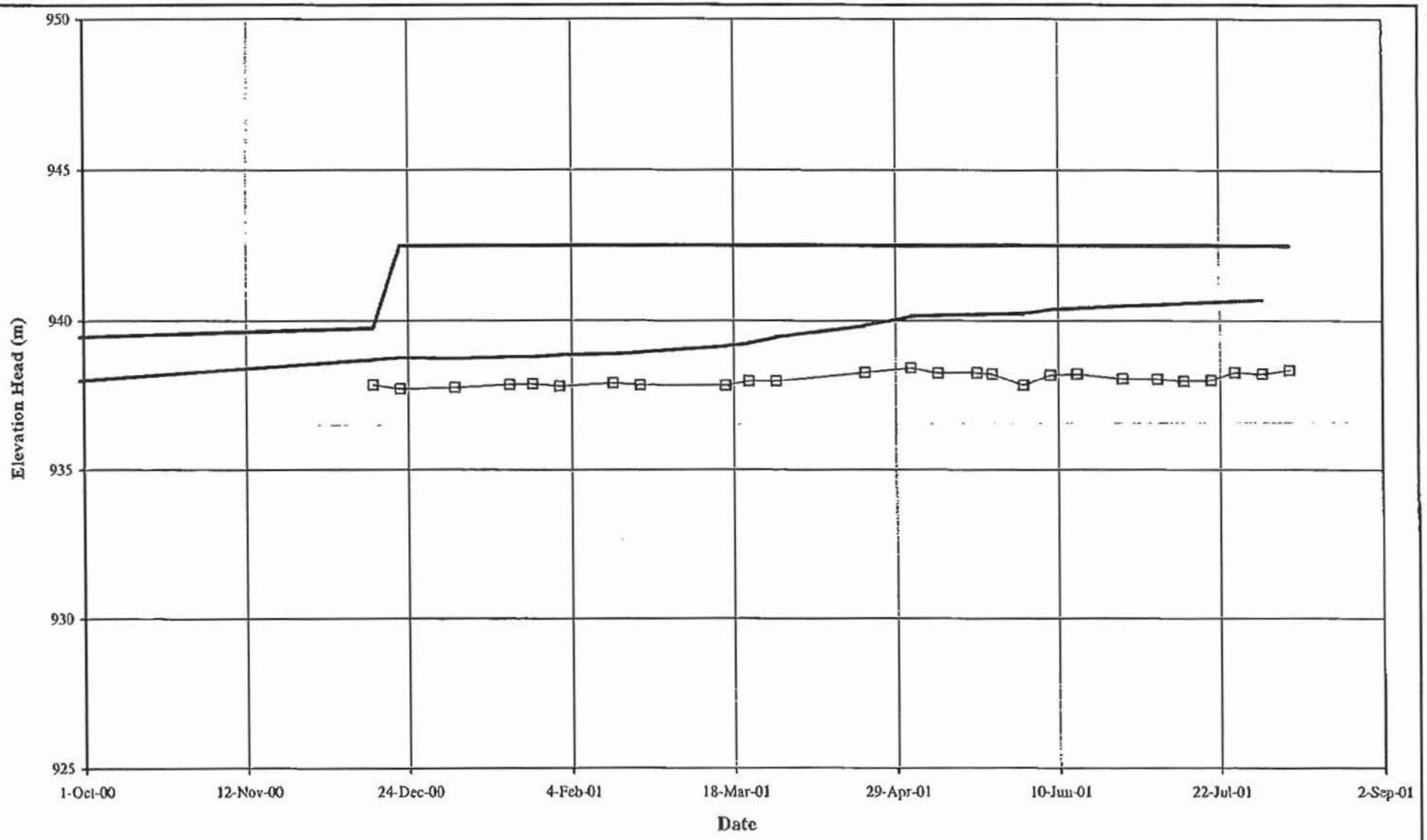
INVESTIGATION KCB-2 Page 401 of 500

Plane E.xls All Pieces
8/13/01



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE E PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.5		

250 790 2268 PAGE.017
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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE F PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

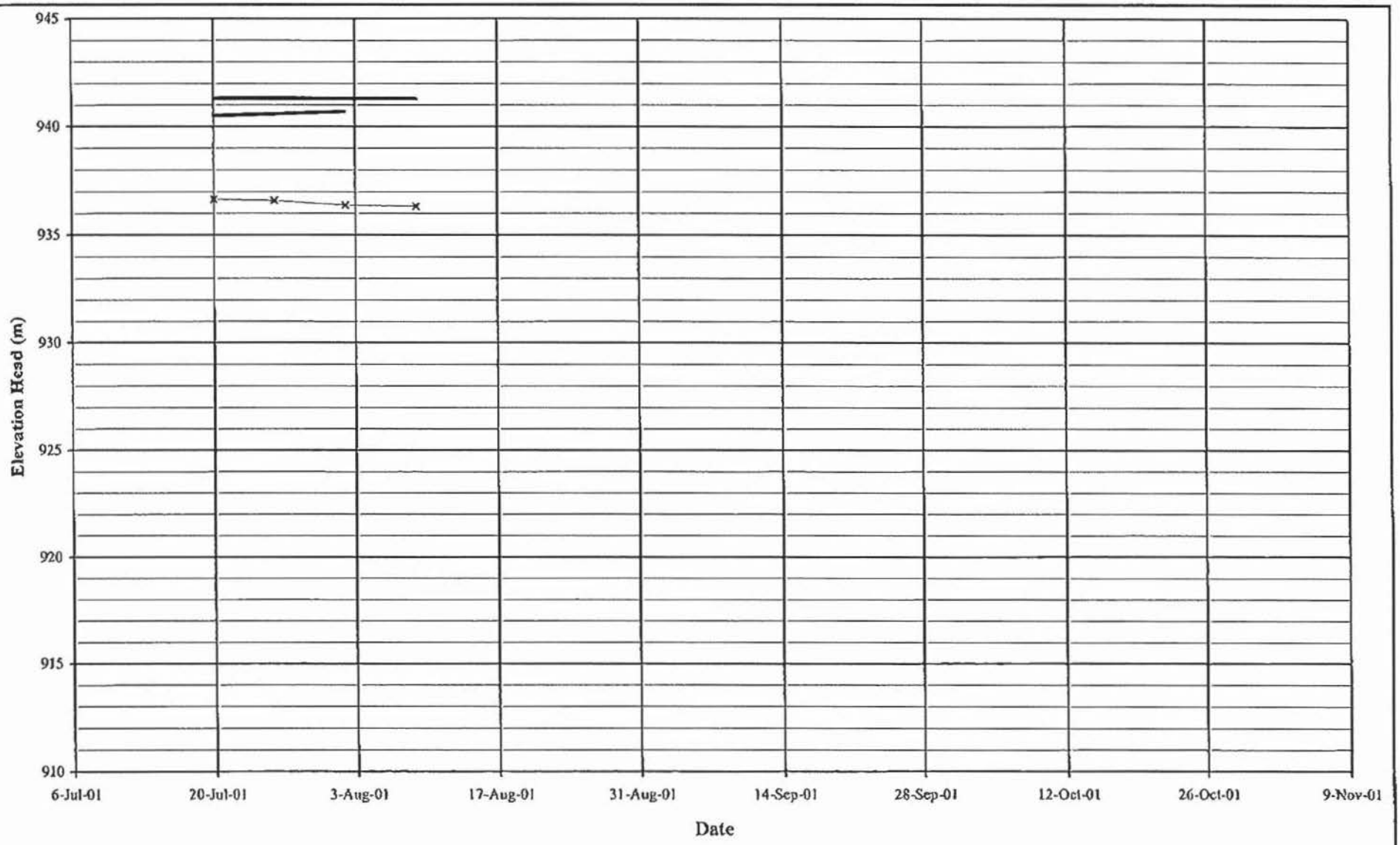
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PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.6

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE G PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

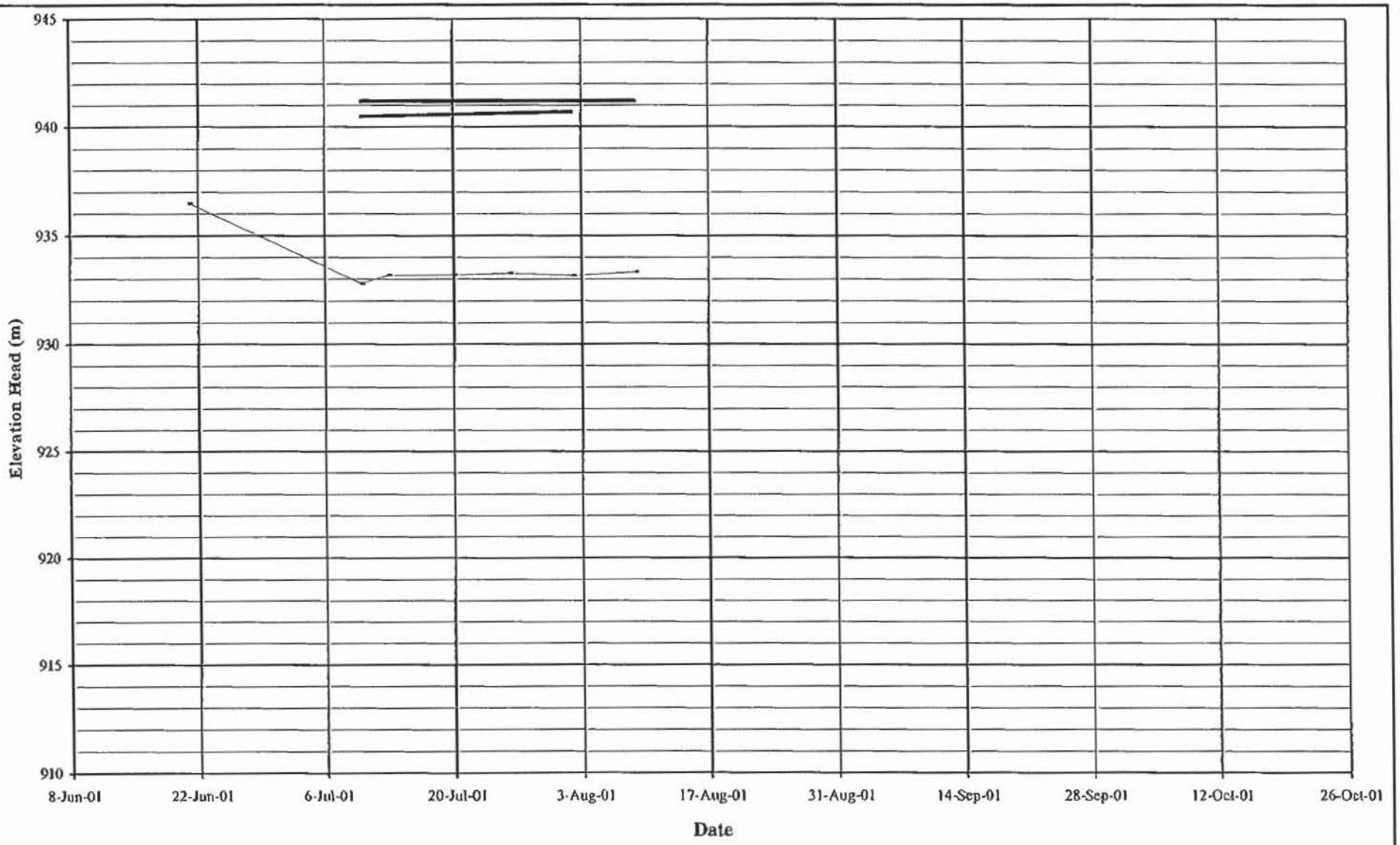
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.7

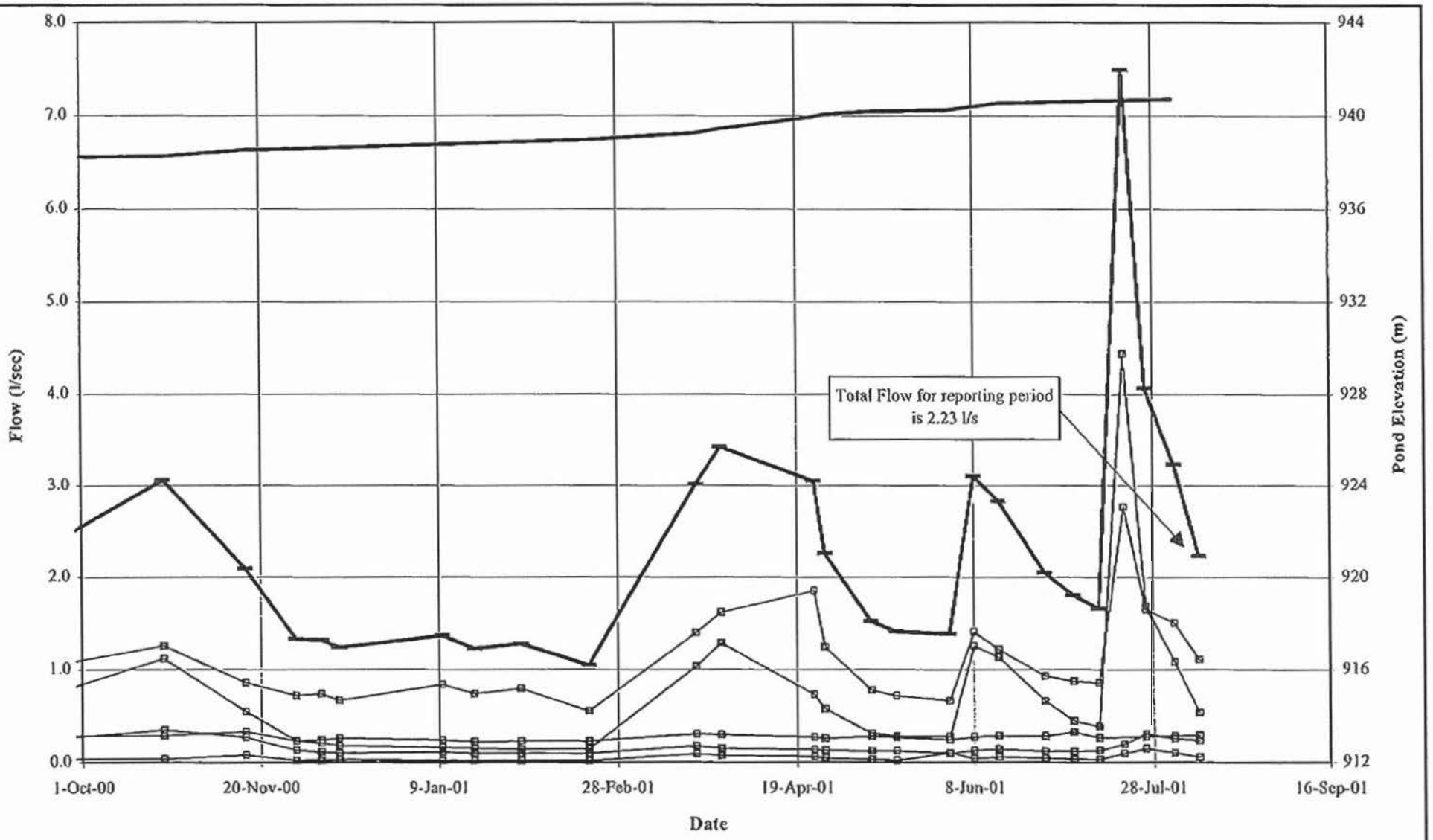
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INVESTIGATION KCB-2 Page 404 of 500



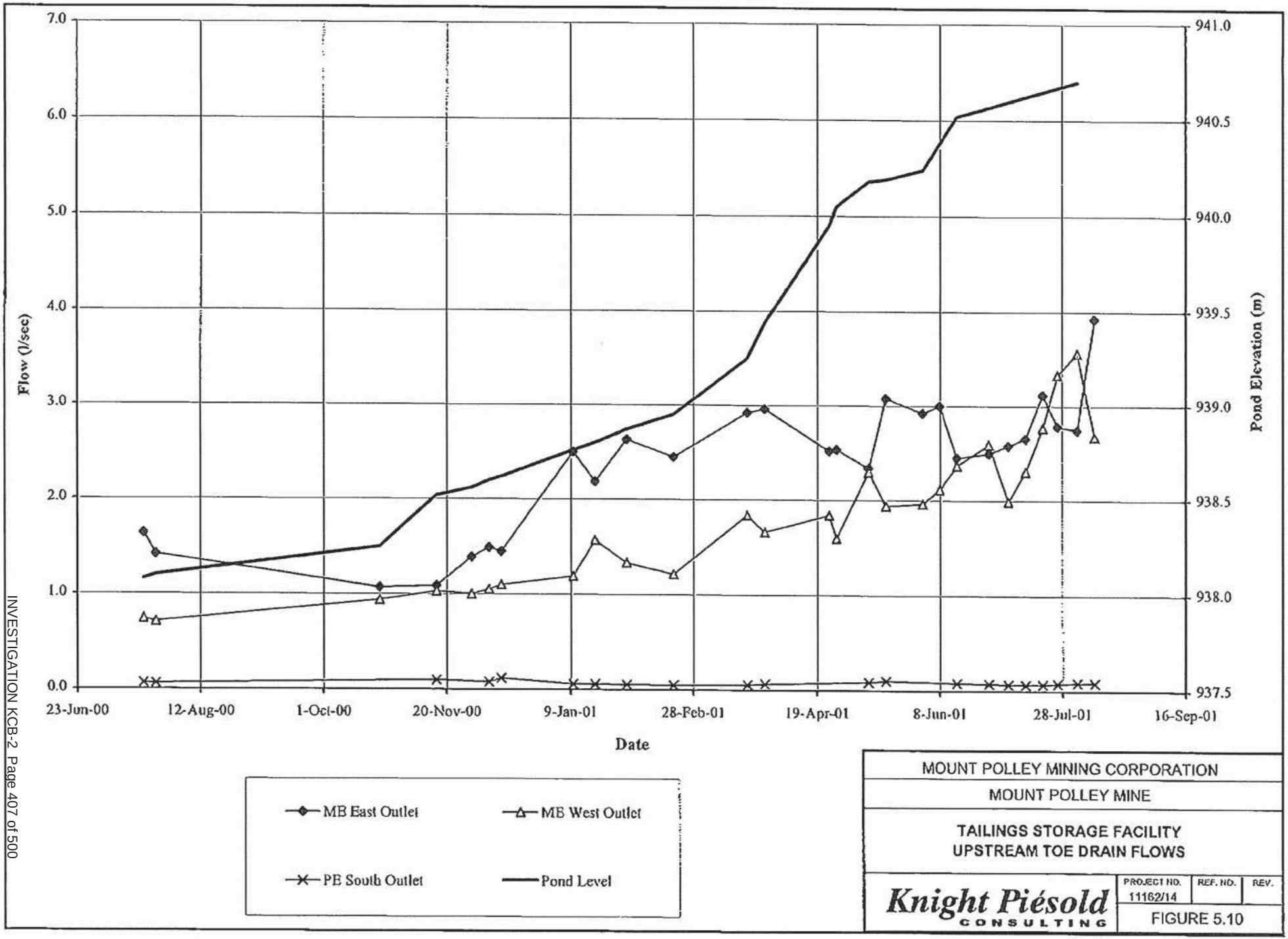
MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE H PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.8		

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INVESTIGATION KCB-2 Page 405 of 500



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY MAIN EMBANKMENT FOUNDATION DRAIN FLOWS			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.9		

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INVESTIGATION KCB-2 Page 406 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
UPSTREAM TOE DRAIN FLOWS

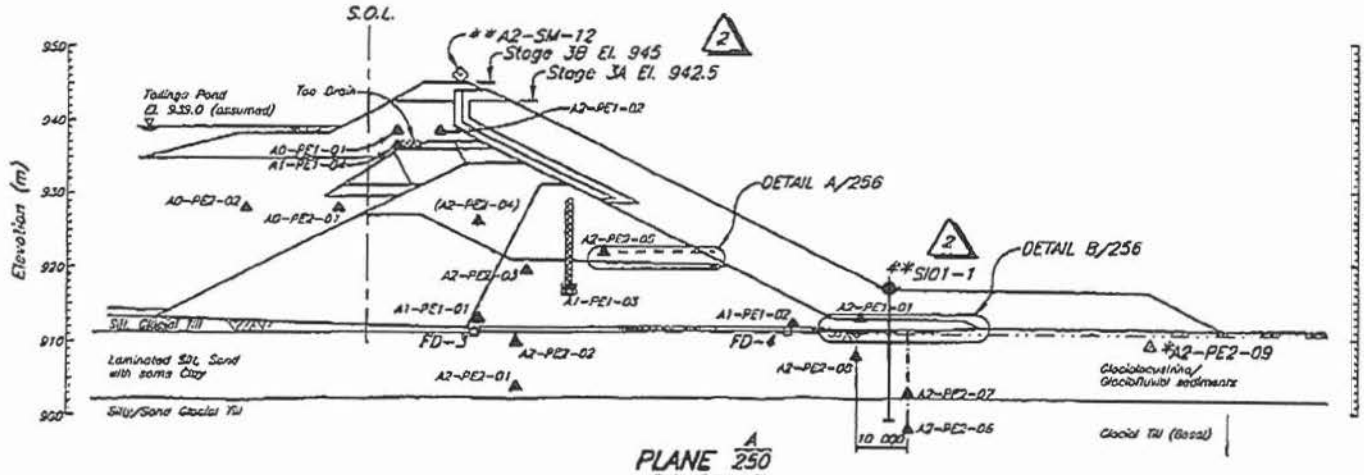
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PROJECT NO.	REF. NO.	REV.
11162/14		

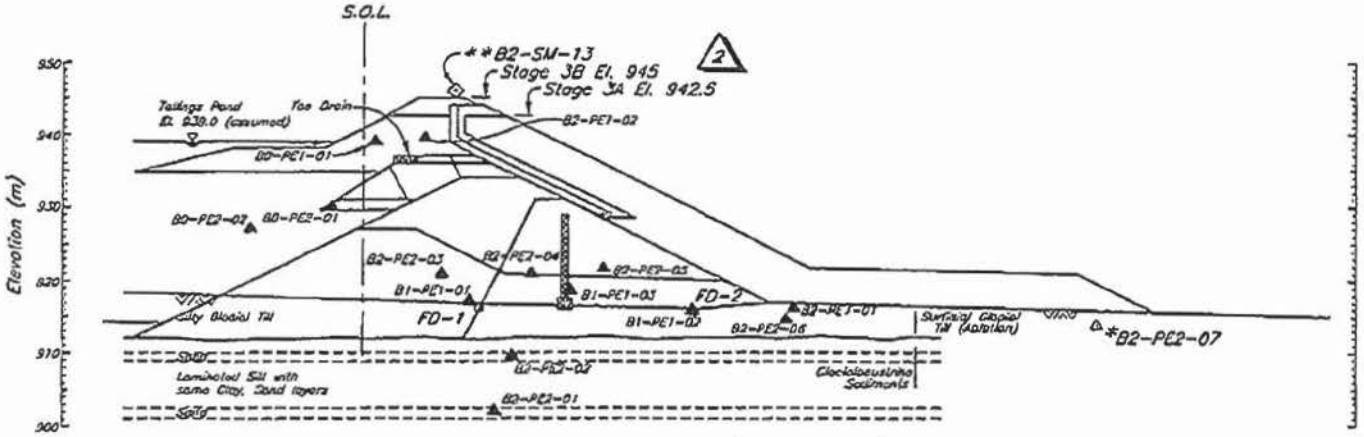
FIGURE 5.10

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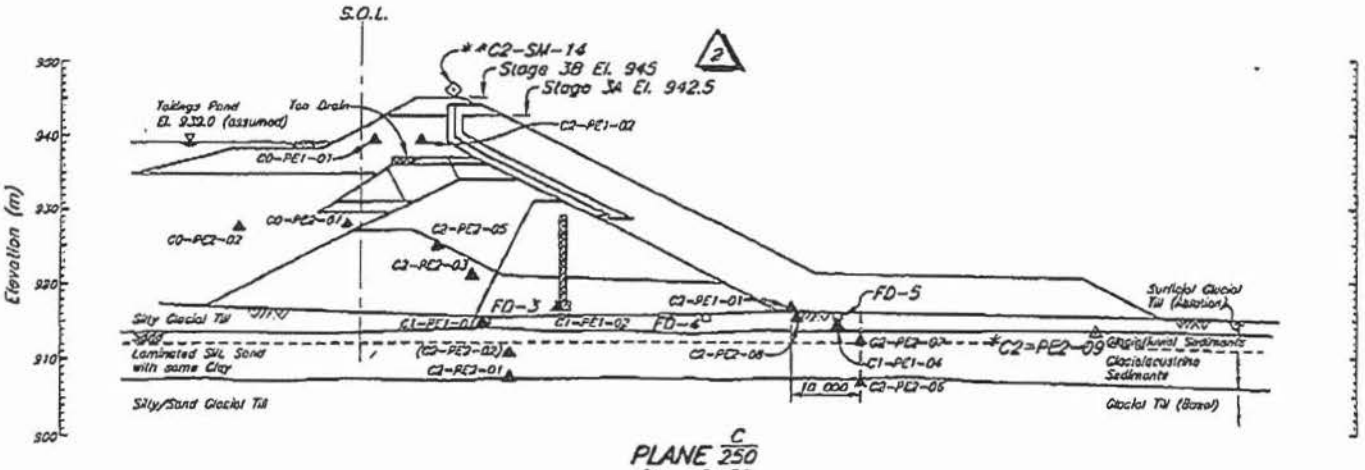
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PLANE A/250
CH. 20+00

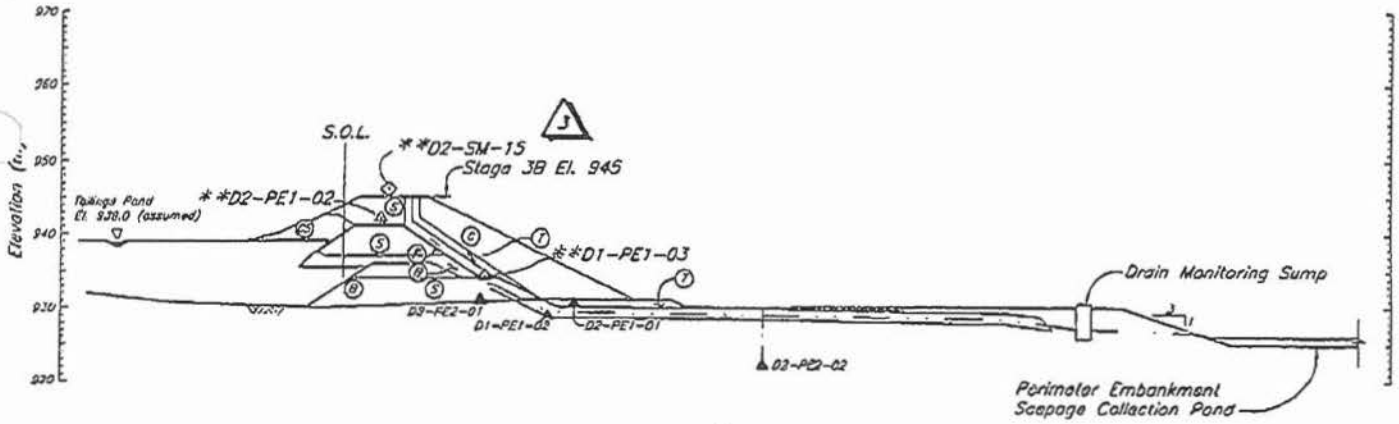


PLANE B/250
CH. 22+40

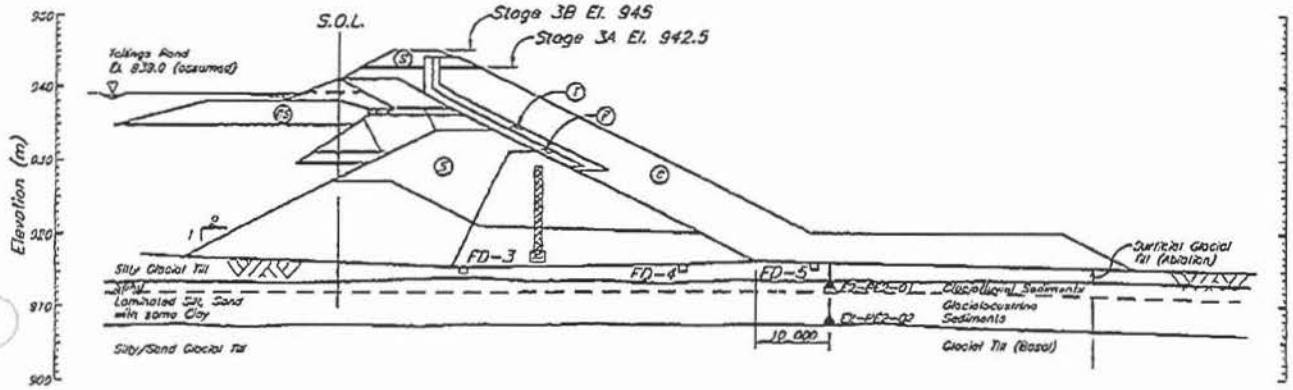


PLANE C/250
CH. 18+50

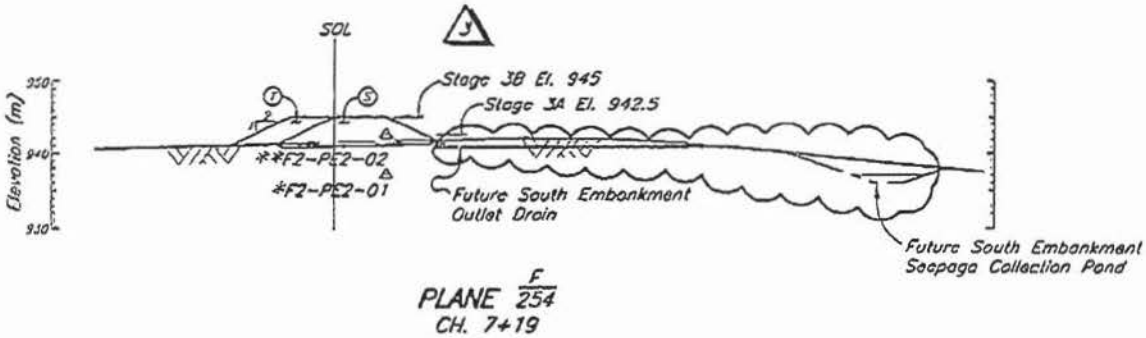
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STAGE 3 TAILINGS EMBANKMENT – INSTRUMENTATION – SUMMARY OF INSTALLATION & TYP. DETAILS								1	26JAN'01	STAGE 3
STAGE 3 MAIN EMBANKMENT – INSTRUMENTATION – PLAN								0	2JUN'00	ISSUED I
REFERENCE DRAWINGS			REVISIONS							



PLANE $\frac{D}{251}$
CH. 39+86



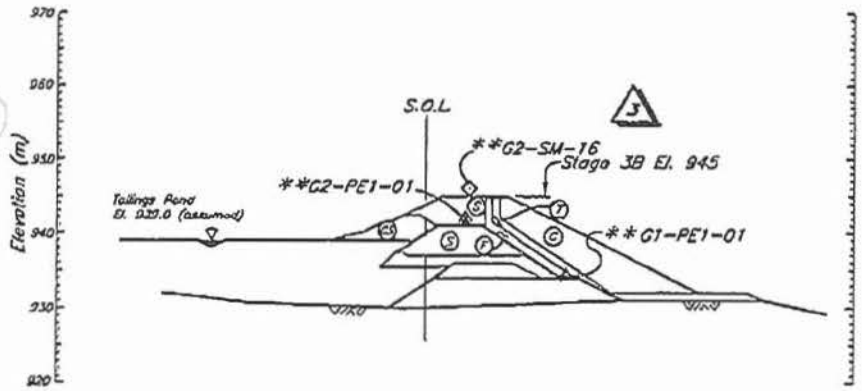
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CH. 17+60



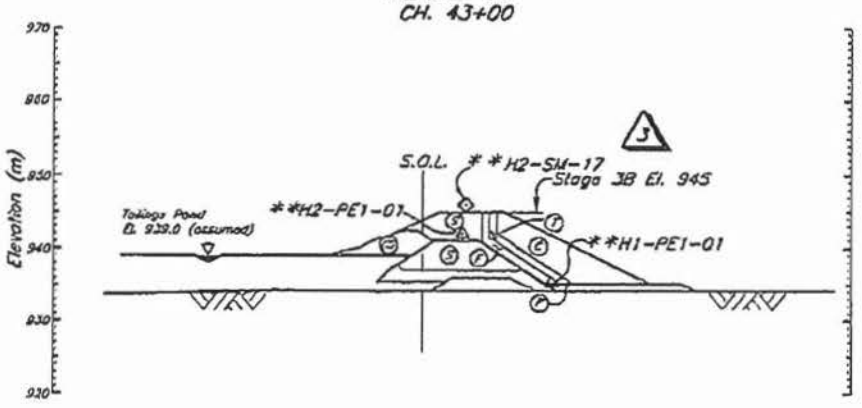
PLANE $\frac{F}{254}$
CH. 7+19

GE 3 TAILINGS EMBANKMENT – INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS									3	08MAY'01	ISSUED FO
STAGE 3 TAILINGS EMBANKMENT – SOUTH EMBANKMENT – INSTRUMENTATION PLAN									2	26JAN'01	STAGE 3B
STAGE 3 PERIMETER EMBANKMENT – INSTRUMENTATION PLAN									1	20OCT'00	PERIMETER
STAGE 3 TAILINGS EMBANKMENT – MAIN EMBANKMENT – INSTRUMENTATION PLAN									0	2JUN'00	ISSUED FO
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE		
REFERENCE DRAWINGS	REVISIONS										

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PLANE $\frac{G}{251}$
CH. 43+00



PLANE $\frac{H}{251}$
CH. 36+00

NOTE

1. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.

Scale 10 0 10 20 30 40 50 m

REVISIONS	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
	FOR CONSTRUCTION	JRK	TAM	ABW	KJB
	...TER EMBANKMENT SECTIONS ADDED	JRK	NSO	JMTW	KJB
	...8 - CREST ELEVATION 945	JRK	AW	JMTW	KJB
	...R STAGE 3B TENDER	CWM	OSR	JRK	KJB

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
C.W. MINTER
MCCULLOUGH

DESIGNED JRK | CHECKED ABW
DRAWN OSR | APPROVED KJB

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS – SHEET 2 OF 2

Knight Piésold CONSULTING

SCALE AS SHOWN | REVISION 3
DRAWING NO. 11162-13-259

VANCOUVER B.C. DWG FILE: 111\13\Acad\Dwg\01\13-259 1:500 PLOT: 1:1(1:1) May 8, 2001 ...

AUG 09 '01 08:19 250 790 2268 PAGE.001

14745 /MTPO/01

Knight Piésold CONSULTING *Mount Polley Site Office* *Fax: (250) 790-2268* www.knightpiésold.com	**DATE:** August 7, 2001 **TIME:** **OPERATOR:** **SENDER:** s.22	**FILE NO.:** 11162/14.F01/.F02/ .F04/.F05/.F08 **REF NO.:** 01-26 **PAGES:** 1 of 25

TO:	Ministry of Energy and Mines, Victoria B.C. **FAX :** 250-952-0481
ATTN:	Chris Carr
CC:	Ken Brouwer, KP Vancouver Don Parsons / Eric LeNeve, MPMC Site
SUBJECT:	Progress Report No. 17

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 17 from July 30 to August 5, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,

s.22

Knight Piésold Consulting

MINISTRY OF
ENERGY AND MINES
REC'D AUG - 9 2001

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
PROGRESS REPORT NO. 17 – JULY 30 TO AUGUST 5, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out the majority of this work. Hauling of Zone F from the millsite to the TSF and hauling of Zone S from the borrow area to the TSF is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons — Mine Superintendent
- Eric LeNeve — Tailings Coordinator
- Charlie O'Hara — General Foreman
- s.22 — Site Foreman
- s.22 — Site Foreman

1.2 CONTRACT DEVELOPMENTS

MPMC has decided to contract out the majority of the Zone S haul between the borrow area and the TSF using highway dump trucks. MPMC will still be responsible for loading, spreading, grading and compaction of the Zone S material.

1.3 DESIGN DEVELOPMENTS

No new design developments occurred during the reporting period.

1.3 WEATHER

#3390 P.002 MOUNT POLLEY MINING CORP. 250 790 2268 AUG.09.2001 08:04

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CONSULTING

Conditions were unsettled during the reporting period with periods of rainy, cloudy and sunny conditions. Maximum daytime highs reached about +20 °C and nightly lows sank to as low as +7 °C.

1.4 SAFETY

No new safety incidents occurred over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 23+00 to obtain a well developed, even beach at the Main Embankment. The tailings line will then be moved to the ridge between the Main and South Embankments. It is anticipated that tailings will form a substantial beach in this area by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Hitachi EX 400
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992B
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K, 1Caterpillar D7G
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks
- Lake Excavating: 3 dump trucks and 1 Caterpillar 966 loader

MPMC carried out the following activities during the reporting period:

- Placement of Zone F fill, Perimeter Embankment: Ch. 36+75 to 37+00 and 40+00 to 40+50, El. 933.0 to 941.0 m.
- Placement of Zone S fill, Perimeter Embankment: Ch. 44+50 to 44+75, El. 941.0 to 942.0 m
- Placement of Zone T rip rap, Perimeter Embankment, upstream of the Zone CS: Ch. 43+50 to 44+50
- Placement of Zone T fill, Perimeter Embankment: Ch. 40+00 to 42+50, El. 934 to 941.0 m.
- Development of the Rock Borrow for Zone T material.

Zone T was supplied from the Rock Borrow, Zone F was delivered from the stockpile at the millsite and Zone S originated from Borrow Area 2. Zone F was placed in a 1 m thick lift on the downstream embankment slope over stiff Zone S, while Zone T was placed upon Zone F in a 1 metre thick lift. Zone S was placed in 300 mm horizontal lifts.

The Zone S placement was a remedial measure taken to stop water from seeping through the upstream Zone T fill, over the Zone S and into the filter zones on the downstream sides of the embankment. The source of this seepage was tailings water from the impoundment. The tailings beach in this area is elevated due to continued tailings discharge from dump valve M1A. As a result, tailings flow came very close to the upstream fill zones, water became trapped against the upstream face of the embankment and began to seep through the permeable Zone T. In areas where Zone CS was placed as the upstream fill zone, there was a concern of the tailings flow eroding the Zone CS. The Zone T rip rap was placed to minimize the concern of erosion.

The seepage exited the downstream toe of the tailings embankment at Ch. 43+00, entered the ditch at the toe of the embankment and reported to the Perimeter Embankment seepage collection pond. All tailings water was collected and returned to the tailings impoundment.

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F, T and S.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.
- Preparation of the Annual Report and the Stage 3 Construction Report

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- R-ZF-41
- R-ZT-17

Both record tests completed during the reporting period proved suitable for their respective zones. All tests carried out during the reporting period are presented in the attached tables and figures.

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SECTION 5.0 - MONITORING

5.1 GENERAL

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed during the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.8. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the remaining foundation piezometers with the exception of B2-PE2-02, which increased slightly.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. Generally, these piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

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Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Readings at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on August 2, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.9 and 5.10, respectively.

5.4 SLOPE INCLINOMETERS

The equipment to monitor, record and evaluate the data from the slope inclinometers is expected to be on site during the first week of August. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

SECTION 6.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 942.5 m.
- The slope inclinometers will be measured and calibrated.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,

s.22

Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

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TABLE 4.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F RECORD TEST SUMMARY SHEET

Knight Piésold CONSULTING

SHEET: 1 of 1
PERIOD: July 30 to August 5, 2001
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
PROJECT NO.: 1181D/14
MATERIAL: Zone F - Filter Sand
AREA: TSF

Sample No	Date Sampled	Location	El. (m)	C1 Atterberg Limits LL %	PL %	PI %	C2 Fines %	Gs	C3 (Particle Size Distribution) 101.6 mm	76.2 mm	38.1 mm	25.0 mm	19.05 mm	12.5 mm	9.525 mm	4.75 mm	2.36 mm	1.18 mm	0.6 mm	0.3 mm	0.15 mm	0.075 mm	0.05 mm	0.02 mm	C4 Standard Proctor Max Dry Density kg/m³	C4 Optimum w/c %	C5 Specific Gravity
									4	3	1.5	1	0.75	0.5	0.375	0.187	0.093	0.046	0.023	0.012	0.006	0.003	0.0012	0.0003			
									4	3	1 1/2	1	3/4	1/2	3/8	#4	#8	#16	#30	#50	#100	#200					
R-ZF-3-1	19-Aug-01	26+10	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	88.6		51.1	34.5	23.7	15.5	10.4	6.1	3.3	-	-	-	-	-
R-ZF-3-2	20-Aug-01	27+05	932.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	86.8		50	35	24.5	16.7	11.9	7.6	4.2	-	-	-	-	-
R-ZF-3-3	21-Aug-01	28+05	933.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	90.1		56.6	39.8	27.7	14.9	10.1	6.4	3	-	-	-	-	-
R-ZF-3-4	22-Aug-01	29+05	933.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	88.5		55.1	34.8	15	14.1	10.6	6.8	3.3	-	-	-	-	-
R-ZF-3-5	24-Aug-01	25+50	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0	100.0	81.6		42.1	27.3	17.1	14.6	9.2	5.2	3.1	-	-	-	-	-
R-ZF-3-6	25-Aug-01	19+05	933.0	-	-	-	-	-	100.0	100.0	100.0	99.1		82.6		47.8	31.2	21.3	11.3	10.1	6.8	3.7	-	-	-	-	-
R-ZF-3-7R	6-Sep-01	19+00	935.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.0		47.1	29.8	15.9	8.5	5.6	3.8	2.6	-	-	-	-	-
R-ZF-3-8	6-Sep-01	19+00	933.0	-	-	-	-	-	100.0	100.0	100.0	100.0											-	-	-	-	-
R-ZF-3-9	25-Aug-00	21+50	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		78.9		45.5	30.4	21.1	11.7	10.0	6.8	3.8	-	-	-	-	-
R-ZF-3-10	29-Aug-00	23+40	936.0	-	-	-	-	-	100.0	100.0	100.0	100.0		74.8		38.3	24.4	15.2	9.6	6.3	4.5	2.7	-	-	-	-	-
R-ZF-3-11	30-Aug-00	21+20	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		81.2		43.7	30.6	19.6	12.4	8.8	5.6	3.6	-	-	-	-	-
R-ZF-3-12	6-Sep-00	16+20	940.0	-	-	-	-	-	100.0	100.0	100.0	100.0		77.7		39.0	25.9	15.5	10.4	7.3	4.6	2.3	-	-	-	-	-
R-ZF-3-13	7-Sep-00	21+30	943.0	-	-	-	-	-	100.0	100.0	100.0	96.7		73.6		37.9	25.6	16.6	10.2	5.5	3.9	2.3	-	-	-	-	-
R-ZF-3-14	8-Sep-00	16+40	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		83.0		43.2	24.5	12.6	7.0	6.6	3.2	2.8	-	-	-	-	-
R-ZF-3-15	8-Sep-00	17+50	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		73.9		39.7	23.8	12.2	7.6	5.0	3.6	2.3	-	-	-	-	-
R-ZF-3-16	8-Sep-00	19+50	943.0	-	-	-	-	-	100.0	100.0	100.0	100.0		75.8		39.6	27.4	9.9	6.5	03.8	3.6	2.4	-	-	-	-	-
R-ZF-3-17	10-Sep-00	21+40	943.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.3		46.6	30.4	20.3	13.9	9.0	6.0	3.4	-	-	-	-	-
R-ZF-3-18	10-Sep-00	22+20	943.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.3		43.3	27.3	19.8	13.8	9.3	5.8	2.8	-	-	-	-	-
R-ZF-3-19	31-Sep-00	25+50	936.0	-	-	-	-	-	100.0	100.0	100.0	100.0		76.4		44.6	32.4	23.0	15.2	9.3	6.4	3.1	-	-	-	-	-
R-ZF-3-20	31-Sep-00	23+80	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.3		43.8	27.8	19.3	13.2	8.6	5.2	2.3	-	-	-	-	-
R-ZF-3-21	12-Sep-00	22+60	939.0	-	-	-	-	-	100.0	100.0	100.0	100.0		87.5		51.3	34.2	23.4	14.1	8.3	4.5	2.4	-	-	-	-	-
R-ZF-3-22	15-Sep-00	19+00	950.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.3		53.7	37.0	25.5	17.8	11.5	7.1	3.5	-	-	-	-	-
R-ZF-3-23	16-Sep-00	17+60	950.0	-	-	-	-	-	100.0	100.0	100.0	100.0		85.6		60.3	38.9	25.4	13.6	9.8	5.4	2.7	-	-	-	-	-
R-ZF-3-24	19-Sep-00	26+20	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		88.3		68.3	38.9	21.5	14.8	9.2	5.1	2.1	-	-	-	-	-
R-ZF-3-25	20-Sep-00	20+60	943.0	-	-	-	-	-	100.0	100.0	100.0	100.0		85.1		52.5	36.4	26.3	15.2	9.4	4.7	1.7	-	-	-	-	-
R-ZF-3-26	21-Sep-00	21+20	941.0	-	-	-	-	-	100.0	100.0	100.0	100.0		84.6		62.1	33.3	23.3	20.1	14.5	9.7	4.8	-	-	-	-	-
R-ZF-3-33	11-Sep-00	21+80	937.0	-	-	-	-	-	100.0	100.0	100.0	100.0		80.5		43.5	29.0	19.4	13.0	8.9	5.0	2.3	-	-	-	-	-
R-ZF-31	28-Mar-01	29+00, 0.1 m DS of Zone S	941.8	-	-	-	4.0	-	100.0	100.0	100.0	100.0	97.5			71.5	49.1	33.9	23.8	19.7	13.0	11.6	9.1	-	-	-	-
R-ZF-32	28-May-01	31+00, 0.5 m DS of Zone S	936.0	-	-	-	4.1	-	100.0	100.0	100.0	100.0	98.7			68.4	49.0	31.9	22.5	16.9	12.8	9.9	7.7	-	-	-	-
R-ZF-33	12-Jun-01	42+00, 0.1 m DS of Zone S	936.0	-	-	-	3.0	-	100.0	100.0	100.0	100.0	97.9			68.8	49.2	28.8	17.6	11.7	8.6	6.9	-	-	-	-	-
R-ZF-34	20-Jun-01	55+00, 0.1 m DS of Zone S	933.0	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.2			68.5	37.8	27.0	18.3	14.0	11.0	8.6	6.6	-	-	-	-
R-ZF-35	20-Jun-01	63+50, 0.1 m DS of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.4			70.8	45.6	32.6	23.0	17.7	13.7	10.6	8.5	-	-	-	-
R-ZF-36	19-Jun-01	33+30, 0.5 m DS of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	97.5			72.6	50.6	36.5	24.8	17.6	12.4	9.3	7.0	-	-	-	-
R-ZF-37	19-Jun-01	43+40, 0.8 m DS of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.6			65.6	41.7	24.8	21.4	16.9	13.5	9.4	6.4	-	-	-	-
R-ZF-38	19-Jun-01	53+40, 1.0 m DS of Zone S	938.0	-	-	-	8.4	-	100.0	100.0	100.0	100.0	99.6			53.9	40.6	34.5	26.1	19.3	15.3	12.0	9.6	-	-	-	-
R-ZF-39	12-Jun-01	63+40, 1.0 m DS of Zone S	941.0	-	-	-	2.1	-	100.0	100.0	100.0	100.0	94.9			51.6	36.2	25.0	18.7	12.6	10.4	9.3	5.3	-	-	-	-
R-ZF-40	12-Jun-01	73+40, 1.0 m DS of Zone S	943.0	-	-	-	6.3	-	100.0	100.0	100.0	100.0	100.0			73.7	61.5	31.7	22.0	15.1	10.4	7.5	2.7	-	-	-	-
R-ZF-41	3-Aug-01	37+35, 1.0 m DS of Zone S	943.0	-	-	-	6.2	-	100.0	100.0	100.0	100.0	99.7			69.8	48.4	31.9	30.6	24.6	19.5	15.6	12.6	-	-	-	-

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TABLE 4.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE F RECORD TEST SUMMARY SHEET

Knight Piésold CONSULTING

SHEET: 1 of 1
PERIOD: July 30 to August 5, 2001
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
PROJECT NO.: 11162/14
MATERIAL: Zone F - Fine Sand
AREA: TSF

Sample No.	Date Sampled	Location	El. (m)	C1 Atterberg Limits LL %	PL %	PI %	C2 Field roC %	LI %	C3 (Particle Size Distribution) 101.6 mm	76.2 mm	38.1 mm	25.4 mm	19.05 mm	12.7 mm	9.525 mm	4.75 mm	2.36 mm	1.18 mm	0.6 mm	0.3 mm	0.15 mm	0.075 mm	0.02 mm	C4 Standard Proctor Max Dry Density kg/m³	C4 Standard Proctor Optimum roC %	C6 Specific Gravity
									4	3	1.5	1	0.75	0.5	0.375	0.187	0.0937	0.0469	0.0234	0.0117	0.0059	0.0029	mm			
									4	3	1 1/2	1	3/4	1/2	3/8	#4	#8	#16	#30	#50	#100	#200	Obs			
MEAN:				#DIV/0!	#DIV/0!	#DIV/0!	4.9	#DIV/0!	100.0	100.0	100.0	100.0	98.5	#DIV/0!	66.5	42.9	32.2	22.8	17.0	13.2	10.2	7.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
MEDIAN:				#N/A	#N/A	#N/A	4.5	#N/A	100.0	100.0	100.0	100.0	99.2	#N/A	67.8	44.3	33.9	22.3	16.9	12.8	9.4	7.0	#N/A	#N/A	#N/A	#N/A
MAXIMUM (*):				0.0	0.0	0.0	1.4	0.0	100.0	100.0	100.0	100.0	100.0	0.0	73.8	50.6	38.9	30.6	24.4	19.5	13.6	12.6	0.0	0.0	0.0	0.0
MINIMUM (*):				0.0	0.0	0.0	2.3	0.0	100.0	100.0	100.0	100.0	97.9	0.0	57.6	39.2	26.0	17.3	12.6	10.4	7.5	2.7	0.0	0.0	0.0	0.0

Note: These are 100% limits.
Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.
IP - In progress
Collection of Stage 3A data in progress, samples R-ZF-8, 28, 29 and 30 are outstanding.

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Specific Gravity (ASTM D854)

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TABLE 4.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE T RECORD TEST SUMMARY SHEET

H:\ENG\DATA\Engdocs\Geotechnical\Upsite\Stage 3B Construction\Lab\record\[R-ZT-summ.xls]Data Sheet

Knight Piésold CONSULTING

SHEET : 1 of 1
PERIOD : July 30 to August 5, 2001
PROJECT NO. : 11162/14
AREA : TSF

PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
MATERIAL: Zone T - Transition Zone

Sample No.	Date Sampled	Location	El (m)	R1 Atterberg Limits PL %	LL %	PI %	R2 Field w/c %	LI %	R3 (Particle Size Distribution) 152.4 6	76.2 3	38.1 1.5	19.05 0.75	9.525 3/8	4.75 #4	2.36 #8	1.18 #16	0.6 #30	0.3 #50	0.14936 #100	0.07366 #200	0.002 <micron Clay	R4 Standard Proctor Max Dry Density kg/m³	Optimum w/c %	R6 Specific Gravity
R-ZT-1	3-Jun-00	-	-	-	-	-	-	-	90.0	80.0	59.9	40.2	26.7	18.5	13.2	9.9	7.7	5.7	3.9	2.8	-	-	-	-
R-ZT-2	16-Jul-00	-	-	-	-	-	-	-	100.0	89.0	62.0	42.8	29.0	21.3	15.9	11.8	9.1	7.3	6.1	5.1	-	-	-	-
R-ZT-3	23-Jul-00	-	-	-	-	-	-	-	100.0	86.1	57.7	44.2	30.0	20.0	14.1	10.0	7.2	4.6	2.7	1.6	-	-	-	-
R-ZT-4	27-Jul-00	-	-	-	-	-	-	-	100.0	78.0	45.7	33.9	21.5	13.0	-	5.5	3.7	2.5	1.0	0.5	-	-	-	-
R-ZT-5	22-Aug-00	19+50	939.0	-	-	-	-	-	100.0	62.8	51.4	35.6	26.7	20.9	16.1	12.0	7.8	-	4.6	1.8	-	-	-	-
R-ZT-6	22-Aug-00	23+00	-	-	-	-	-	-	100.0	65.5	56.3	-	-	25.5	19.4	13.5	9.7	6.0	3.9	1.5	-	-	-	-
R-ZT-7	29-Aug-00	20+00	932.0	-	-	-	-	-	100.0	93.0	91.1	-	-	32.8	25.1	16.0	9.6	5.7	3.3	1.8	-	-	-	-
R-ZT-8	9-Sep-00	18+80	936.0	-	-	-	-	-	100.0	80.0	70.1	44.2	20.3	12.5	8.2	6.3	4.5	-	3.2	2.0	-	-	-	-
R-ZT-9	9-Sep-00	26+00	940.0	-	-	-	-	-	100.0	90.0	70.8	46.9	27.3	17.2	10.3	7.0	4.6	-	3.3	1.8	-	-	-	-
R-ZT-10	21-Sep-01	20+60	941.0	-	-	-	-	-	100.0	80.0	67.5	-	-	27.4	20.8	16.2	12.3	5.5	1.6	0.8	-	-	-	-
R-ZT-12	3-Jun-01	42+50, 1.8 m D/S of Zone S	933.5	-	-	-	4.0	-	100.0	80.0	46.4	32.3	22.0	14.9	10.8	7.6	5.6	4.2	3.2	2.5	-	-	-	-
R-ZT-13	23-Jun-01	32+50, 1.8 m D/S of Zone S	937.0	-	-	-	3.0	-	100.0	76.2	49.7	31.5	22.9	14.6	9.7	6.4	4.1	2.4	-	-	-	-	-	-
R-ZT-14	9-Jul-01	35+00, 3 m D/S of Zone S	938.0	-	-	-	3.4	-	100.0	76.9	57.9	38.2	22.6	12.2	7.2	4.5	3.1	2.2	1.6	1.2	-	-	-	-
R-ZT-15	23-Jul-01	40+25, 3 m D/S of Zone S	938.0	-	-	-	3.6	-	100.0	68.3	43.5	29.5	18.8	11.4	7.2	5.1	3.9	2.8	-	-	-	-	-	-
R-ZT-16	29-Jul-01	43+00, 3 m D/S of Zone S	940.5	-	-	-	4.0	-	100.0	77.3	45.8	26.2	15.8	9.9	6.9	4.5	3.4	-	-	-	-	-	-	-
R-ZT-17	5-Aug-01	40+00, 3 m D/S of Zone S	940.0	-	-	-	3.2	-	100.0	82.3	47.4	33.2	23.4	16.6		7.8	5.0	3.3		1.4	-	-	-	-
		MEAN	#DIV/0!	#DIV/0!	#DIV/0!	3.3	#DIV/0!	99.4	78.7	57.9	37.1	23.6	18.4	13.3	9.0	6.3	4.3	3.2	3.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		MEDIAN	#NUM!	#NUM!	#NUM!	3.4	#NUM!	100.0	80.0	53.0	35.6	22.9	17.1	12.0	7.7	5.3	4.4	3.2	1.8	#NUM!	#NUM!	#NUM!	#NUM!
		MAXIMUM (*)	0.0	0.0	0.0	4.4	0.0	100.0	93.0	91.1	45.9	30.0	37.8	25.1	16.2	12.3	7.3	6.1	5.1	0.0	0.0	0.0	0.0	0.0
		MINIMUM (*)	0.0	0.0	0.0	1.4	0.0	90.0	62.8	43.5	26.2	15.8	9.9	6.9	4.5	3.1	2.2	1.0	0.5	0.0	0.0	0.0	0.0	0.0

Note : These are 100% limits.
Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.
IP - In progress

11162/14-0600-17
Revision 0
8/9/01

AUG.09.2001 08:20 NO.022 P.009 #3590
MOUNT POLLEY MINING CORP.
INVESTIGATION KCB-2 Page 419 of 500

AUG 09 '01 08:22 250 790 2268 PAGE.010

TABLE 4.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
ZONE T RECORD TEST SUMMARY SHEET

H:\ENG\DATA\Engdocs\Geotechnical\Update\Stage 3B Construction\lab\record\[R-ZT-summ.xls]Data Sheet

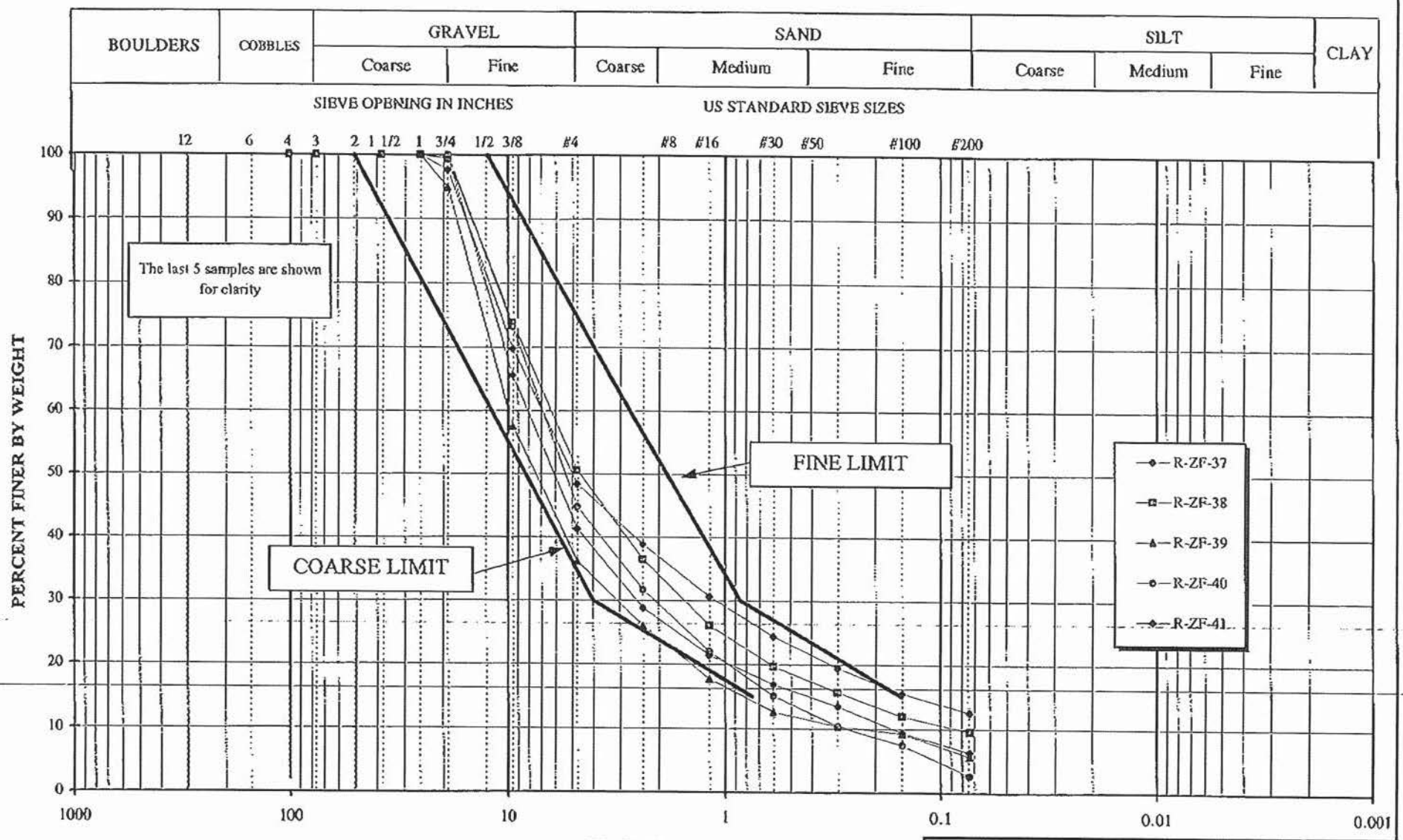
Knight Piésold CONSULTING		SHEET :	1 of 1
		PERIOD :	July 30 to August 5, 2001
PROJECT	MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION	PROJECT NO. :	11162/14
MATERIAL	Zone T - Transition Zone	AREA :	TSF

Sample No.	Date Sampled	Location	El. (m)	R1 Atterberg Limits PL %	LL %	PI %	R2 Field w/c %	LI %	R3 (Particle Size Distribution) 152.4 mm 6	76.2 mm 3	38.1 mm 1.5	19.05 mm 0.75	9.525 mm 0.375	4.75 mm 0.187	2.36 mm 0.0937	1.18 mm 0.0469	0.6 mm 0.0234	0.3 mm 0.0165	0.14986 mm 0.0059	0.07356 mm 0.0029	0.002 mm Clay	R4 Standard Proctor Max Dry Density kg/m³	Optimum w/c %	R6 Specific Gravity
									6	3	1 1/2	3/4	3/8	#4	#8	#16	#30	#50	#100	#200	Clay			

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Specific Gravity (ASTM D854)

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#3390 P.011 MOUNT POLLEY MINING CORP. 2250 790 2268 PAGE.011 AUG 09 '01 08:22



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F RECORD SAMPLES
GRADATION CURVES

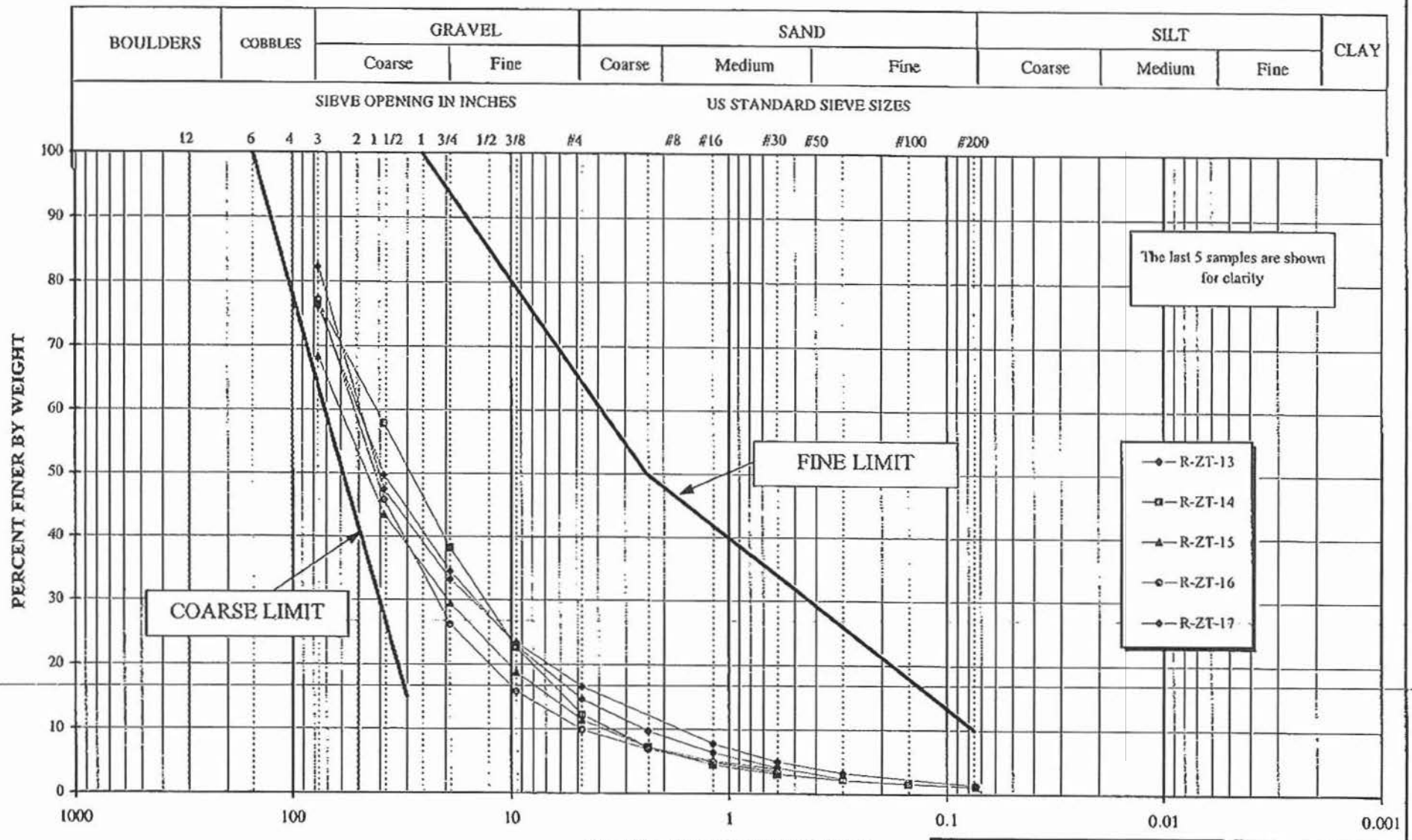
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 4.2

AUG 09 '01 08:22 Page 421 of 500 INVESTIGATION KCB-2

m:\11832\12\report\12\R-ZT-turgen.xls\Fig 4.3.2 8/9/01 7:48 AM



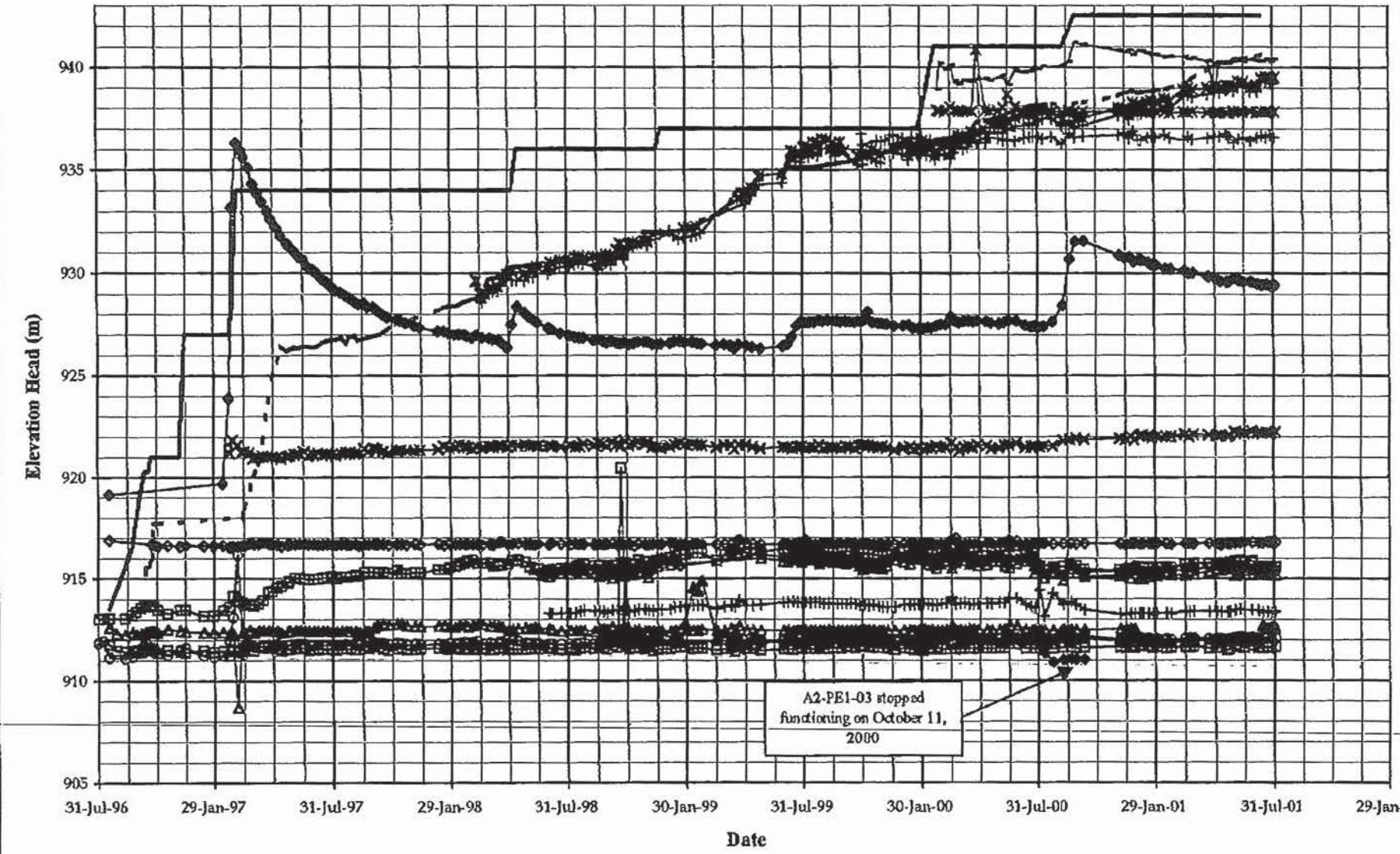
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE T RECORD SAMPLES
GRADATION CURVES

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 4.4

AUG 09 '01 08:22 250 790 2268 PAGE.012
#3590 P.012 MOUNT POLLEY MINING CORP.
AUG.09.2001 08:10 AM 250 790 2268
INVESTIGATION KCB-2 Page 422 of 500



Pond Level
Fill Elevation
A0-PE2-01
A0-PE2-02
A1-PE1-01
A1-PE1-02
A1-PE1-03
A2-PE1-01
A2-PE2-01
A2-PE2-02
A2-PE2-03
A2-PE2-05
A2-PE2-06
A2-PE2-07
A2-PE2-08
A1-PE1-04
A2-PE1-02
A0-PE1-01
A2-PE1-03

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE A PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

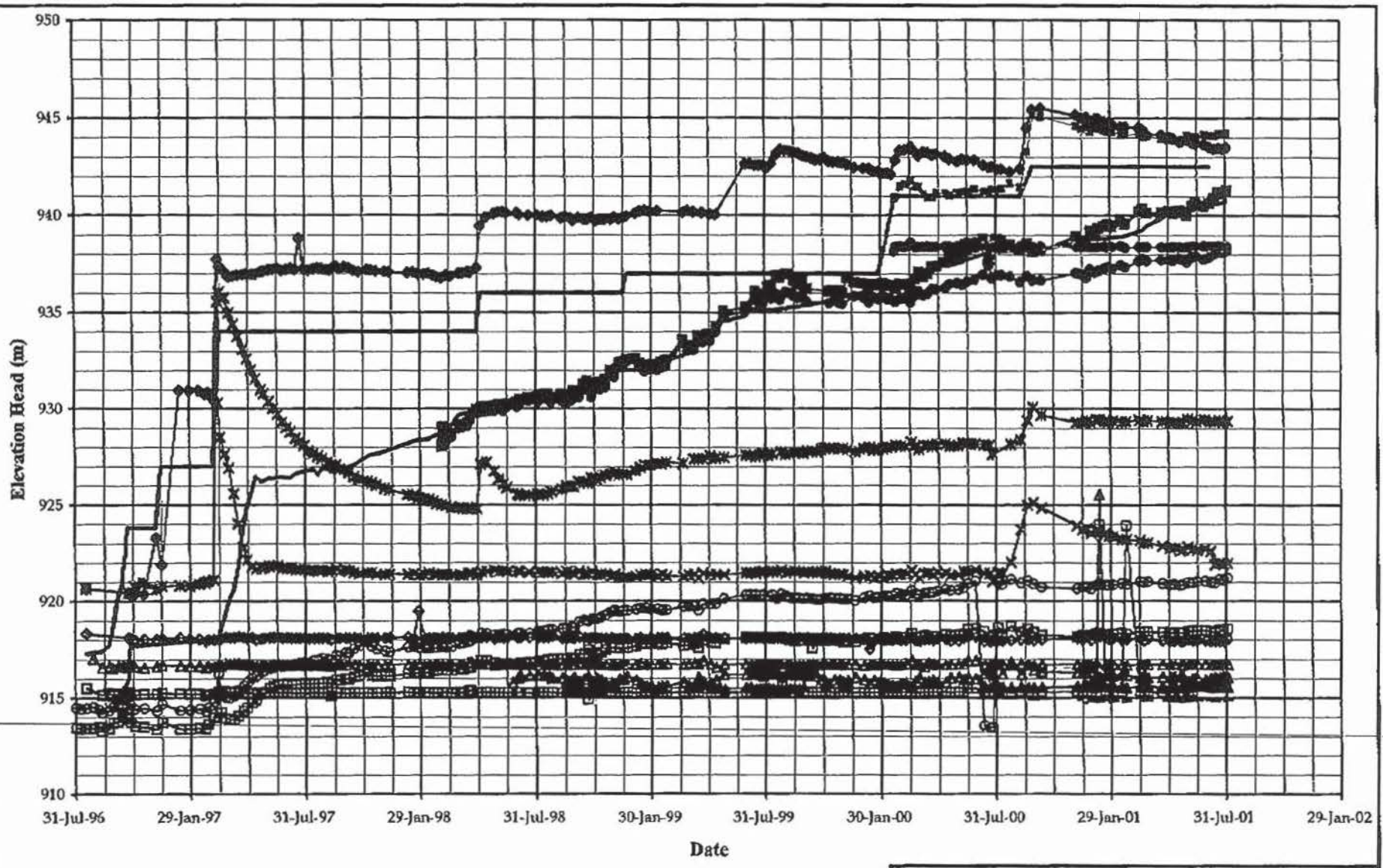
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.1

AUG 09 '01 08:23 250 790 2268 PAGE.013

INVESTIGATION KCB-2 Page 423 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

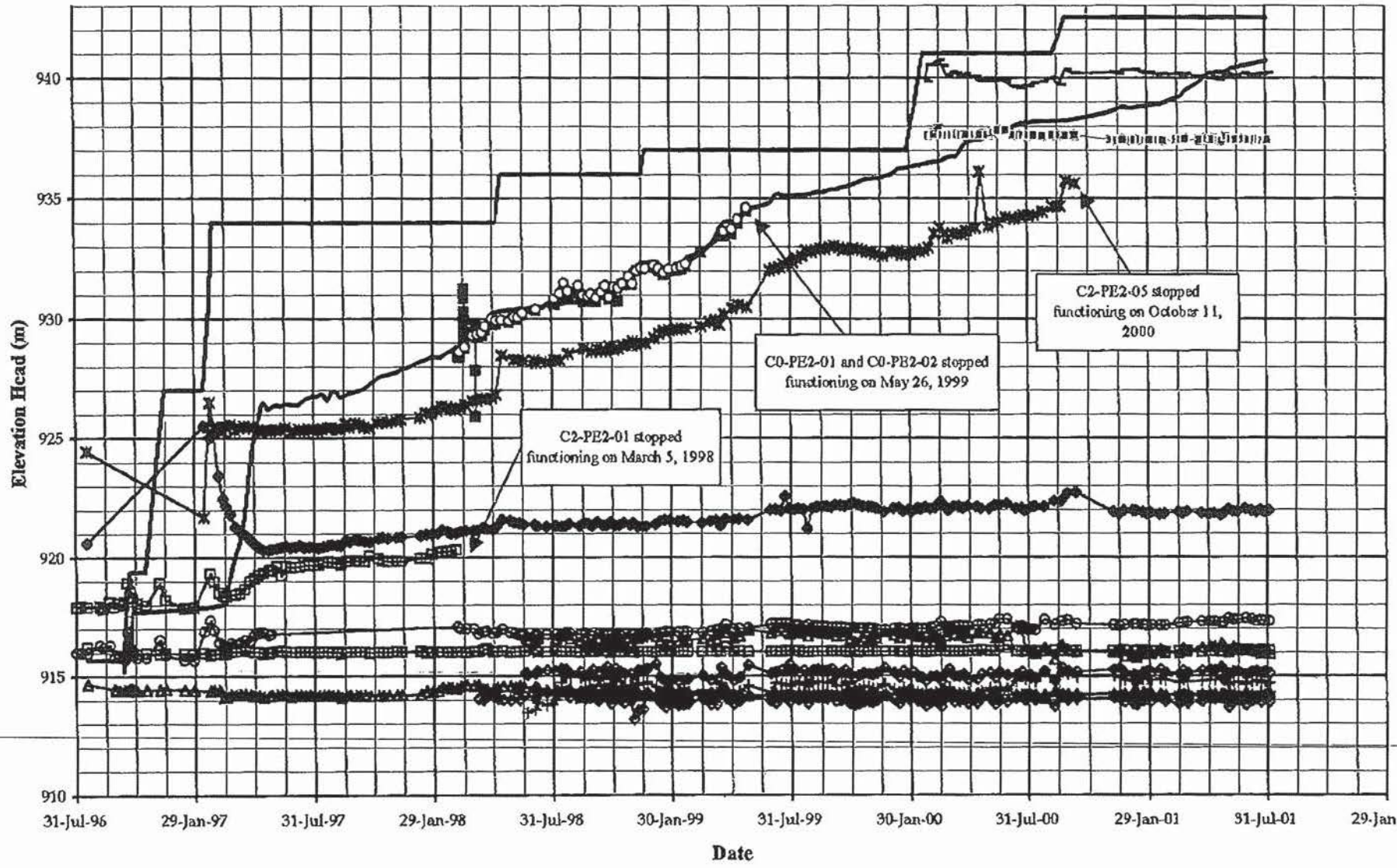
TAILINGS STORAGE FACILITY
PLANE B PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
1118/2/14		

FIGURE 5.2

250 790 2268 PAGE.014
AUG 09 '01 08:23
INVESTIGATION KCB-2 Page 424 of 500



Pond Level | Fill Elevation | C0-PE2-01 | C0-PE2-02 | C1-PE1-01
C1-PE1-02 | C1-PE1-04 | C2-PE1-01 | C2-PE2-01 | C2-PE2-02
C2-PE2-03 | C2-PE2-05 | C2-PE2-06 | C2-PE2-07 | C2-PE2-08
C0-PE1-01 | C2-PE1-02 | C2-PE1-03

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE C PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

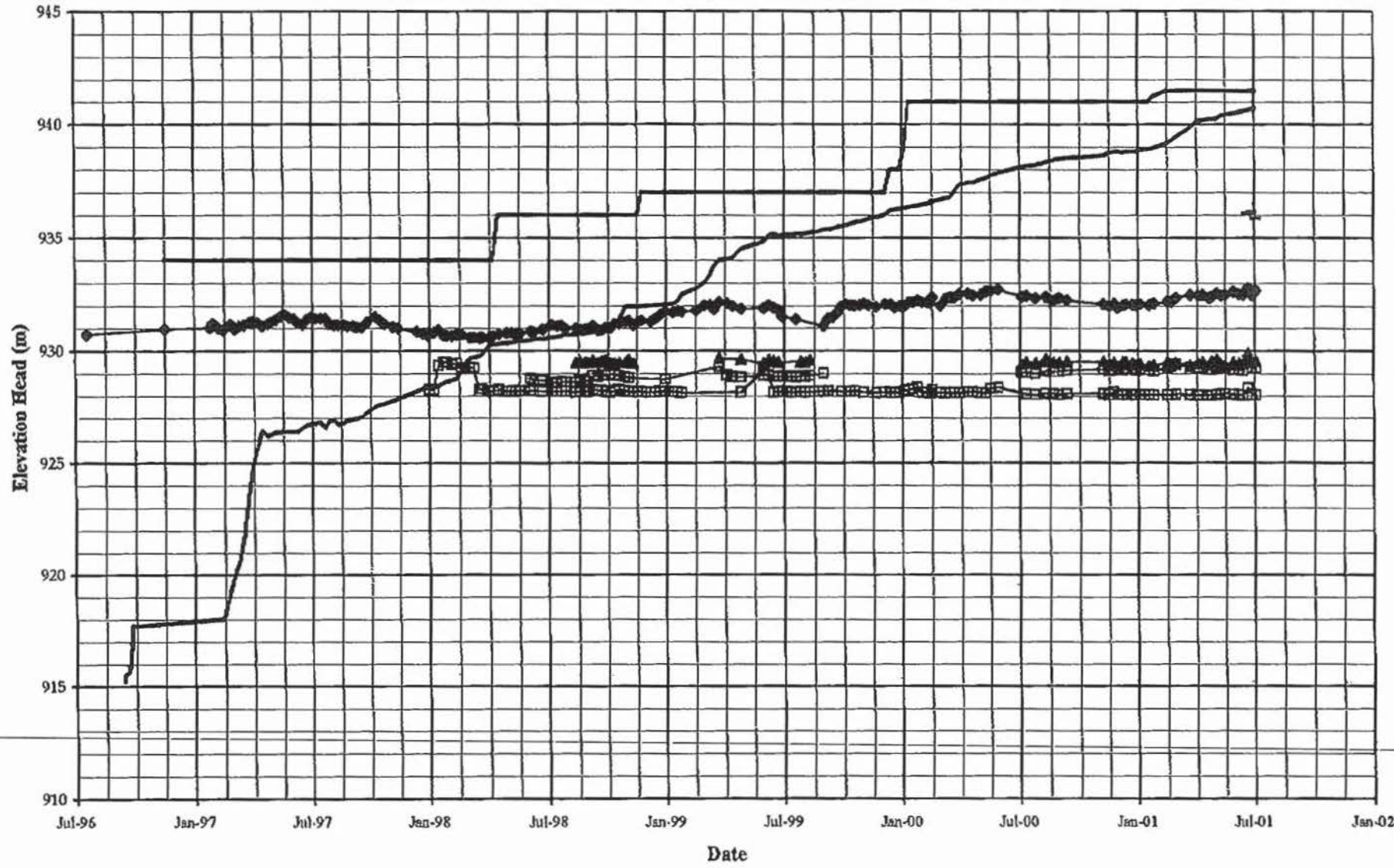
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.3

INVESTIGATION KCB-2 Page 425 of 500

AUG 09 '01 08:24 250 790 2268 PAGE.015



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

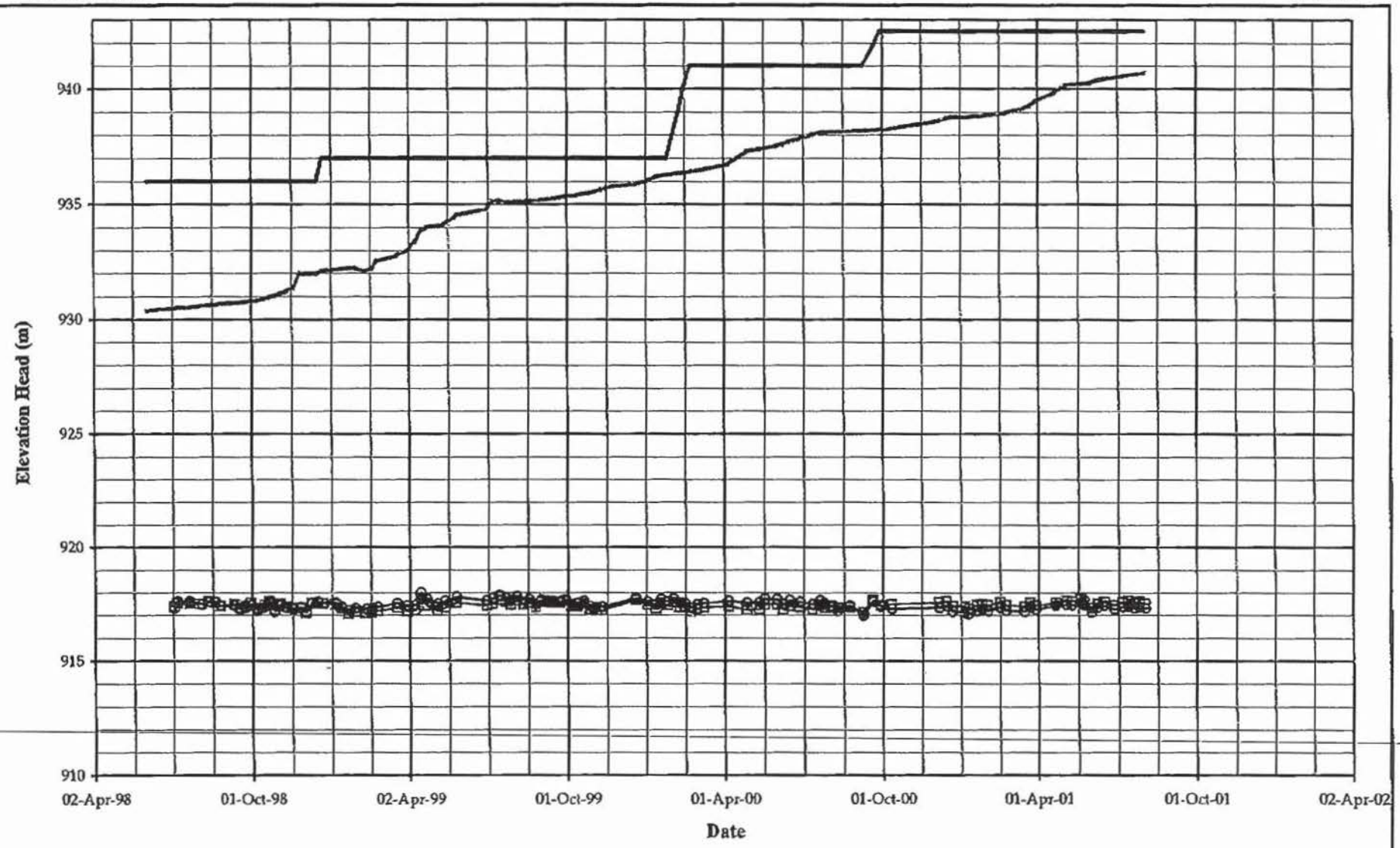
TAILINGS STORAGE FACILITY
PLANE D PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.4

250 790 2268 PAGE.016
AUG 09 '01 08:24
INVESTIGATION KCB-2 Page 426 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

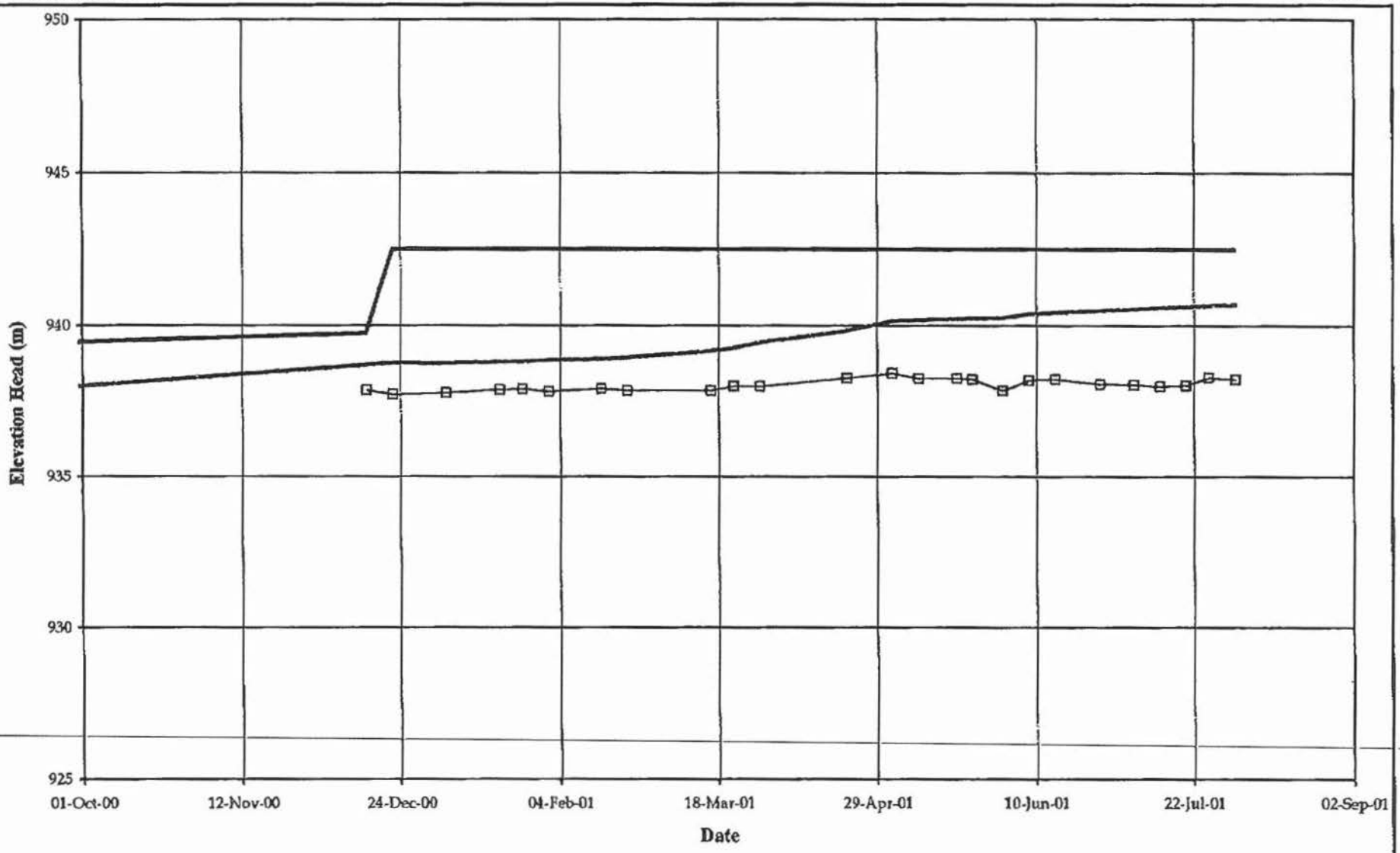
TAILINGS STORAGE FACILITY
PLANE E PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.5

250 790 2268 PAGE.017
AUG 09 '01 08:24
INVESTIGATION KCB-2 Page 427 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

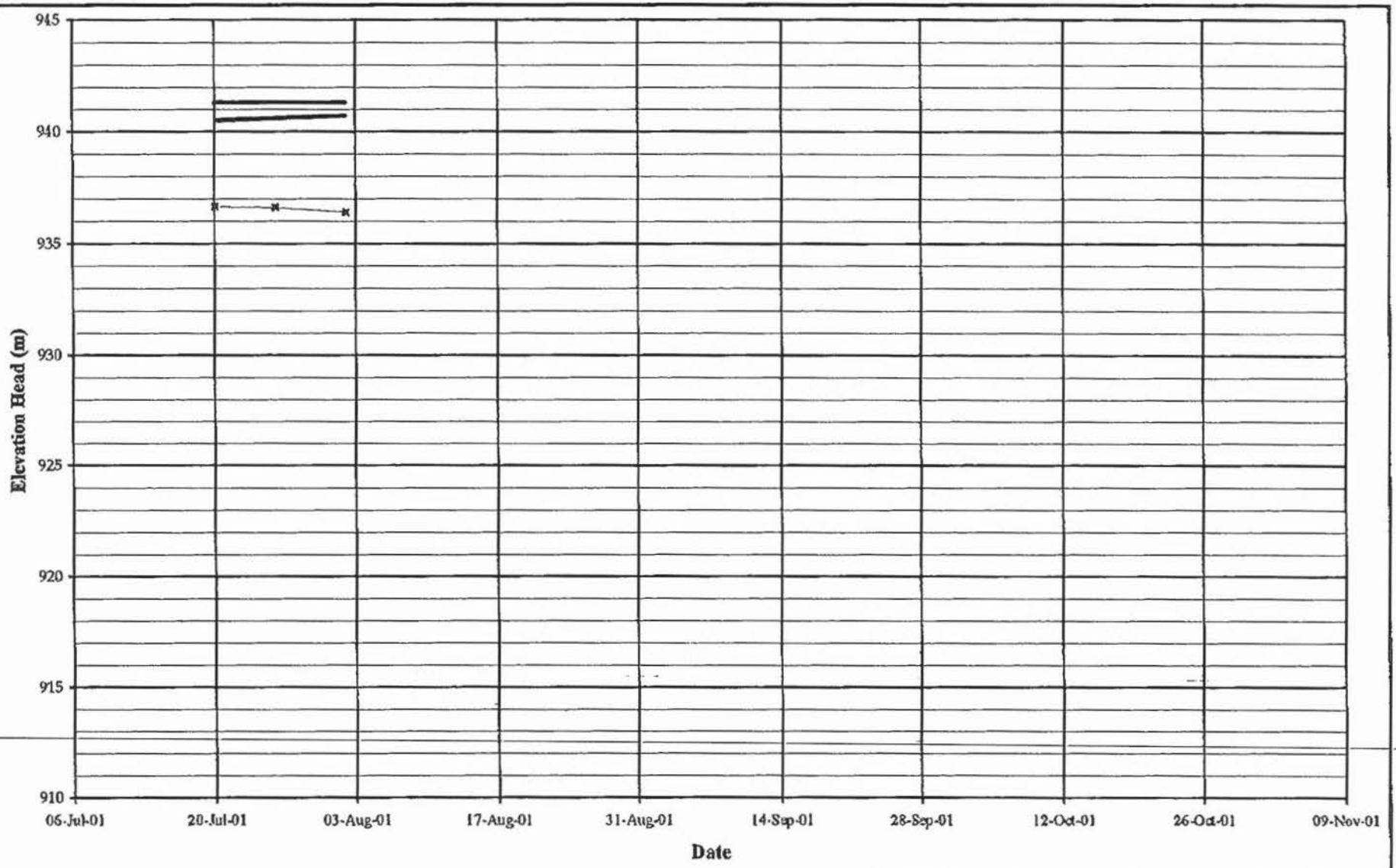
TAILINGS STORAGE FACILITY
PLANE F PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

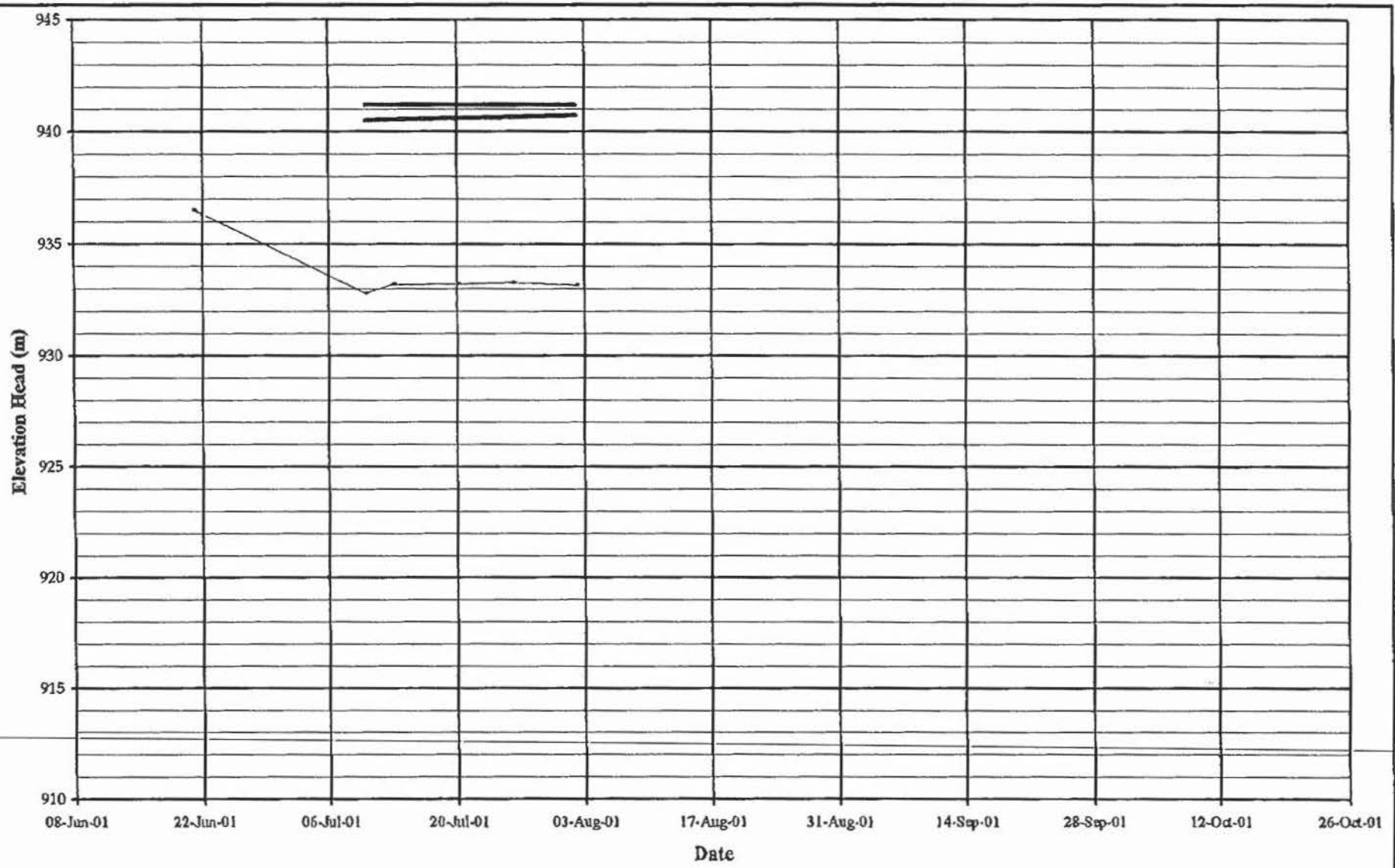
FIGURE 5.6

250 790 2268 PAGE.018
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MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE G PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.7		

250 790 2268 PAGE.019
AUG 09 '01 08:25
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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

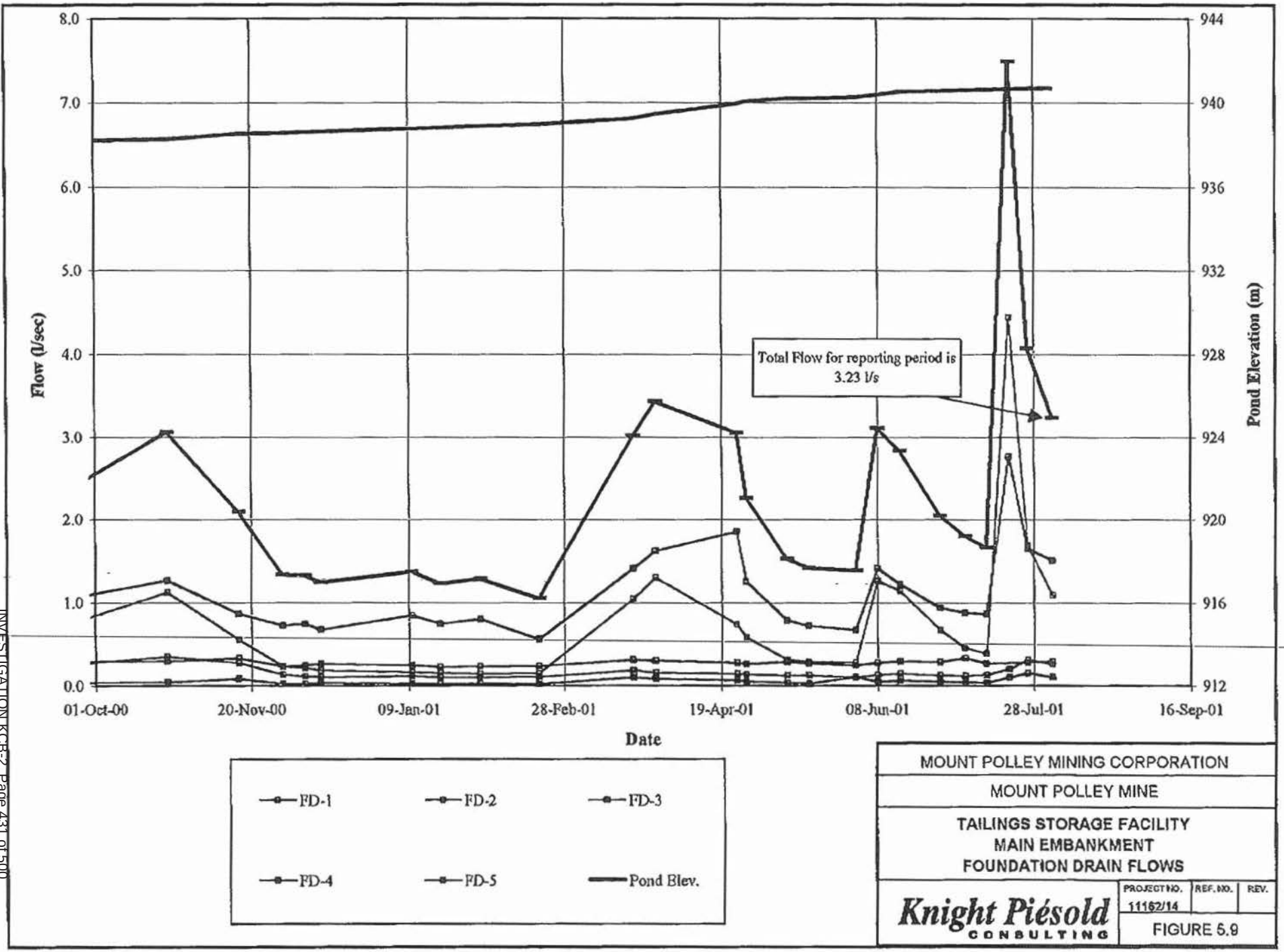
TAILINGS STORAGE FACILITY
PLANE H PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.8

250 790 2268 PAGE.020
AUG 09 '01 08:25
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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
MAIN EMBANKMENT
FOUNDATION DRAIN FLOWS

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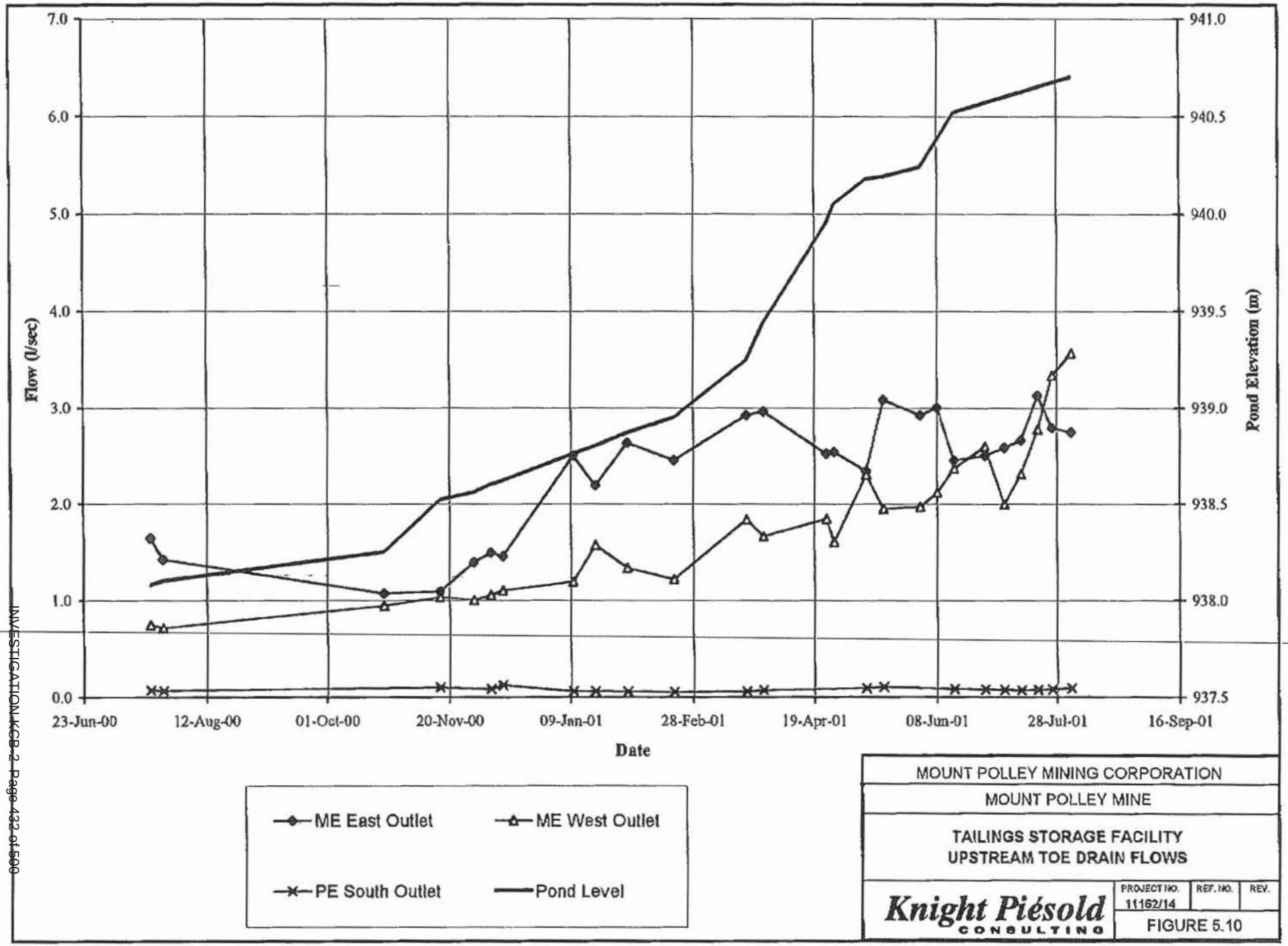
PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.9

AUG 09 '01 08:25 250 790 2268 PAGE.021

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INVESTIGATION KCB-2 Page 431 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
UPSTREAM TOE DRAIN FLOWS

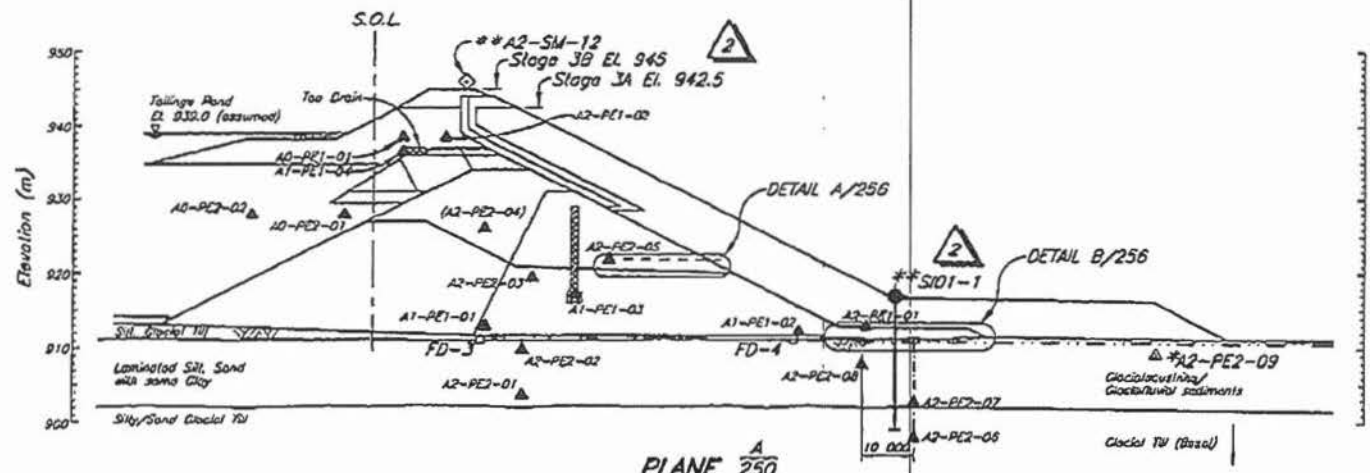
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

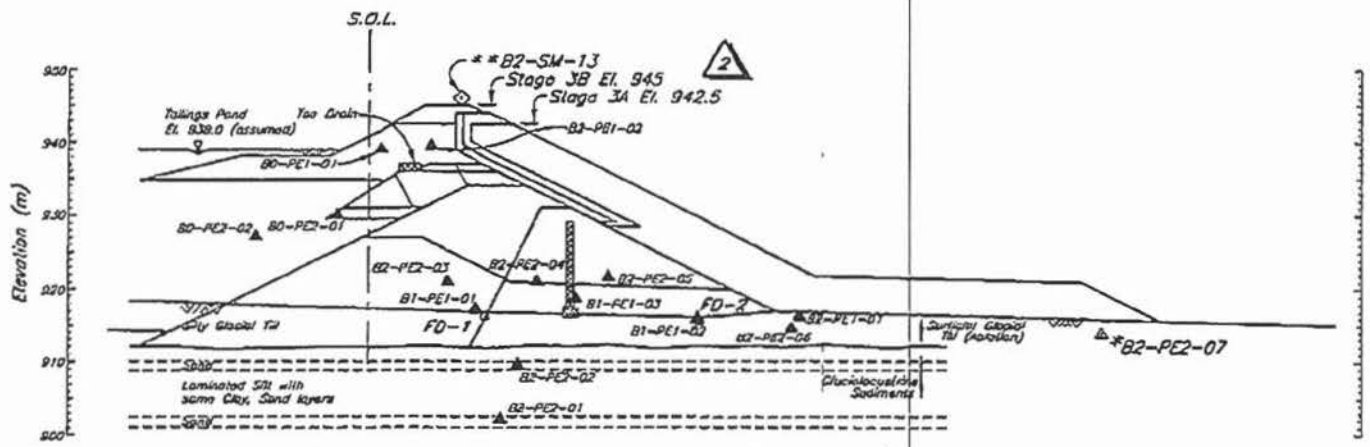
FIGURE 5.10

INVESTIGATION\KCB-2.KCB Page 132 of 300

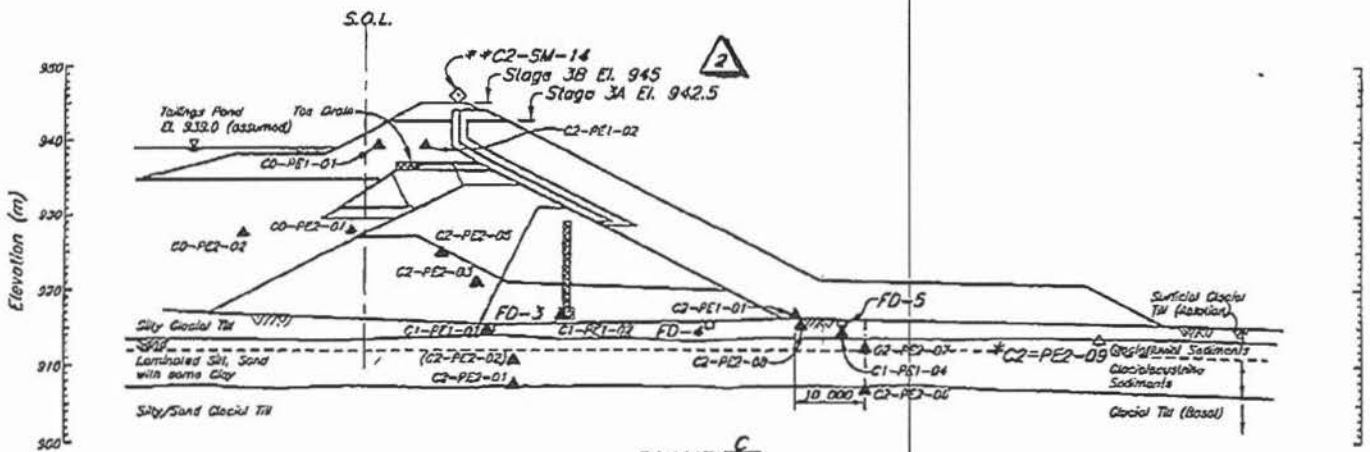
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PLANE A/250
CH. 20+00



PLANE B/250
CH. 22+40



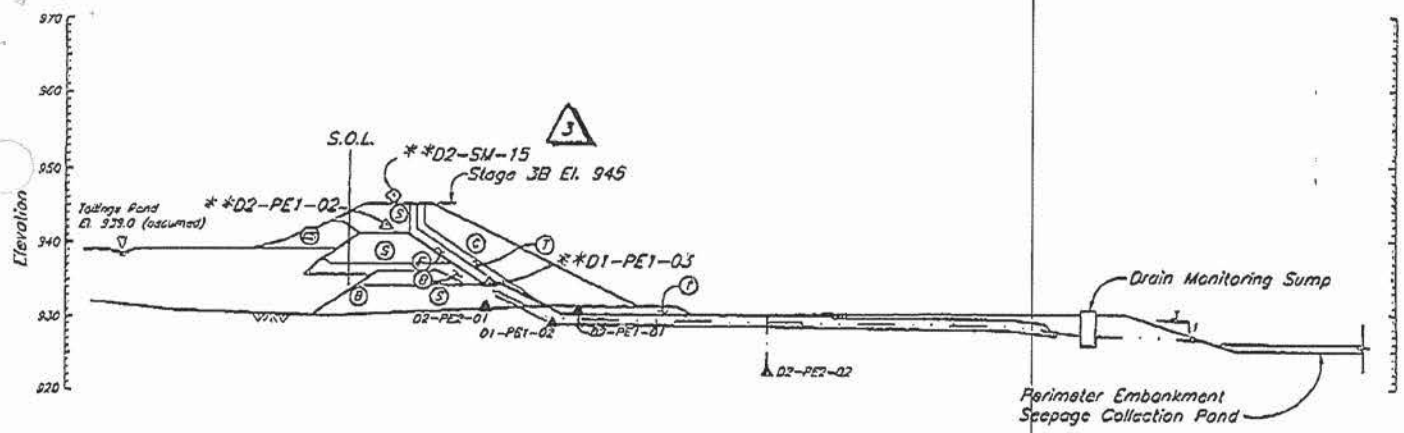
PLANE C/250
CH. 18+50

STAGE 3 TAILINGS EMBANKMENT – INSTRUMENTATION – SECTIONS 2 OF 2
STAGE 3 TAILINGS EMBANKMENT – INSTRUMENTATION – SUMMARY OF INSTALLATION & TYP. DETAILS
STAGE 3 MAIN EMBANKMENT – INSTRUMENTATION – PLAN

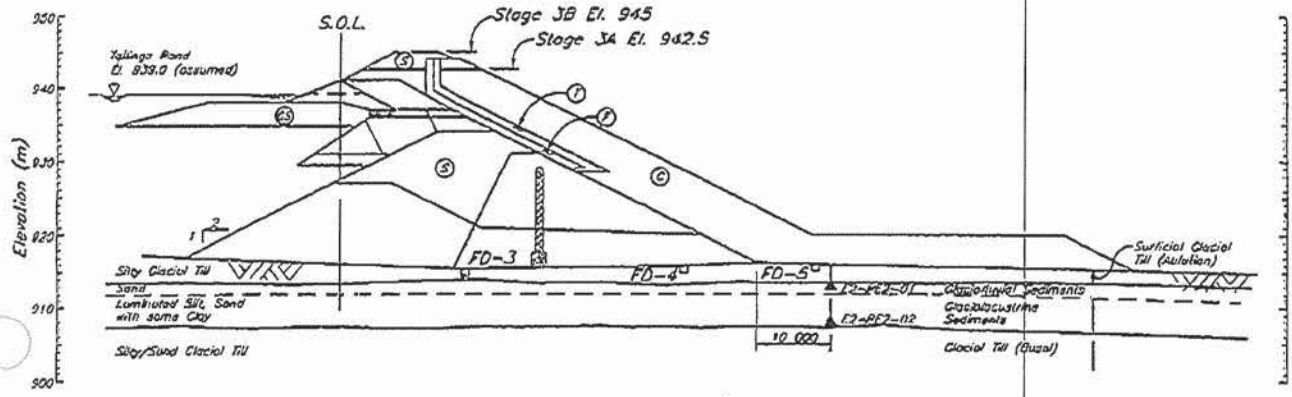
DESCRIPTION
REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
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1	26JAN'01	STAGE 3B				
0	2JUN'00	ISSUED FC				

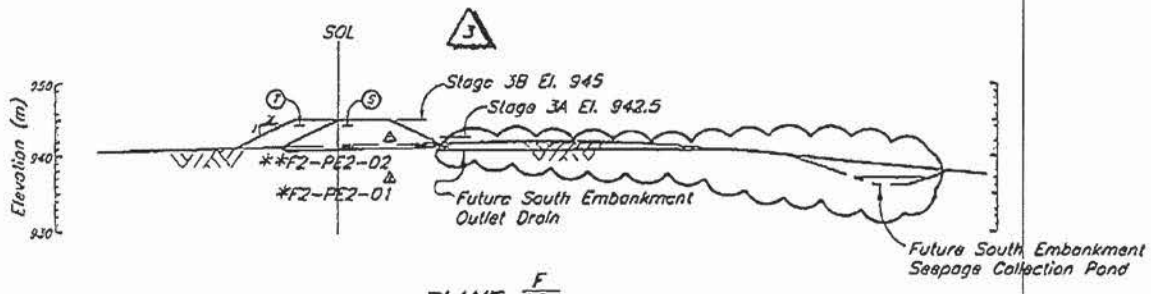
REVISIONS



PLANE $\frac{D}{251}$
CH. 39+86



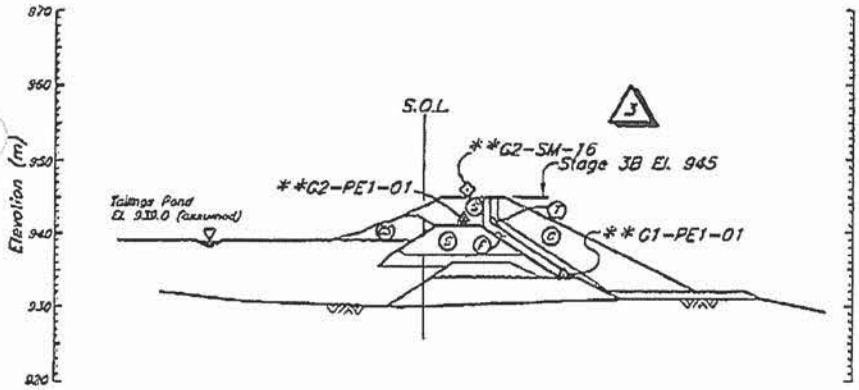
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CH. 17+60



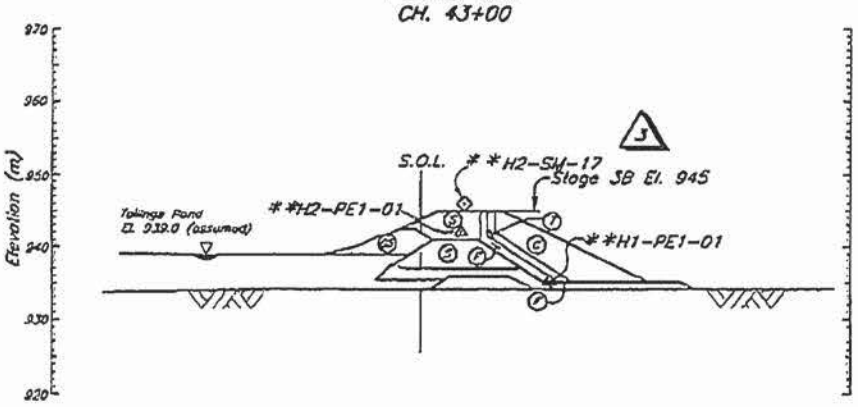
PLANE $\frac{F}{254}$
CH. 7+19

3 TAILINGS EMBANKMENT - INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS									3	08MAY'01	ISSUED FO
E 3 TAILINGS EMBANKMENT - SOUTH EMBANKMENT - INSTRUMENTATION PLAN									2	26JAN'01	STAGE 3B
STAGE 3 PERIMETER EMBANKMENT - INSTRUMENTATION PLAN									1	20OCT'00	PEREMETER
STAGE 3 TAILINGS EMBANKMENT - MAIN EMBANKMENT - INSTRUMENTATION PLAN									0	2JUN'00	ISSUED FO
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE		
REFERENCE DRAWINGS	REVISIONS										

AUG 09 '01 08:26 250 790 2268 PAGE.025



PLANE $\frac{G}{251}$
CH. 43+00



PLANE $\frac{H}{251}$
CH. 36+00

NOTE

1. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.

3

Scale 10 0 10 20 30 40 50 m

VANCOUVER B.C. G:\0_DWG_FILES\11162\13\Dwgs\11162-13-259.dwg 1:500, PLOT (1:1)(95) May 4, 2001 mod

REVISIONS	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
	STAGE 3B TENDER	CWM	OSR	JRK	KJB
3	3B - CREST ELEVATION 945	JRK	AW	JMTW	KJB
	ER EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW	KJB
	FOR CONSTRUCTION	JRK	TAM	ABW	KJB

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA L.W. MUIR

DESIGNED JRK | CHECKED ABW
DRAWN OSR | APPROVED KJB

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS – SHEET 2 OF 2

Knight Piésold CONSULTING

SCALE AS SHOWN | REVISION 3
DRAWING NO. 11162-13-259

250 790 2268 PAGE.001
JUL 31 '01 09:08

Aug. 24

Knight Piésold CONSULTING	**DATE:** July 31, 2001	**FILE NO.:**	11162/14.F01/.F02/ .F04/.F05/.F08
	TIME:	**REF NO.:**	01-25
Mount Polley Site Office *Fax: (250) 790-2268* www.knightpiésold.com	**OPERATOR:**	**PAGES:**	1 of 25
	SENDER: s.22		

TO:	Ministry of Energy and Mines, Victoria B.C.	**FAX :**	250-952-0481
ATTN:	Chris Carr		
CC:	Ken Brouwer, KP Vancouver Don Parsons / Eric LeNeve, MPMC Site		
SUBJECT:	Progress Report No. 16		

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 16 from July 23 to July 29, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,

s.22

Knight Piésold Consulting

MINISTRY OF
ENERGY AND MINES
REC'D JUL 3 1 2001

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION PROGRESS REPORT NO. 16 – JULY 23 TO JULY 29, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out the majority of this work. Hauling of Zone F from the millsite to the TSF and hauling of Zone S from the borrow area to the TSF is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Charlie O'Hara General Foreman
- Site Foreman
- s.22 Site Foreman

1.2 CONTRACT DEVELOPMENTS

MPMC has decided to contract out the majority of the Zone S haul between the borrow area and the TSF. MPMC will still be responsible for spreading, grading and compaction of the Zone S material.

1.3 DESIGN DEVELOPMENTS

No new design developments occurred during the reporting period.

1.3 WEATHER

Conditions were generally rainy with cloudy and sunny periods during the reporting period. Maximum daytime highs reached about +20 °C and nightly lows sank to as low as +7 °C.

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1.4 SAFETY

No new safety incidents occurred over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 26+00 to obtain a well developed, even beach at the Main Embankment. The tailings line will then be moved to the ridge between the Main and South Embankments. It is anticipated that tailings will form a substantial beach in this area by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Hitachi EX 400
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992B
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K, 1Caterpillar D7G
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks

MPMC carried out the following activities during the reporting period:

- Placement of Zone F fill, Perimeter Embankment: Ch. 33+00 to 36+75 and 40+50 to 43+00, El. 933.0 to 941.0 m.
- Crushing of Zone F at the millsite.
- Placement of Zone T fill, Perimeter Embankment: Ch. 42+50 to 43+25, El. 932 to 941.0 m.
- Cleaning of existing slopes in preparation for Zone F material.
- Development of the Rock Borrow for Zone T material.

Zone T was supplied from the Rock Borrow, while Zone F was delivered from the stockpile at the millsite. Zone F was placed in a 1 m thick lift on the downstream embankment slope over stiff Zone S, while Zone T was placed upon Zone F in a 1 metre thick lift.

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

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KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F and T.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- C-ZF-44 and 45
- R-ZF-39 and 40
- R-ZT-16

C-ZF-44 failed on the fine side of the gradation specification for Zone F. The pile was re-mixed with a dozer and C-ZF-45 was collected and tested. The results from this testing showed that the material was acceptable for Zone F.

R-ZF-39 failed the grain size specification for Zone F on the coarse side. However, it has been shown previously that the filter relationship criteria remains with the Zone S and Zone T materials for Zone F samples of this type. Re-testing of this material is not required due to these circumstances.

The remaining record tests completed during the reporting period proved suitable for their respective zones. All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING

5.1 GENERAL

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed during the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.8. Locations of the piezometers are presented on the attached Drawings.

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Foundation Piezometers

No substantial changes were noted in the remaining foundation piezometers with the exception of Plane D piezometers, which decreased slightly.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. Generally, these piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on July 26, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.9 and 5.10, respectively. The flows from the

foundation drains decreased significantly, as rainfall was substantially less than the last reporting period.

5.4 SLOPE INCLINOMETERS

The equipment to monitor, record and evaluate the data from the slope inclinometers is expected to be on site during the first week of August. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

SECTION 6.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 942.5 m.
- The slope inclinometers will be measured and calibrated.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,

s.22

Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

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TABLE 4.1

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

ZONE F CONTROL TEST SUMMARY SHEET

I:\ENG\DATA\Engineering\Geotechnical\Stage 3B Construction\QA\Control\[C-ZF-summary] Data Sheet

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SHEET: 1 of 1

PERIOD: July 23 to July 29, 2001

PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

PROJECT NO.: VA162/14

MATERIAL: Zone F - Filter Sand

AREA: Zone F Stockpile

Sample No.	Date Sampled	Location	EL. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Field m/c %	LI %	C3 (Particle Size Distribution) 101.6 mm %	76.2 mm %	38.1 mm %	25.4 mm %	19.05 mm %	9.525 mm %	4.75 mm %	2.36 mm %	1.18 mm %	0.6 mm %	0.3 mm %	0.14926 mm %	0.07366 mm %	0.002 mm %	C4 Standard Proctor Max Dry Density kg/m³	C4 Standard Proctor Optimum m/c %	C6 Specific Gravity
C-ZF-31	28-Jun-01	Zone F Stockpile	-	-	-	-	4.1	-	100.0	100.0	100.0	100.0	99.6	84.0	61.6	43.0	28.3	21.3	16.3	12.0	10.0	-	-	-	-
C-ZF-32	28-May-01	Zone F Stockpile	-	-	-	-	4.0	-	100.0	100.0	100.0	100.0	99.4	78.9	59.9	45.8	29.6	21.9	16.8	13.1	10.4	-	-	-	-
C-ZF-33	28-May-01	Zone F Stockpile	-	-	-	-	2.9	-	100.0	100.0	100.0	100.0	98.7	56.0	28.1	17.6	12.8	10.1	7.8	6.1	4.8	-	-	-	-
C-ZF-34	31-Jun-01	Zone F Stockpile	-	-	-	-	3.2	-	100.0	100.0	100.0	100.0	99.3	59.2	35.0	24.2	15.0	10.5	7.8	6.1	4.8	-	-	-	-
C-ZF-35	31-Jun-01	Zone F Stockpile	-	-	-	-	4.2	-	100.0	100.0	100.0	100.0	97.9	58.3	34.7	24.7	15.3	10.6	8.0	6.4	5.1	-	-	-	-
C-ZF-36	12-Jun-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	93.7	60.6	37.0	25.2	16.5	12.2	9.4	7.1	5.6	-	-	-	-
C-ZF-37	03-Jul-01	Zone F Stockpile	-	-	-	-	3.5	-	100.0	100.0	100.0	100.0	95.0	56.3	34.9	23.7	16.3	11.5	8.9	6.2	5.2	-	-	-	-
C-ZF-38	03-Jul-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	93.5	76.2	55.6	40.0	27.2	19.0	12.9	6.5	5.3	-	-	-	-
C-ZF-39	03-Jul-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	99.5	75.4	44.2	24.5	14.3	9.8	6.3	3.7	1.9	-	-	-	-
C-ZF-40	04-Jul-01	Zone F Stockpile	-	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.3	68.8	44.7	30.2	18.8	12.3	6.9	5.2	1.5	-	-	-	-
C-ZF-41	04-Jul-01	Zone F Stockpile	-	-	-	-	5.5	-	100.0	100.0	100.0	100.0	99.2	73.0	54.7	36.7	21.3	11.9	6.3	3.7	1.8	-	-	-	-
C-ZF-42	13-Jul-01	Zone F Stockpile	-	-	-	-	5.3	-	100.0	100.0	100.0	100.0	96.9	69.4	45.3	27.4	16.9	10.1	5.9	3.9	-	-	-	-	-
C-ZF-43	13-Jul-01	Zone F Stockpile	-	-	-	-	5.5	-	100.0	100.0	100.0	100.0	99.1	79.1	57.4	38.0	26.0	16.1	9.1	4.5	-	-	-	-	-
C-ZF-44	24-Jul-01	Zone F Stockpile	-	-	-	-	6.9	-	100.0	100.0	100.0	100.0	99.1	89.2	60.7	39.1	39.3	30.6	23.6	18.6	16.9	-	-	-	-
C-ZF-45	24-Jul-01	Zone F Stockpile	-	-	-	-	8.1		100.0	100.0	100.0	100.0	95.0	62.0	41.6	32.5	24.5	19.3	13.6	12.6	10.2	-	-	-	-
		MEAN	#DIV/0!	#DIV/0!	#DIV/0!	4.2	#DIV/0!		100.0	100.0	100.0	100.0	98.3	69.4	45.4	32.8	21.5	15.2	10.8	7.3	5.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		MEDIAN	#VALUE!	#VALUE!	#VALUE!	4.0	#VALUE!		100.0	100.0	100.0	100.0	99.1	69.4	45.3	30.2	18.8	12.2	8.0	6.1	4.8	#VALUE!	#VALUE!	#VALUE!	#VALUE!
		MAXIMUM (*)	0.0	0.0	0.0	8.1	0.0		100.0	100.0	100.0	100.0	99.6	84.0	61.6	45.8	39.5	30.6	23.6	18.6	16.9	0.0	0.0	0.0	0.0
		MINIMUM (*)	0.0	0.0	0.0	1.5	0.0		100.0	100.0	100.0	100.0	95.0	56.0	28.1	17.6	12.8	9.8	5.9	3.7	1.5	0.0	0.0	0.0	0.0

Note: These are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

C1 Atterberg Limits (ASTM D4318)
C2 Moisture Content (ASTM D2216)
C3 Particle Size Distribution (ASTM D422)
C4 Laboratory Compaction (ASTM D1557)
C6 Specific Gravity (ASTM D854)

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TABLE 4.2

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

ZONE F RECORD TEST SUMMARY SHEET

Knight Piésold CONSULTING

SHEET:	1 of 1		
PERIOD:	July 23 to July 29, 2001		
PROJECT:	MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION	PROJECT NO.:	1116214
MATERIAL:	Zone F - Filter Sand	AREA:	TSF

Sample No.	Date Sampled	Location	El. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Field w/c %	L3 %	C3 (Particle Size Distribution) 101.6 mm %	76.2 mm %	38.1 mm %	25.4 mm %	19.05 mm %	9.525 mm %	4.75 mm %	2.36 mm %	1.18 mm %	0.6 mm %	0.3 mm %	0.150/0.16 mm %	0.075/0.08 mm %	0.020 mm %	C4 Standard Proctor Max Dry Density kg/m³	C4 Standard Proctor Optimum w/c %	C5 Specific Gravity
R-ZF-31	23-May-01	2+400, 0.5 m DS of Zone S	941.8	-	-	-	4.0	-	100.0	100.0	100.0	100.0	93.3	71.5	59.1	35.9	25.8	19.3	15.0	11.6	9.1	-	-	-	-
R-ZF-32	28-May-01	3+400, 0.5 m DS of Zone S	936.0	-	-	-	4.1	-	100.0	100.0	100.0	100.0	91.7	68.4	54.0	31.9	22.5	16.9	12.8	9.9	7.7	-	-	-	-
R-ZF-33	27-May-01	4+400, 0.8 m DS of Zone S	935.0	-	-	-	3.0	-	100.0	100.0	100.0	100.0	93.9	68.8	54.7	34.8	27.8	23.2	20.6	8.5	6.9	-	-	-	-
R-ZF-34	20-May-01	3+400, 0.8 m DS of Zone S	935.0	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.2	61.5	33.8	23.0	18.7	14.9	11.0	8.6	6.8	-	-	-	-
R-ZF-35	20-May-01	4+400, 0.8 m DS of Zone S	933.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.4	70.8	45.6	32.6	25.0	17.3	13.7	10.6	8.3	-	-	-	-
R-ZF-36	10-May-01	3+450, 0.8 m DS of Zone S	939.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.5	72.6	50.4	36.5	28.8	22.6	17.4	9.2	7.0	-	-	-	-
R-ZF-37	10-May-01	4+400, 0.8 m DS of Zone S	933.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.6	63.6	41.3	29.8	21.4	16.9	13.5	9.4	6.4	-	-	-	-
R-ZF-38	19-May-01	3+400, 1.0 m DS of Zone S	939.0	-	-	-	8.4	-	100.0	100.0	100.0	100.0	99.4	73.8	50.6	35.3	26.3	19.3	15.7	12.0	9.6	-	-	-	-
R-ZF-39	28-May-01	4+400, 1.0 m DS of Zone S	943.0	-	-	-	2.3	-	100.0	100.0	100.0	100.0	94.9	53.6	35.2	25.0	17.7	12.6	9.4	9.3	5.7	-	-	-	-
R-ZF-40	28-May-01	3+400, 1.0 m DS of Zone S	943.0	-	-	-	6.3	-	100.0	100.0	100.0	100.0	100.0	73.2	54.2	31.3	22.0	15.1	10.4	7.5	2.3	-	-	-	-
		MEAN	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.0	100.0	100.0	100.0	98.6	68.6	46.5	31.6	22.0	16.3	12.5	9.7	7.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		MEDIAN	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	100.0	100.0	100.0	100.0	99.3	68.8	46.2	31.8	22.3	16.9	12.6	9.4	7.0	#NUM!	#NUM!	#NUM!	#NUM!
		MAXIMUM (*)	0.0	0.0	0.0	0.0	8.4	0.0	100.0	100.0	100.0	100.0	100.0	73.8	50.6	35.5	26.3	19.7	15.7	12.0	9.6	0.0	0.0	0.0	0.0
		MINIMUM (*)	0.0	0.0	0.0	0.0	2.3	0.0	100.0	100.0	100.0	100.0	94.9	53.6	35.2	25.0	17.7	12.6	9.4	7.5	2.3	0.0	0.0	0.0	0.0

Note : These are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

R1 Atterberg Limits (ASTM D4318)

R2 Moisture Content (ASTM D2216)

R3 Particle Size Distribution (ASTM D422)

R4 Laboratory Compaction (ASTM D1557)

R6 Specific Gravity (ASTM D854)

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TABLE 4.4

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION

ZONE T RECORD TEST SUMMARY SHEET

H:\ENG\DATA\Engdocs\Geotechnical\Mpolle\Stage 3B Construction\lab\record\[R-ZT-summ.xls]Data Sheet

Knight Piésold CONSULTING

SHEET :	1 of 1		
PERIOD :	July 23 to July 29, 2001		
PROJECT :	MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION	PROJECT NO. :	1116214
MATERIAL :	Zone T - Transition Zone	AREA :	TSF

Sample No.	Date Sampled	Location	El. (m)	R1 Atterberg Limits PL %	LL %	PI %	R2 Fines %	R3 %	R3 (Particle Size Distribution) 100.0 mm	75.0 mm	37.5 mm	19.05 mm	9.525 mm	4.75 mm	2.36 mm	1.18 mm	0.6 mm	0.3 mm	0.15 mm	0.075 mm	0.002 mm	R4 Standard Proctor Max Dry Density kg/m³	Optimum m/c %	R6 Specific Gravity
									4"	3"	1 1/2"	3/4"	3/8"	#4	#8	#16	#30	#50	#100	#200	Clay			
R-ZT-12	03-Jun-01	42+50, 1.8 m U/S of Zone S	933.3	-	-	-	4.4	-	-	80.0	46.4	32.3	22.0	14.9	10.8	7.6	5.6	4.2	3.2	2.5	-	-	-	-
R-ZT-13	23-Jun-01	32+50, 1.8 m D/S of Zone S	933.0	-	-	-	3.0	-	-	76.7	49.7	34.5	22.9	14.6	9.7	6.4	4.1	2.6	-	-	-	-	-	-
R-ZT-14	09-Jul-01	35+00, 3 m INS of Zone S	933.0	-	-	-	3.4	-	-	76.9	52.9	38.2	22.6	12.2	7.2	4.5	3.1	2.2	1.6	1.2	-	-	-	-
R-ZT-15	23-Jul-01	40+25, 3 m D/S of Zone S	935.0	-	-	-	3.6	-	-	68.3	43.5	29.5	18.8	11.4	7.2	5.1	3.9	2.8	-	-	-	-	-	-
R-ZT-16	29-Jul-01	43+00, 3 m INS of Zone S	940.5	-	-	-	4.0	-	-	77.3	45.8	26.2	15.8	9.9	6.9	4.9	3.4	-	-	-	-	-	-	-
		MEAN	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	3.3	#DIV/0!	#DIV/0!	#DIV/0!	75.7	48.7	32.1	20.4	12.6	8.5	5.7	4.0	2.9	2.4	1.9	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		MEDIAN	#NUM!	#NUM!	#NUM!	#NUM!	3.6	#NUM!	#NUM!	#NUM!	76.9	46.4	32.3	22.0	12.2	7.2	5.1	3.9	2.6	2.4	1.9	#NUM!	#NUM!	#NUM!	#NUM!
		MAXIMUM (*)	0.0	0.0	0.0	0.0	4.4	0.0	0.0	80.0	52.9	38.2	22.9	14.9	10.8	7.6	5.6	4.2	3.2	2.5	0.0	0.0	0.0	0.0
		MINIMUM (*)	0.0	0.0	0.0	0.0	3.4	0.0	0.0	68.3	43.5	26.2	15.8	9.9	6.9	4.5	3.1	2.2	1.6	1.2	0.0	0.0	0.0	0.0

Note : These are 100% limits.

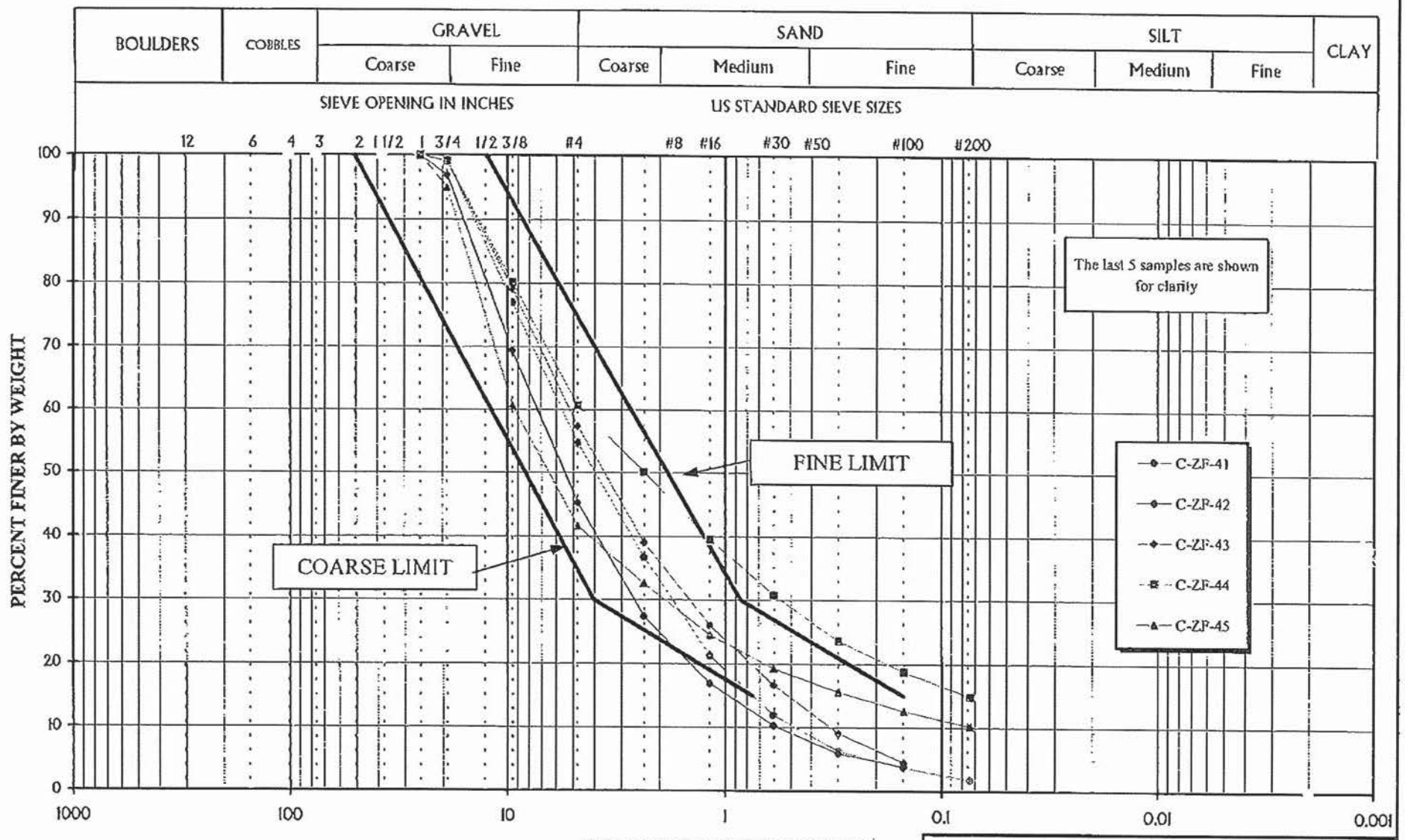
Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Specific Gravity (ASTM D854)

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m:\11832\2\report\2\C-ZF-summ.xls\Fig A3-2
30/07/2001 10:35 AM



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F CONTROL SAMPLES
GRADATION CURVES

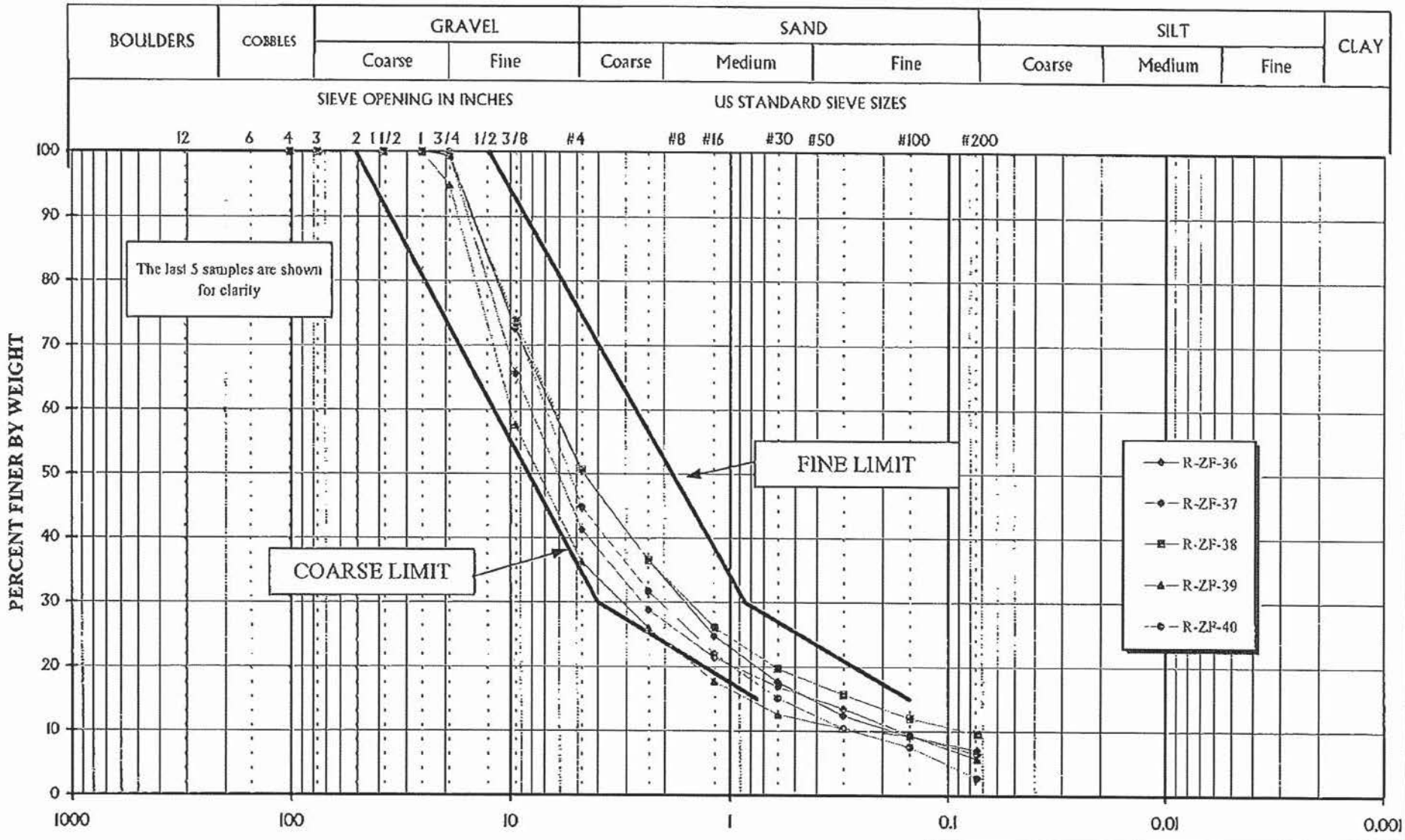
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 4.1

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

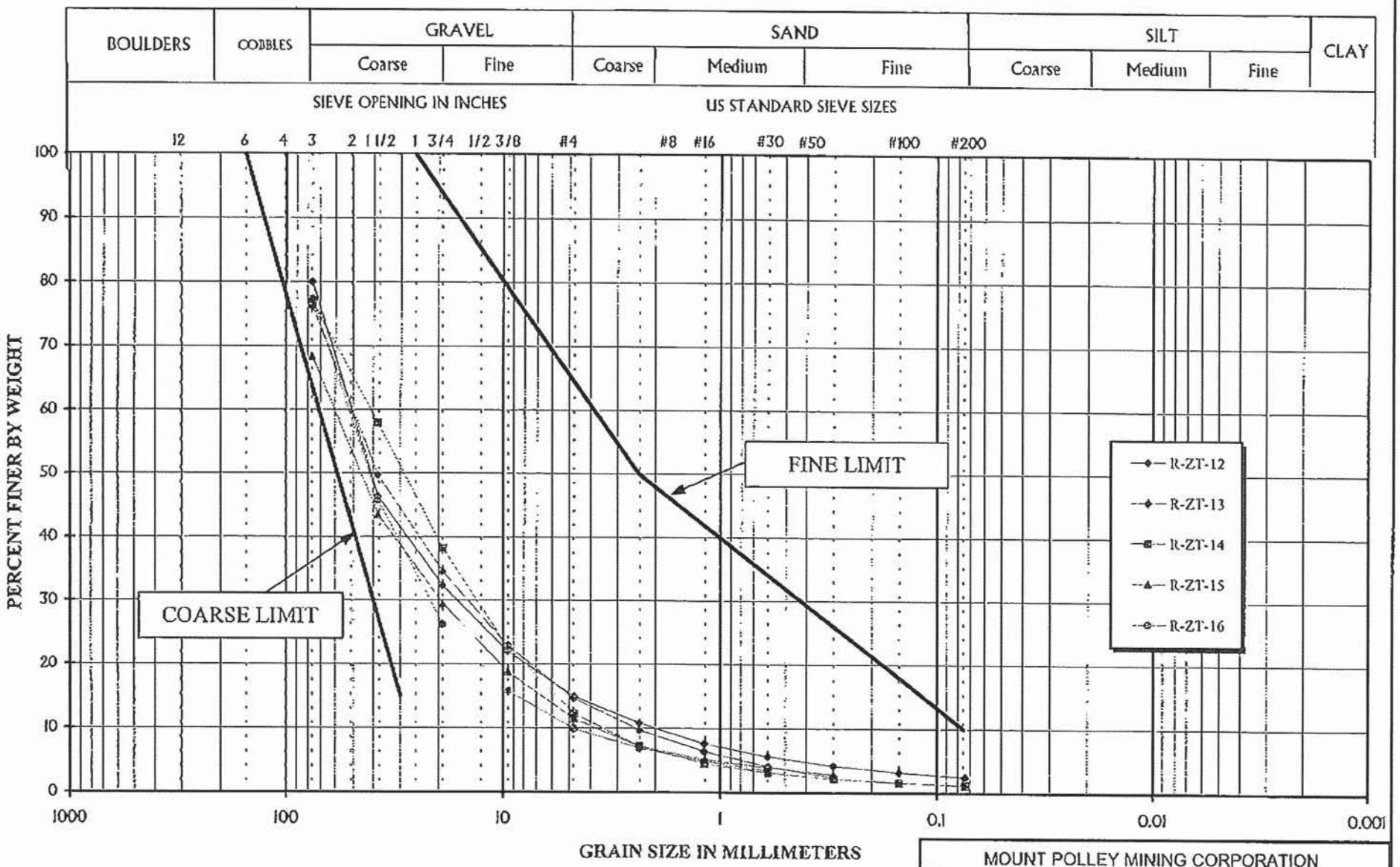
TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F RECORD SAMPLES
GRADATION CURVES

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 4.2

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

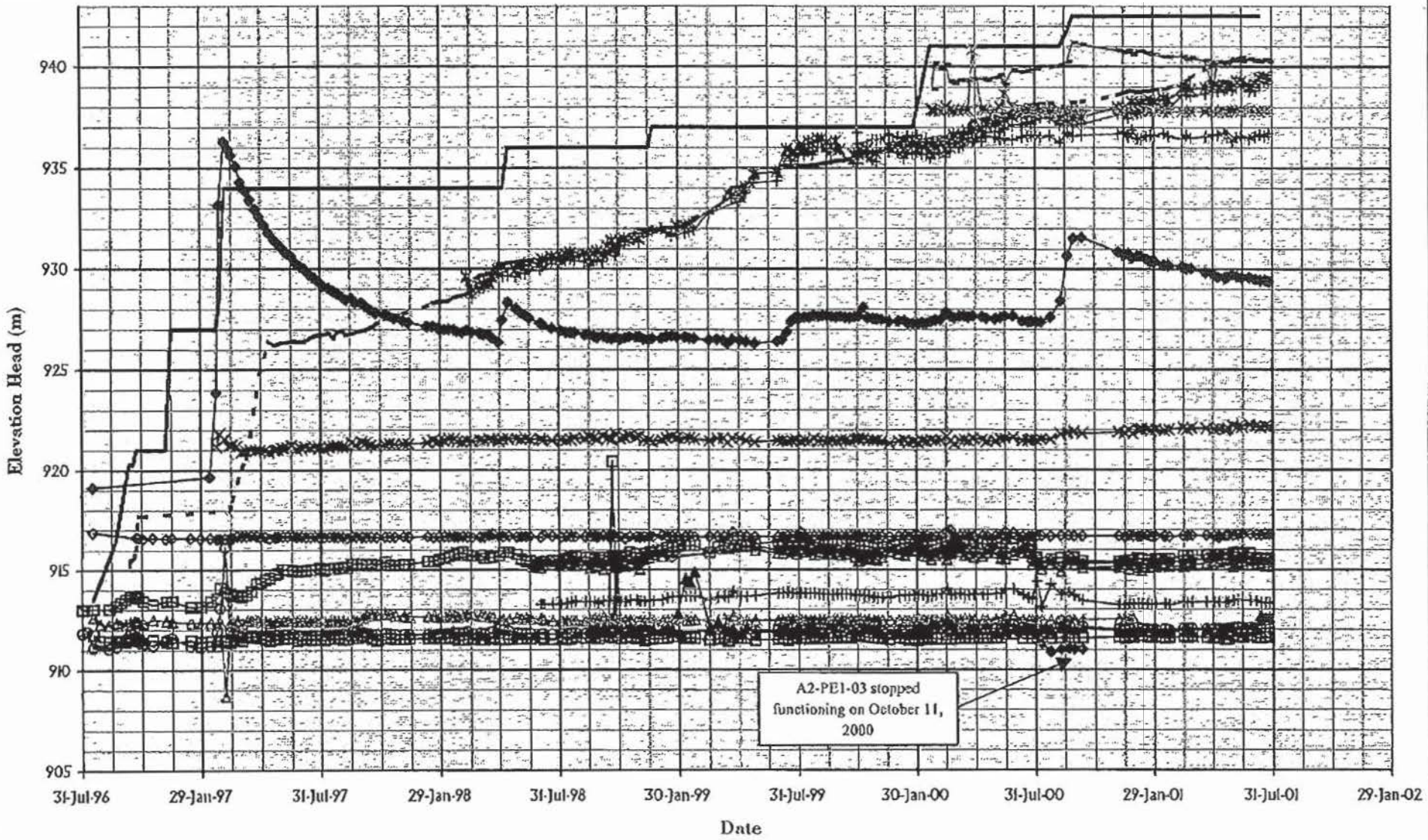
TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE T RECORD SAMPLES
GRADATION CURVES

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

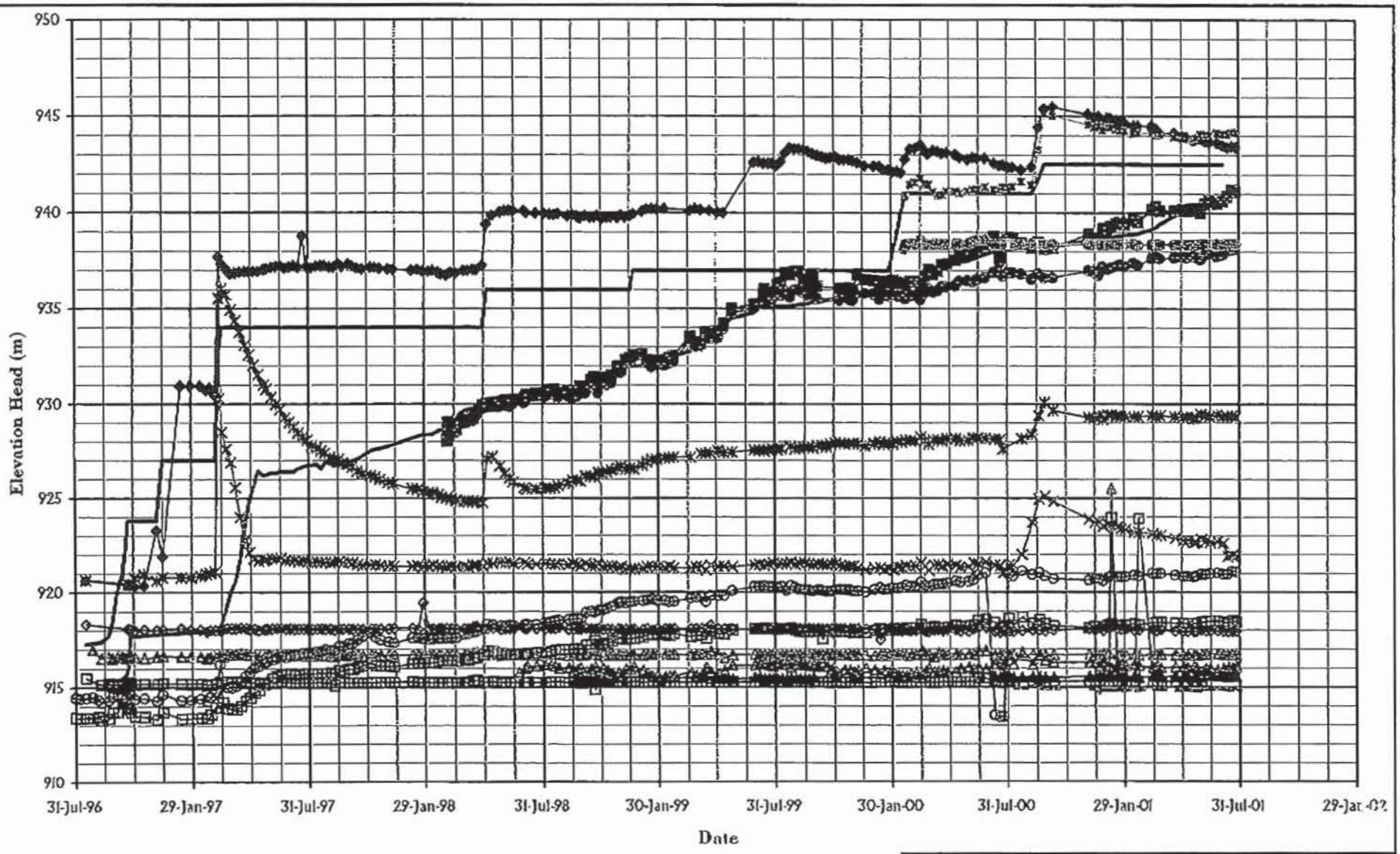
FIGURE 4.4

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INVESTIGATION KCB-2 Page 447 of 500



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE A PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 1116214	REF. NO.	REV.
	FIGURE 5.1		

250 790 2268 PAGE.013
JUL 31 '01 09:13
INVESTIGATION KCB-2 Page 448 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

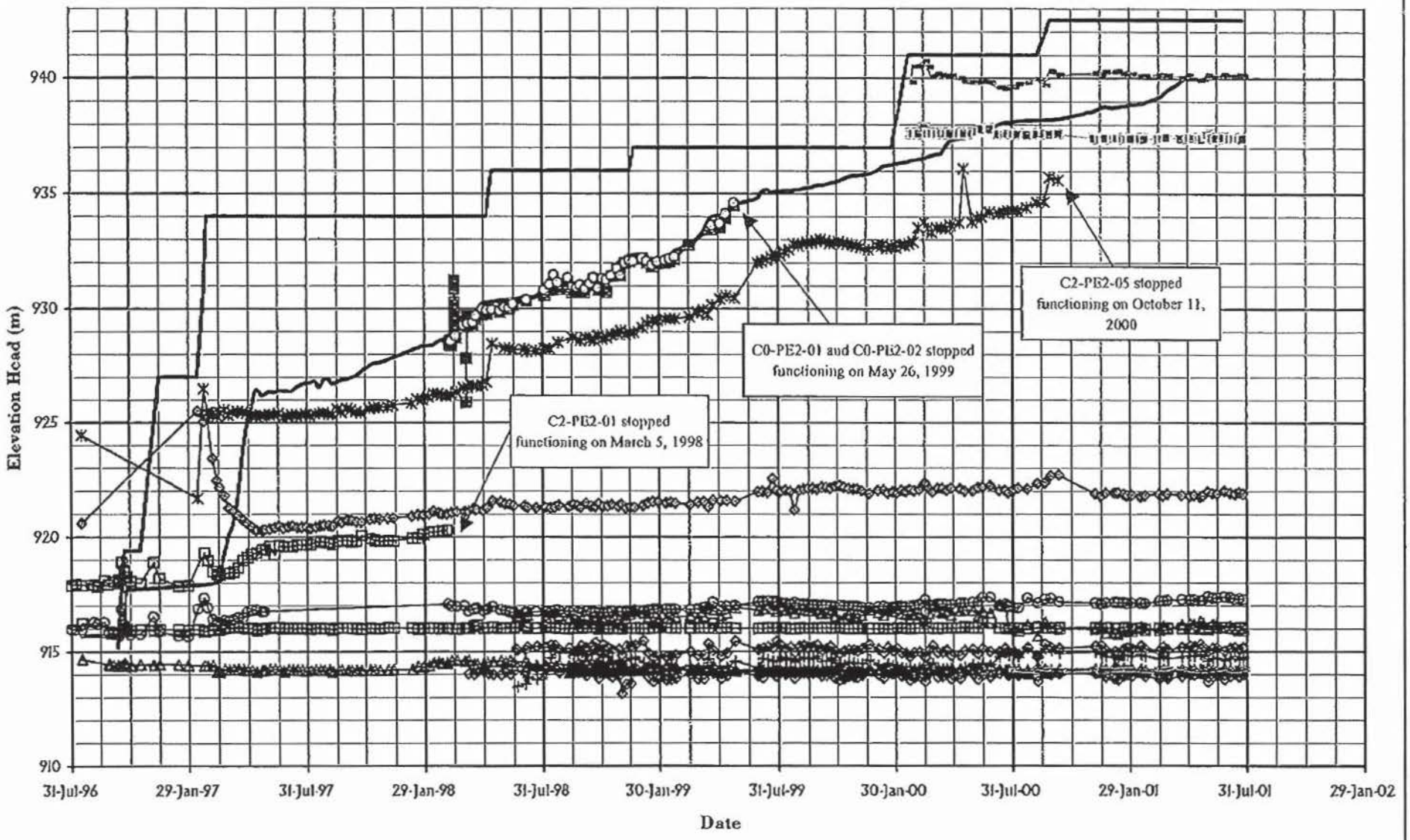
TAILINGS STORAGE FACILITY
PLANE B PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.2

250 790 2268 PAGE.014
JUL 31 '01 09:13
INVESTIGATION KCB-2 Page 449 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

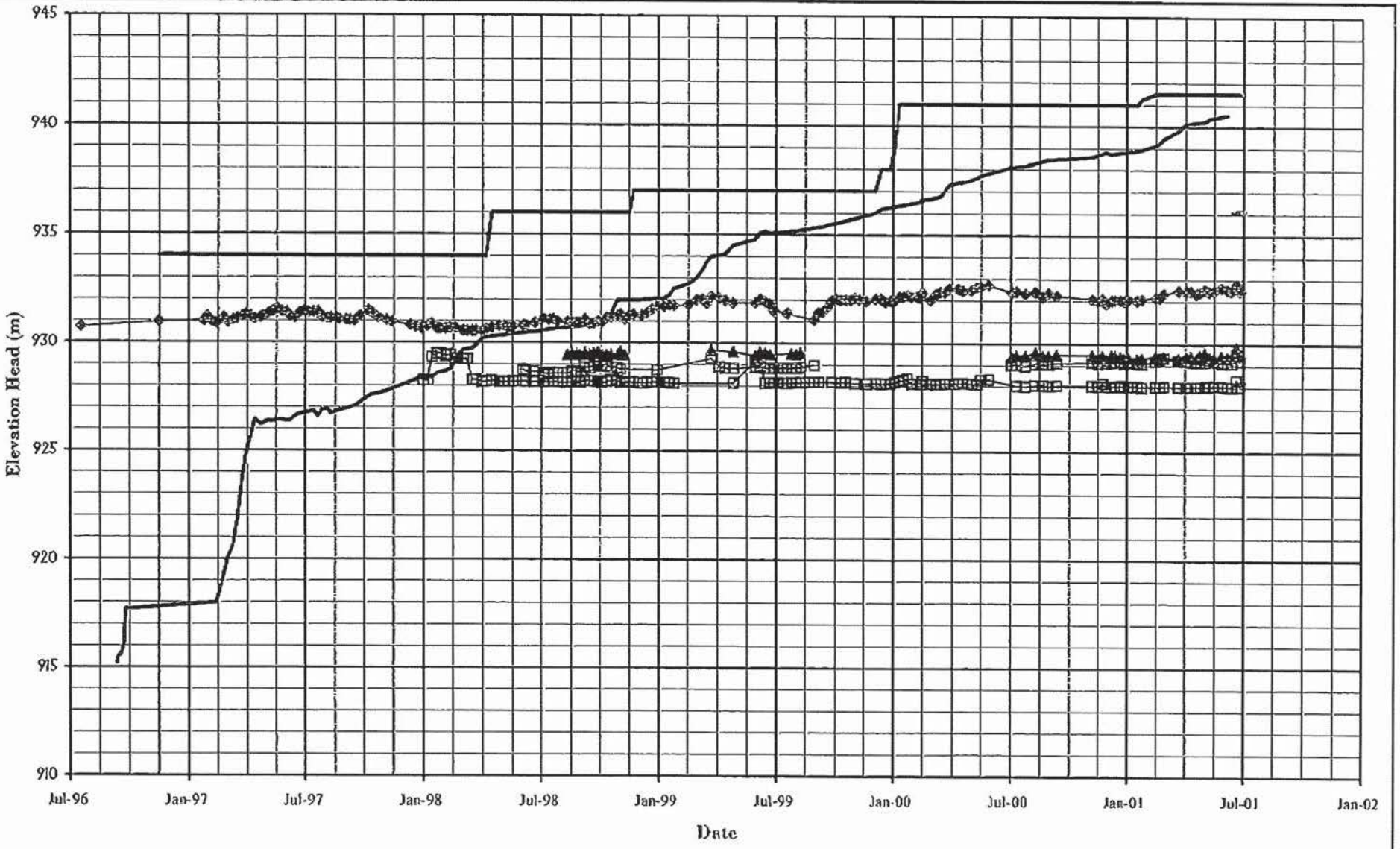
TAILINGS STORAGE FACILITY
PLANE C PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.3

JUL 31 '01 09:14 250 790 2268 PAGE.015
INVESTIGATION KCB-2 Page 450 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

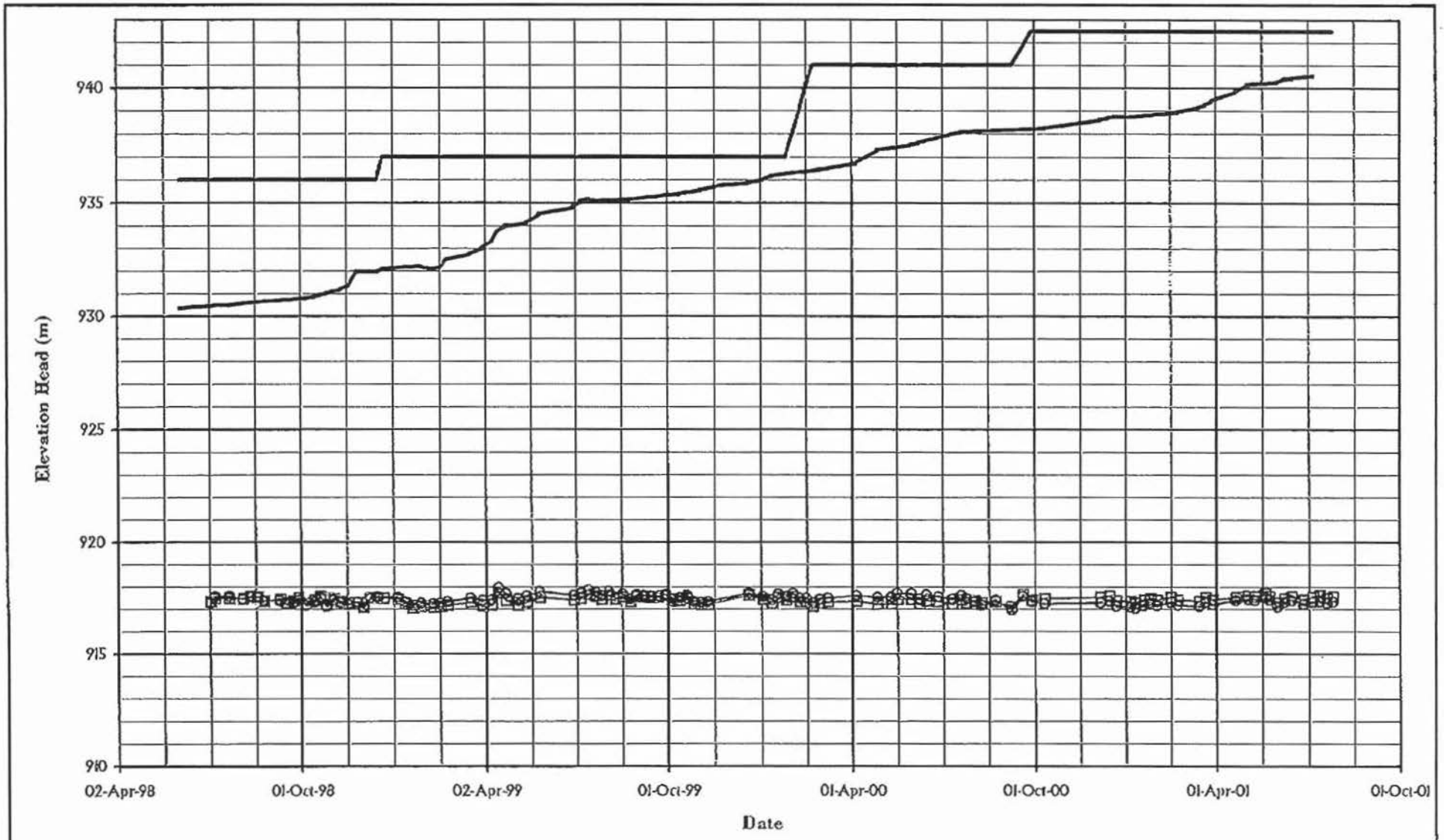
TAILINGS STORAGE FACILITY
PLANE D PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

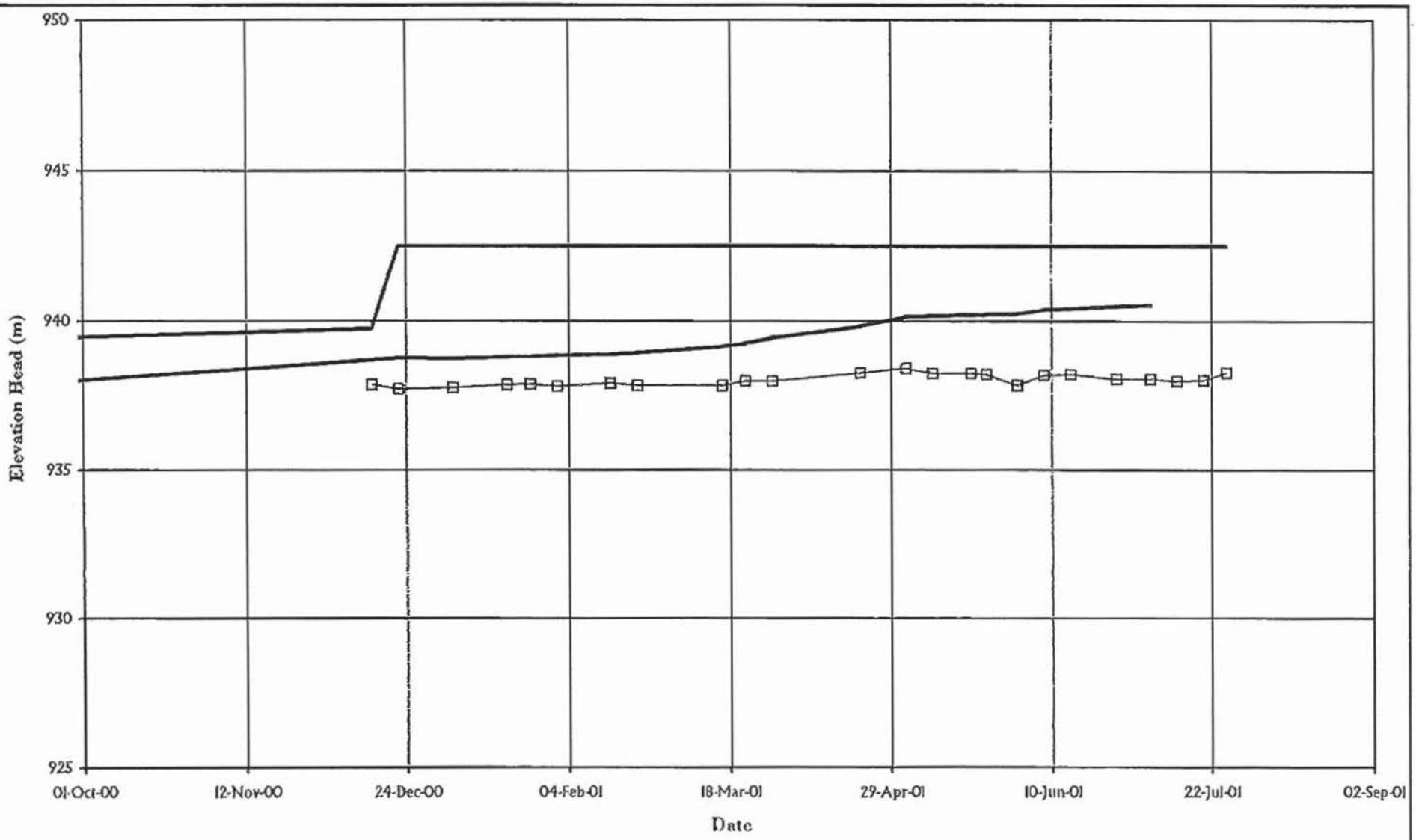
FIGURE 5.4

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INVESTIGATION KCB-2 Page 451 of 500



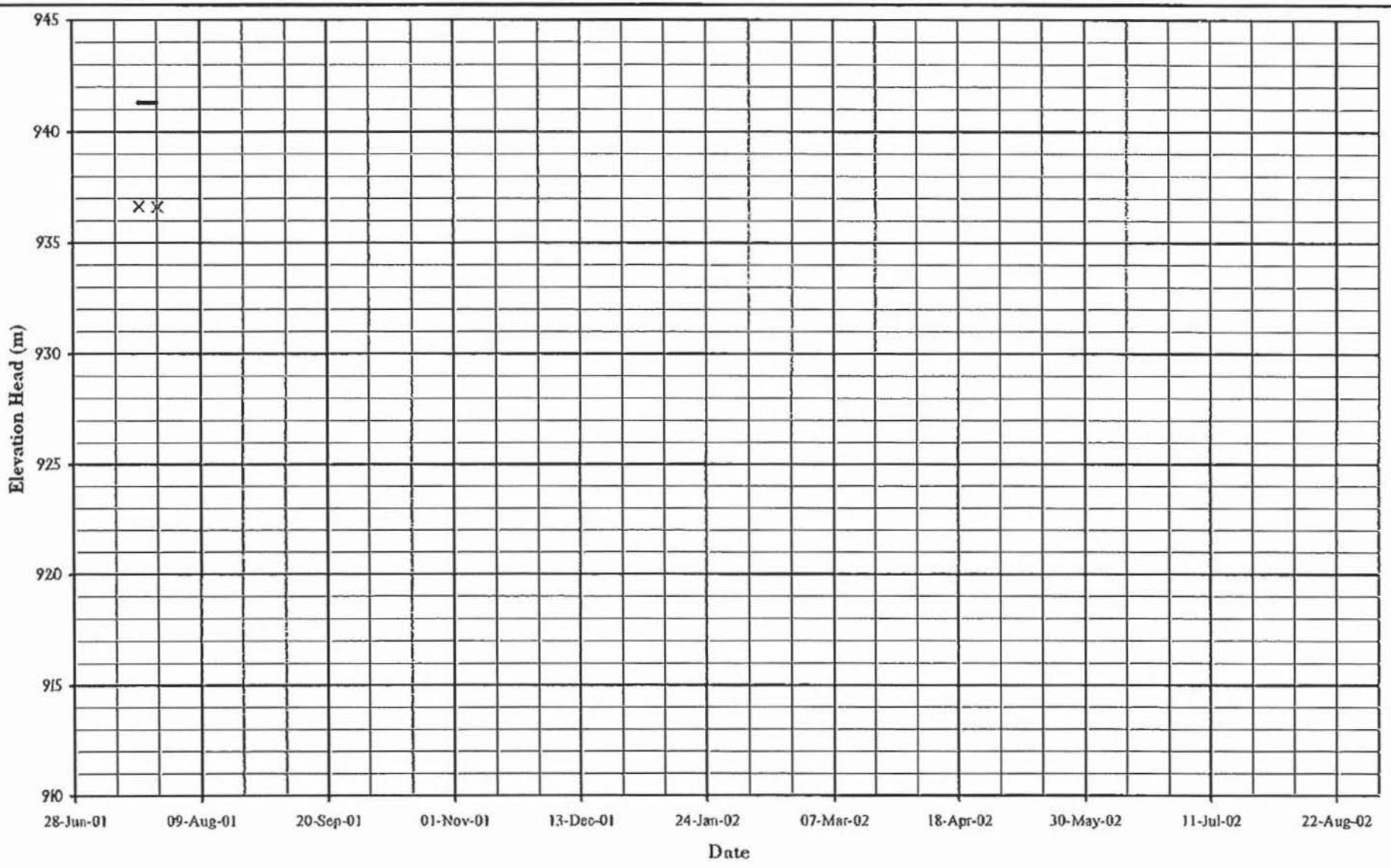
MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE E PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.5		

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INVESTIGATION KCB-2 Page 452 of 500



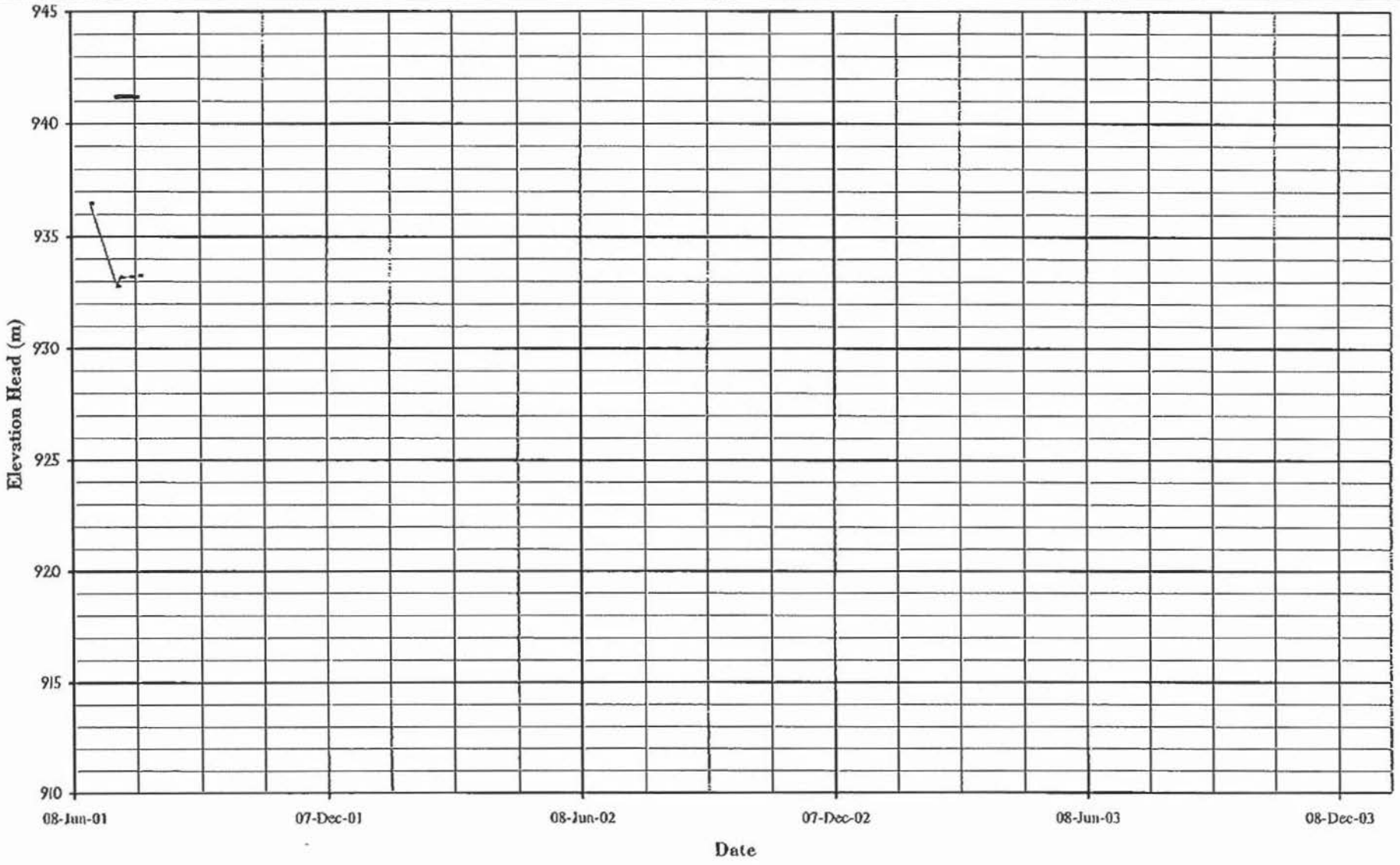
MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE F PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.6		

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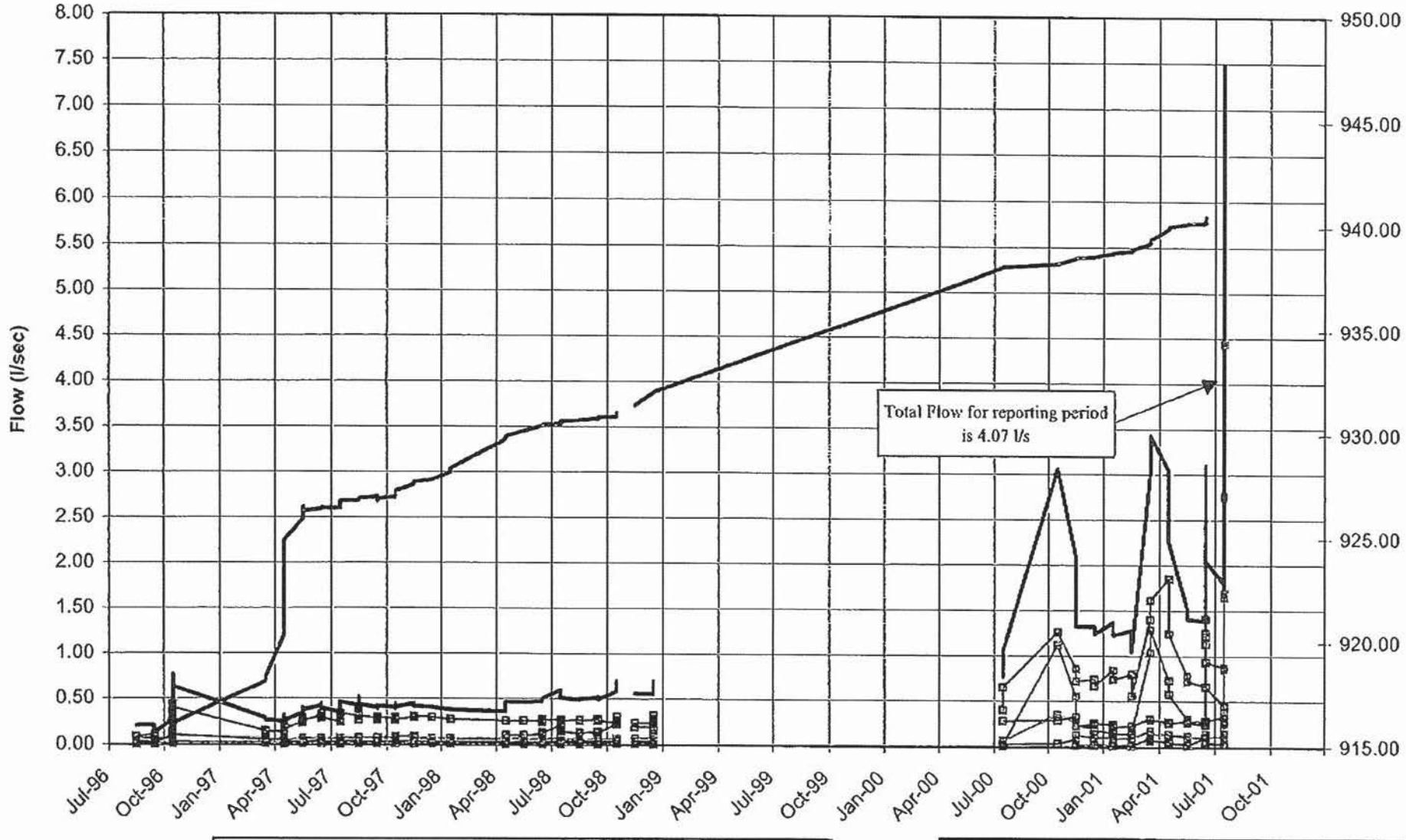
MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE G PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.7		

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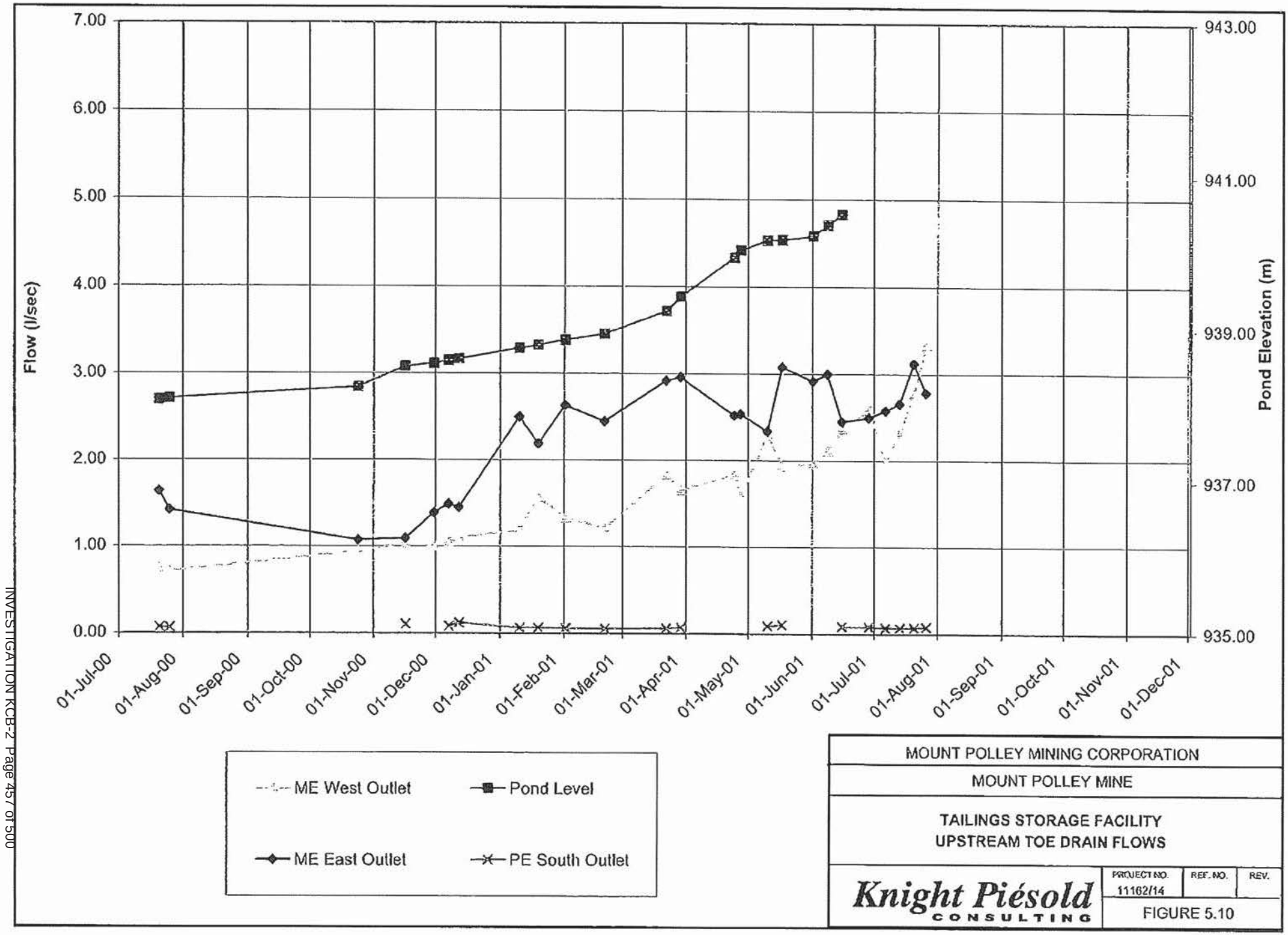
MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE H PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.8		

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MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY MAIN EMBANKMENT FOUNDATION DRAIN FLOWS			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.9		

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
UPSTREAM TOE DRAIN FLOWS

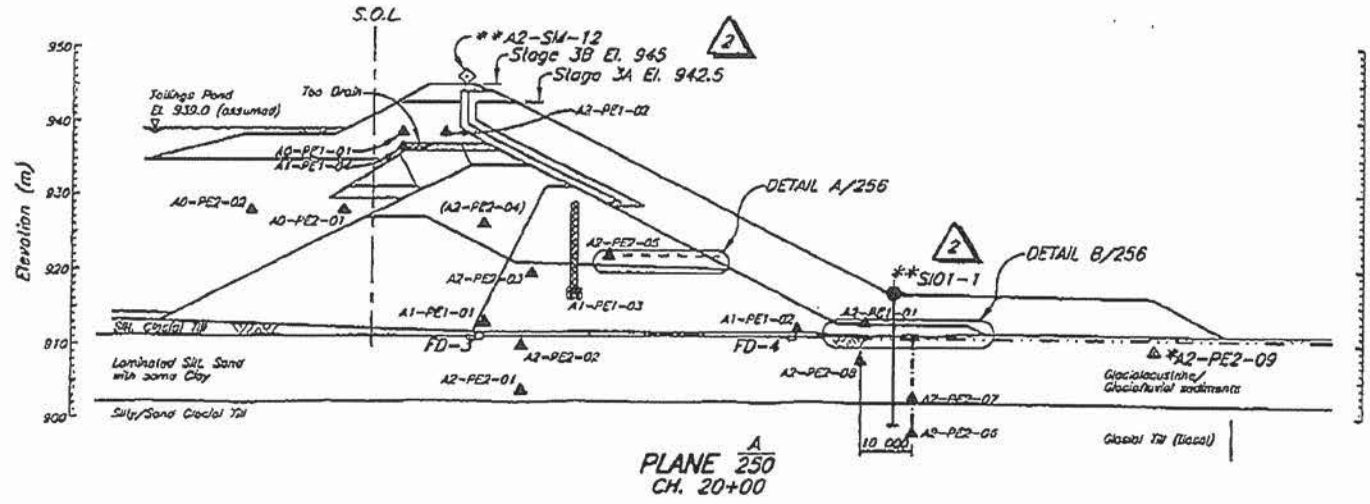
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

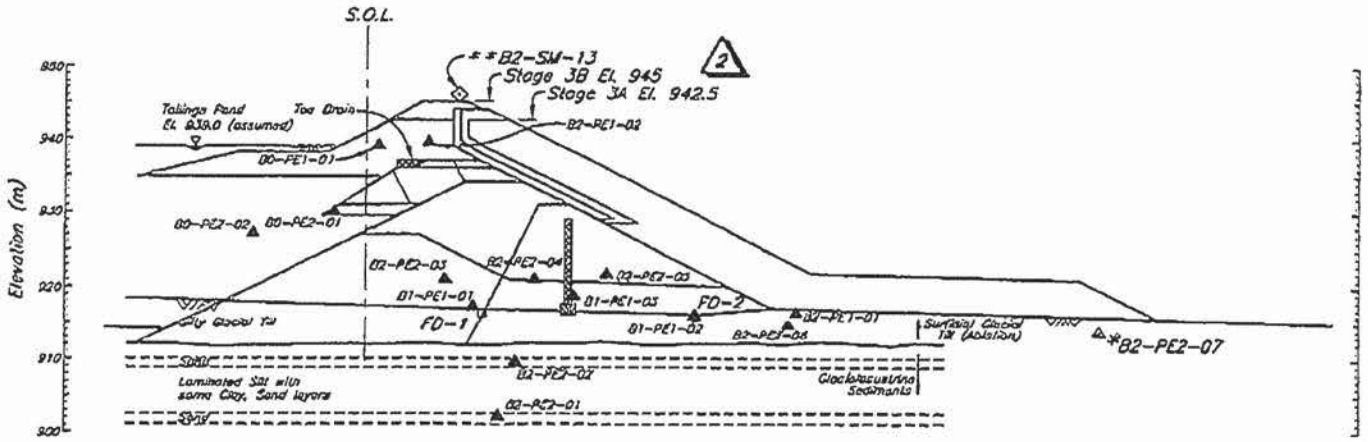
FIGURE 5.10

INVESTIGATION KCB-2 Page 457 of 500

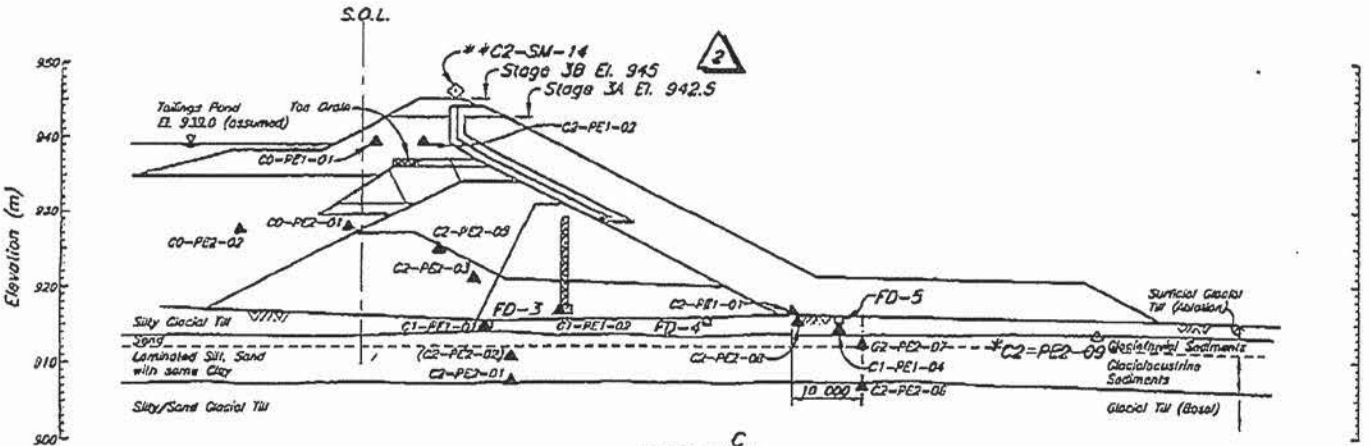
JUL 31 '01 09:16 250 790 2268 PAGE.022



PLANE A/250
CH. 20+00



PLANE B/250
CH. 22+40



PLANE C/250
CH. 18+50

STAGE 3 TAILINGS EMBANKMENT – INSTRUMENTATION – SECTIONS 2 OF 2								2	08MAY'01	ISSUED FC
STAGE 3 TAILINGS EMBANKMENT – INSTRUMENTATION – SUMMARY OF INSTALLATION & TYP. DETAILS								1	26JAN'01	STAGE 3B
STAGE 3 MAIN EMBANKMENT – INSTRUMENTATION – PLAN								0	2JUN'00	ISSUED FC
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE	
REFERENCE DRAWINGS	REVISIONS									

JUL 31 '01 09:16 250 790 2268 PAGE.024

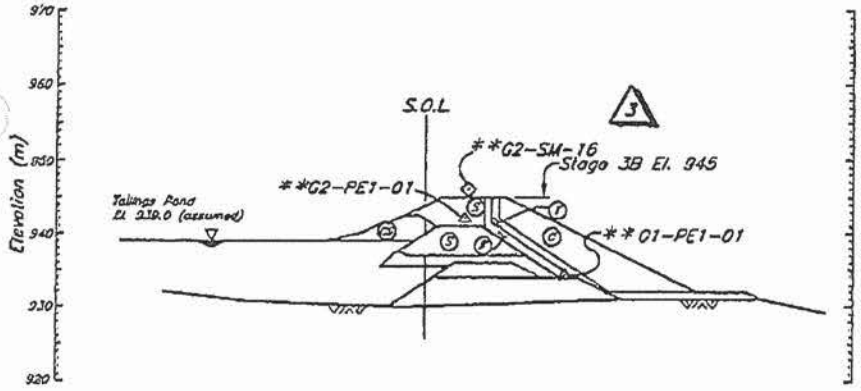
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CH. 39+86

PLANE $\frac{E}{250}$
CH. 17+60

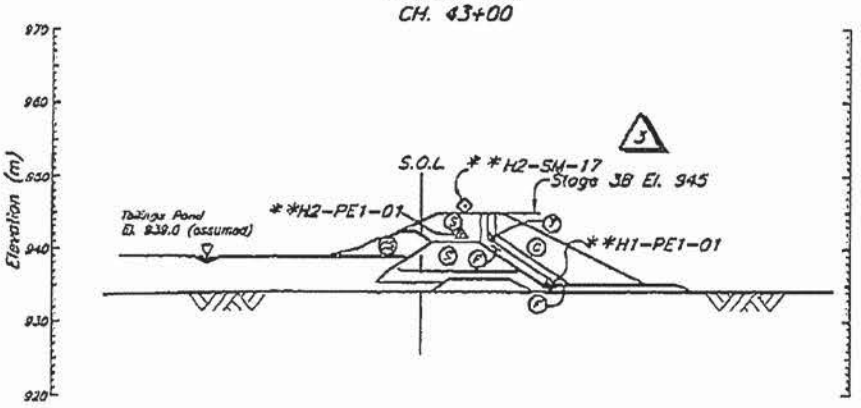
PLANE $\frac{F}{254}$
CH. 7+19

E 3 TAILINGS EMBANKMENT – INSTRUMENTATION: SUMMARY OF INSTALLATION & TYPICAL DETAILS									3	08MAY'01	ISSUED FO
STAGE 3 TAILINGS EMBANKMENT – SOUTH EMBANKMENT – INSTRUMENTATION PLAN									2	26JAN'01	STAGE 3B
STAGE 3 PERIMETER EMBANKMENT – INSTRUMENTATION PLAN									1	20OCT'00	PERIMETER
STAGE 3 TAILINGS EMBANKMENT – MAIN EMBANKMENT – INSTRUMENTATION PLAN									0	2JUN'00	ISSUED FO
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE		
REFERENCE DRAWINGS	REVISIONS										

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PLANE $\frac{G}{251}$
CH. 43+00



PLANE $\frac{H}{251}$
CH. 36+00

NOTE

1. See Org. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.

Scale 10 0 10 20 30 40 50 m

VANCOUVER B.C. CAD FILE: K:\11162\13\Cross\Dwg\0153\0153.dwg 1:500 PLOT 1:1(F25) May 8, 2001 mid

REVISIONS	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
	FOR STAGE 3B TENDER	CWM	DSR	JRK	KJB
	3B - CREST ELEVATION 945	JRK	AW	JMTW	KJB
	ER EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW	KJB
	FOR CONSTRUCTION	JRK	TAM	ABW	KJB

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA C.W. MUTR

DESIGNED JRK | CHECKED ABW
DRAWN DSR | APPROVED KJB

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT INSTRUMENTATION
SECTIONS - SHEET 2 OF 2

Knight Piésold CONSULTING

SCALE AS SHOWN | REVISION 3
DRAWING NO. 11162-13-259

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JUL 26 '01 16:40

Knight Piésold
CONSULTING

Mount Polley Site Office *Fax: (250) 790-2268*
www.knightpiésold.com

DATE:	July 24, 2001	**FILE NO.:**	11162/14.F01/.F02/ /.F04/.F05/.F08
TIME:		**REF NO.:**	01-23
OPERATOR:		**PAGES:**	1 of 21
SENDER:	s.22		

TO:	Ministry of Energy and Mines, Victoria B.C. **FAX :** 250-952-0481
ATTN:	Chris Carr
CC:	Ken Brouwer, KP Vancouver Don Parsons / Eric LeNeve, MPMC Site
SUBJECT:	Progress Report No. 15

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 15 from July 16 to July 22, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,

s.22

Knight Piésold Consulting

MINISTRY OF
ENERGY AND MINES
REC'D JUL 2 7 2001

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION PROGRESS REPORT NO. 15 – JULY 16 TO JULY 22, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out this work with the exception of filter sand hauling between the millsite and the TSF, which is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Charlie O'Hara General Foreman
- Site Foreman
- s.22 Site Foreman

1.2 CONTRACT DEVELOPMENTS

No new contract developments occurred over the reporting period.

1.3 DESIGN DEVELOPMENTS

No new design developments occurred during the reporting period.

1.3 WEATHER

Conditions were generally rainy with cloudy periods during the reporting period. Maximum daytime highs reached about +20 °C and nightly lows sank to as low as +7 °C.

1.4 SAFETY

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A haul truck came into contact with a power line while dumping on July 16. No injuries took place and no damage occurred to either the power line or the haul truck. However, power to the mill was shut down for several hours to affect the required checks.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 26+00 to obtain a well developed, even beach at the Main Embankment. The tailings line will then be moved to the ridge between the Main and South Embankments. It is anticipated that tailings will form a substantial beach in this area by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Hitachi EX 400
- Haul Trucks: 2 Caterpillar 777 85T
- Loaders: 1 Caterpillar 992B
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K, 1Caterpillar D7G
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks

MPMC carried out the following activities during the reporting period:

- Placement of Zonr F fill, Perimeter Embankment: Ch. 32+00 to 33+50, 40+00 to 40+50 and 43+00 to 43+25, El. 932 to 940.5 m.
- Placement of Zone T fill, Perimeter Embankment: Ch. 32+00 to 33+50, 40+00 to 40+50 and 43+00 to 43+25, El. 932 to 940.5 m.
- Placement of Zone C fill, Perimeter Embankment: Ch. 43+00 to 43+50, El. 934 to 936 m.
- Cleaning of existing slopes in preparation for Zone F material.
- Sloping of the existing Zone C to a 2H:1V slope.
- Development of the Rock Borrow for Zones T and C materials.

Zones T and C were supplied from the Rock Borrow, while Zone F was delivered from the stockpile at the millsite. Zone F was placed in a 1 m thick lift on the downstream embankment slope over stiff Zone S, Zone T was placed upon Zone F in a 1 metre thick lift and Zone C was placed in 1 m thick, horizontal lifts.

SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

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CONSULTING

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones F, T and C.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- R-ZF-38

The Zone F record test completed during the reporting period proved suitable Zone F fill.

All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING

5.1 GENERAL

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

Piezometers D1-PE1-03 and G1-PE1-01 were installed over the reporting period. Both are situated in the Zone F fill. The locations of these new piezometers are presented in the attached Drawings.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.8. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the remaining foundation piezometers with the exception of D2-PE2-01, which increased slightly.

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. Generally, these piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on July 20, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.9 and 5.10, respectively. The flows from the foundation drains were quite high, reflecting the large amount of rainfall that occurred during the reporting period.

5.4 SLOPE INCLINOMETERS

The equipment to monitor, record and evaluate the data from the slope inclinometers is expected to be on site during the first week of August. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

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SECTION 6.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 942.5 m.
- The slope inclinometers will be measured and calibrated.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,

s.22

Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

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TABLE 4.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
ZONE F RECORD TEST SUMMARY SHEET

H:\ENGDATA\Eng\Geot\Geotechnical\Active\Stage 3B Construction\lab\record\[R-ZF-summ.xls]Data Sheet

Knight Piésold CONSULTING

SHEET: 1 of 1
PERIOD: July 16 to July 22, 2001
PROJECT NO.: 1162/14
AREA: TSF

PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
MATERIAL: Zone F - Filter Sand

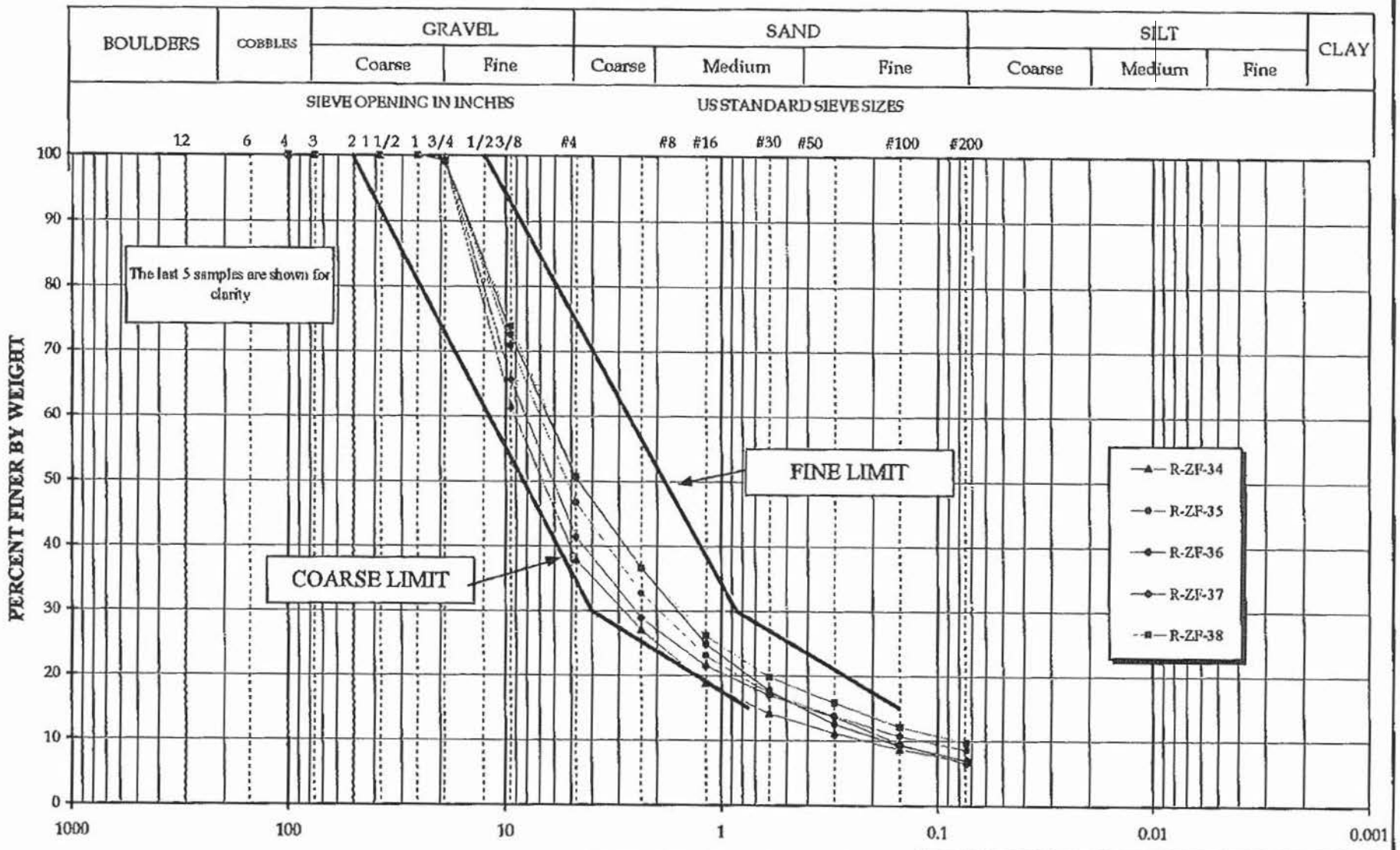
Sample No.	Date Sampled	Location	El. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Field m/c %	LI %	C3 (Particle Size Distribution) 101.6 mm	76.2 mm	38.1 mm	25.4 mm	19.05 mm	9.525 mm	4.75 mm	2.36 mm	1.18 mm	0.6 mm	0.3 mm	0.14986 mm	0.07346 mm	0.002 mm	C4 Standard Proctor Max Dry Density kg/m³	C4 Standard Proctor Optimum m/c %	C6 Specific Gravity
									4"	3"	1 1/2"	1"	3/4"	3/8"	#4	#8	#16	#30	#50	#100	#200	Clay			
R-ZF-31	28-May-01	29+00, 0.5 m D/S of Zone S	942.8	-	-	-	4.0	-	100.0	100.0	100.0	100.0	97.5	71.5	49.1	35.9	23.8	19.7	15.0	11.6	9.1	-	-	-	-
R-ZF-32	28-May-01	37+00, 0.5 m D/S of Zone S	936.9	-	-	-	4.1	-	100.0	100.0	100.0	100.0	98.7	68.4	44.0	31.9	22.5	16.9	12.8	9.9	7.7	-	-	-	-
R-ZF-33	11-Jun-01	42+00, 0.8 m D/S of Zone S	936.0	-	-	-	7.0	-	100.0	100.0	100.0	100.0	97.9	68.8	44.7	28.8	17.8	13.2	10.6	8.5	6.9	-	-	-	-
R-ZF-34	20-Jun-01	35+00, 0.8 m D/S of Zone S	935.0	-	-	-	8.6	-	100.0	100.0	100.0	100.0	99.2	61.5	37.8	27.0	18.7	14.0	11.0	8.6	6.8	-	-	-	-
R-ZF-35	20-Jun-01	43+00, 0.8 m D/S of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.4	70.8	46.6	33.6	23.0	17.2	13.7	10.6	8.5	-	-	-	-
R-ZF-36	10-Jul-01	33+50, 0.8 m D/S of Zone S	939.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.5	72.6	50.4	36.5	24.8	17.6	12.4	9.2	7.0	-	-	-	-
R-ZF-37	10-Jul-01	43+00, 0.8 m D/S of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.6	69.6	41.3	28.8	21.4	16.9	13.5	9.4	6.4	-	-	-	-
R-ZF-38	19-Jul-01	33+00, 1.0 m D/S of Zone S	938.0	-	-	-	8.4	-	100.0	100.0	100.0	100.0	99.4	73.8	50.6	36.5	26.1	19.7	15.7	12.0	9.6	-	-	-	-
MEAN				#DIV/0!	#DIV/0!	#DIV/0!	5.1	#DIV/0!	100.0	100.0	100.0	100.0	99.0	69.1	45.6	33.3	22.5	16.9	13.1	10.0	7.8	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
MEDIAN				#NUM!	#NUM!	#NUM!	4.5	#NUM!	100.0	100.0	100.0	100.0	99.5	69.8	45.3	32.3	22.8	17.1	13.2	9.7	7.4	#NUM!	#NUM!	#NUM!	#NUM!
MAXIMUM (*)				0.0	0.0	0.0	8.4	0.0	100.0	100.0	100.0	100.0	99.6	73.8	50.6	36.5	26.1	19.7	15.7	12.0	9.6	0.0	0.0	0.0	0.0
MINIMUM (*)				0.0	0.0	0.0	3.6	0.0	100.0	100.0	100.0	100.0	97.5	61.5	37.8	27.0	17.8	13.2	10.6	8.5	6.4	0.0	0.0	0.0	0.0

Note: These are 100% limits.
Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.
IP - In progress

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Specific Gravity (ASTM D854)

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m:\11832\2\report\2\R-ZF-summ.xls Fig A3-2 20/07/2001 2:55 PM



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F RECORD SAMPLES
GRADATION CURVES

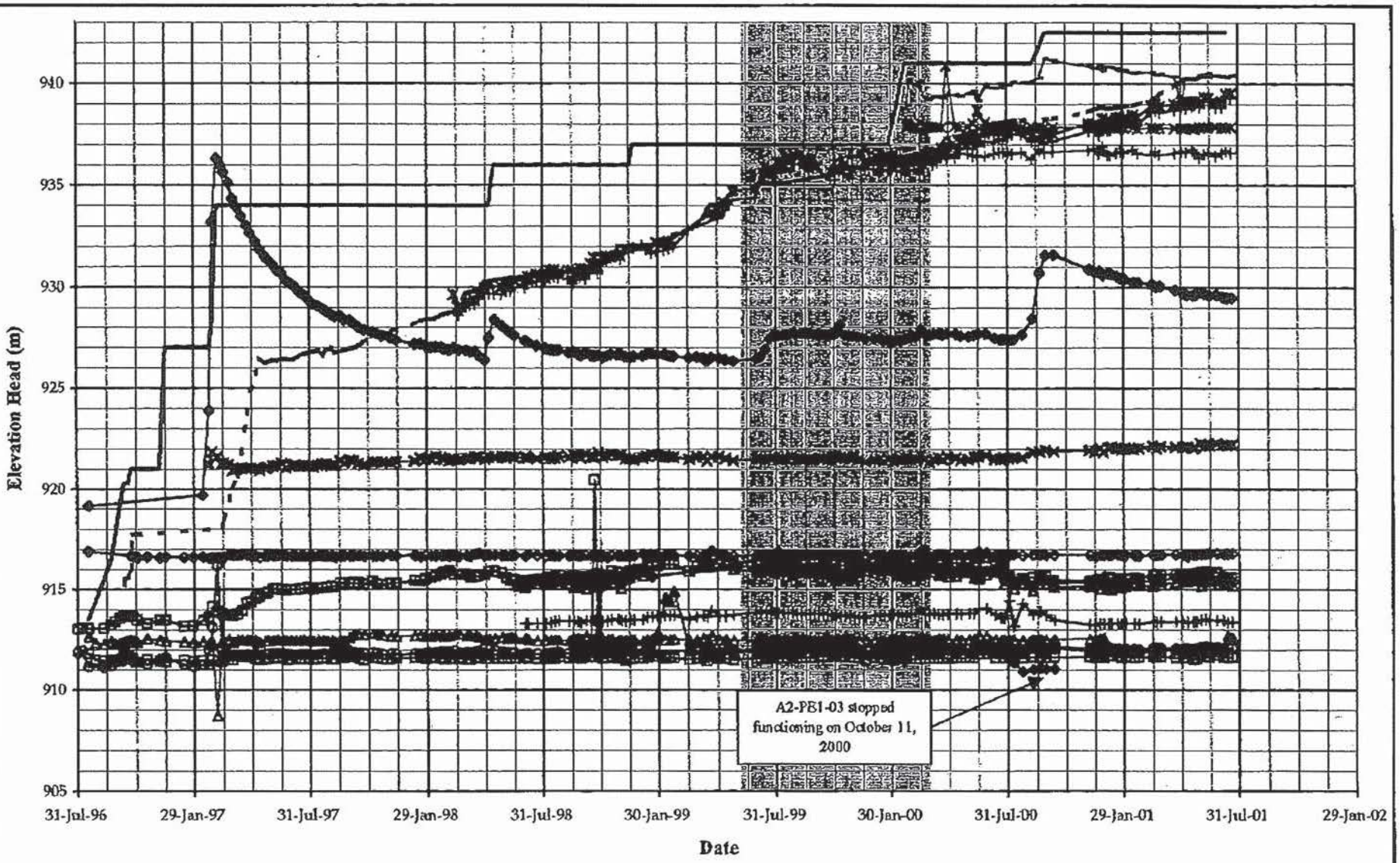
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 4.2

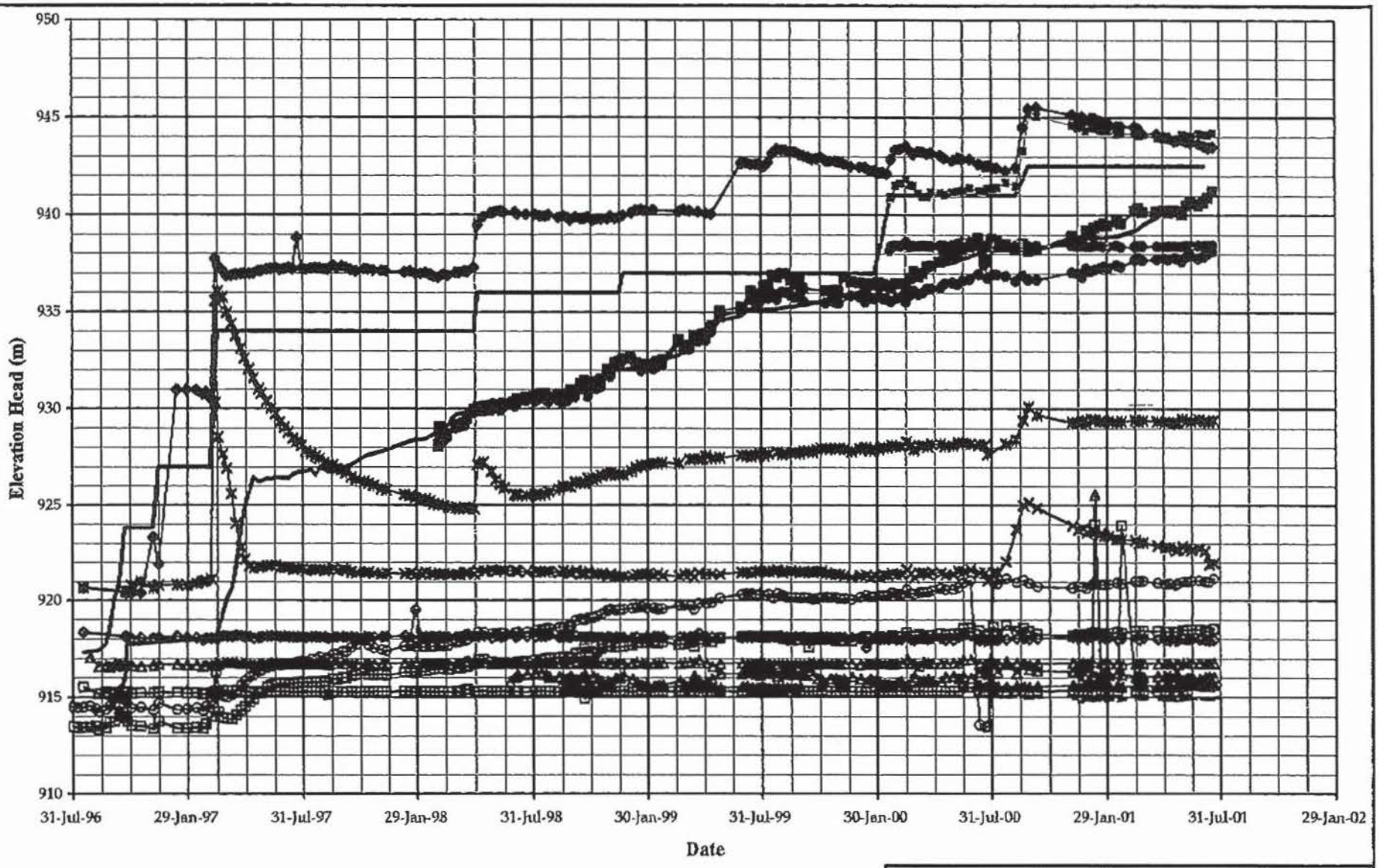
INVESTIGATION KCB-2 Page 468 of 500

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JUL 26 '01 16:42



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE A PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.1		

JUL 26 '01 16:43 250 790 2268 PAGE.009
INVESTIGATION KCB-2 Page 469 of 500



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE B PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

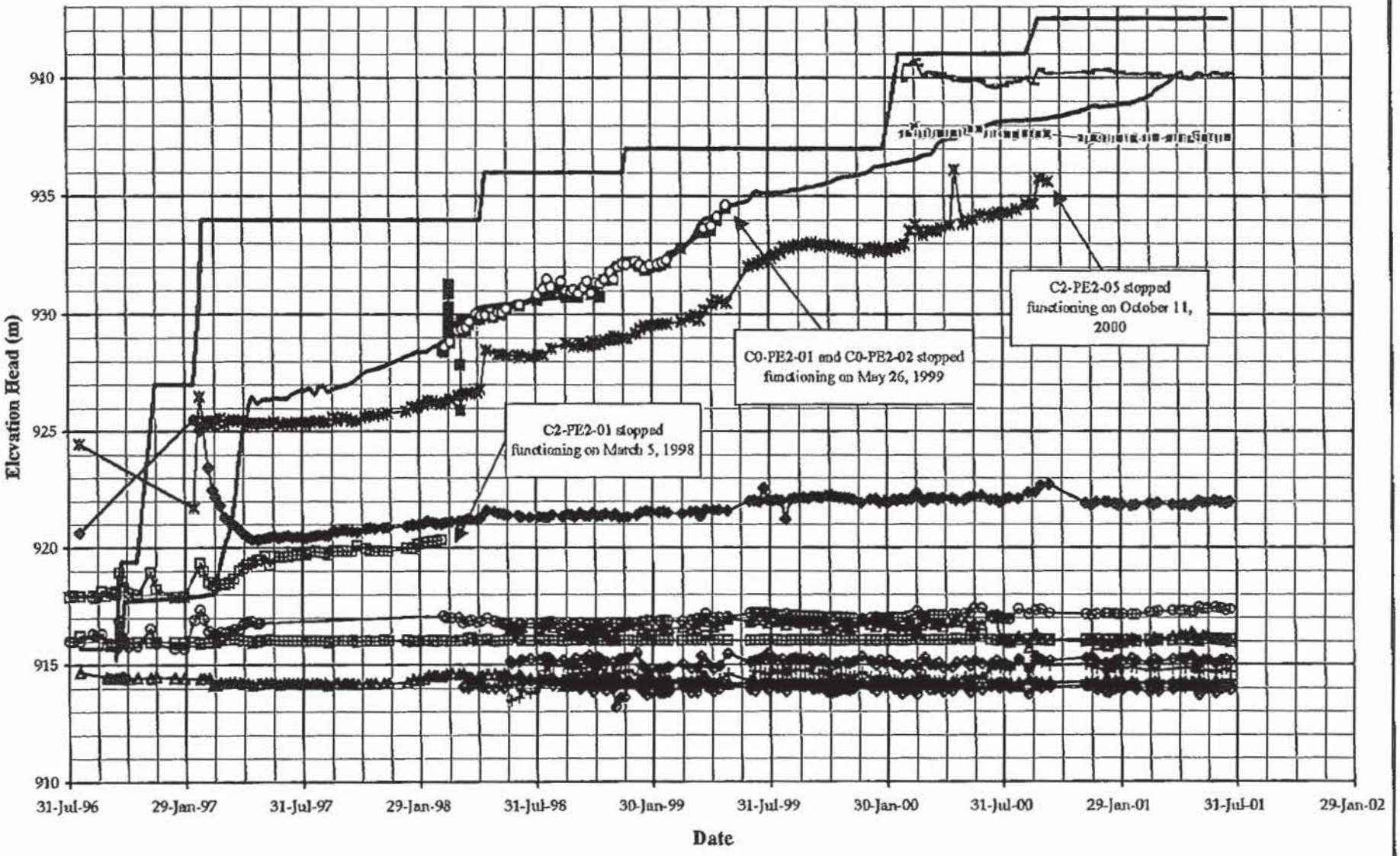
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.2

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE C PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

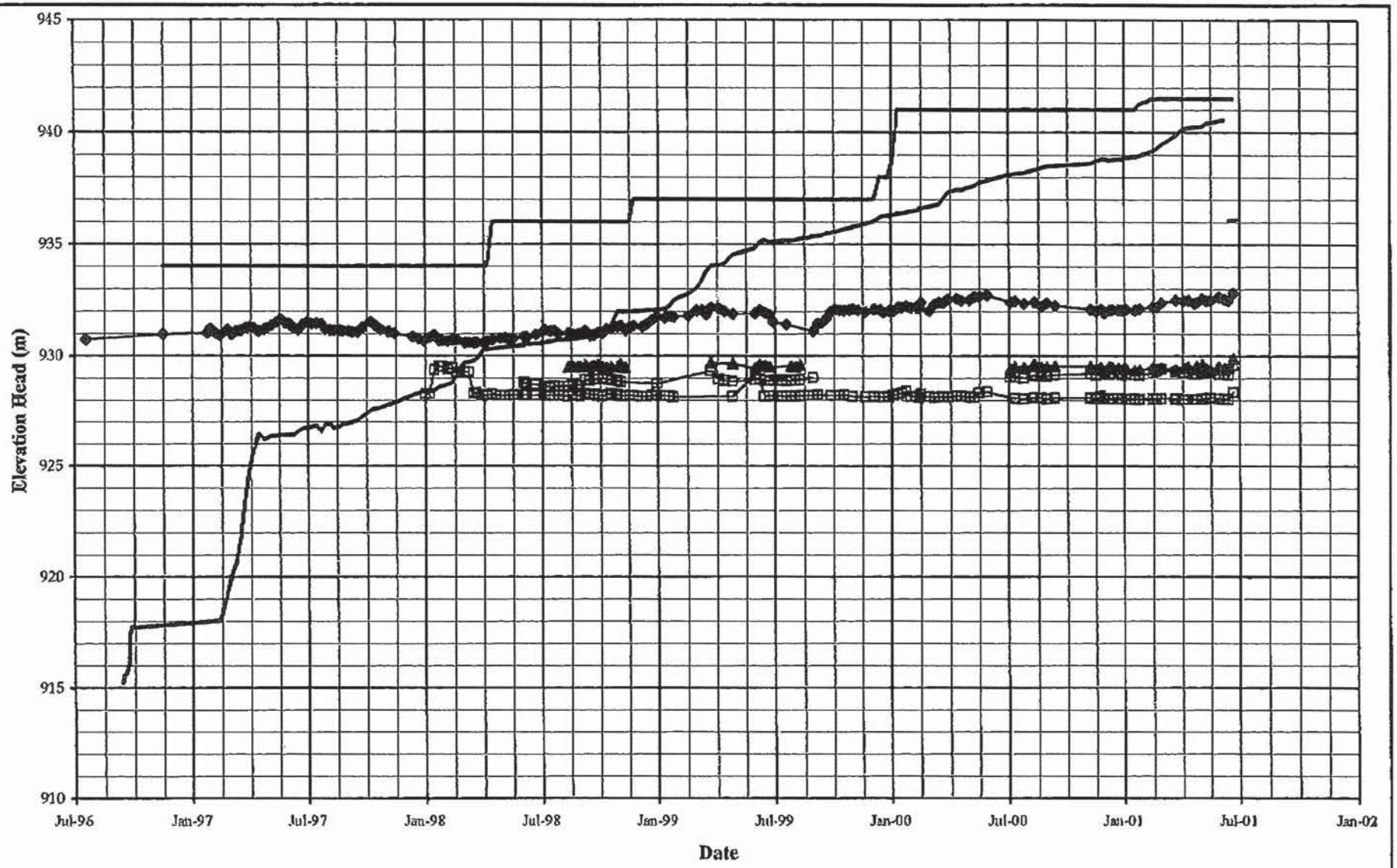
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PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.3

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE D PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

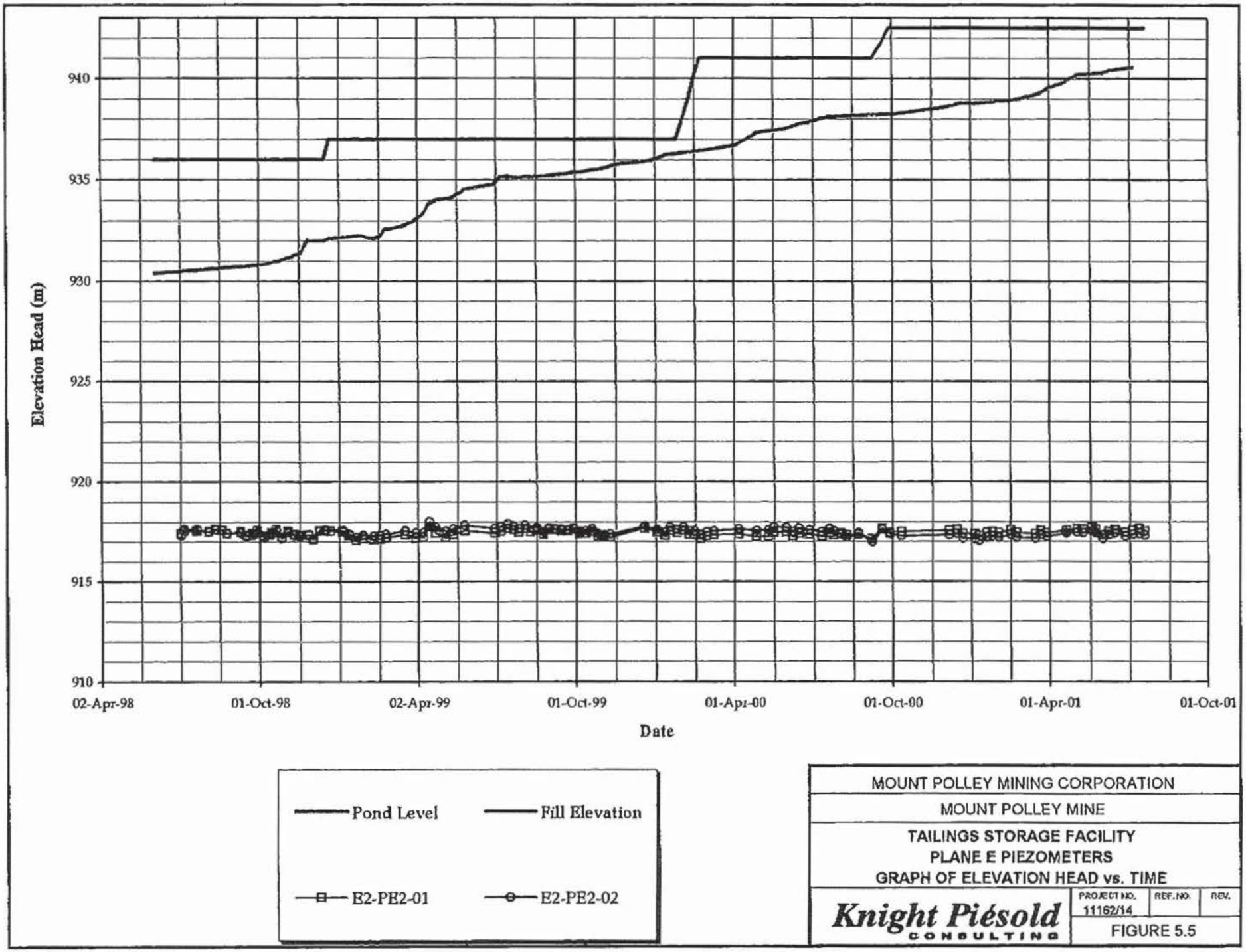
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.4

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE E PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

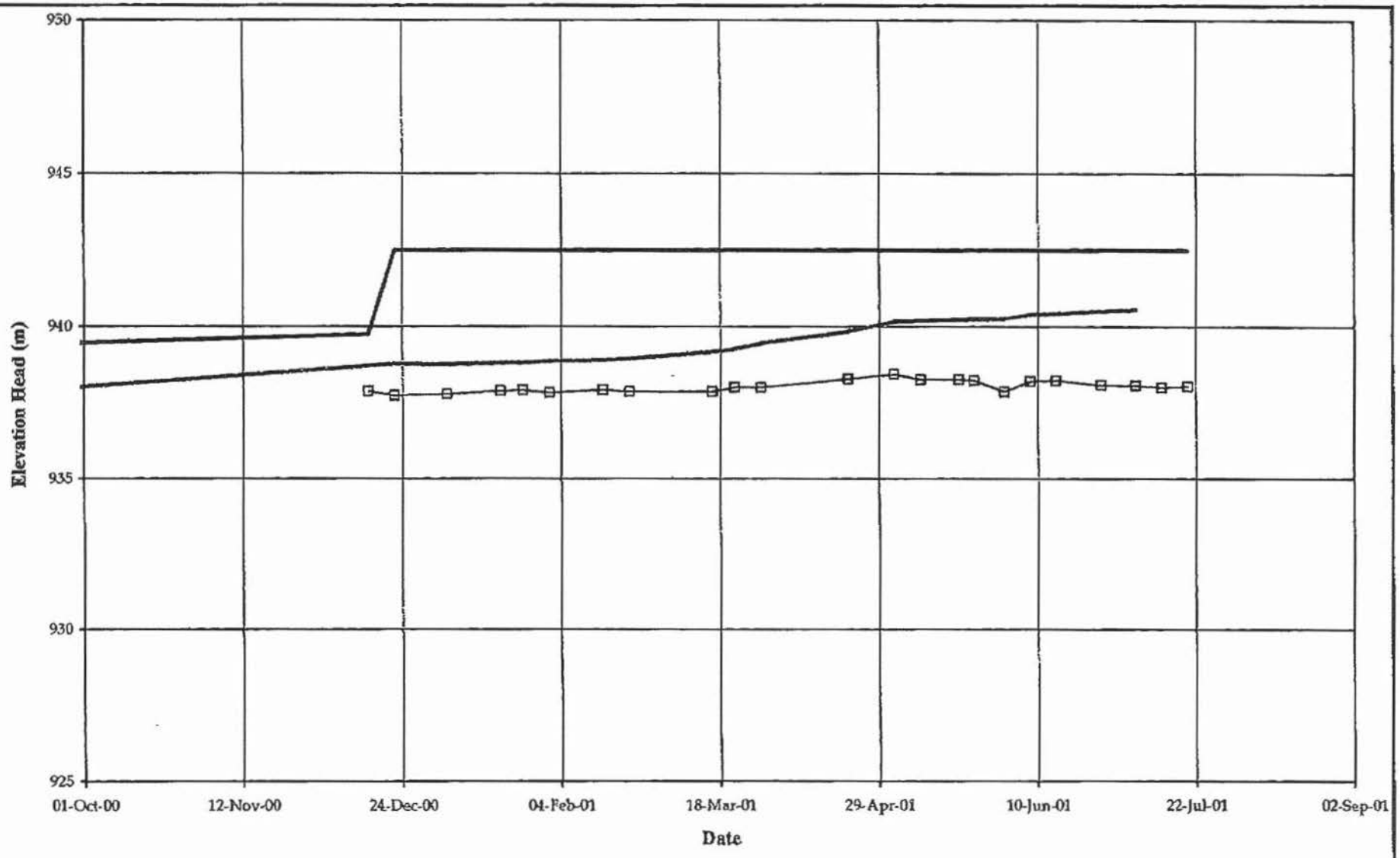
FIGURE 5.5

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MOUNT POLLEY MINING CORP. Fax # 2502

INVESTIGATION KCB-2 Page 473 of 500.

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

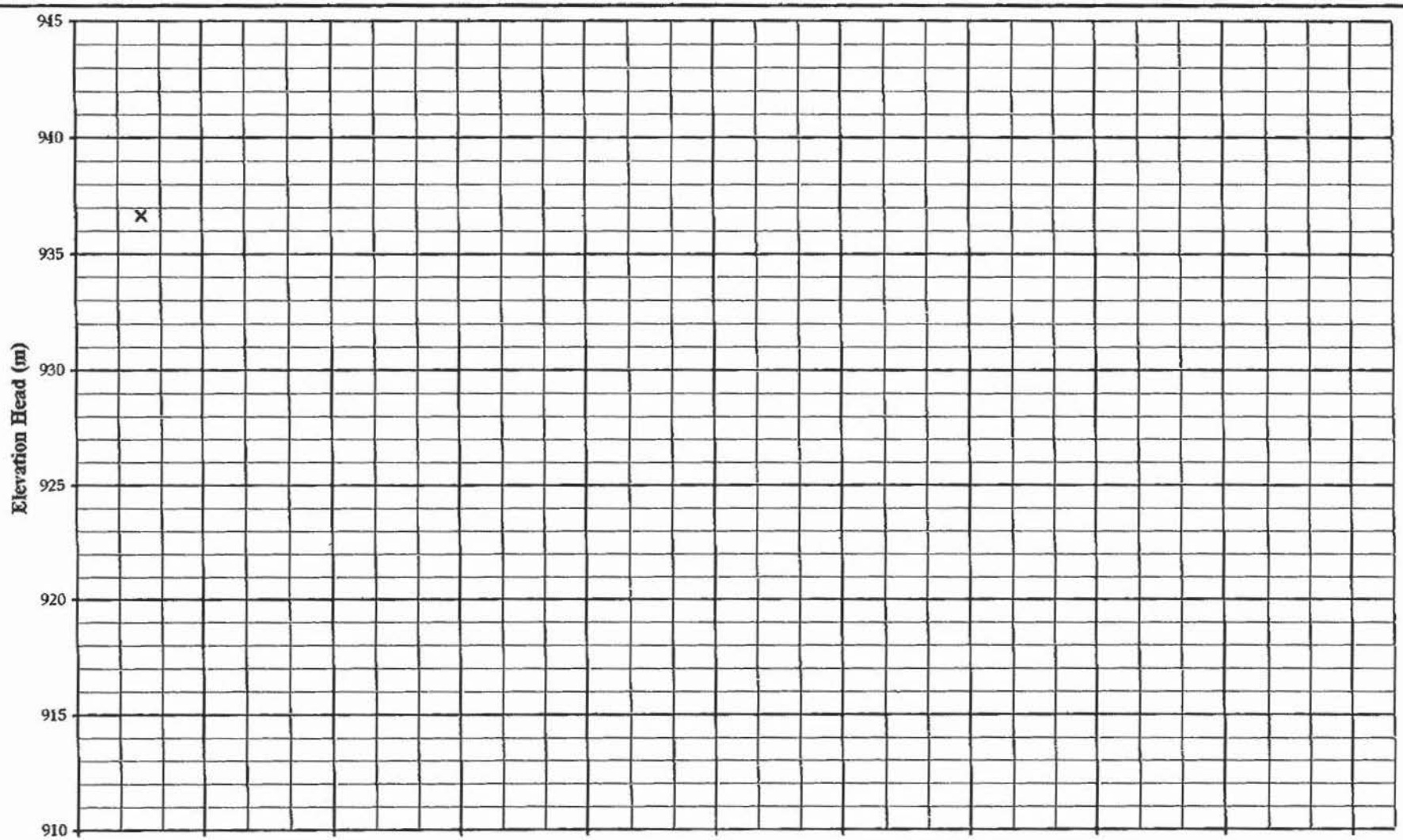
TAILINGS STORAGE FACILITY
PLANE F PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.6

250 790 2268 PAGE.014
JUL 26 '01 16:45
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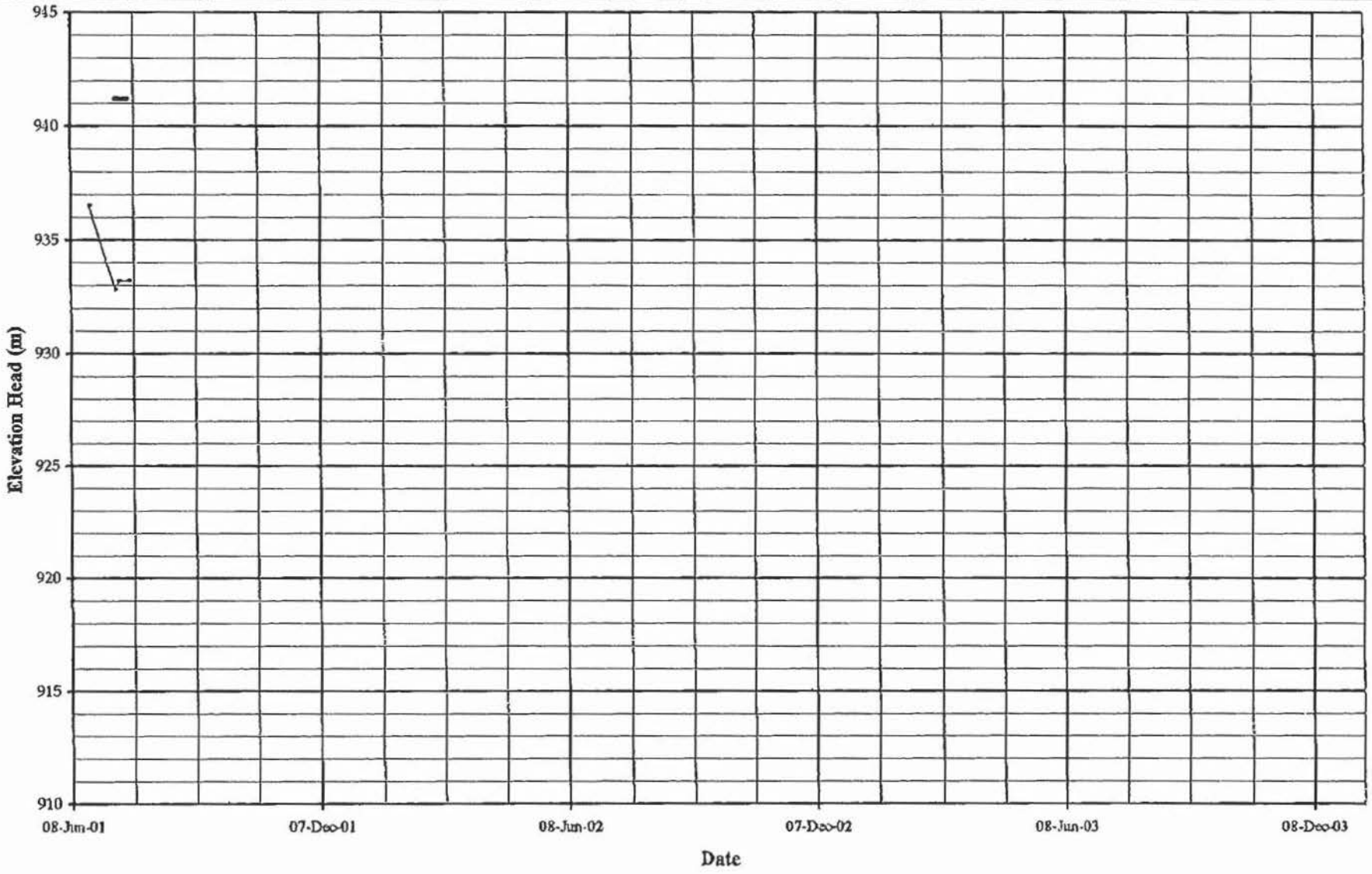
MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE G PIEZOMETERS GRAPH OF ELEVATION HEAD vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 11162/14	REF. NO.	REV.
	FIGURE 5.7		

JUL 26 '01 16:45 250 790 2268 PAGE.015

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

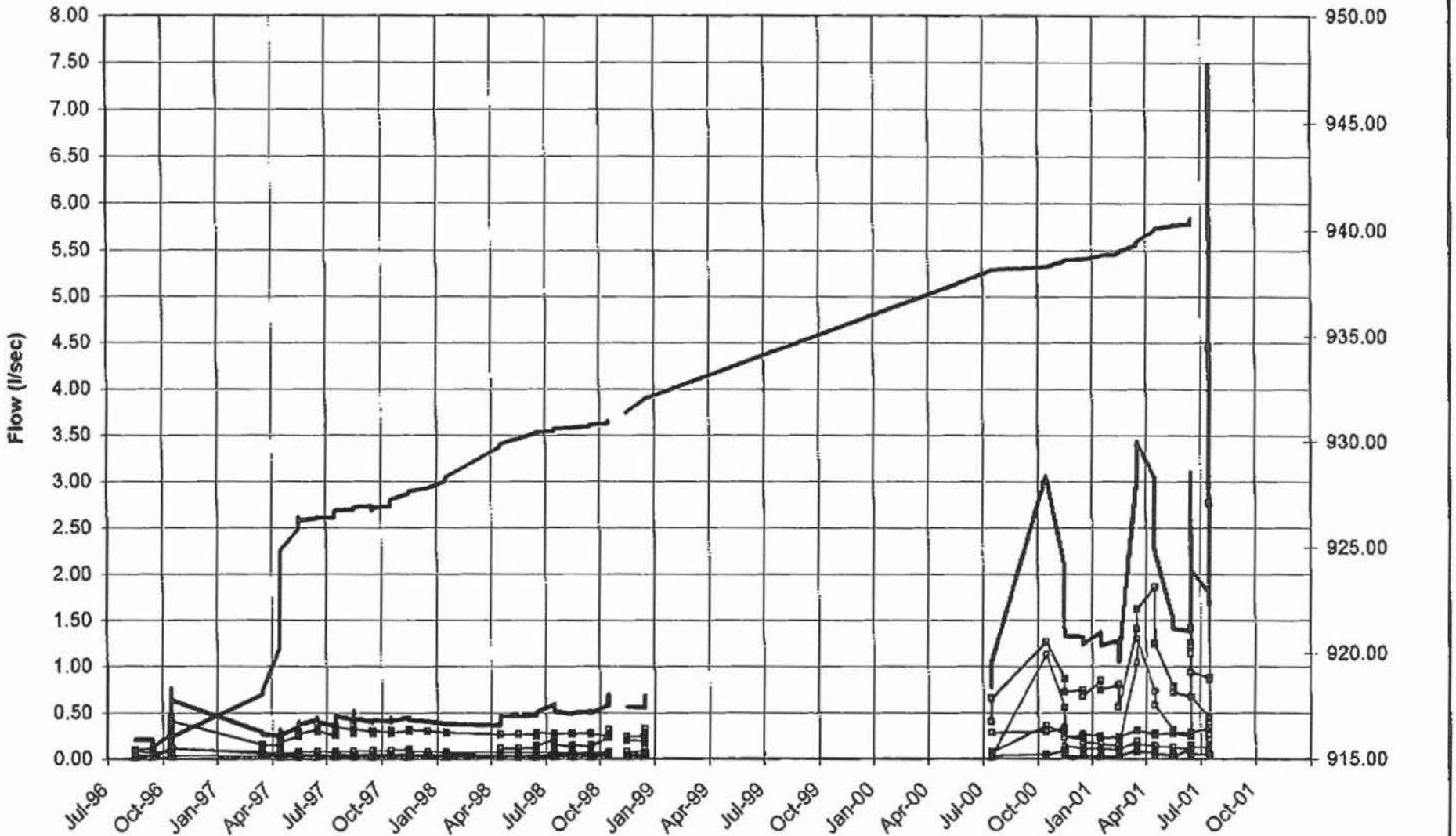
TAILINGS STORAGE FACILITY
PLANE H PIEZOMETERS
GRAPH OF ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.8

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MOUNT POLLEY MINING CORPORATION

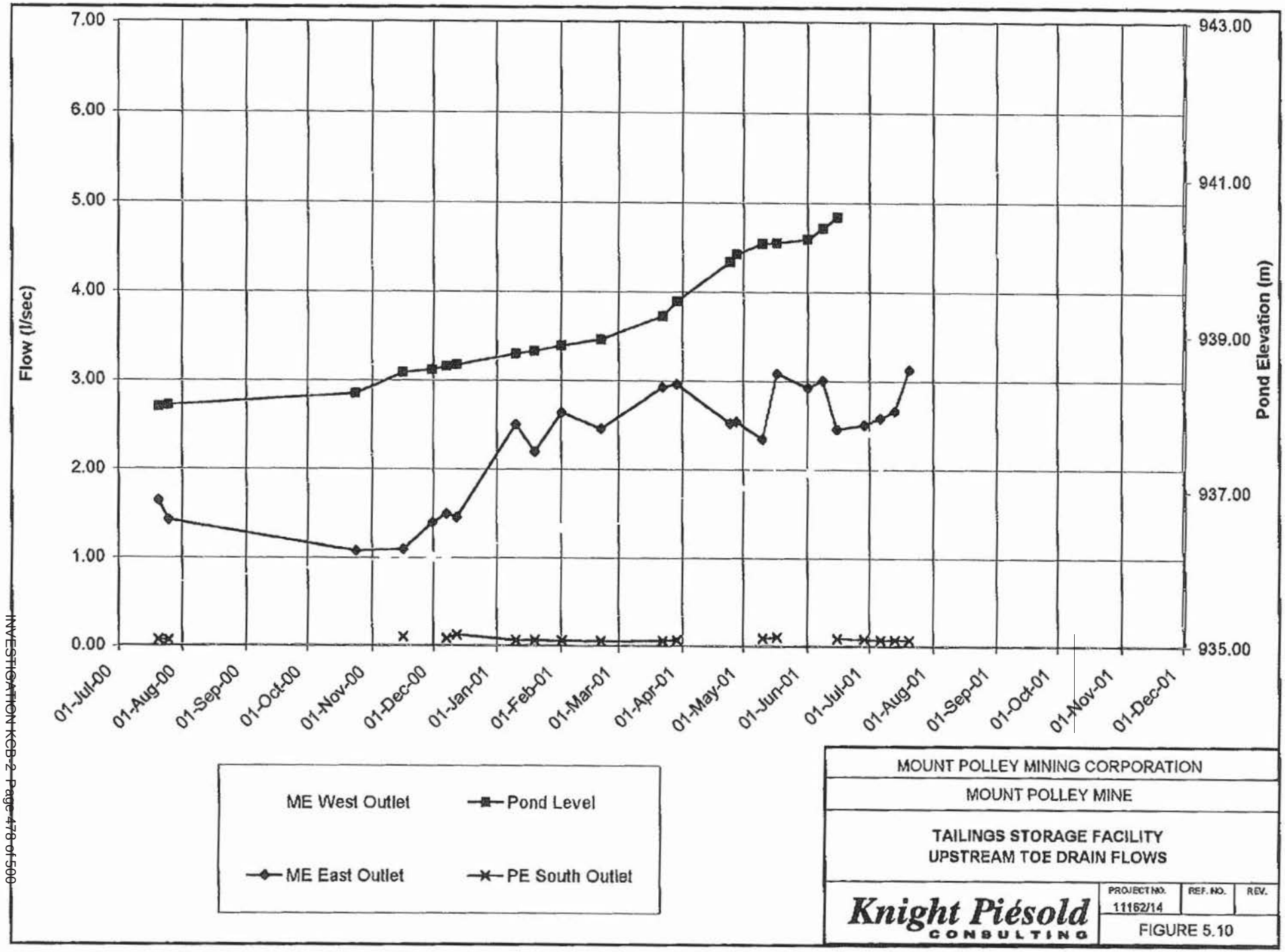
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
MAIN EMBANKMENT
FOUNDATION DRAIN FLOWS

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.9



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
UPSTREAM TOE DRAIN FLOWS

Knight Piésold CONSULTING

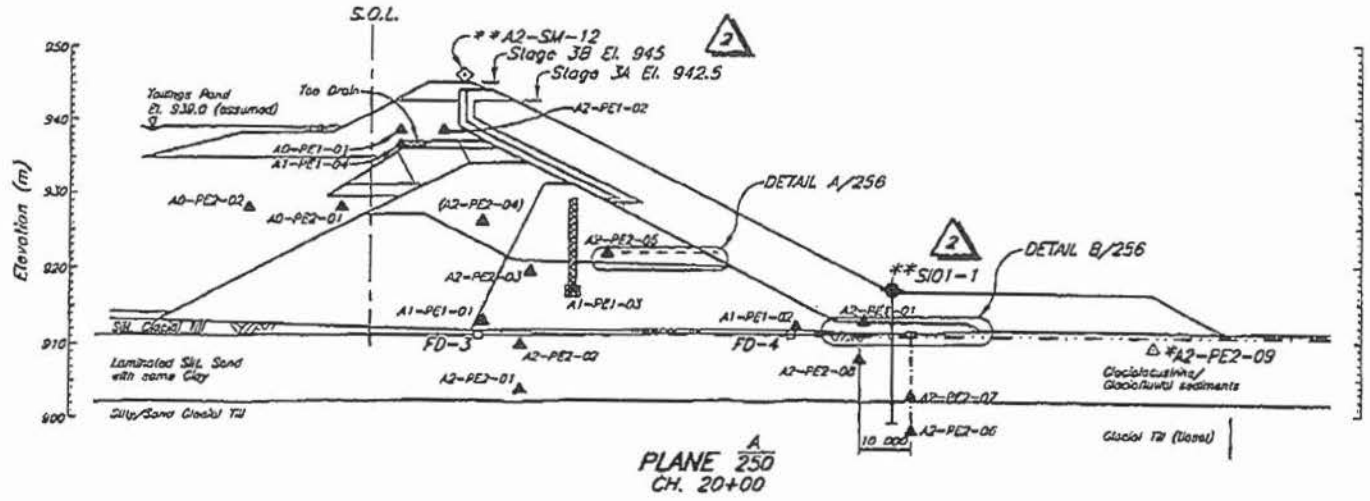
PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.10

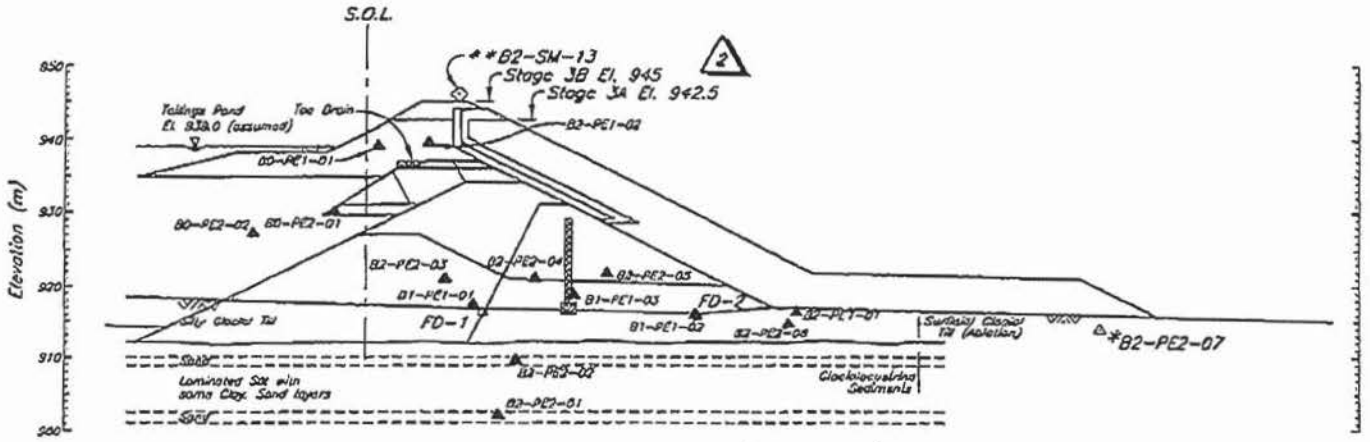
INVESTIGATION KCB-2 Page 478 of 500

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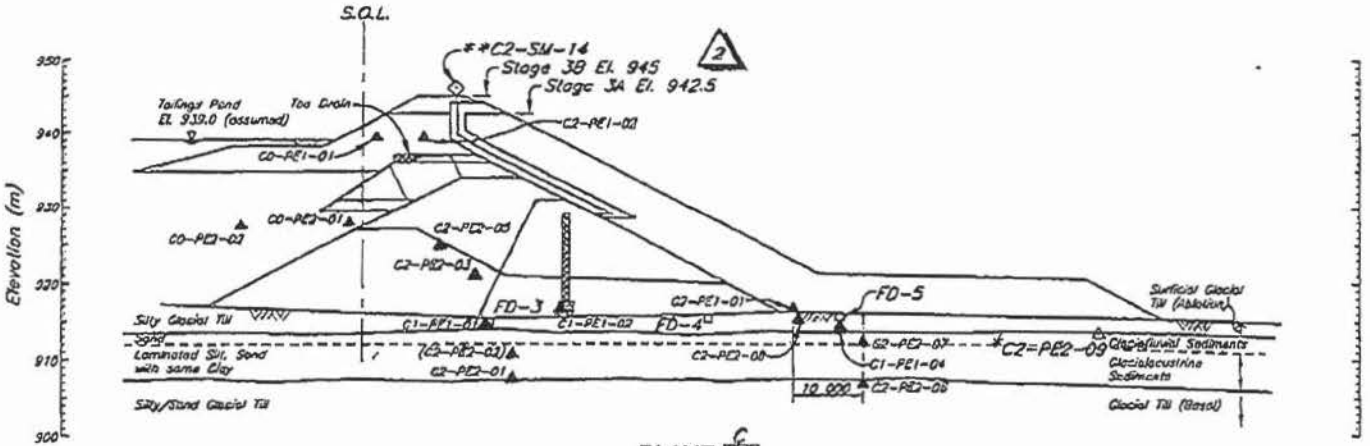
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PLANE A 250
CH. 20+00



PLANE B 250
CH. 22+40

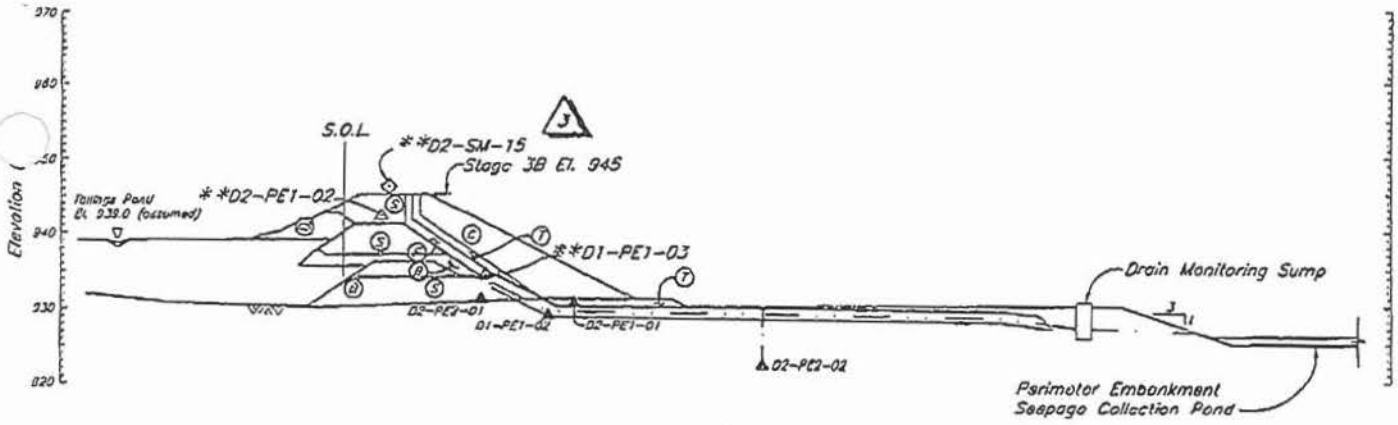


PLANE C 250
CH. 18+50

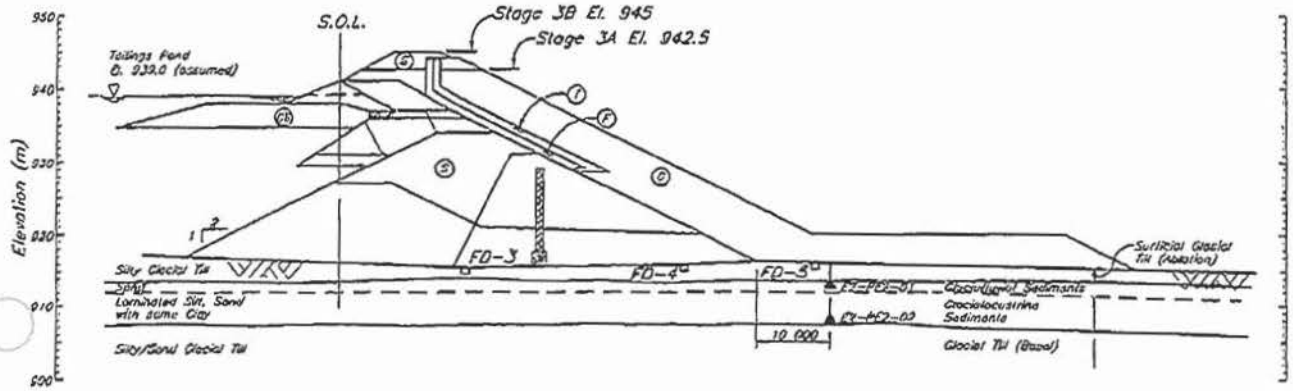
STAGE 3 TAILINGS EMBANKMENT – INSTRUMENTATION – SECTIONS 2 OF 2									2	08MAY'01	ISSUED FC
STAGE 3 TAILINGS EMBANKMENT – INSTRUMENTATION – SUMMARY OF INSTALLATION & TYP. DETAILS									1	26JAN'01	STAGE 3B
STAGE 3 MAIN EMBANKMENT – INSTRUMENTATION – PLAN									0	2JUN'00	ISSUED FC
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE		
REFERENCE DRAWINGS	REVISIONS										

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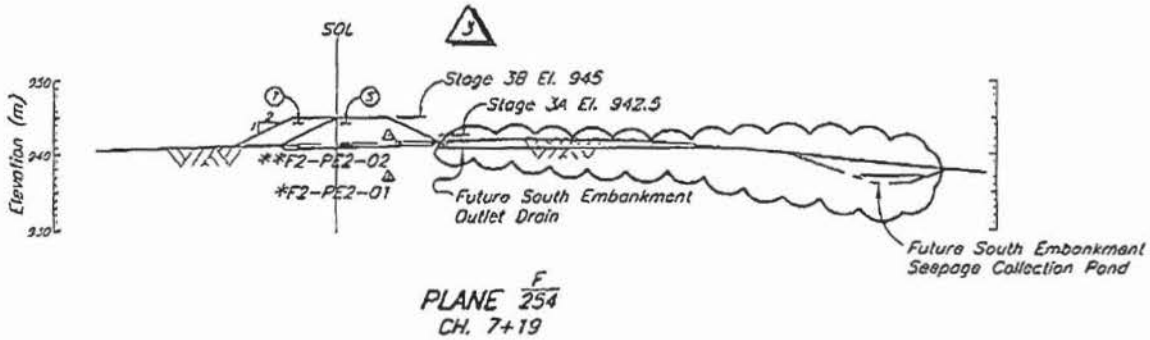
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PLANE D/251
CH. 39+86



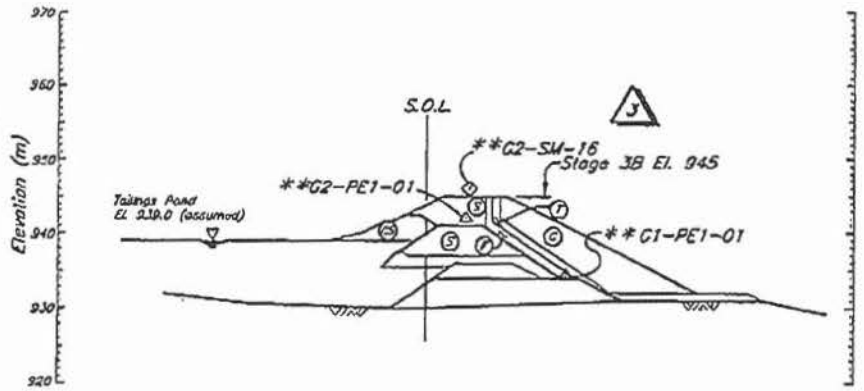
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CH. 17+60



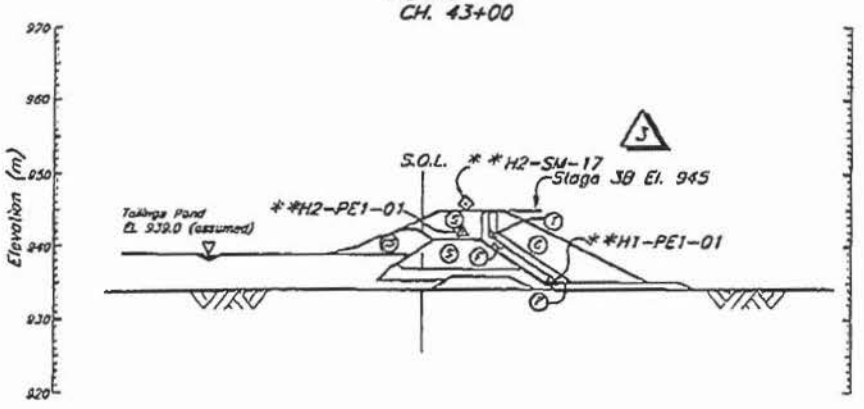
PLANE F/254
CH. 7+19

E 3 TAILINGS EMBANKMENT – INSTRUMENTATION SUMMARY OF INSTALLATION & TYPICAL DETAILS									3	08MAY'01	ISSUED FOR
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STAGE 3 PERIMETER EMBANKMENT – INSTRUMENTATION PLAN									1	20OCT'00	PERIMETER
STAGE 3 TAILINGS EMBANKMENT – MAIN EMBANKMENT – INSTRUMENTATION PLAN									0	2JUN'00	ISSUED FOR
DESCRIPTION	REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D	REV.	DATE		
REFERENCE DRAWINGS	REVISIONS										

JUL 26 '01 16:47 250 790 2268 PAGE.021



PLANE $\frac{G}{251}$
CH. 43+00



PLANE $\frac{H}{251}$
CH. 36+00

NOTE

1. See Drg. No. 11162-13-256 for Summary of Instrumentation Installations, Typical Details, General Notes and Legend.
2. Instrumentation with one asterisk indicates placement during Stage 3A construction. Instrumentation with 2 asterisks indicate placement during Stage 3B construction.

Scale 10 0 10 20 30 40 50 m

VANCOUVER B.C. CAD FILE: K:\1116\13\Dwg\Fig\01\Fig 1-500 PLOT 1-1[F6] May 6, 2001 md

REVISIONS	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
3	STAGE 3B TENDER	CWM	DSR	JRK	KJB
2	3B - CREST ELEVATION 945	JRK	ASW	JMTW	KJB
1	ER EMBANKMENT SECTIONS ADDED	JRK	NSD	JMTW	KJB
0	FOR CONSTRUCTION	JRK	TAM	ABW	KJB

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA C.W. MUIR

DESIGNED	CHECKED
JRK	ABW
DRAWN	APPROVED
DSR	KJB

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 3 TAILINGS EMBANKMENT
INSTRUMENTATION
SECTIONS – SHEET 2 OF 2

Knight Piésold CONSULTING

SCALE	REVISION
AS SHOWN	3
DRAWING NO.	
11162-13-259	

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Knight Piésold CONSULTING

Mount Polley Site Office *Fax: (250) 790-2268*
www.knightpiésold.com

DATE:	July 17, 2001	**FILE NO.:**	11162/14.F01/.F02/ /.F04/.F05/.F08
TIME:		**REF NO.:**	01-22
OPERATOR:		**PAGES:**	1 of 24
SENDER:	s.22		

TO:	Ministry of Energy and Mines, Victoria B.C. **FAX :** 250-952-0481
ATTN:	Chris Carr
CC:	Ken Brouwer, KP Vancouver Don Parsons / Eric LeNeve, MPMC Site
SUBJECT:	Progress Report No. 14

Dear Mr. Carr,

Please find enclosed a copy of Progress Report No. 14 from July 9 to July 15, 2001. If you have any questions, please do not hesitate to contact me on site or Ken Brouwer in our Vancouver office.

Regards,

s.22

Knight Piésold Consulting

July 17/01.

Note: Permit to 945 m.
This report indicates construction to 942.5 m.
∴ departure from plan of work system or program requires written authorization from Chief Inspector.

The content of this communication is confidential. If you are not the intended recipient, please notify us immediately. Unauthorized use or disclosure of this communication or its content is unlawful.

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3 CONSTRUCTION
PROGRESS REPORT NO. 14 – JULY 9 TO JULY 15, 2001

SECTION 1.0 - GENERAL

Mount Polley Mining Corporation (MPMC) continued Stage 3B construction activities. Knight Piésold Ltd. (KP) carried out QA/QC activities during the reporting period.

The scope of work includes placement of Zones S, F, T and C to El. 942.5 m on the Perimeter Embankment (Ch. 28+00 to 44+50). MPMC is carrying out this work with the exception of filter sand hauling between the millsite and the TSF, which is being completed by sub-contractors.

1.1 PERSONNEL

The following KP personnel were on site during the reporting period:

- s.22 Resident Engineer.

The following MPMC personnel were on site during the reporting period:

- Don Parsons Mine Superintendent
- Eric LeNeve Tailings Coordinator
- Larry Raymond General Foreman
- Site Foreman
- s.22 Site Foreman

1.2 CONTRACT DEVELOPMENTS

MPMC selected Lake Excavating Ltd., of Williams Lake, B.C., to place the latest crush pile of Zone F. The placement of this material is expected to take place from July 16 to 18, 2001.

1.3 DESIGN DEVELOPMENTS

A design change for the Perimeter Embankment was submitted and approved during the reporting period. The change minimizes capital expenditures while maintaining the integrity of the embankment. Zone C will be constructed to a minimum El. 935.0 m. Zones F and T will be placed over the exposed Zone S to El. 941.0 m. Zone S will be constructed to El. 942.5 m.

A preliminary spillway conceptual arrangement for the TSF has been produced by KP. The arrangement will be finalized into a design in the coming months.

1.3 WEATHER

Conditions were generally sunny with cloudy periods during the reporting period. Maximum daytime highs reached about +25 °C and nightly lows sank to as low as +10 °C.

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1.4 SAFETY

No safety incidents were reported over the reporting period.

SECTION 2.0 - TAILINGS FACILITY OPERATION AND MAINTENANCE

Tailings were spigotted along the Main Embankment crest during the reporting period at approximate Chainage 19+00. The tailings line will be moved to the east to approximate Ch. 22+00 to obtain a well developed, even beach at the Main Embankment. The tailings line will then be moved to the ridge between the Main and South Embankments. It is anticipated that tailings will form a substantial beach in this area by discharging at this location.

The Tailings Pond remains a significant distance from the Perimeter Embankment.

SECTION 3.0 - CONSTRUCTION ACTIVITIES

3.1 EQUIPMENT

MPMC used the following equipment over the reporting period:

- Excavators: 1 Hitachi EX 270, 1 Caterpillar 235, 1 Hitachi EX 400
- Haul Trucks: 2 Caterpillar 777 85T
- Dozers: 1 Caterpillar D6, 1 Caterpillar D8K
- Compactors: 1 Caterpillar CS 563 10T vibratory smooth drum
- Graders: 1 Caterpillar 14G
- Service, water and fuel trucks

MPMC carried out the following activities during the reporting period:

- Crushing of Zone F material at the millsite.
- Placement of Zone S fill, Perimeter Embankment: Ch. 28+00 to 32+00, El. 941 to 942.5 m. Embankment construction is now complete in this area.
- Placement of Zone T fill, Perimeter Embankment: Ch. 32+50 to 34+00, El. 936 to 940.5 m.
- Cleaning of existing slopes in preparation for Zone F material.
- Development of the Rock Borrow for Zones T and C materials.

Zone T was supplied from the Rock Borrow, while Zone S was delivered from Borrow Area 2. Zone S was placed in 300 mm thick lifts, while Zone T was placed upon Zone F in a 1 metre thick lift.

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SECTION 4.0 - KNIGHT PIÉSOLD ACTIVITIES

4.1 GENERAL

KP activities over the reporting period included the following:

- Monitoring and inspection of fill placement of Zones S and T.
- Submission of daily summaries of QA/QC and construction activities to MPMC.
- Control and Record sampling and testing of embankment fill materials.
- Ongoing discussions and correspondence with MPMC and KP Vancouver with regard to current and future design.
- Preparation of progress reports.

4.2 Laboratory Testing

The following samples were processed during the reporting period:

- C-ZF-42 and 43
- R-ZF-36 and 37
- R-ZS-7

Control sample C-ZF-42 failed the grain size specification. The pile was thoroughly mixed with a dozer following this testing. Subsequent control sample C-ZF-43 met the grain size specification and the pile was approved for fill placement.

All record tests completed during the reporting period proved suitable for their respective zones. The Maximum Dry Density for R-ZS-7 was found to 2080 kg/m^3 at 9.0 % moisture content.

All tests carried out during the reporting period are presented in the attached tables and figures.

SECTION 5.0 - MONITORING

5.1 GENERAL

Instrumentation was monitored during the reporting period. Data collected to date indicates that the TSF is performing well within design tolerances.

5.2 VIBRATING WIRE PIEZOMETERS

No new piezometers were installed over the reporting period.

Piezometer readings are taken on a weekly basis. The results from the monitoring are shown on Figures 5.1 to 5.7. Locations of the piezometers are presented on the attached Drawings.

Foundation Piezometers

No substantial changes were noted in the remaining foundation piezometers.

MOUNT POLLEY MINING CORP. 250 790 2268 #2600 P.004 JUL.17.2001 12:20

Fill Piezometers

The majority of the Main Embankment glacial till piezometers responded to construction of the overlying Stage 3A fills with increasing pore pressures. These piezometers are now fully dissipated, as a constant, horizontal trend has been showing for some time now.

Two piezometers located within the Stage 1A glacial till fill have historically registered anomalous values, and warrant discussion.

Piezometer B2-PE2-03 reacted strongly to fill placement during initial construction. Pore pressures did not dissipate in the periods following fill placement, but remained constant. This is in direct contrast to other instruments located nearby. This trend changed in 1999, when B2-PE2-03 began to show dissipation at the completion of fill placement. This new trend has been repeated three times, with approximately the same dissipation rate after each stage of construction, with an increase in pore pressure between 50 and 100% of the increase in total stress. It appears that drainage paths were limited in the fill around this piezometer and pore pressures are still equilibrating.

Piezometer C2-PE2-05 is also located in the Stage 1A glacial till fill. This instrument historically showed little or no reaction to construction, but indicated a slow, steady increase in pore pressure over time. This suggests that pore pressures in the fill around C2-PE2-05 are reaching a steady state condition as the phreatic surface moves through the fill. It should be noted that the pressure head registered by this piezometer is approximately 10 m. This is similar to other piezometers located in comparable locations in the glacial till fill.

Drain Piezometers

All drain piezometers have remained static and at very low head indicating free draining conditions within the embankment drainage systems.

Tailings Piezometers

Water levels at the tailings piezometers continue to mimic the pond level, except at the Main Embankment, where the upstream toe drain has resulted in a depressed phreatic surface.

5.3 DRAIN FLOWS

Drains flows were recorded on July 13, 2001. The results from the foundation drains and upstream toe drain are shown on Figures 5.8 and 5.9.

5.4 SLOPE INCLINOMETERS

The equipment to monitor, record and evaluate the data from the slope inclinometers will be on site soon. Exact depths of the inclinometers will be determined and calibration measurements will be carried out at that time.

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SECTION 6.0 - ONGOING ITEMS

The following items will be addressed during upcoming reporting periods:

- MPMC will continue to construct the Stage 3B Perimeter Embankment to El. 942.5 m.
- The slope inclinometers will be measured and calibrated.
- KP will continue to provide QA/QC and site supervision activities in accordance with the technical specifications.

Submitted by,

s.22

Knight Piésold Consulting.

Distribution: Eric LeNeve, Tailings Coordinator, MPMC Site
Don Parsons, Mine Superintendent, MPMC Site
Chris Carr, Ministry of Energy and Mines, Victoria, B.C.
Ken Brouwer, KP Vancouver

#2000 P.001
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JUL 17 '01 12:37
INVESTIGATION KCB-2 Page 488 of 500

TABLE 4.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
ZONE F CONTROL TEST SUMMARY SHEET

H:\ENGDATA\Engineer\Geotechnical\Mpolly\Stage 3B Construction\lab\control\[C-ZF-runrun.xls]Data Sheet

Knight Piésold CONSULTING

SHEET: 1 of 1
PERIOD: July 9 to July 15, 2001
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
PROJECT NO.: 11162/14
MATERIAL: Zone F - Filter Sand
AREA: Zone F Stockpile

Sample No.	Date Sampled	Location	El. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Field m/c %	LI %	C3 (Particle Size Distribution) 101.6 4	76.2 3	38.1 1.5	25.4 1	19.05 0.75	9.525 0.375	4.75 0.187	2.36 0.0937	1.18 0.0469	0.6 0.0234	0.3 0.0165	0.149 #50	0.0746 #100	0.0469 #200	0.002 coarse Clay	C4 Standard Proctor Max Dry Density kg/m³	Optimum m/c %	C6 Specific Gravity
C-ZF-31	28-May-01	Zone F Stockpile	-	-	-	-	4.1	-	100.0	100.0	100.0	100.0	99.6	84.0	61.6	43.0	28.5	21.3	16.5	12.7	10.6	-	-	-	-
C-ZF-32	28-May-01	Zone F Stockpile	-	-	-	-	4.0	-	100.0	100.0	100.0	100.0	99.4	78.9	59.9	43.4	29.6	21.9	16.8	13.1	10.4	-	-	-	-
C-ZF-33	28-May-01	Zone F Stockpile	-	-	-	-	2.9	-	100.0	100.0	100.0	100.0	98.7	56.0	28.1	17.6	12.8	10.1	7.8	6.1	4.8	-	-	-	-
C-ZF-34	11-Jun-01	Zone F Stockpile	-	-	-	-	3.7	-	100.0	100.0	100.0	100.0	99.3	59.2	35.0	24.2	15.9	10.5	7.8	6.1	4.8	-	-	-	-
C-ZF-35	11-Jun-01	Zone F Stockpile	-	-	-	-	4.2	-	100.0	100.0	100.0	100.0	97.9	59.3	34.7	24.7	15.3	10.6	8.0	6.4	5.1	-	-	-	-
C-ZF-36	12-Jun-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	97.7	60.6	37.0	25.2	15.5	12.2	9.4	7.1	5.6	-	-	-	-
C-ZF-37	03-Jul-01	Zone F Stockpile	-	-	-	-	1.5	-	100.0	100.0	100.0	100.0	96.0	56.3	34.9	23.7	16.1	11.5	8.0	4.2	2.2	-	-	-	-
C-ZF-38	03-Jul-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	98.5	76.2	55.6	40.0	27.2	19.0	12.9	6.5	3.3	-	-	-	-
C-ZF-39	03-Jul-01	Zone F Stockpile	-	-	-	-	2.6	-	100.0	100.0	100.0	100.0	99.5	75.4	48.2	28.5	14.3	9.8	6.7	3.7	1.9	-	-	-	-
C-ZF-40	04-Jul-01	Zone F Stockpile	-	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.3	68.8	44.7	30.2	18.8	12.3	6.9	3.2	1.5	-	-	-	-
C-ZF-41	04-Jul-01	Zone F Stockpile	-	-	-	-	5.5	-	100.0	100.0	100.0	100.0	99.2	77.0	54.7	36.7	21.3	11.9	6.3	3.7	1.8	-	-	-	-
C-ZF-42	13-Jul-01	Zone F Stockpile	-	-	-	-	5.3	-	100.0	100.0	100.0	100.0	96.9	69.4	45.3	27.4	16.9	10.3	5.9	3.9	-	-	-	-	-
C-ZF-43	13-Jul-01	Zone F Stockpile	-	-	-	-	5.5	-	100.0	100.0	100.0	100.0	99.1	79.3	57.4	39.0	26.0	16.9	9.1	4.5	-	-	-	-	-
		MEAN	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	3.7	#DIV/0!	100.0	100.0	100.0	100.0	98.5	69.2	45.6	30.7	19.9	13.7	9.4	6.2	4.7	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
		MEDIAN	#NUM!	#NUM!	#NUM!	#NUM!	3.7	#NUM!	100.0	100.0	100.0	100.0	99.1	69.4	44.7	27.4	16.9	11.9	8.0	6.1	4.8	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
		MAXIMUM (*)	0.0	0.0	0.0	0.0	5.5	0.0	100.0	100.0	100.0	100.0	99.6	84.0	61.6	43.4	29.6	21.9	16.8	13.1	10.4	0.0	0.0	0.0	0.0	0.0
		MINIMUM (*)	0.0	0.0	0.0	0.0	1.5	0.0	100.0	100.0	100.0	100.0	96.0	56.0	28.1	17.6	12.8	9.8	5.9	3.2	1.5	0.0	0.0	0.0	0.0	0.0

Note: These are 100% fines.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

C1 Atterberg Limits (ASTM D4318)
C2 Moisture Content (ASTM D2216)
C3 Particle Size Distribution (ASTM D422)
C4 Laboratory Compaction (ASTM D1557)
C6 Specific Gravity (ASTM D854)

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TABLE 4.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
ZONE F RECORD TEST SUMMARY SHEET

H:\ENG\DATA\Engineering\Distributed\Reports\Stage 3B Construction\lab\record\[R-ZF-summ.xls]Data Sheet

Knight Piésold CONSULTING

SHEET: 1 of 1
PERIOD: July 9 to July 15, 2001
PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
PROJECT NO.: 11162/14
MATERIAL: Zone F - Filter Sand
AREA: TSF

Sample No.	Date Sampled	Location	El. (m)	C1 Atterberg Limits PL %	LL %	PI %	C2 Field m/c %	LI %	C3 (Particle Size Distribution) 101.6 mm 4	76.2 mm 3	38.1 mm 1.5	25.4 mm 1	19.05 mm 0.75	9.525 mm 0.375	4.75 mm #4	2.36 mm #8	1.18 mm #16	0.6 mm #30	0.3 mm #50	0.16/0.136 mm #100	0.07/0.066 mm #200	0.002 mm Clay	C4 Standard Proctor Max Dry Density kg/m³	Optimum m/c %	C6 Specific Gravity
R-ZF-31	28-May-01	29+00, 0.5 m D/S of Zone S	941.8	-	-	-	4.0	-	100.0	100.0	100.0	100.0	99.5	71.5	69.1	35.9	25.8	19.7	15.0	11.6	9.1	-	-	-	-
R-ZF-32	28-May-01	37+00, 0.5 m D/S of Zone S	936.0	-	-	-	4.1	-	100.0	100.0	100.0	100.0	98.7	68.4	64.0	31.9	22.5	16.9	12.8	9.9	7.7	-	-	-	-
R-ZF-33	17-Jun-01	42+00, 0.8 m D/S of Zone S	936.0	-	-	-	7.0	-	100.0	100.0	100.0	100.0	97.9	69.8	64.7	28.8	17.8	13.2	10.6	8.5	6.9	-	-	-	-
R-ZF-34	29-Jun-01	35+00, 0.8 m D/S of Zone S	935.0	-	-	-	3.6	-	100.0	100.0	100.0	100.0	99.2	61.5	57.8	27.0	18.7	14.0	11.0	8.6	6.8	-	-	-	-
R-ZF-35	30-Jun-01	43+00, 0.8 m D/S of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.0	70.8	66.6	32.6	23.0	17.2	13.7	10.6	8.5	-	-	-	-
R-ZF-36	10-Jul-01	33+50, 0.8 m D/S of Zone S	939.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.5	72.6	68.4	35.5	24.8	17.6	12.4	9.2	7.0	-	-	-	-
R-ZF-37	10-Jul-01	43+00, 0.8 m D/S of Zone S	937.0	-	-	-	4.5	-	100.0	100.0	100.0	100.0	99.6	65.6	61.3	28.8	21.4	16.9	13.5	9.4	6.4	-	-	-	-
MEAN				#DIV/0!	#DIV/0!	#DIV/0!	4.6	#DIV/0!	100.0	100.0	100.0	100.0	98.8	68.5	64.8	78.6	22.0	16.5	12.7	9.7	7.5	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
MEDIAN				#NUM!	#NUM!	#NUM!	4.5	#NUM!	100.0	100.0	100.0	100.0	99.2	68.8	64.7	31.9	22.5	16.9	12.8	9.4	7.0	#NUM!	#NUM!	#NUM!	#NUM!
MAXIMUM (*)				0.0	0.0	0.0	7.0	0.0	100.0	100.0	100.0	100.0	99.6	72.6	70.4	365.5	25.8	19.7	15.0	11.6	9.1	0.0	0.0	0.0	0.0
MINIMUM (*)				0.0	0.0	0.0	3.6	0.0	100.0	100.0	100.0	100.0	97.5	61.5	57.8	27.0	17.8	13.2	10.6	8.5	6.4	0.0	0.0	0.0	0.0

Note : These are 100% limits.

Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

R1 Atterberg Limits (ASTM D4318)
R2 Moisture Content (ASTM D2216)
R3 Particle Size Distribution (ASTM D422)
R4 Laboratory Compaction (ASTM D1557)
R6 Specific Gravity (ASTM D854)

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#2000 P.009/010 MOUNT POLLEY MINING CORP.

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TABLE 4.6

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
ZONE S RECORD TEST SUMMARY SHEET

H:\ENG\DATA\Engdocs\Geotech\soil\polley\Stage 3B Construction\lab\record\[R-ZS-summary.xls]Data Sheet

Knight Piésold CONSULTING

PROJECT: MOUNT POLLEY - TAILINGS STORAGE FACILITY - STAGE 3B CONSTRUCTION
MATERIAL: Zone S - Glacial Till

SHEET: 1 of 1
PERIOD: July 9 to July 15, 2001
PROJECT NO.: 11162/14
AREA: TSF

Sample No.	Date Sampled	Location	El (m)	R1 Atterberg Limits PL %	LL %	PI %	R2 Field m/c %	LI %	R3 (Particle Size Distribution) 101.6 / 4 / 4	76.2 / 3 / 3	38.1 / 1.5 / 1 1/2	25.4 / 1 / 1	19.05 / 0.75 / 3/4	9.525 / 0.375 / 3/8	4.75 / 0.187 / #4	2.36 / 0.0937 / #8	1.18 / 0.0469 / #16	0.6 / 0.0234 / #30	0.3 / 0.0165 / #50	0.15 / 0.0059 / #100	0.075 / 0.0029 / #200	0.002 / — / Clay	R4 Standard Proctor Max Dry Density kg/m³	Optimum m/c %	Field Density kg/m³	Field m/c %	Percent Compaction %	R6 Specific Gravity
R-ZS-7	12-Jul-01	25+23, 5 m D/S from U/S Toe	941.7	-	-	-	11.4	-	100.0	100.0	100.0	100.0	96.0	87.6	79.6	75.4	71.6	67.8	62.7	55.8	48.2	-	2400.0	9.8	2233.6	10.7	93.2	-
																						-						-
																						-						-
																						-						-
																						-						-
			MEAN	#DIV/0!	#DIV/0!	#DIV/0!	11.4	#DIV/0!	100.0	100.0	100.0	100.0	96.0	87.6	79.6	75.4	71.6	67.8	62.7	55.8	48.2	#DIV/0!	2400.0				93.2	#DIV/0!
			MEDIAN	#NUM!	#NUM!	#NUM!	11.4	#NUM!	100.0	100.0	100.0	100.0	96.0	87.6	79.6	75.4	71.6	67.8	62.7	55.8	48.2	#NUM!	2400.0				93.2	#NUM!
			MAXIMUM (*)	0.0	0.0	0.0	11.4	0.0	100.0	100.0	100.0	100.0	96.0	87.6	79.6	75.4	71.6	67.8	62.7	55.8	48.2	0.0	2400.0				93.2	0.0
			MINIMUM (*)	0.0	0.0	0.0	11.4	0.0	100.0	100.0	100.0	100.0	96.0	87.6	79.6	75.4	71.6	67.8	62.7	55.8	48.2	0.0	2400.0				93.2	0.0

Note: These are 100% limits.

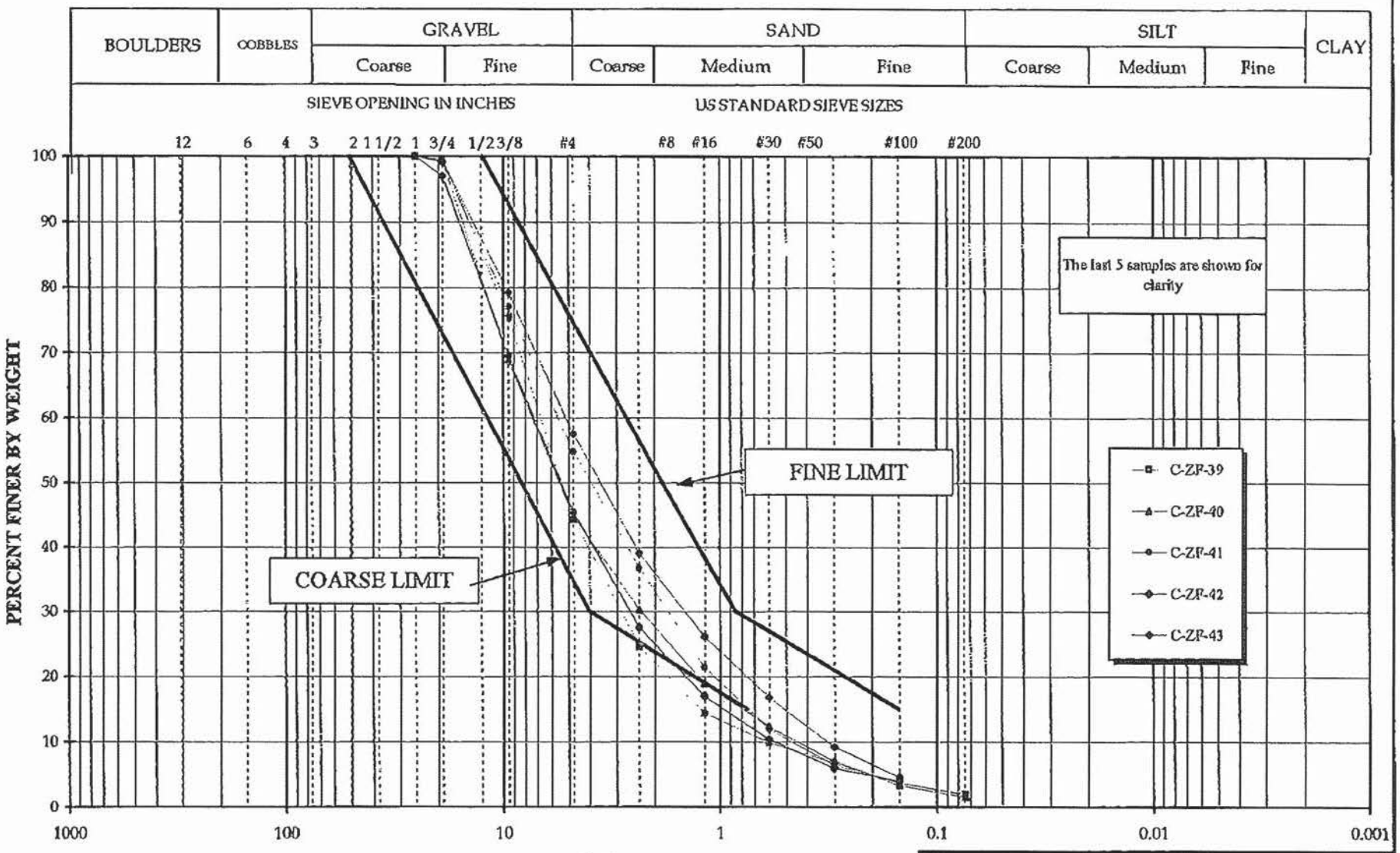
Values for Standard Proctor maximum dry density and optimum moisture content include oversize correction.

IP - In progress

- R1 Atterberg Limits (ASTM D4318)
- R2 Moisture Content (ASTM D2216)
- R3 Particle Size Distribution (ASTM D422)
- R4 Laboratory Compaction (ASTM D1557)
- R6 Specific Gravity (ASTM D854)

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

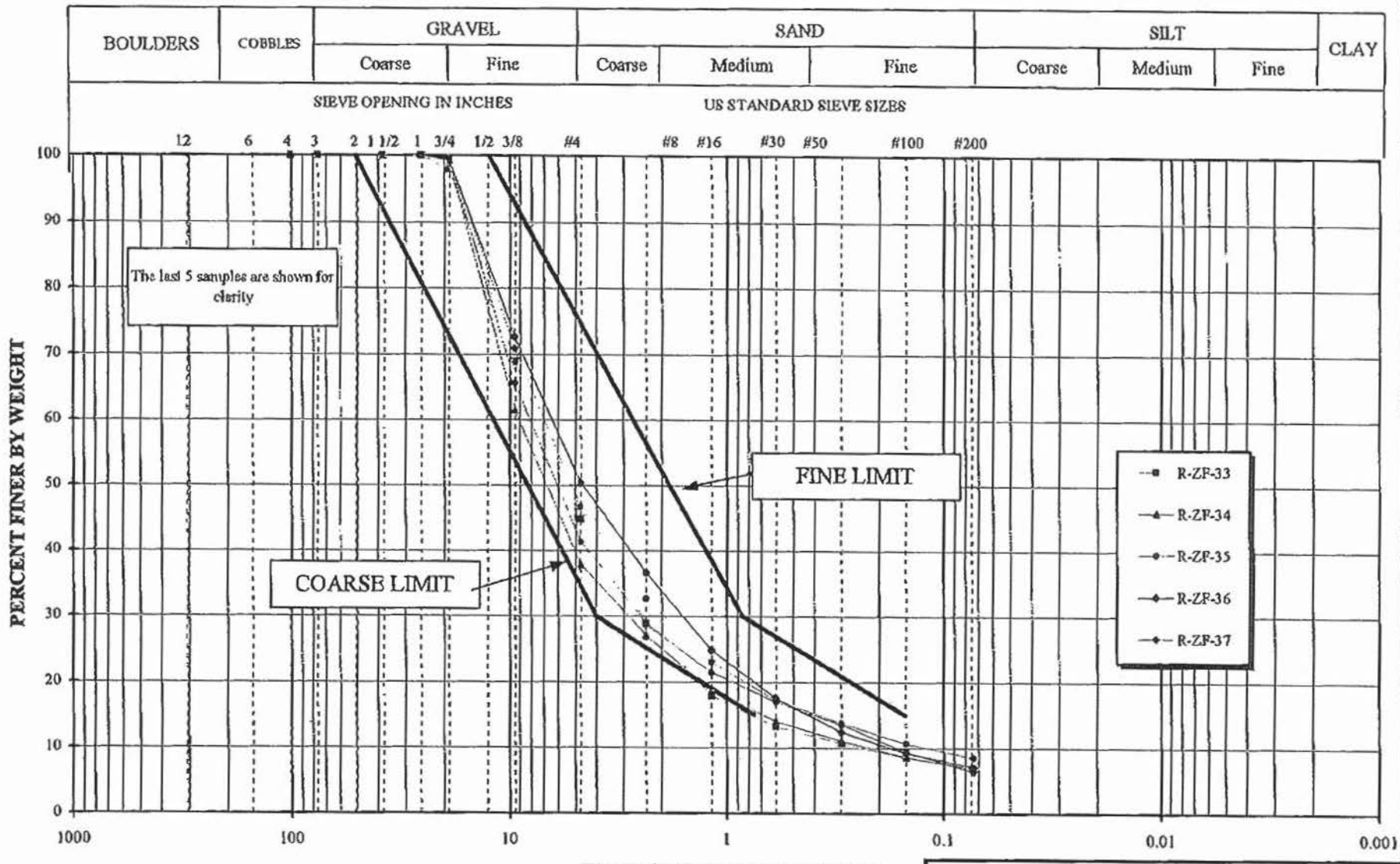
TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F CONTROL SAMPLES
GRADATION CURVES

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 4.1

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE F RECORD SAMPLES
GRADATION CURVES

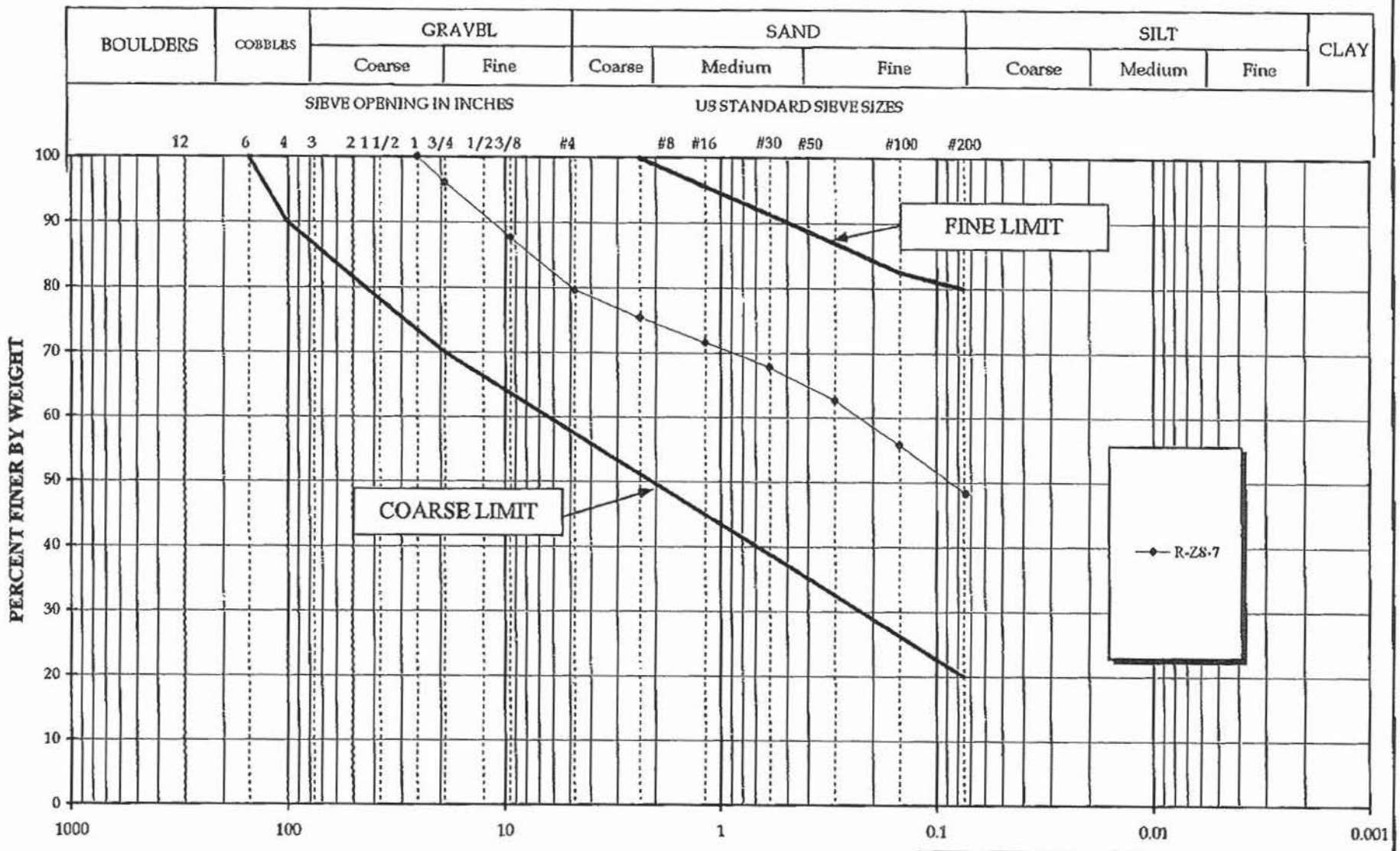
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 4.2

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY - STAGE 3B
CONSTRUCTION - ZONE S RECORD SAMPLES
GRADATION CURVES

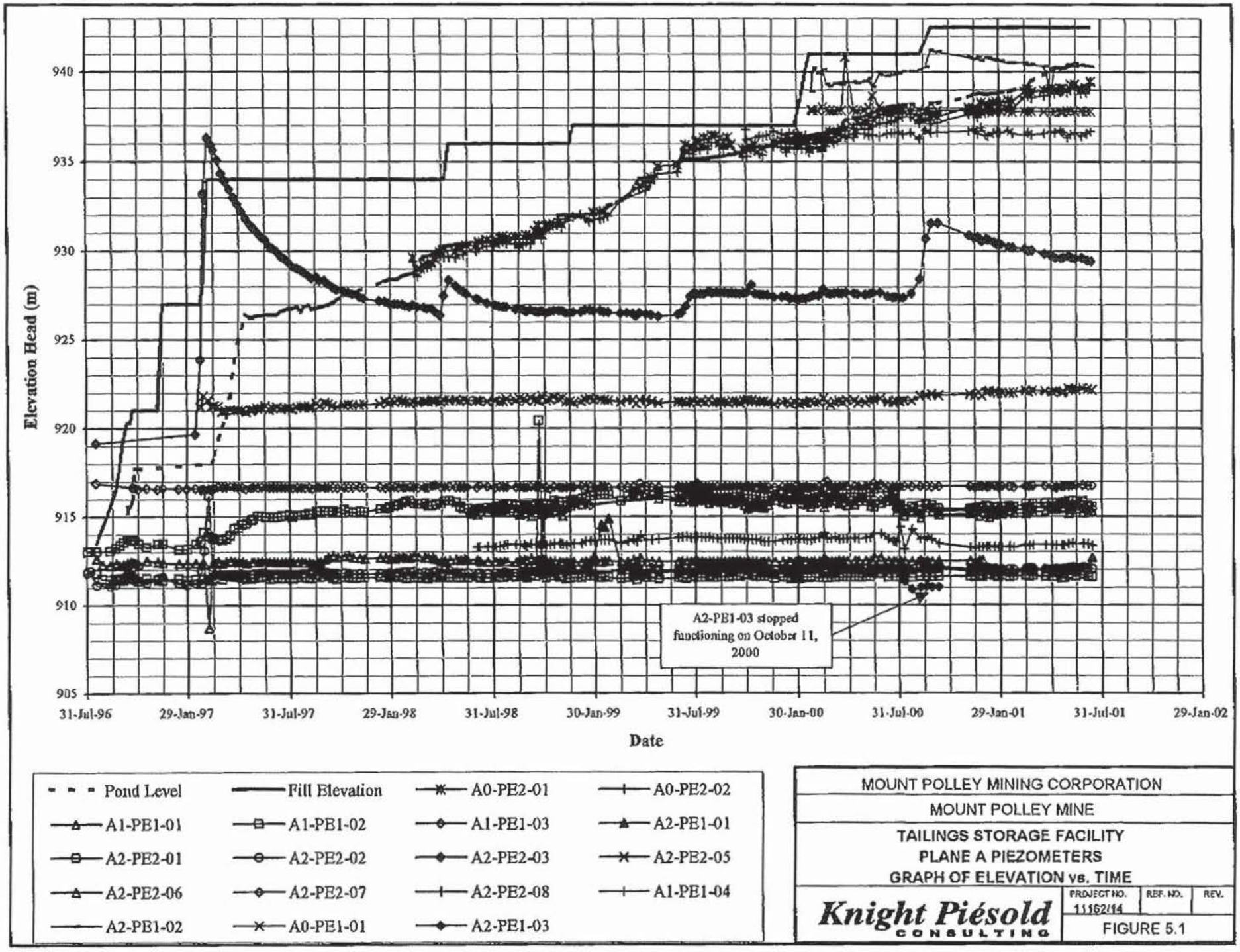
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 4.6

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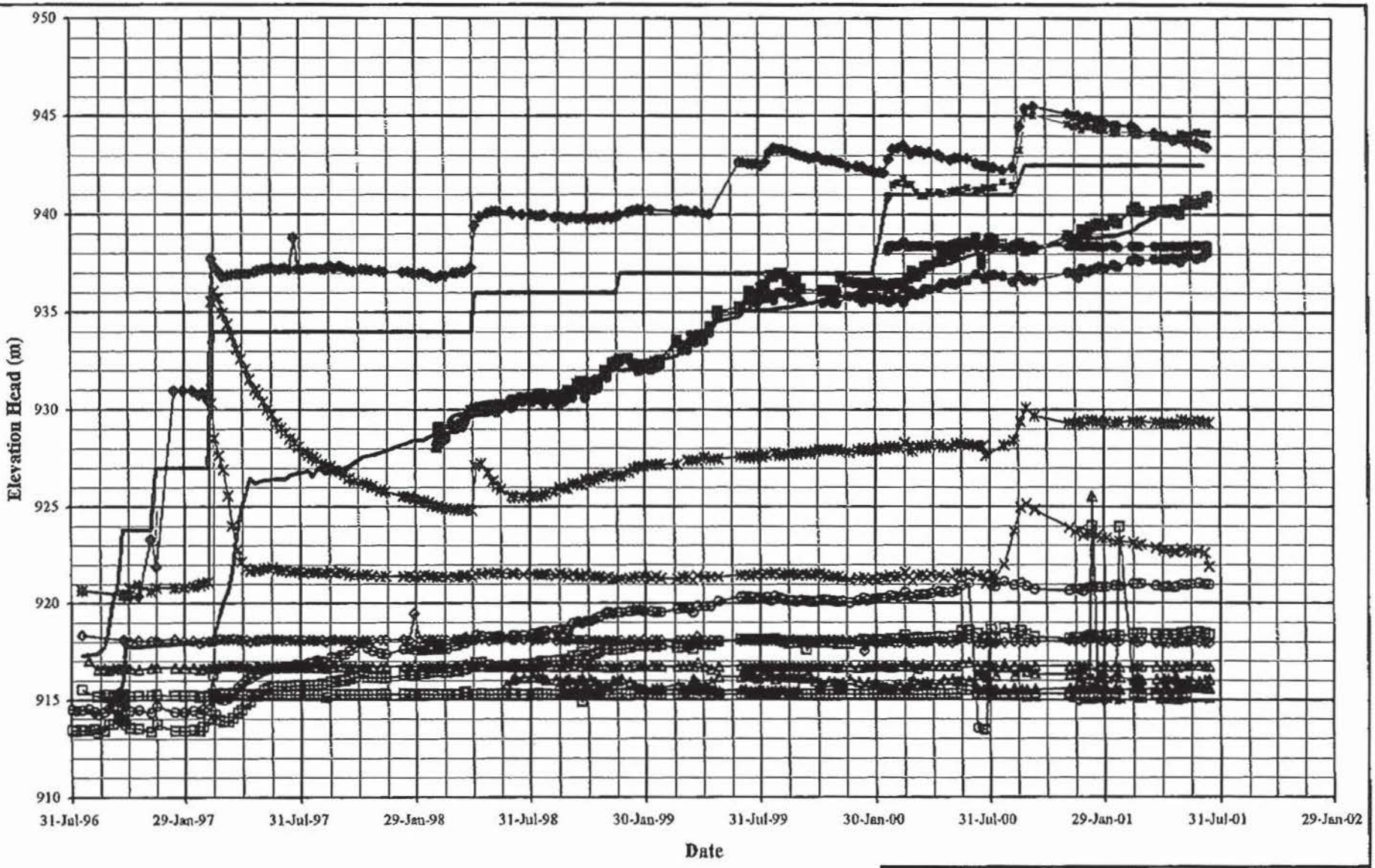
INVESTIGATION KCB-2 Page 493 of 500



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE A PIEZOMETERS GRAPH OF ELEVATION vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 1116214	REF. NO.	REV.
	FIGURE 5.1		

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

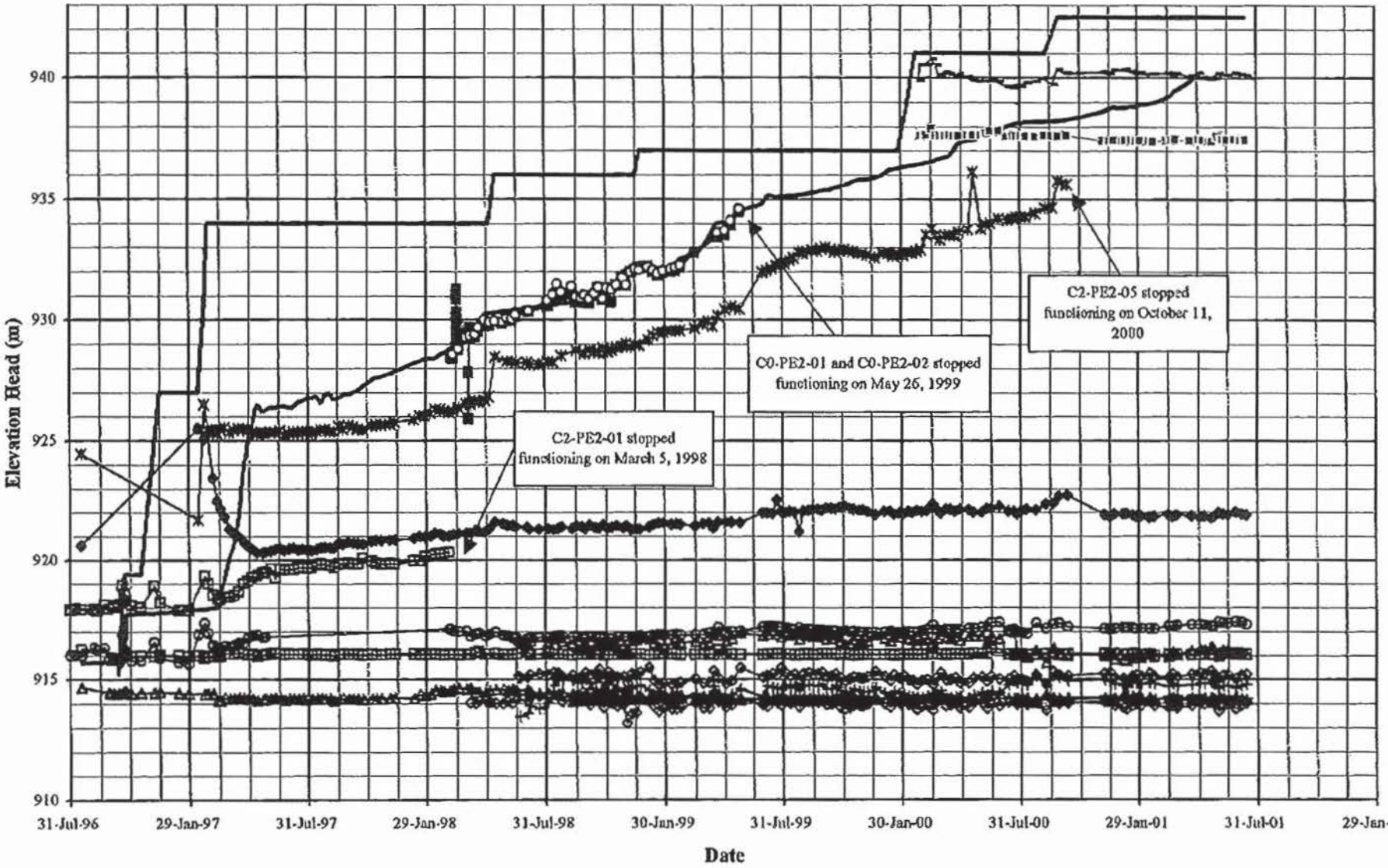
TAILINGS STORAGE FACILITY
PLANE B PIEZOMETERS
GRAPH OF ELEVATION vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.2

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE C PIEZOMETERS
GRAPH OF ELEVATION vs. TIME

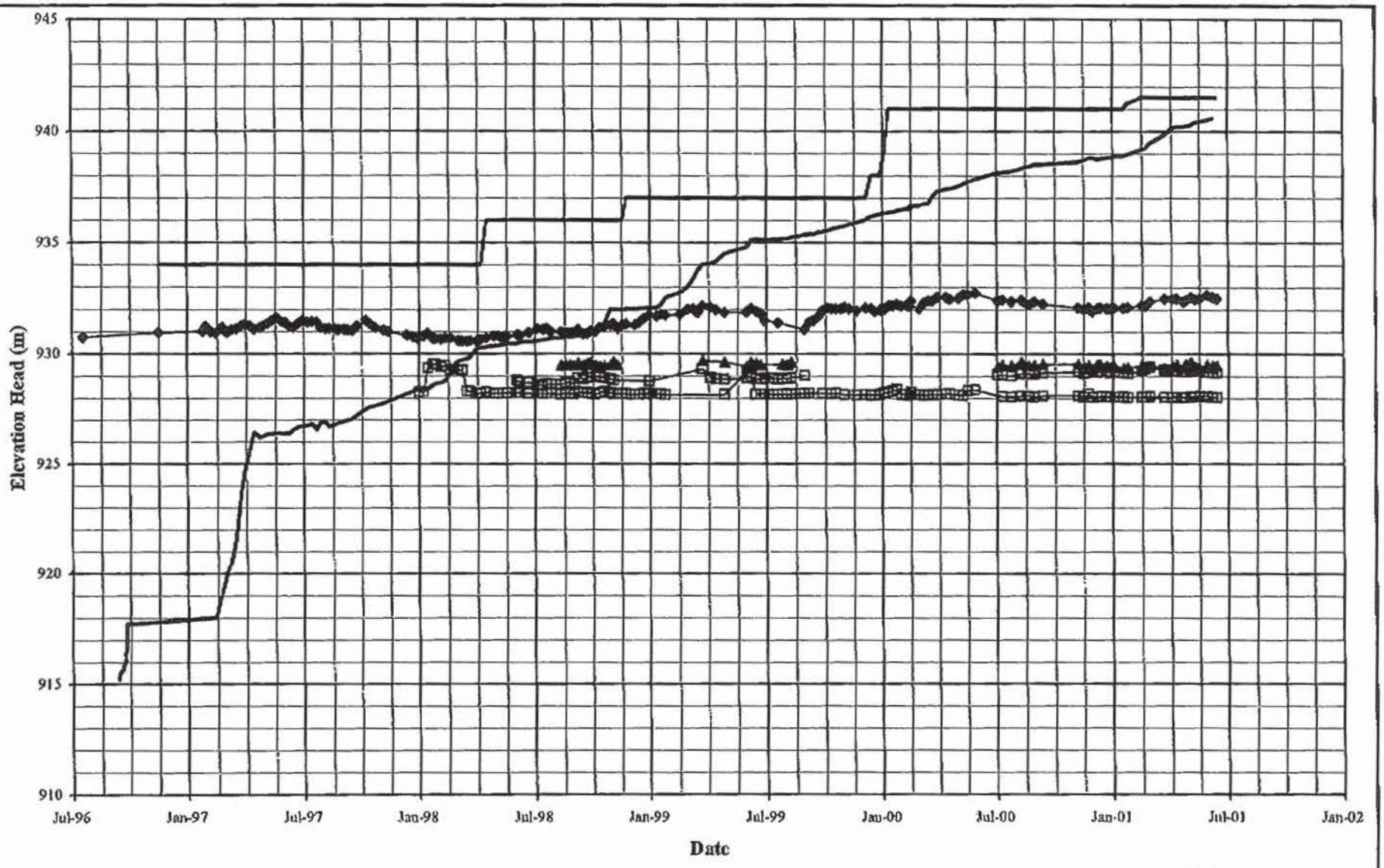
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.3

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

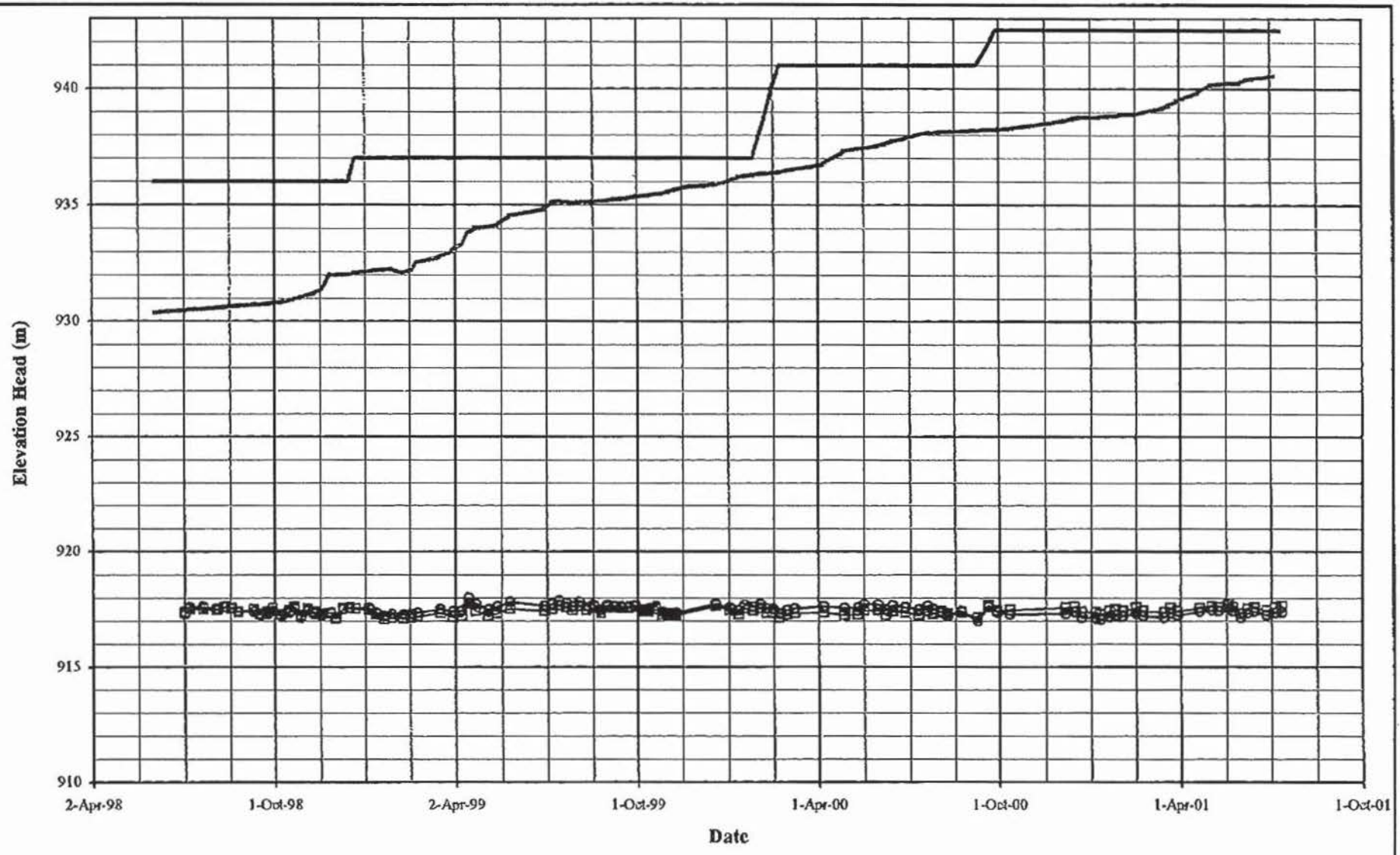
TAILINGS STORAGE FACILITY
PLANE D PIEZOMETERS
GRAPH OF ELEVATION vs. TIME

Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.4

250 790 2268 PAGE.016
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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE E PIEZOMETERS
GRAPH OF ELEVATION vs. TIME

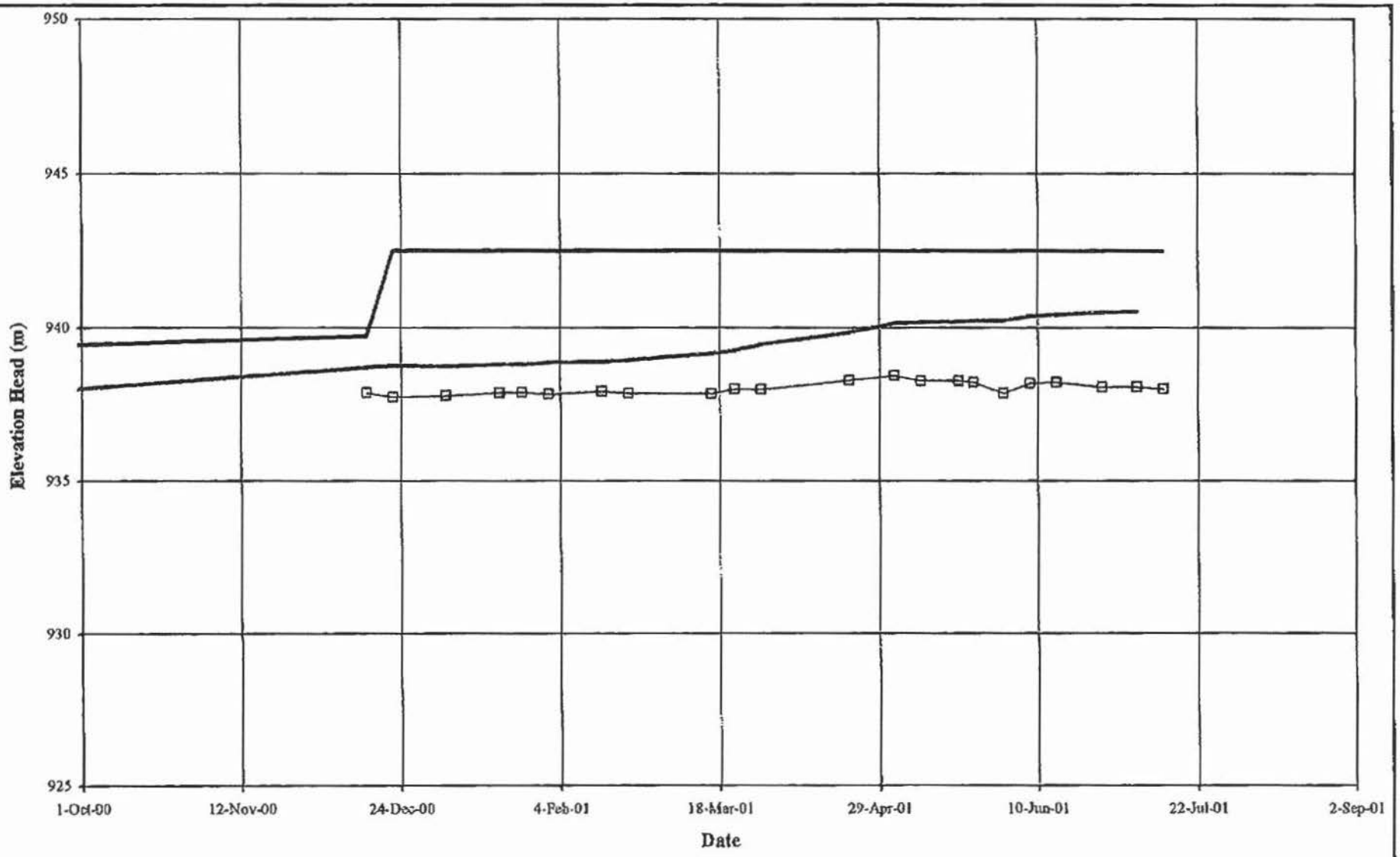
Knight Piésold CONSULTING

PROJECT NO.	REF. NO.	REV.
11162/14		

FIGURE 5.5

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Plane Fxds All Pieces



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
PLANE F PIEZOMETERS
GRAPH OF ELEVATION vs. TIME

Knight Piésold CONSULTING

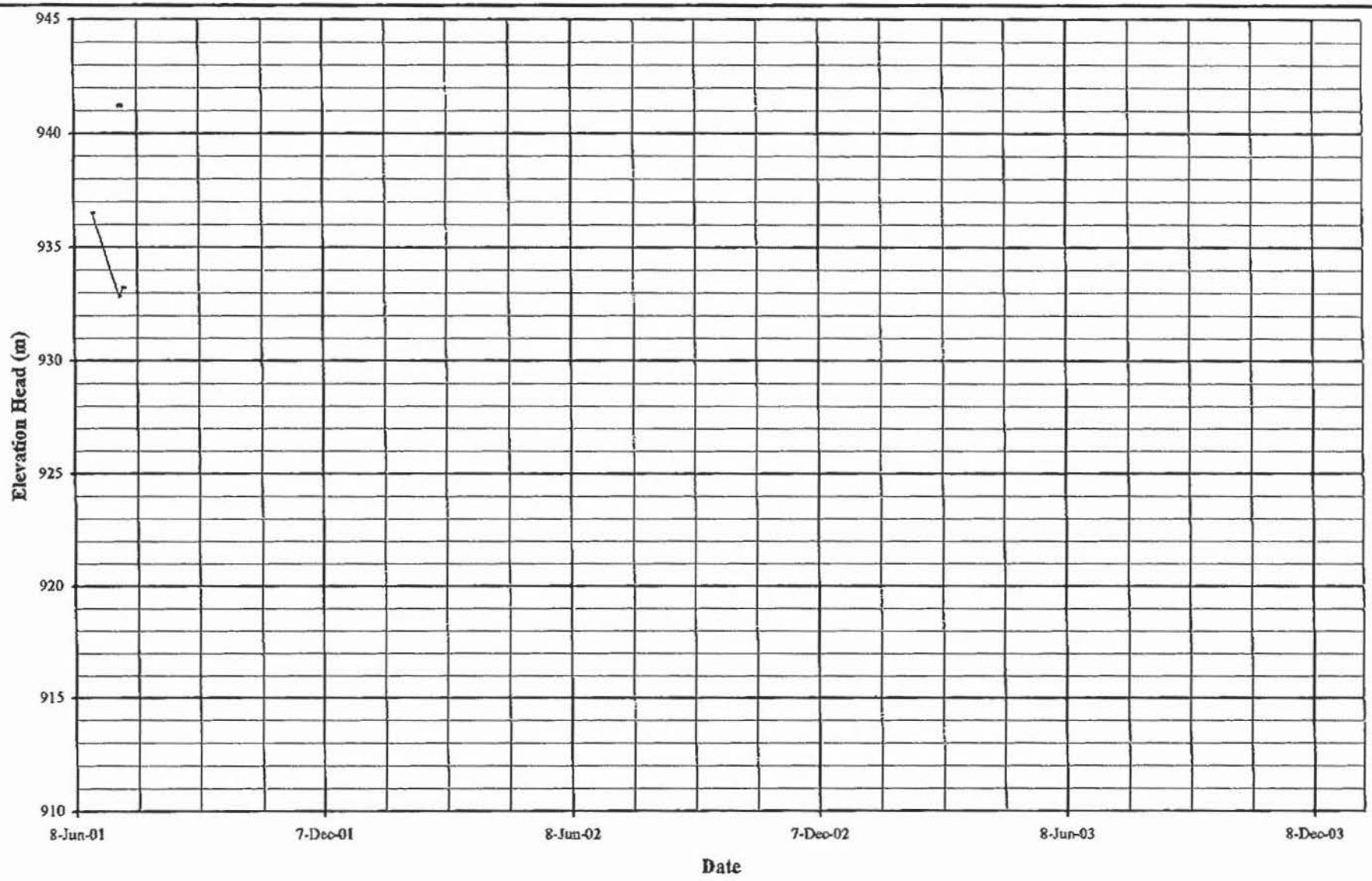
PROJECT NO	REF. NO.	REV.
11162/14		

FIGURE 5.6

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Plans Holds All Pieces



MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
TAILINGS STORAGE FACILITY PLANE H PIEZOMETERS GRAPH OF ELEVATION vs. TIME			
Knight Piésold CONSULTING	PROJECT NO. 1116/14	REF. NO.	REV.
	FIGURE 5.7		

250 790 2268 PAGE.019
JUL 17 '01 12:41
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