

TRANSMITTAL

Suite 1400 - 750 West Pender Street

Vancouver, BC V6C 2T8

Tel: 604.685.0543

Fax: 604.685.0147

TO: Mount Polley Mining Corporation
P.O. Box 12
Likely, British Columbia
Canada, V0L 1N0

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ATTENTION: Mr. Ron Martel

CONT. NO.: VA10-01952

RE: 2010 Engineering Support for Mount Polley Mine

ITEM NO.	DESCRIPTION
1.	Pdf copy of the 'Tailings Storage Facility, Report on 2010 Annual Inspection' VA101-1/29-2 Rev 0
2.	
3.	

REMARKS:

Sent via email

Signed:
Admin Staff

Approved:
Greg Johnston

Copy To:

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**TAILINGS STORAGE FACILITY
REPORT ON 2010 ANNUAL INSPECTION**



PREPARED FOR

*Mount Polley Mining Corporation
P.O. Box 12
Likely, BC V0L 1N0*

PREPARED BY

*Knight Piésold Ltd.
Suite 1400 – 750 West Pender Street
Vancouver, BC V6C 2T8*

Knight Piésold
CONSULTING



ISO 9001, ISO 14001
OHSAS 18001

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**TAILINGS STORAGE FACILITY
REPORT ON 2010 ANNUAL INSPECTION
(REF. NO. VA101-1/29-2)**

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0	Issued in Final	December 16, 2010	<i>KIB</i>

Knight Piésold Ltd.

Suite 1400
750 West Pender Street
Vancouver, British Columbia Canada V6C 2T8
Telephone: (604) 685-0543
Facsimile: (604) 685-0147
www.knightpiesold.com

Knight Piésold
CONSULTING

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**TAILINGS STORAGE FACILITY
REPORT ON 2010 ANNUAL INSPECTION
(REF. NO. VA101-1/29-2)**

EXECUTIVE SUMMARY

The Mount Polley Copper and Gold Mine is located in central British Columbia approximately 56 kilometres northeast of Williams Lake. Mount Polley Mining Corporation (MPMC) started production in 1997 with an ore reserve of approximately 85 million tonnes of copper and gold in three ore bodies. MPMC milled approximately 27.5 million tonnes of ore prior to suspending operations in October 2001 due to a sustained period of low metal prices. The mine subsequently operated under care and maintenance conditions from October 2001 to March 2005. Exploration activities continued during the care and maintenance period and a new high grade zone, called the northeast zone, was discovered in 2003. The discovery of the northeast zone, along with increased metal prices, resulted in the mine resuming operations again in March 2005.

The ore is processed by selective flotation to produce a copper-gold concentrate at a mill throughput of approximately 20,000 tpd. Mine tailings are deposited by gravity as slurry into the Tailings Storage Facility (TSF) located approximately four kilometers south of the mill. Process water in the TSF is collected and recycled back to the mill for re-use in the milling process. The TSF at Mount Polley consists of one embankment that is approximately 4,200 m long. The TSF embankment is divided into three sections referred to as the Main, Perimeter, and South Embankment. The current crest elevation of the TSF is 958 m. The heights of the TSF embankments are approximately 45 m, 27 m, and 17 m for the Main, Perimeter, and South Embankment, respectively. The tailings embankments have been designed for staged expansion using the modified centreline construction method. The embankments are zoned earthfill/rockfill embankments and include a low permeability core zone which ties into a natural and constructed low permeability basin liner to form a continuous low permeability seepage barrier within the impoundment.

TSF Inspections have occurred on an annual basis, with the exception of 2006, when a formal Dam Safety Review was completed. The next Dam Safety Review should be carried out by 2011, or during detailed closure design, whichever is earlier.

The 2010 TSF inspection of the TSF was completed by Mr. Les Galbraith, P.Eng., of Knight Piésold (KP) on October 7, 2010.

The results and recommendations from the 2010 inspection of the TSF are summarized as follows:

- The TSF classification is currently "Significant", which was a recommendation from the 2006 Dam Safety Review. It is recommended that the TSF classification be reviewed with specific reference to potential damage to downstream fish and/or wildlife habitat following a hypothetical dam breach with the TSF at its ultimate elevation.

- The TSF embankments were observed to be in good condition, however, a tension crack was observed at the Perimeter Embankment on the downstream side of the crest in the Zone C rockfill material. Although this is likely the result of loosely compacted material on the downstream slope of the embankment, it is possible that there may be a connection between the tension crack and the excavation of the glacial till borrow area immediately downstream of this area. This should be evaluated as part of the Stage 7 design phase and any additional excavation of the borrow area should be reviewed and approved by the TSF design engineer.
- The downstream slope of the Main Embankment is approximately 1.4H:1V. This was previously constructed as an interim slope to balance the construction material requirements with the waste production schedule for that particular year. This short term slope configuration still exists. It is recommended that the downstream slope of the Main Embankment be evaluated during the Stage 7 design phase to assess whether it requires flattening at this time.
- Slight deviations measured in the lacustrine unit in Inclinator SI01-02 resulted in the construction of a buttress at the Main Embankment. The buttress was constructed downstream of Inclinator SI01-02 to the west of the Seepage Collection and Recycle Pond and this appears to have been effective as the displacements in Inclinator SI01-02 have stabilized. The Stage 6b design included constructing the buttress along the entire dam as any weak layer in the lacustrine material would likely extend laterally to the east of the Seepage Collection and Recycle Pond as well. It was also recommended that the buttress be constructed prior to the commencement of the Stage 6b embankment raise. The buttress was constructed on the west side of the dam only in 2010. The extent of the buttress should be re-evaluated in 2011, following the Dam Classification review, to assess its timing, lateral extent, and elevation requirements.
- Develop a tailings deposition plan to deposit tailings from around the facility to facilitate the development of tailings beaches and manage the location of the tailings pond. The lack of tailings beach development was a deficiency identified in a 2008 geotechnical inspection by the Ministry of Energy, Mines, and Petroleum Resources (MEMPR). The tailings were being deposited from the west abutment of the Perimeter Embankment at the time of the inspection and the supernatant pond was up against the South and part of the Main Embankment.
- The minimum freeboard requirement of 1.4 m was achieved in 2010. MPMC has provisions in place to pump water from the TSF to the Cariboo Pit to reduce the storage requirements in the TSF and to ensure that the minimum freeboard requirement is achieved. The implications of water transfer to the Cariboo Pit should be reviewed to ensure that seepage issues to the environment are not occurring.
- The supernatant pond volume was reported to be approximately 650,000 m³ in June 2010 which is quite low considering the volume was measured after the 2010 freshet. The small supernatant pond may result in suspended solids being returned to the mill with the reclaim water. The mill currently sources its process water from the TSF and it is recommended that the tailings pond have a defined lower operating volume so that there is sufficient settling time for the tailings solids and to ensure that there is enough free water in the TSF to provide process water to the mill through the winter months when there is minimal surface runoff.
- The instrumentation at the TSF consists of vibrating wire piezometers and inclinometers. There have been no unexpected or anomalous instrumentation readings. However, approximately 40% of the vibrating wire piezometers installed at the TSF are no longer functioning. Replacing the lost instrumentation is an outstanding item from the 2006 DSR and a program has been proposed by Knight Piésold to replace the lost instrumentation by the end of 2010. Replacing the lost

instrumentation should be considered a high priority by MPMC and no additional raises should be planned for the TFS until the lost instrumentation has been replaced.

- An instrumentation and flow monitoring plan should be developed that is consistent with the required reading frequencies reported in the Operations, Maintenance and Surveillance Manual.
- MPMC is managing the site water balance and it has not been reviewed by the TSF design engineer in 2010. It is recommended the site water balance be reviewed and updated as part of the Stage 7 design of the TSF and include a stochastic analysis to evaluate wet and dry precipitation conditions.
- The mine site is currently reported by MPMC to be operating with a water surplus. Site surplus water is currently being stored in the TSF and the Cariboo Pit. MPMC is currently exploring ways to discharge water from the site to reduce the increasing site storage requirements in the TSF and the Cariboo Pit.
- The TSF is a key component in the water management plan and it is imperative that MPMC appropriately engage the TSF design engineer with respect to modification to the water management plan and water balance to ensure the design and operational requirements of the TSF are not jeopardized by the transfer of large volumes of water from the Cariboo Pit.
- A preliminary design of the TSF was completed by Knight Piésold in 2005 which considered an ultimate embankment crest elevation of 965 m and provided storage for approximately 85 Mt of tailings. The MPMC mine plan is evolving as new resources are discovered and it is possible that the current resource estimate exceeds the ultimate storage capacity of the TSF from the 2005 study. It is recommended that the tailings storage requirements be re-evaluated to assess whether modifications are required to the TSF layout. Additionally, the closure and reclamation plan for the TSF should be updated to reflect the increased resource and tailings storage requirements. The TSF should be designed for closure at all stages and defining the ultimate storage requirements and closure and reclamation plan for the TSF is a key consideration for future design phases.

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**TAILINGS STORAGE FACILITY
REPORT ON 2010 ANNUAL INSPECTION
(REF. NO. VA101-1/29-2)**

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VA101-1/29-100 Rev 0	Stage 6b Tailings Embankment – Overall Site Plan
VA101-1/29-102 Rev 0	Stage 6b Tailings Embankment – General Arrangement
VA101-1/29-104 Rev 0	Stage 6b Tailings Embankment – Material Specifications
VA101-1/29-210 Rev 0	Stage 6b Main Embankment – Plan
VA101-1/29-215 Rev 0	Stage 6b Main Embankment – Section
VA101-1/29-216 Rev 0	Stage 6b Main Embankment – Detail
VA101-1/29-220 Rev 0	Stage 6b Perimeter Embankment – Plan
VA101-1/29-225 Rev 0	Stage 6b Perimeter Embankment – Section
VA101-1/29-226 Rev 0	Stage 6b Perimeter Embankment – Detail
VA101-1/29-230 Rev 0	Stage 6b South Embankment – Plan
VA101-1/29-235 Rev 0	Stage 6b South Embankment – Section 1
VA101-1/29-236 Rev 0	Stage 6b South Embankment – Section 2
VA101-1/29-240 Rev 0	Stage 6b – South Embankment – Upstream Toe Drain Sections and Details
VA101-1/29-255 Rev 0	Stage 6b – Instrumentation – Plan View of Piezometer Planes
VA101-1/29-256 Rev 0	Stage 6b – Instrumentation – Main Embankment Planes A and B
VA101-1/29-257 Rev 0	Stage 6b – Instrumentation – Main Embankment Planes C and E
VA101-1/29-258 Rev 0	Stage 6b – Instrumentation – Perimeter Embankment Planes D, G and H
VA101-1/29-259 Rev 0	Stage 6b – Instrumentation – South Embankment Planes F and I

APPENDICES

Appendix A	Piezometer Records
	A1 Tailings Piezometers
	A2 Foundation Piezometers
	A3 Fill Piezometers
	A4 Drain Piezometers
Appendix B	Inclinometer Data
Appendix C	2009 Annual Inspection Photographs

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SECTION 1.0 - INTRODUCTION

1.1 PROJECT DESCRIPTION

The Mount Polley Copper and Gold Mine, which is owned and operated by Mount Polley Mining Corporation (MPMC), is located in central British Columbia approximately 56 kilometres northeast of Williams Lake. The mine is accessible by paved road from Williams Lake to Morehead Lake and then by gravel road for the final 12 km. Mount Polley Mine started production in 1997 with an ore reserve of approximately 85 million tonnes of copper and gold in three ore bodies. The Bell and Cariboo Pits were developed in the early years of operations with pioneering work being completed on the Springer Pit.

MPMC milled approximately 27.5 million tonnes of ore prior to suspending operations in October 2001 due to a sustained period of low metal prices. The mine subsequently operated under care and maintenance conditions from October 2001 to March 2005. Exploration activities continued during the care and maintenance period and a new high grade zone, called the northeast zone, was discovered in 2003. The discovery of the northeast zone, along with increased metal prices, resulted in the mine resuming operations again in March 2005. Current mine production includes the development of the Springer and Southeast deposits (mining the northeast zone as the Wight pit was completed in mid-2009), with ongoing exploration in other zones on the property.

The ore is processed by selective flotation to produce a copper-gold concentrate at a mill throughput of approximately 20,000 tpd. Mine tailings are deposited by gravity as slurry into the Tailings Storage Facility (TSF) located approximately four kilometers south, southeast of the mill. Process water in the TSF is collected and recycled back to the mill for re-use in the milling process. The overall site plan for the mine, showing the Stage 6b footprint of the TSF, is shown on Drawing 101-1/18-100.

1.2 SCOPE OF REPORT

Mount Polley Mining Corporation requested Knight Piésold complete a site inspection of the TSF and prepare an Annual Inspection Report that meets the guidelines outlined by the Ministry of Forests, Mines and Lands, (previously the Ministry of Energy, Mines and Petroleum Resources). Mr. Les Galbraith, P.Eng., of Knight Piésold (KP) conducted the 2010 inspection on October 7, 2010. This report presents the results of the annual inspection. The inspection involved making visual observations of the TSF and includes a review of the instrumentation records. This report also includes a review of the ancillary works, which includes the tailings and reclaim pipelines, the Mill Site Sump, and the South Bootjack Dam.

Selected photographs taken during the site inspection are included in Appendix C.

SECTION 2.0 - TAILINGS STORAGE FACILITY AND ANCILLARY WORKS

2.1 TAILINGS STORAGE FACILITY

2.1.1 General

The principal objectives of the TSF are to provide secure containment for tailings solids and to ensure that the regional groundwater and surface water flows are not adversely affected during or after mining operations. An additional requirement for the TSF is to allow for effective reclamation of the tailings impoundment and associated disturbed areas at closure.

The TSF at Mount Polley consists of one embankment which is approximately 4,200 m long. The TSF embankment is divided into three sections referred to as the Main, Perimeter, and South Embankments. The current crest elevation of the TSF, which corresponds to the Stage 6b embankment raise completed in the summer of 2010, is 958 m. The heights of the TSF embankments corresponding to a crest elevation of 958 m are approximately 45 m, 27 m, and 17 m for the Main, Perimeter, and South Embankment, respectively. The tailings embankments have been designed for staged expansion using the modified centreline construction method. The TSF plan and sections, corresponding to the Stage 6b construction program, are shown on the following drawings:

- VA101-1/18-100 Rev 1 Stage 6a Tailings Embankment – Overall Site Plan
- VA101-1/18-102 Rev 1 Stage 6a Tailings Embankment – General Arrangement
- VA101-1/18-104 Rev 2 Stage 6a Tailings Embankment – Material Specifications
- VA101-1/18-210 Rev 2 Stage 6a Main Embankment – Plan
- VA101-1/18-215 Rev 2 Stage 6a Main Embankment – Section
- VA101-1/18-216 Rev 1 Stage 6a Main Embankment – Detail
- VA101-1/18-220 Rev 2 Stage 6a Perimeter Embankment – Plan
- VA101-1/18-225 Rev 2 Stage 6a Perimeter Embankment – Section
- VA101-1/18-226 Rev 1 Stage 6a Perimeter Embankment – Detail
- VA101-1/18-230 Rev 2 Stage 6a South Embankment – Plan
- VA101-1/18-235 Rev 2 Stage 6a South Embankment – Section 1, and
- VA101-1/18-236 Rev 1 Stage 6a South Embankment – Section 2.

2.1.2 Tailings Storage Facility Components

The main components of the TSF are as follows:

- TSF embankments. The TSF embankments are zoned earthfill/rockfill embankments that include the following zones and materials:
 - Zone S - Core zone - fine grained glacial till.
 - Zone F - Filter, drainage zones, and chimney drain - processed sand and gravel. Zone F material provides a filter relationship between the Zone S and the Zone T material.
 - Zone T - Transition filter zone - select well-graded, fine-grained rockfill. Zone T material provides a filter relationship between the Zone F and the Zone C material.
 - Zone C - Downstream shell zone – rockfill.

- Zone U - Upstream shell zone – materials vary. Zone U provides upstream support for the Zone S core zone for modified centreline construction.
- A low permeability basin liner (natural and constructed) covers the base of the entire facility at a nominal depth of at least 2 m. The Zone S core zone ties into the basin liner to provide a continuous low permeability seepage barrier within the impoundment.
- Seepage Collection and Recycle Ponds located downstream of the Main, Perimeter and South Embankments. The Seepage Collection and Recycle Ponds were excavated in low permeability soils and collect water from the embankment drains and runoff from the downstream slope of the embankments. Water collected in the ponds is pumped back to the TSF.
- A foundation drain and pressure relief well system located downstream of the Stage 1B Main Embankment. The foundation drain and pressure relief well system prevents the build-up of excess pore pressure in the foundation. Groundwater and/or seepage are transferred to the Main Embankment Seepage Collection Pond.
- Embankment drainage provisions, which include foundation drains, chimney, longitudinal and outlet drains, and upstream toe drains. Flows from the embankment drainage provisions report to their respective Seepage Collection Ponds where the flows are measured prior to being pumped back to the TSF.
- Geotechnical Instrumentation in the tailings, embankment fill materials, embankment drains, and embankment foundation materials. Geotechnical instrumentation includes vibrating wire piezometers and slope inclinometers.
- A system of groundwater quality monitoring wells installed around the TSF.

2.2 ANCILLARY WORKS

Ancillary works that are key to the operation of the TSF include the following:

- Tailings and Reclaim Pipelines. The tailings pipeline comprises approximately 7 km of HDPE pipe of varying diameters and pressure ratings extending from the mill down to the crest of the tailings embankment. The tailings pipeline and discharge system extends around the TSF to facilitate tailings beach development. The tailings pipeline has a design flow of 20,000 tpd at 35% solids by dry weight. The reclaim pipeline system returns water from the TSF to the mill site for re-use in the process. The system comprises a pump barge, a reclaim pipeline and a reclaim booster pump station.
- Mill Site Sump. Runoff from the Mill Site is routed and stored in the Mill Site Sump. Excess water from the sump is routed into the tailings pipeline near the mill for storage in the TSF.

2.3 2010 CONSTRUCTION ACITIVITIES

The construction activities at the TSF during the past year included the following:

- Completing the Stage 6b expansion of the TSF that involved raising the crest elevation to 958 m, an increase of 4 m from the Stage 6a crest elevation. The Stage 6b construction program was

completed in August 2010. Details of the Stage 6b construction program were issued in the Stage 6b Construction Report¹.

- Expanding the TSF Main Embankment buttress. The buttress requirements for the Main Embankment were reviewed and revised by Knight Piésold in 2009 resulting from slight displacements measured in inclinometer SI01-02².
- Constructing the Seepage Collection and Recycle Pond at the South Embankment.
- Extending the upstream toe drain installation at the South Embankment west abutment.

¹ Knight Piésold report - Tailings Storage Facility – Report on Stage 6b Construction. Ref. No. VA101-1/29-1. December 2010.

² Knight Piésold Letter – Buttress Requirements for the Main Embankment. Ref. No. VA09-00838), July 3, 2009.

SECTION 3.0 - SITE INSPECTION

3.1 GENERAL

Mr. Les Galbraith arrived on site on October 7, 2010, and held discussions with Mr. Ron Martel of MPMC regarding activities and observations at the TSF over the past year. Mr. Martel indicated that a tension crack had been identified at the Perimeter Embankment. No other concerns were raised by Mr. Martel. The 2010 inspection of the TSF occurred that afternoon. The weather conditions at the time of the inspection consisted of clear skies.

3.2 TAILINGS STORAGE FACILITY

3.2.1 Tailings Dam Classification

The classification of the TSF was reviewed as part of the 2006 Dam Safety Review (DSR)³. The Dam Safety Review recommended that the hazard classification be reviewed assuming that the owner's costs were not included in the rating selection. This was discussed with MPMC and the hazard classification for the TSF was subsequently reduced to "LOW" based on the 1999 Canadian Dam Association (CDA) guidelines⁴.

The CDA updated their 'Dam Safety Guidelines' in 2007⁵, which introduced a new rating system that included five classifications from Low to Extreme. The updated classification of the TSF was revised in 2007 to the "Significant" category, which was analogous to the previous "Low" classification from the 1999 CDA guidelines.

The classification of the tailings dams, as recommended in the 2006 Dam Safety Review, was based on potential consequences to the receiving environment and public safety. The environmental impacts resulting from a theoretical dam breach have not been evaluated and it is therefore recommended that a Dam Breach and Inundation Analysis be completed in 2011. The study should evaluate dam breaches at various TSF locations using the ultimate height of the TSF embankments. The Dam Breach and Inundation Analysis will evaluate whether there is significant or major loss to important or critical fish and/or wildlife habitat and whether the "Significant" classification for the tailings dam is still considered appropriate.

The results of the Dam Breach and Inundation Analysis would also be incorporated into the Emergency Preparedness and Response Plan.

³ AMEC Report – Dam Safety Review. December 2006.

⁴ Canadian Dam Association - Dam Safety Guidelines - 1999

⁵ Canadian Dam Association - Dam Safety Guidelines - 2007

3.2.2 Tailings Storage Facility Embankments

Pertinent observations regarding the condition of the TSF were as follows:

- A tension crack was observed at the Perimeter Embankment at an approximate chainage of 3+400. The tension crack is in the Zone C material at the downstream edge of the embankment crest. The tension crack was apparently identified two months earlier by the grader operator and was approximately 10 to 15 m long. The area has since been graded over but portions of the tension crack are still visible. The location of the tension crack in relation to the downstream slope is not an uncommon occurrence in rock slopes as the outer edge of the material typically receives less compaction effort. A tension crack does not necessarily indicate a plane of weakness in fill materials but it can't be ignored either. The tension crack is located on a section of the Perimeter Embankment located upstream of the Zone S borrow area.

It is recommended that a stability assessment be completed for this area to assess whether the borrow area configuration has any impact on the integrity of the current, and ultimate embankment section. It should also be noted that the identification of a tension crack, or any other abnormal observation at the tailings dam, should be reported to the design engineer immediately and prior to any remedial action being taken.

- Other than the tension crack mentioned above, no signs of distress were identified at the tailings embankments. The embankment slopes were approximately planar and there was no evidence of cracking, bulging or slumping in the embankment fill. The embankment crest appeared to be relatively level with no signs of differential settlement or distress. There was no evidence of animal burrowing.
- No major unexpected or uncontrolled seepage was observed from the embankments, including fill slope and foundations.
- The tailings embankments currently have a downstream slope of approximately 1.4H:1V. This was previously constructed as an interim slope to balance the construction material requirements with the waste production schedule for that particular year. This short term slope configuration still exists.

It is recommended that the downstream slope of the Main Embankment be evaluated during the Stage 7 design phase to assess whether it requires flattening at this time.

- Slight deviations measured in the lacustrine unit in Inclinator SI01-02 resulted in the recommendation for constructing a downstream buttress². The results of the stability assessment recommended a buttress be constructed downstream of the Main Embankment to an elevation of 920 m for a crest elevation of 958 m, the crest elevation for the Stage 6b embankment. The Stage 6b buttress footprint, which extends to both sides of the Main Embankment Seepage Collection and Recycle Pond, is shown on Drawing VA101-1/29-210. The letter also recommended that the buttress be constructed prior to the commencement of the Stage 6b construction program, which did not happen.

It is recommended that the Main Embankment buttress requirements and timing be re-evaluated as part of the Stage 7 design of the TSF.

3.2.3 Tailings Beach

MPMC is currently single point discharging tailings near the northwest corner of the TSF. Prolonged discharge from this location has resulted in the supernatant pond migrating towards the Main and South Embankments where there is a lack of beach development. The beached tailings, when left to drain and consolidate, form the competent foundation required for the modified centerline construction embankment raises.

Knight Piésold has previously recommended to MPMC⁶ the following regarding tailings beach development in the TSF:

- A beach width of at least 20 m is to be maintained along the abutments of the embankments (where the embankment contacts natural ground) and at least a 10 m width elsewhere to keep the pond away from the embankments.
- MPMC should develop a plan and schedule to enable the minimum target beach widths to be re-established within a 2 week period should they be infringed upon.
- MPMC shall increase the frequency of measurements for embankment instrumentation systems (piezometers and foundation drains - flow rate and turbidity) to at least once per week during any periods that ponded water encroaches within the minimum target beach widths.

It is recommended that MPMC adhere to the previous recommendations and develop a tailings management strategy that results in the MEMPR requirements for beach development along all of the embankments.

3.2.4 Operations, Maintenance and Surveillance Manual and the Emergency Preparedness and Response Plan

The Operations, Maintenance and Surveillance Manual and the Emergency Preparedness and Response Plan are live documents updated regularly by MPMC. The Operations, Maintenance and Surveillance Manual was last updated March 30, 2010. The Emergency Preparedness and Response Plan was last updated 2010 (no month provided).

3.2.5 Impoundment Freeboard Requirements

The design basis for the TSF includes a freeboard allowance to contain the 72-hour PMP event, which corresponds to approximately 1,070,000 m³. This would result in an increase in the TSF pond elevation of approximately 0.6 m. The freeboard requirement for wave run-up is approximately 0.8 m, for a total freeboard requirement of 1.4 m. The supernatant pond was at elevation 952.9 m at the time of Mr. Galbraith's inspection on October 7th, 2010 and the freeboard

⁶ Knight Piésold Memo – Geotechnical Inspection by MEMPR – Ref. VA08-01436. August 5, 2008.

requirement of 1.4 m has been maintained during the previous year by MPMC. MPMC does not have a discharge permit and has provisions in place to pump surplus water from the TSF to the Cariboo Pit, if required, to ensure the minimum freeboard requirements for the TSF are not infringed upon.

MPMC reported that the supernatant pond volume was approximately 650,000 m³ in June 2010. A small TSF operating pond increases the risk of higher total suspended solids in the reclaim process water. A small pond may also result in operating challenges (insufficient depth to float the reclaim barge, insufficient water available for reclaim from the TSF) associated with drier than expected conditions that are difficult to predict.

The mill currently sources its process water from the TSF and it is recommended that the tailings pond have a defined lower operating volume so that there is sufficient settling time for the tailings solids and also to ensure that there is enough free water in the TSF to provide process water to the mill through the winter months when there is minimal surface runoff.

3.2.6 Seepage Collection Ponds

The Main, Perimeter and South Embankment seepage collection ponds are located immediately downstream of their respective embankments. These ponds were excavated in low permeability glacial till materials and collect water from the embankment drain systems and from local runoff. The seepage collection ponds were observed to be in good condition with no observed erosion activity.

3.2.7 Drain Flow Data

The upstream toe drain and foundation drains at the Main Embankment flow into the sump at the Main Embankment Seepage Collection Pond where the flows are measured. The upstream toe drains at the Perimeter and South Embankment drain into their respective seepage collection ponds via a ditch. The flow rates are currently measured at the end of the pipe. Water from the upstream toe drains and foundation drains is pumped back into the TSF.

The flow rates have been measured since July 2000; however the flow rates from the drains were not monitored during the Care and Maintenance Period. This condition was anticipated as flow monitoring is only possible during operations when the seepage pond level has been pumped down.

The inspection frequency for the upstream toe drains and the foundation drains, as per the Operation, Maintenance and Surveillance (OMS) Manual, is weekly. The inspection includes a visual check on flow clarity, and an estimate of the drain flows. The flows have not been measured since June 2009, which is not in compliance with the OMS Manual.

It is recommended that a monitoring plan be developed by MPMC to allow for drain flow monitoring as per the OMS Manual.

3.2.8 Piezometer Data

3.2.8.1 General

Vibrating wire piezometers have been installed at the TSF along nine planes, designated as monitoring planes A to I. Monitoring planes A, B, C and E are located on the Main Embankment, monitoring planes D, G, and H are located on the Perimeter Embankment, and monitoring planes F and I are located on the South Embankment. The location of the TSF monitoring planes are shown on Drawing 255. The Monitoring Planes are shown in section on Drawings 256, 257, 258, and 259. The piezometers are grouped into tailings, foundation, fill and drain piezometers. The results from each group are discussed below. The timeline plots for the piezometers are included in Appendix A.

The reading frequency for the piezometers, as outlined in the Operation, Maintenance and Surveillance Manual, is monthly at a minimum, and weekly during periods of construction. The monthly reading frequency was not maintained during the last year. The reading frequency tends to increase during non-construction periods.

The piezometric levels provide valuable input to the design and operation of the TSF and it is recommended that MPMC develop an instrumentation reading plan to ensure the piezometers are read and reported to the design engineer at the required frequency.

The TSF has been in operation since 1997 and approximately 92 vibrating wire piezometers have been installed in the TSF, of which approximately 60% are still functioning. The 2006 DSR stated that there were “about the right number of piezometers installed in the embankment dams”, but also noted that there was little redundancy with respect to the piezometers and lost instrument locations should be re-established with new installations. An instrumentation installation program has been proposed to MPMC to replace the lost instrumentation⁷. This program is expected to be carried out toward the end of 2010.

3.2.8.2 Tailings Piezometers

There are currently 10 functioning tailings piezometers. The tailings piezometers are typically installed close to the embankments and the pore pressures are sensitive to the location of the tailings pond in relation to the embankments. The pore pressures observed in the tailings piezometers at the Main Embankment have shown slight fluctuations during the Stage 6b construction program in response to the development of the tailings beach and the subsequent re-location of the tailings pond away from the embankment. Timeline plots of the tailings piezometer data are included in Appendix A1.

⁷ Knight Piésold Letter – Mount Polley Tailings Storage Facility – Instrumentation Repair, Productivity Upgrade and remote Monitoring Capacity. Ref VA10-01175. July 22, 2010.

The tailings piezometers show the upstream toe drain is effective in reducing the piezometric head in the tailings mass.

3.2.8.3 Embankment Foundation Piezometers

There are currently 8 functioning embankment foundation piezometers. Artesian conditions are present in 3 of the 7 foundation piezometers installed under the Main Embankment. Artesian conditions have previously been identified in the foundation of the Main Embankment and the piezometers installed in this area are used to confirm that pore pressures remain below the design threshold level of 6 metres above ground level⁸. No unexpected high pore pressure increases were noted during the Stage 6b construction program with the artesian pressures ranging from surface to 2.17 m above ground. The artesian head values (above ground surface level) measured in August 2010 are shown on Table 3.1.

Timeline plots of the embankment foundation piezometers are included in Appendix C2. There are no concerns with the embankment foundation piezometers, however, several of the Main Embankment piezometers are no longer working. There are currently no functioning piezometers located in the Plane A foundation at the Main Embankment. Additional piezometers are planned for installation in this location in the upcoming piezometer installation program.

It is recommended that no additional raises be completed on the TSF until the lost instrumentation has been established.

3.2.8.4 Embankment Fill Piezometers

There are currently 23 functioning embankment fill piezometers. There have been no significant changes in the trends of the embankment fill piezometers. Piezometer A2-PE2-03, located at the Main Embankment, showed a slight increase in pore pressures corresponding to fill placement during the Stage 6b construction program. This trend has been observed in the past with this piezometer and it is anticipated that the slightly elevated pore pressures will dissipate following the construction programs as they have previously.

Timeline plots of the embankment fill piezometer data are included in Appendix A3.

3.2.8.5 Drain Piezometers

There are currently 15 functioning drain piezometers. The drain piezometers are installed in the foundation drains, chimney drain, upstream toe drains, and outlet drains.

⁸ Knight Piésold Report – Updated Design Report. Ref. No. 1162/7-2. June 1997.

The majority of the drain piezometers showed near-zero pore pressures, indicating that the drains are functioning as intended. Timeline plots for the drain piezometers are shown in Appendix C4.

3.2.9 Slope Inclinometers

A total of five slope inclinometers have been installed at the Main Embankment to measure potential displacements in the lacustrine unit that underlies the embankment. One of the inclinometers (SI01-01) was damaged during the placement of the shell zone material and is no longer functioning. The last reading for SI01-01 was March 2006. There are four functioning inclinometers installed at the Main Embankment.

The results of the inclinometer readings indicate that there have not been any significant deviations measured in three of the inclinometers since their installation. However, inclinometer SI01-02 is showing slight deviations (approximately 4 mm) at an approximate depth of 10 m below ground in the lacustrine silts. This is being closely monitored by MPMC who have expanded the buttress at the Main Embankment as a result of the measured displacements in SI01-02. The results of the readings for inclinometers are included in Appendix B.

3.2.10 Survey Monument Data

There are currently no survey monuments installed on the TSF embankment crests due to the ongoing construction of the TSF embankments.

3.3 WATER MANAGEMENT

3.3.1 General

MPMC mine personnel complete on-going surface water monitoring and water management activities to ensure compliance with the current mine permits. The site inspection evaluated the physical aspects of the water management program at the TSF. Knight Piésold has not reviewed the geochemical characteristics of the water management operations. This report focuses on the aspects of the water management plan that are significant from a dam safety perspective.

3.3.2 Surface Water Control

Surface water control at the mine site comprises the interception of runoff from disturbed (and some undisturbed) catchment areas for diversion into the TSF. Surface water control structures include the following:

- Mill Site Area - Surface water from the Mill Site Area is routed into the Mill Site Sump where it is transferred to the TSF via the tailings pipeline.
- Southeast Rock Disposal Site - Surface water is intercepted by runoff collection ditches and transferred to the Perimeter Embankment Seepage Collection Pond via a runoff collection ditch.
- North East Zone Pit and Waste Dumps – Surface and groundwater from the North East Zone are stored in the North East Zone Pit. Surface runoff from the North East Zone Waste

Dumps is directed to the Perimeter Embankment Seepage Collection Pond via a diversion ditch.

- Tailings Storage Facility Area - Clean surface water runoff from the undisturbed catchment area above the impoundment is routed around the TSF to reduce the accumulation of water within the impoundment. The diversion ditch was unobstructed at the time of the inspection and the water flowing in the ditch was clear.

3.3.3 Water Balance

MPMC is managing the site water balance and it has not been reviewed by the TSF design engineer in 2010. Short and long term water management planning is an integral component solids waste management at any mine. Furthermore, as with any complex model, it is good practice to employ a review of the water balance model to ensure it is functioning as designed.

It is recommended the site water balance be reviewed and updated as part of the Stage 7 design of the TSF and include a stochastic analysis to evaluate wet and dry precipitation conditions.

The mine site is reported by MPMC to be currently operating with a water surplus, as total inflows from precipitation and surface runoff exceed losses from evaporation, void retention in the tailings mass in the TSF, and seepage loss. Site surplus water is currently being stored in the TSF, the Cariboo Pit and the North East Zone Pit and MPMC is currently exploring ways to discharge surplus water to reduce the increasing site storage requirements in these locations. The site water balance is an important component to the operation of the mine as it not only provides key inputs to the planning, design and operation of the TSF, it also tracks site water to ensure the mine is in compliance with existing storage and discharge permits.

3.3.4 External Water

MPMC staff carries out water quality monitoring of external water regularly. The water being monitored includes surface water from ditches, streams, creeks and lakes, as well as groundwater from monitoring wells. The results of the site water quality monitoring are reported by Mount Polley in the Annual Environmental and Reclamation Report.

3.4 ANCILLARY WORKS

Ancillary works that are key to the operation of the TSF include the tailings and reclaim pipelines, the Mill Site Sump, and the South Bootjack Dam:

3.4.1 Tailings and Reclaim Pipelines

The tailings pipeline was in operation at the time of the inspection with tailings being single point discharged at the northwest corner of the embankment. There have been no reported problems with the tailings pipeline.

The reclaim pipeline was recycling supernatant water back to the mill for re-use in the process at the time of the inspection. There have been no reported problems with the reclaim pipeline and the pipeline was observed to be in sound condition.

3.4.2 Mill Site Sump

Surface water from the Mill Site Area is routed into the Mill Site Sump where it is transferred to the TSF via the tailings pipeline. The embankments at the Mill Site Sump were observed to be in good condition, and no cracks, seepage or slumping was noted. The emergency overflow culvert was clear of obstructions.

3.4.3 South Bootjack Dam

The South Bootjack Dam was observed to be in good condition at the time of the inspection. Observations include the following:

- Both upstream and downstream fill slopes were in good condition, with no evidence of seepage or slumping
- No cracks were observed on the dam crest, and
- The spillway contained some minor vegetation, but was generally unobstructed.

SECTION 4.0 - SUMMARY AND RECOMMENDATIONS

The TSF at Mount Polley consists of one embankment approximately 4,200 m long which is divided into three embankment sections; the Main, Perimeter, and South Embankment, which are connected and form. The current crest elevation of the TSF is 958 m. The heights of the TSF embankments are approximately 45 m, 27 m, and 17 m for the Main, Perimeter, and South Embankment, respectively. The tailings embankments have been designed for staged expansion using the modified centreline construction method. The embankments are zoned earthfill/rockfill embankments and include a low permeability core zone which ties into a natural and constructed low permeability basin liner to form a continuous low permeability seepage barrier within the impoundment.

The classification of the TSF is currently "Significant", as per 2007 Canadian Dam Association Dam Safety Guidelines. The environmental impacts resulting from a theoretical dam breach have not been evaluated and it is recommended that a Dam Breach and Inundation Analysis be completed in 2011 to assess whether there is a requirement to modify the classification based on downstream impacts to fish and/or wildlife habitat.

A tension crack was observed at the Perimeter Embankment on the downstream side of the crest in the Zone C rockfill material. Although this is likely the result of loosely compacted material on the downstream slope of the embankment, the stability of this section of the Perimeter Embankment should be evaluated as part of the Stage 7 design phase.

Other than the tension crack, the TSF embankments were observed to be in good condition. No seepage or slumping was observed and no signs of instability were observed in the embankment fill slopes. No major unexpected or uncontrolled seepage was observed from the embankments.

The downstream slope at the Main Embankment is approximately 1.4H:1V. This was previously constructed as an interim slope but the over-steepened slope configuration still exists. It is recommended that the downstream slope of the Main Embankment be evaluated during the Stage 7 design phase to assess whether it requires flattening at this time.

Slight deviations identified in Inclinator SI01-02 have resulted in the construction of a buttress at the Main Embankment. An initial buttress was constructed downstream of the measured displacements but was not constructed across the entire embankment as recommended.

The TSF at Mount Polley is required to have a minimum freeboard of 1.4 m at all times for containment of the 72-hour PMP event and wave run-up requirements. The freeboard requirements for the TSF were achieved during the past year.

The instrumentation at the TSF consists of vibrating wire piezometers and inclinometers. There have been no unexpected or anomalous instrumentation readings. However, approximately 40% of the vibrating wire piezometers installed in the tailings embankments are no longer functioning. Replacing the lost instrumentation is an outstanding item from the 2006 DSR. A program has been proposed by Knight Piésold to replace the lost instrumentation by the end of 2010.

The Millsite Sump, and South Bootjack Dam were observed to be in good condition with no geotechnical issues outstanding. The Southeast Sediment Pond is no longer in service and runoff that previously reported to the Southeast Sediment Pond is now being routed to the Perimeter Embankment Seepage Collection Pond.

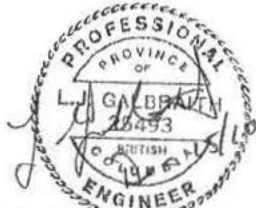
Recommendations for on-going operations of the TSF are summarized below:

- Develop an instrumentation monitoring plan that is consistent with the reading frequencies reported in the Operations, Maintenance and Surveillance Manual. The schedule for reading the instrumentation and embankment drain flows in as follows:
 - Piezometer and Inclinator readings - monthly as a minimum (weekly during construction programs), and
 - Drain monitoring sumps - weekly.
- Continue to update the Operations, Maintenance and Surveillance Manual and the Emergency Preparedness and Response Plan Manuals as required.
- Develop a tailings deposition plan to deposit tailings from around the facility to facilitate the development of tailings beaches and manage the location of the tailings pond.
- Continue regular monitoring of the water quality and levels in the surrounding groundwater wells.
- Continue regular monitoring of the tailings pond elevation.
- Review the Water Management Plan and site water balance on a regular basis to ensure they are consistent with updated plans.
- Define a lower operating volume so that there is sufficient settling time for the tailings solids and also to ensure that there is enough free water in the TSF to provide process water to the mill through the winter months when there is minimal surface runoff.
- Design for closure. All design phases of the TFS should consider the closure and reclamation requirements.

A Dam Safety Review was completed in 2006. The next Dam Safety Review should be carried out by 2011, or during detailed closure design, whichever is earlier.

SECTION 5.0 - CERTIFICATION

This report was prepared and approved by the undersigned.



Prepared:

Les Galbraith, P.Eng.
Senior Engineer

Reviewed and
Approved:

Ken J. Brouwer, P.Eng.
Managing Director

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TABLE 3.1
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY
EMBANKMENT FOUNDATION PIEZOMETERS

Print Dec/08/10 12:17:51

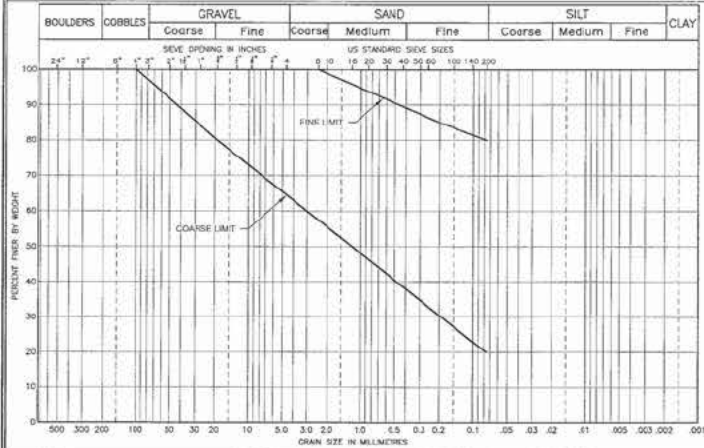
Piezometer	Piezometer Elevation (m)	Surface Elevation (m)	August 2010 Pressure Elevation (m)	August 2010 Artesian Pressure (m)
A2-PE2-01	903.68	912.67	No Longer Functioning	-
A2-PE2-02	909.77	912.67	No Longer Functioning	-
A2-PE2-06	898.01	912.91	No Longer Functioning	-
A2-PE2-07	902.81	912.91	No Longer Functioning	-
A2-PE2-08	907.56	913.36	No Longer Functioning	-
B2-PE1-03	914.05	915.55	915.92	0.37
B2-PE2-01	901.98	916.98	No Longer Functioning	-
B2-PE2-02	909.51	916.98	919.15	2.17
B2-PE2-06	914.59	916.89	No Longer Functioning	-
C2-PE1-03	912.59	-	No Longer Functioning	-
C2-PE2-02	910.53	915.71	916.71	1.00
C2-PE2-06	906.84	915.99	914.74	-1.25
C2-PE2-07	912.29	915.99	No Longer Functioning	-
C2-PE2-08	914.03	915.99	914.77	-1.22
D2-PE2-02	927.32	930.92	930.89	-0.03
E2-PE2-01	914.21	918.81	917.27	-1.54
E2-PE2-02	909.66	918.81	916.74	-2.07

M:\1\01\00001\29\A\Report\2- Annual Inspection Report\Tables\TABLE 3.1 (Foundation Piezos).xls\Foundation piezos

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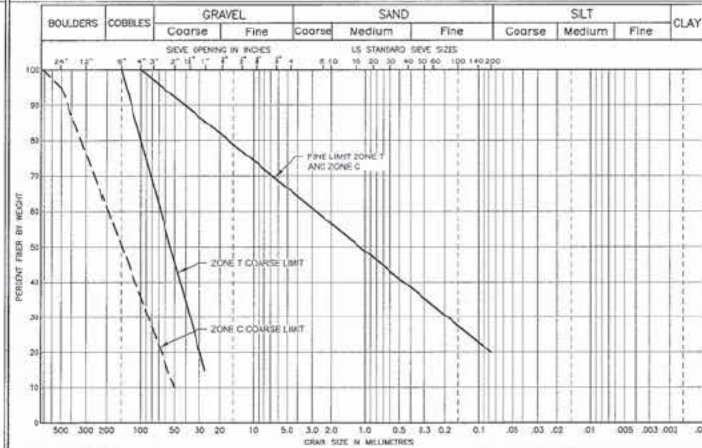
UNIFIED SOIL CLASSIFICATION SYSTEM

ZONE S



UNIFIED SOIL CLASSIFICATION SYSTEM

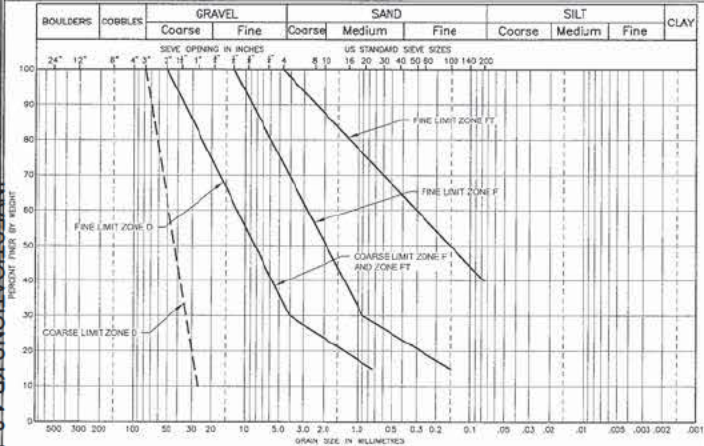
ZONE T and ZONE C



ZONE	MATERIAL TYPE	LOCATION	PLACEMENT & COMPACTION REQUIREMENTS
S	GLACIAL TILL	CORE ZONE	PLACED, MOISTURE CONDITIONED AND SPREAD IN MAXIMUM 300 MM THICK LAYERS (AFTER COMPACTION). VIBRATORY COMPACTION TYPING OR STAGGERS PROCTOR MAXIMUM DRY DENSITY OR AS APPROVED BY THE ENGINEER.
R	ROCK	SHELL ZONE	PLACED AND SPREAD IN MAXIMUM 2000 MM THICK LAYERS AND COMPACTED BY SELECTIVE ROUTING OF MINE HAUL TRUCKS.
T	ROCK	TRANSITION ZONE/ CONFINING SHEET	PLACED AND SPREAD IN MAXIMUM 600 MM THICK LAYERS AND COMPACTED WITH MINIMUM 4 PASSES OF 10 TON SMOOTH DRUM VIBRATORY ROLLER, OR AS APPROVED BY THE ENGINEER.
F	FILTER SAND	FILTER ZONE	PLACED AND SPREAD IN MAXIMUM 600 MM THICK LAYERS AND COMPACTED WITH MINIMUM 4 PASSES OF 10 TON SMOOTH DRUM VIBRATORY ROLLER, OR AS APPROVED BY THE ENGINEER.
FT	SAND	DOWNSTREAM FOUNDATION	PLACED AND SPREAD IN MAXIMUM 300 MM THICK LAYERS AND COMPACTED WITH MINIMUM 4 PASSES OF 10 TON SMOOTH DRUM VIBRATORY ROLLER, OR AS APPROVED BY THE ENGINEER.
U	SELECT FILL	UPSTREAM TOE	PLACEMENT AND COMPACTION REQUIREMENTS TO BE DETERMINED BASED ON MATERIAL SELECTION.
CBL	SELECT COARSE ROCK/FILL	UPSTREAM TOE	PLACED TO ESTABLISH A FIRM FOUNDATION FOR SUBSEQUENT FILL PLACEMENT.
D	DRAINAGE GRAVEL	DRAINS	PLACED AROUND DRAINAGE PIPES AND WRAPPED WITH GEOTEXTILE.

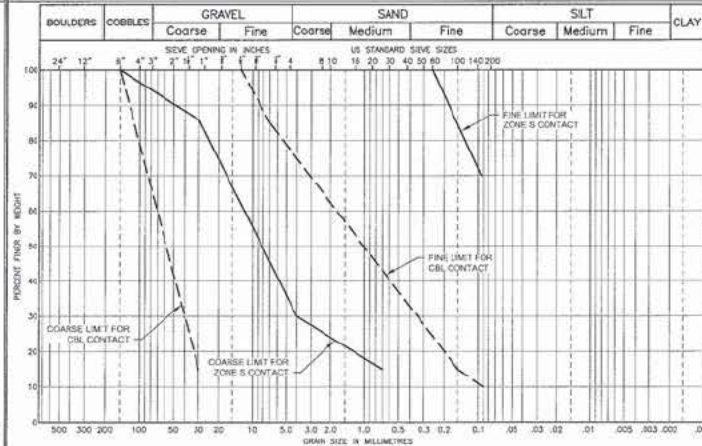
UNIFIED SOIL CLASSIFICATION SYSTEM

ZONE F AND ZONE FT



UNIFIED SOIL CLASSIFICATION SYSTEM

ZONE U



AS-BUILT

235026	STAGE 6b SOUTH EMBANKMENT - SECTIONS AND DETAILS
225026	STAGE 6b 60% SLOPE EMBANKMENT - SECTIONS AND DETAILS
215026	STAGE 6b MAIN EMBANKMENT - SECTIONS AND DETAILS
DRG. NO.	DESCRIPTION

REFERENCE DRAWINGS

REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPRO
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REVISIONS

1	14DEC10	AS-BUILT FOR STAGE 6b CONSTRUCTION	GL	TP	GL	TP
2	01FEB10	ISSUED FOR CONSTRUCTION	LQ	TAM	BB	KJB
REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPRO

REVISIONS

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION

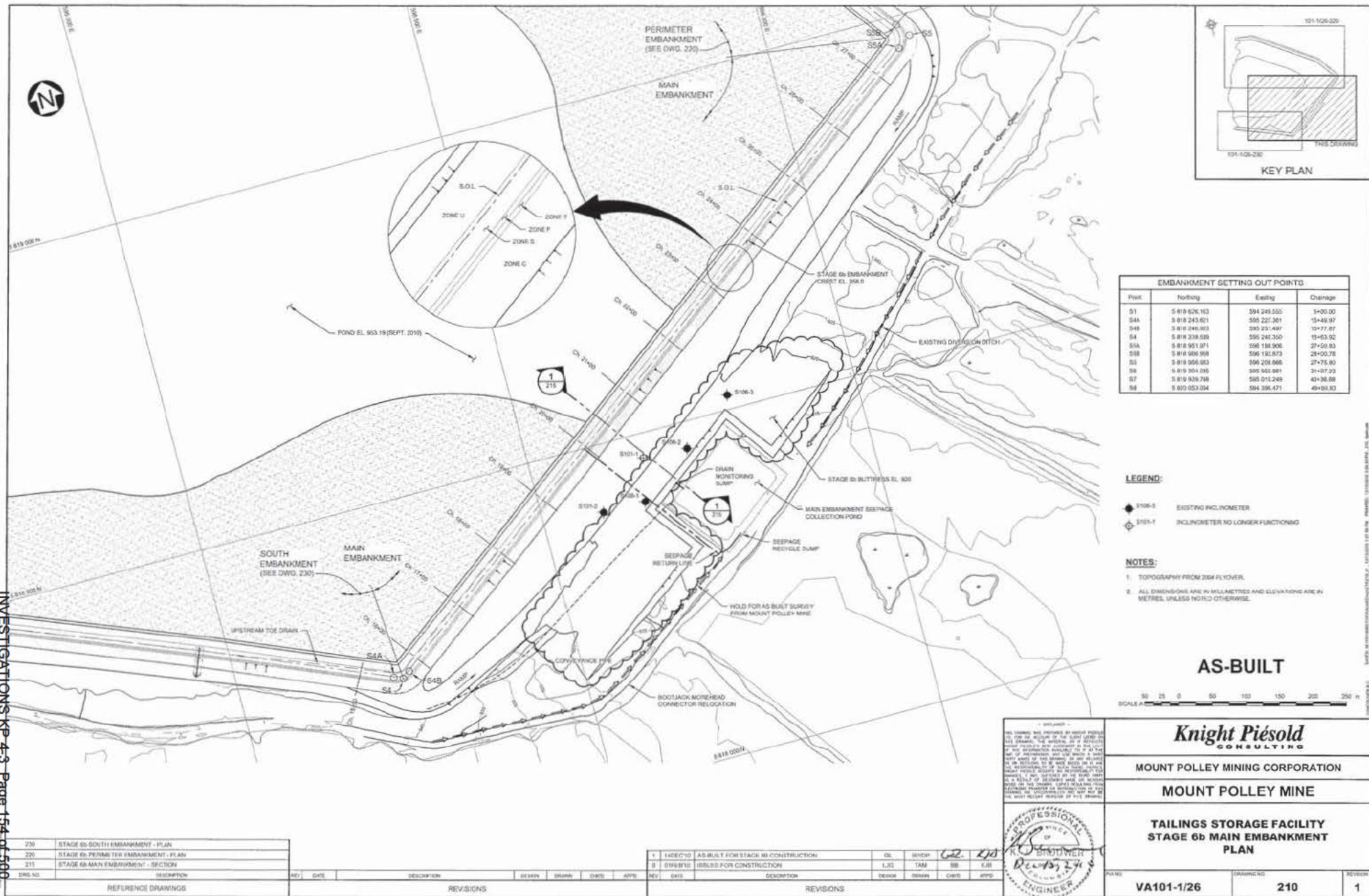
MOUNT POLLEY MINE

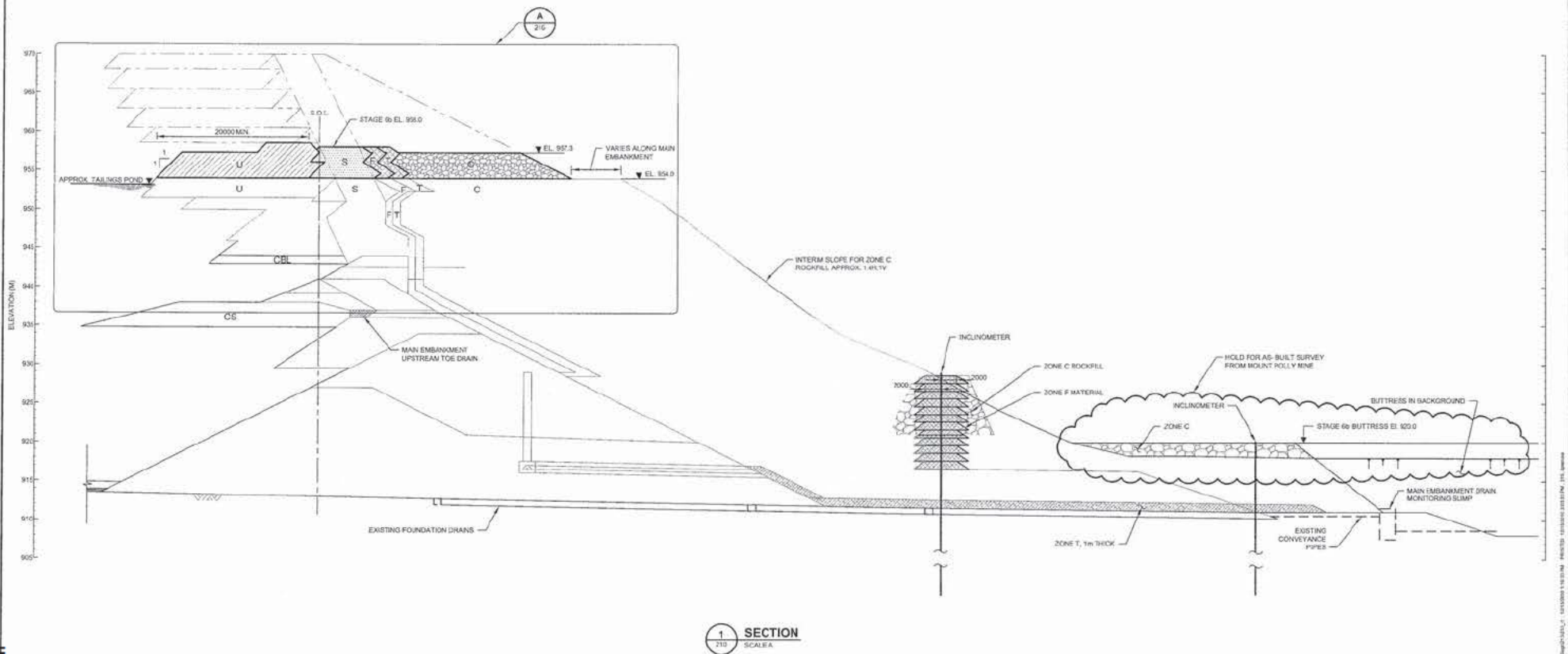
TAILINGS STORAGE FACILITY
STAGE 6b TAILINGS EMBANKMENT
MATERIAL SPECIFICATIONS

VA101-1/26

104

1





1 SECTION
215 SCALE A

AS-BUILT

SCALE A 0 5 10 15 20 25 M

NOTES:

1. FOR MATERIAL SPECIFICATIONS AND LEGEND SEE DRG. 104.
2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.
3. STAGE 6b CONSTRUCTION TO 588.0 m COMPLETED AUGUST 2010

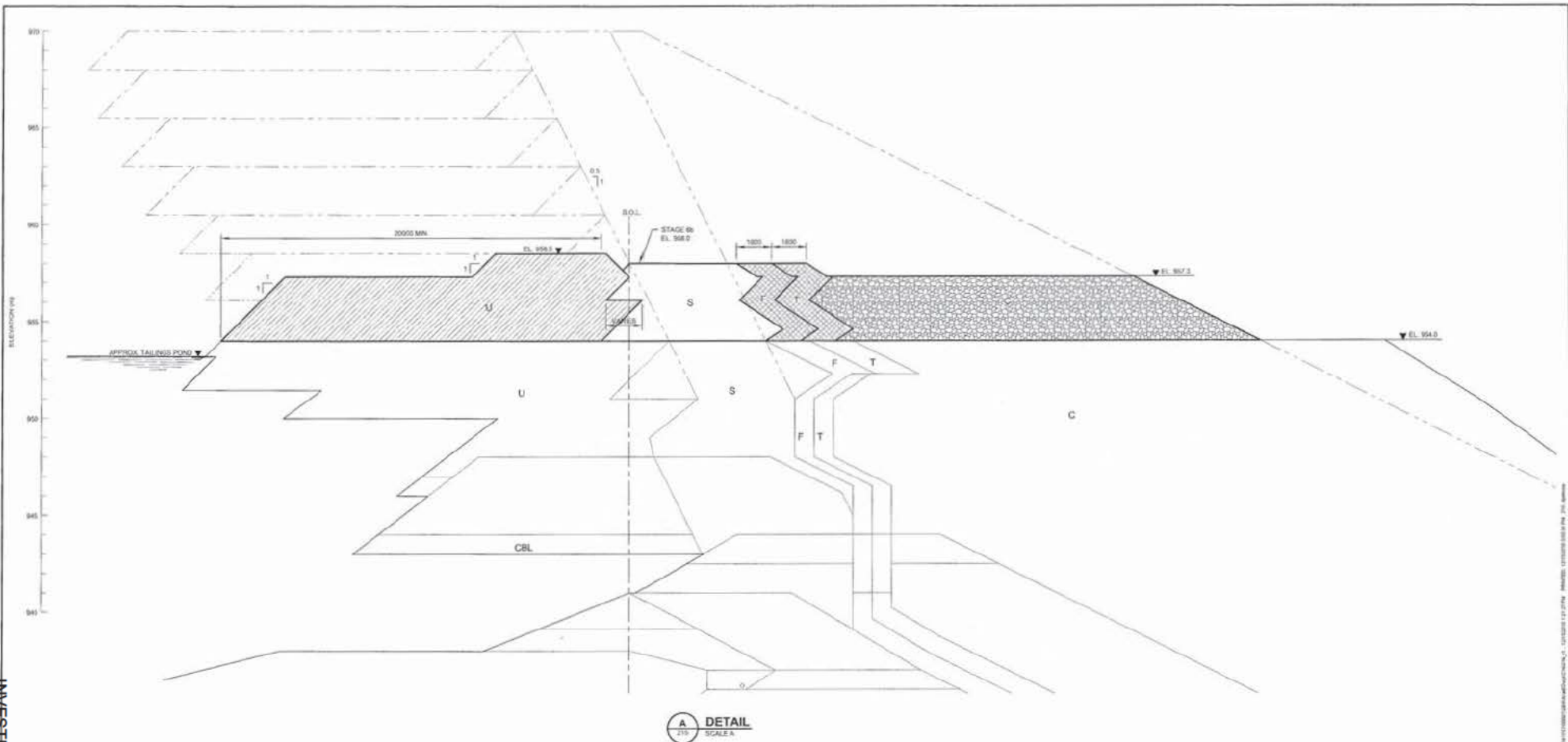
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210	STAGE 6b MAIN EMBANKMENT - PLAN
104	MATERIAL SPECIFICATIONS
DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

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2	01 FEB 10	ISSUED FOR CONSTRUCTION				
REVISIONS						

REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPROV
1	14 DEC 10	AS-BUILT FOR STAGE 6b CONSTRUCTION				
2	01 FEB 10	ISSUED FOR CONSTRUCTION				
REVISIONS						



Knight Piésold CONSULTING	
MOUNT POLLEY MINE	
MOUNT POLLEY MINE	
TAILINGS STORAGE FACILITY STAGE 6b MAIN EMBANKMENT SECTION	
PROJECT NO.	VA101-1/26
DRAWING NO.	215
REVISION	1



AS-BUILT

SCALE 1:100

- NOTES:**
1. FOR MATERIAL SPECIFICATIONS AND LEGEND SEE DWS 104.
 2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.
 3. STAGE 6b CONSTRUCTION TO 658.0 m COMPLETED AUGUST 2010

<p>Knight Piésold CONSULTING</p>	
<p>MOUNT POLLEY MINING CORPORATION</p>	
<p>MOUNT POLLEY MINE</p>	
<p>TAILINGS STORAGE FACILITY STAGE 6b MAIN EMBANKMENT DETAIL</p>	
<p>PROFESSIONAL ENGINEER</p>	<p>VA101-1/26</p>

215	STAGE 6b MAIN EMBANKMENT - SECTION
210	STAGE 6b MAIN EMBANKMENT - PLAN
104	MATERIAL SPECIFICATIONS

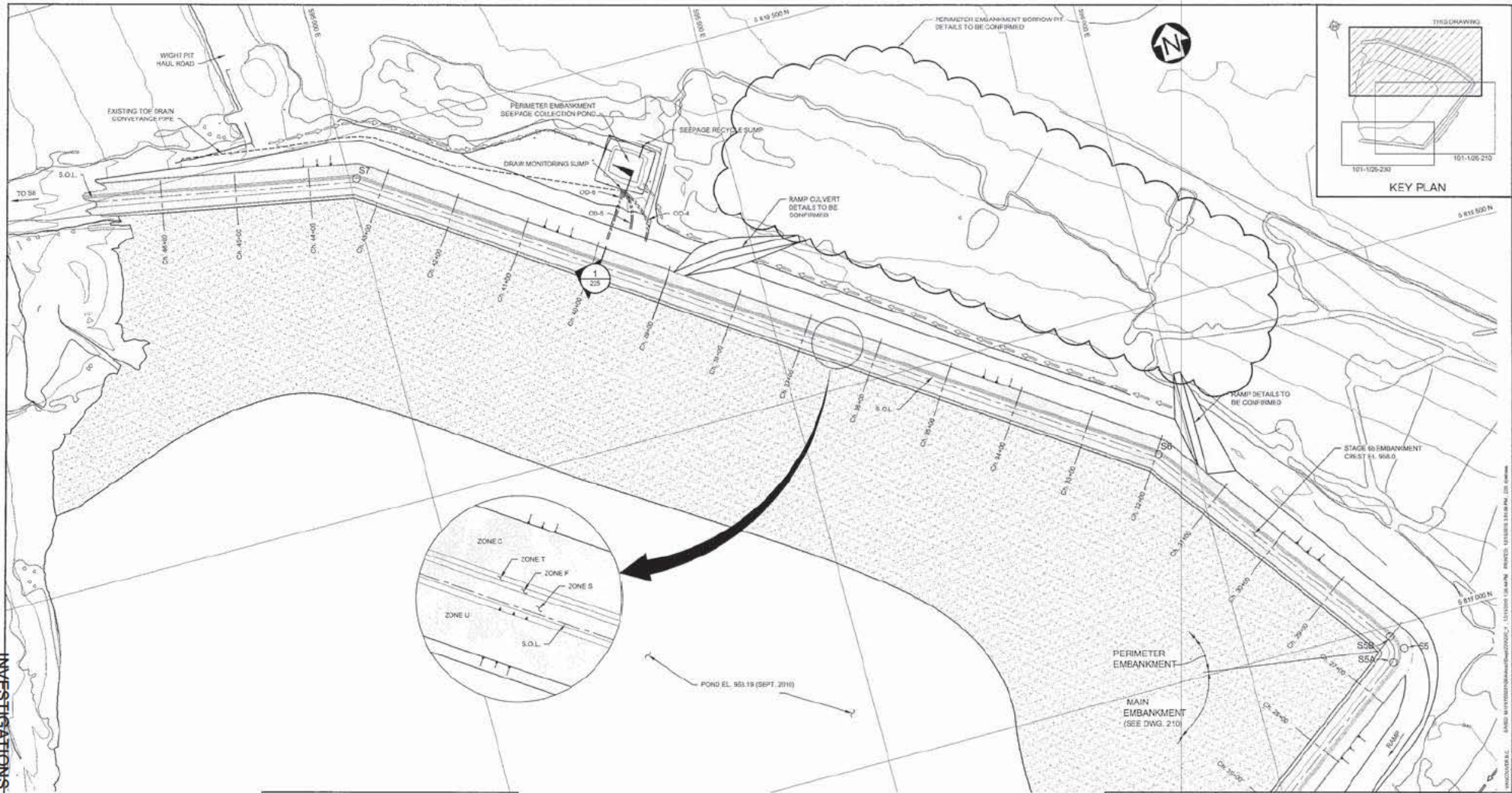
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2	01/07/10	ISSUED FOR CONSTRUCTION	LJO	TAM		

DESIGN	DRAWN	CHECK	APPROV



215	216	1
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EMBANKMENT SETTING OUT POINTS			
Point	Northing	Easting	Chainage
S1	5 818 626.163	594 219.555	5+00.00
S4A	5 818 243.921	595 227.361	15+49.37
S4B	5 818 246.823	595 231.487	15+77.87
S4	5 818 238.539	595 240.350	15+83.92
S5A	5 818 951.971	596 188.906	27+50.83
S5B	5 818 966.390	596 183.873	28+00.73
S5	5 818 966.393	596 208.866	27+75.80
S6	5 815 504.035	595 185.981	31+07.29
S7	5 819 930.748	595 010.249	43+36.69
S8	5 820 053.634	594 396.471	49+00.83

NOTES:

1. TOPOGRAPHY FROM 2004 FLYOVER.
2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

AS-BUILT



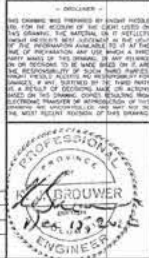
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225	STAGE 6b PERIMETER EMBANKMENT - SECTION
210	STAGE 6b MAIN EMBANKMENT - PLAN

REV.	DATE	DESCRIPTION
1	14/01/10	AS-BUILT FOR STAGE 6b CONSTRUCTION
2	01/08/10	ISSUED FOR CONSTRUCTION

DESIGN	DRAWN	CHECKED	APPROVED
LJO	TAM	BB	KJB

REV.	DATE	DESCRIPTION
1	14/01/10	AS-BUILT FOR STAGE 6b CONSTRUCTION
2	01/08/10	ISSUED FOR CONSTRUCTION

DESIGN	DRAWN	CHECKED	APPROVED
LJO	TAM	BB	KJB



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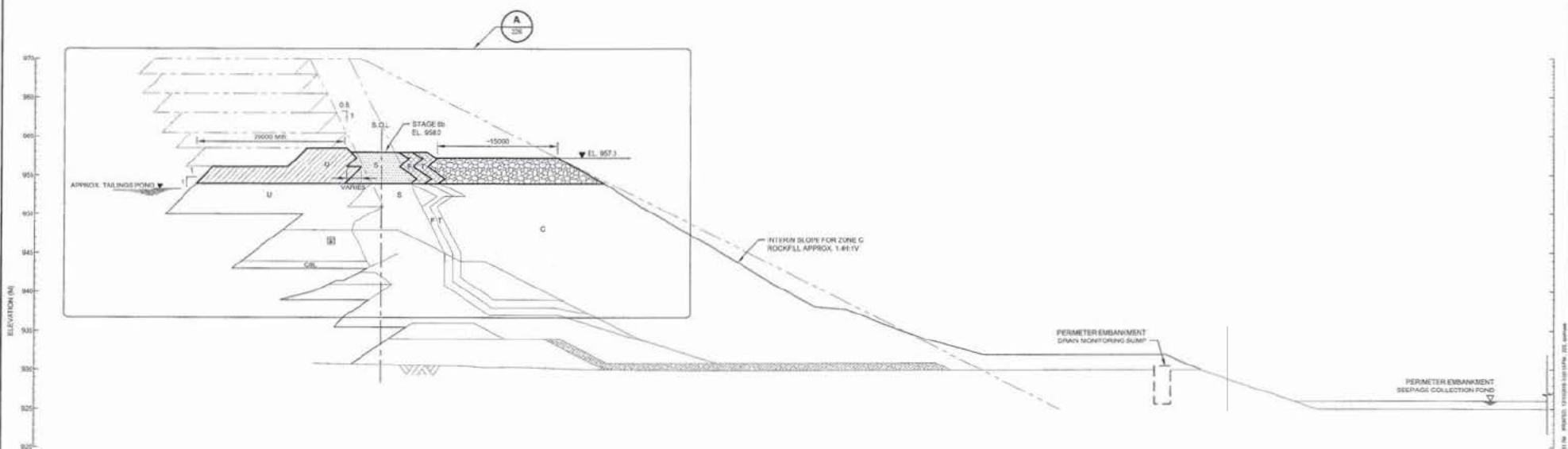
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MOUNT POLLEY MINE

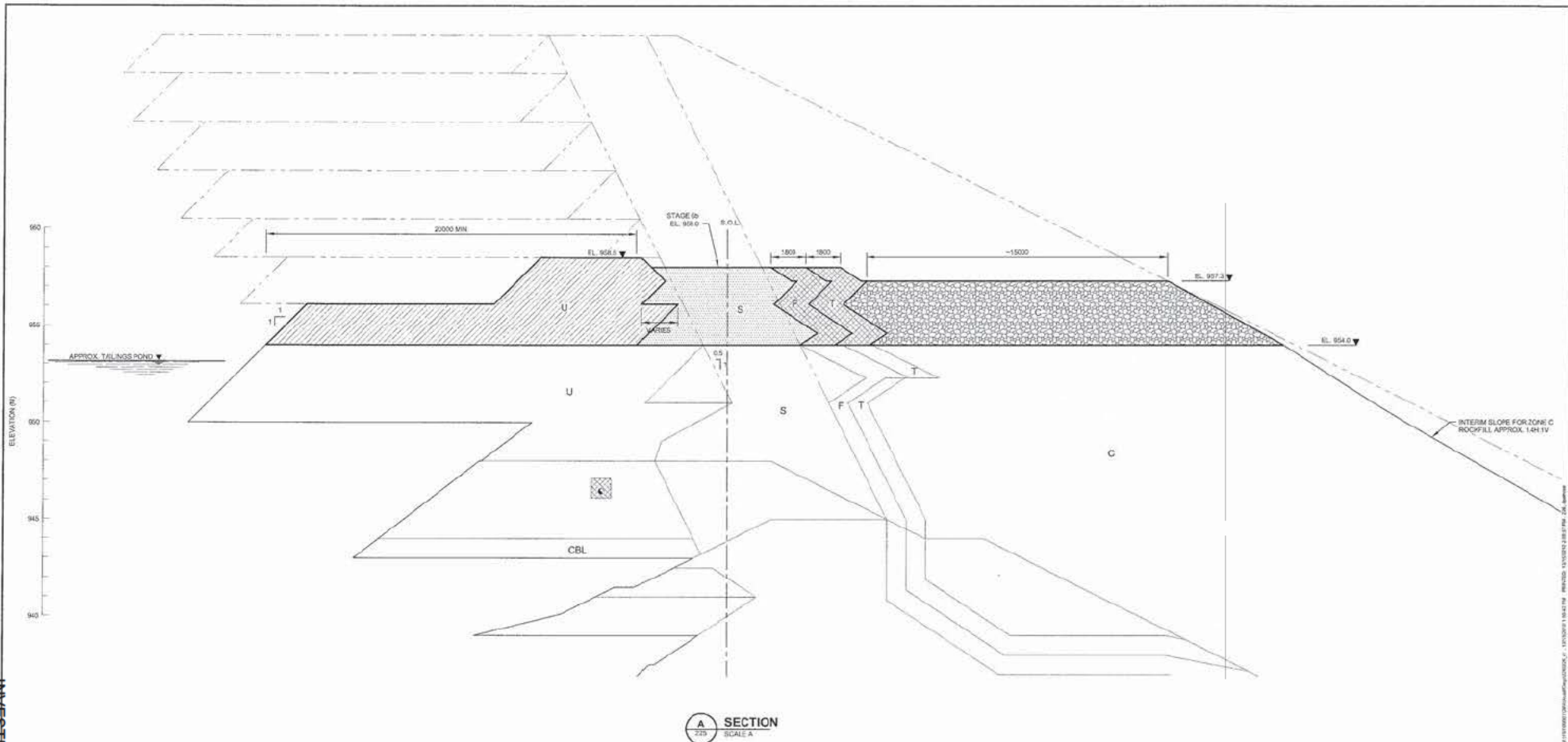
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STAGE 6b PERIMETER EMBANKMENT
PLAN

VA101-1/26

220

1





A SECTION
SCALE A

AS-BUILT



NOTES:

1. FOR MATERIAL SPECIFICATIONS AND LEGEND SEE DPG. 104
2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.



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MOUNT POLLEY MINE

**TAILINGS STORAGE FACILITY
STAGE 6b PERIMETER EMBANKMENT
DETAIL**

VA101-1/26

226

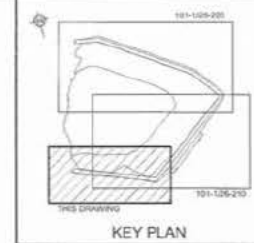
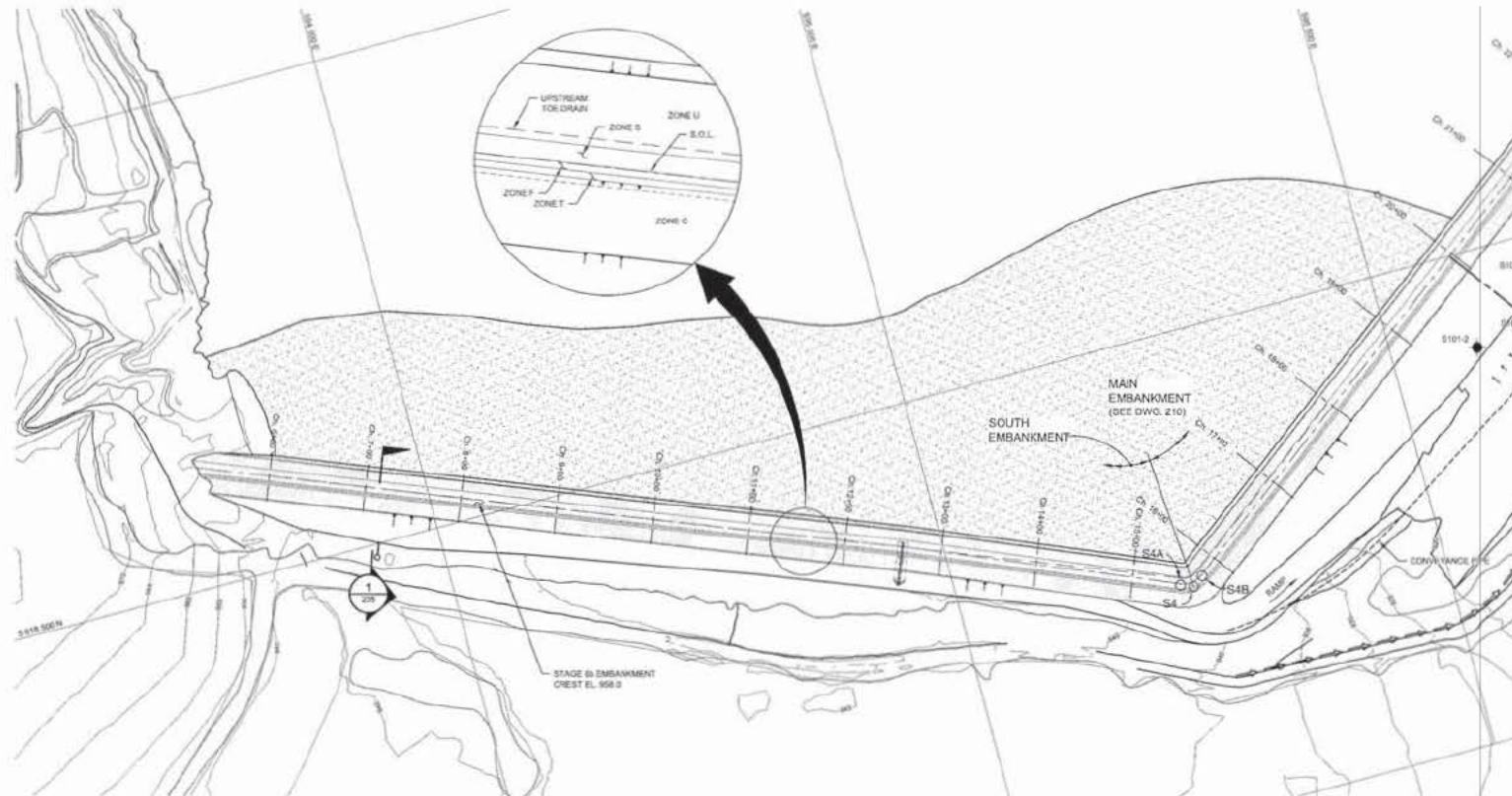
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225	STAGE 6b PERIMETER EMBANKMENT - SECTION
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104	MATERIAL SPECIFICATIONS
DPG. 104	DESCRIPTION

REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPROV
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0	01/02/10	ISSUED FOR CONSTRUCTION	L/G	TAM	BB	KJB

REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPROV
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EMBANKMENT SETTING OUT POINTS				
Point	Northing	Easting	Chaining	
S1	5 811 626.161	594 249.505	5+00.00	
S4A	5 811 243.621	595 227.361	11+49.97	
S4B	5 811 245.523	595 251.497	11+77.87	
S4	5 811 238.539	595 240.290	11+63.92	
S5A	5 811 951.971	596 188.906	21+50.83	
S5B	5 811 995.958	596 193.873	21+00.78	
S5	5 811 995.989	596 208.866	21+75.80	
S6	5 811 304.105	595 953.991	3+197.23	
S7	5 811 309.748	595 910.249	43+36.89	
S8	5 821 053.031	594 395.471	49+60.83	

NOTES:

1. TOPOGRAPHY FROM 2004 FLYOVER.
2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

AS-BUILT

SCALE: 1:100

REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APP'D
1	14DEC10	AS-BUILT FOR STAGE 6b CONSTRUCTION	DL	RYDP	62	62
0	01FEB10	ISSUED FOR CONSTRUCTION	LJG	TAM	BR	ELB



Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION

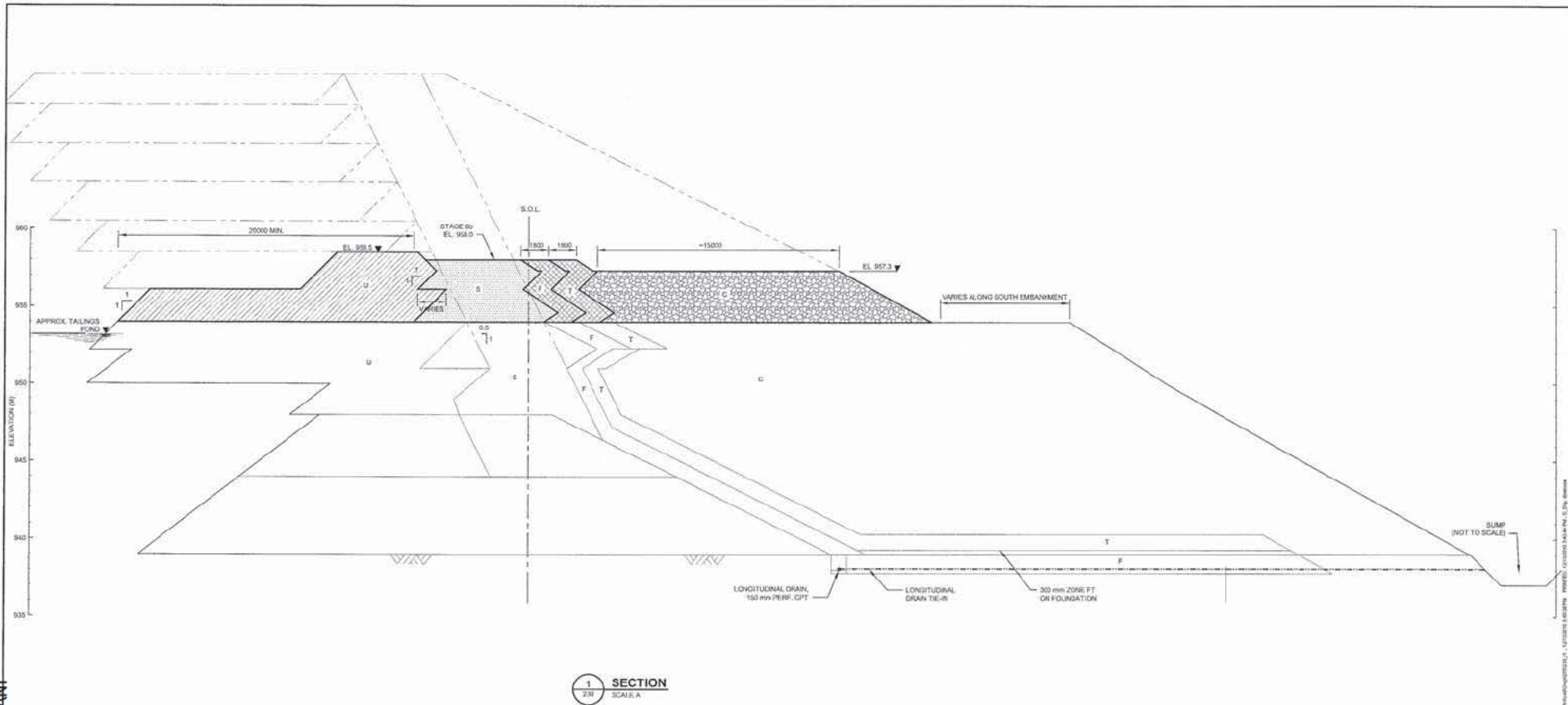
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6b SOUTH EMBANKMENT
PLAN

VA101-1/26

230

1



AS-BUILT



NOTES:

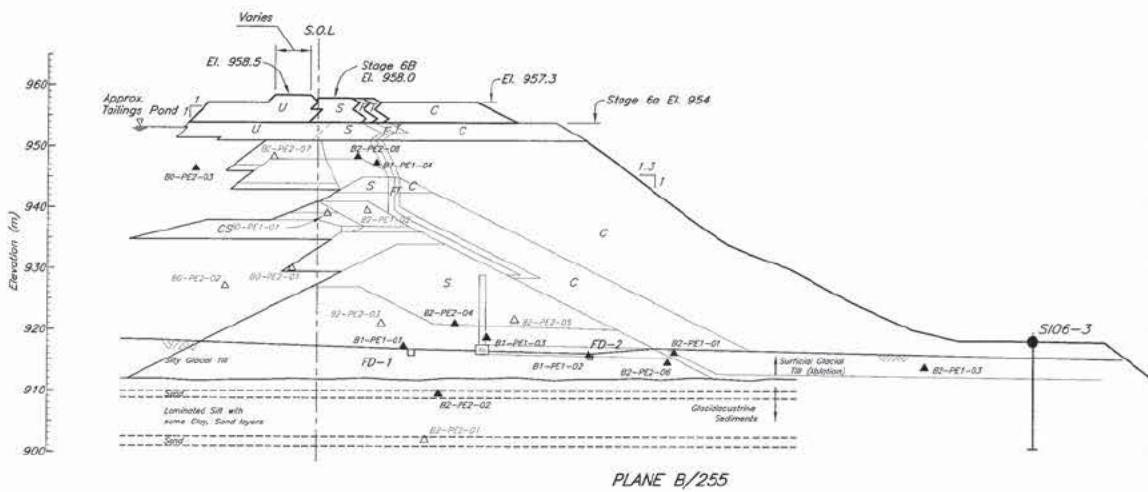
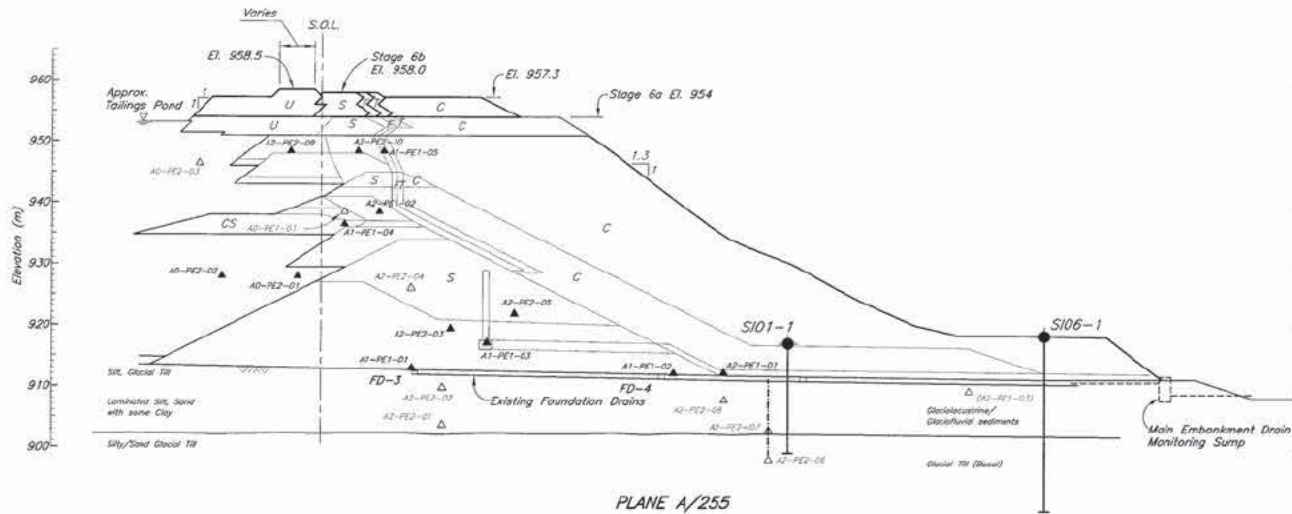
1. FORMATERIAL SPECIFICATIONS AND LEGEND SEE DRG. 104.
2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

<p>1. 14DEC10 AS-BUILT FOR STAGE 6b CONSTRUCTION</p> <p>0. 01FEB10 ISSUED FOR CONSTRUCTION</p>		<p>GL RYDP</p> <p>LJO TAM</p> <p>DESIGN EXHIBIT LINTO APPD</p>	<p>02 115</p> <p>APPROVED</p> <p>ENGINEER</p>	<p>Knight Piésold CONSULTING</p> <p>MOUNT POLLEY MINING CORPORATION</p> <p>MOUNT POLLEY MINE</p> <p>TAILINGS STORAGE FACILITY STAGE 6b SOUTH EMBANKMENT SECTION 1</p>	<p>PHASE: VA101-1/26</p> <p>DRAWING NO: 235</p> <p>REVISION: 1</p>
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DRG NO.	DESCRIPTION
236	STAGE 6b SOUTH EMBANKMENT - PLAN
104	MATERIAL SPECIFICATIONS

REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHKD	APPD
1	14DEC10	AS-BUILT FOR STAGE 6b CONSTRUCTION				
0	01FEB10	ISSUED FOR CONSTRUCTION				

REV	DATE	DESCRIPTION
1	14DEC10	AS-BUILT FOR STAGE 6b CONSTRUCTION
0	01FEB10	ISSUED FOR CONSTRUCTION



Scale

258	STAGE 6b INSTRUMENTATION - SOUTH EMB. - PLANES F AND I
258	STAGE 6b INSTRUMENTATION - PERIMETER EMB.-PLANES D, G & H
257	STAGE 6b INSTRUMENTATION - MAIN EMB. - PLANES C AND E
255	TSF-STAGE 6b-INSTRUMENTATION-PLAN VIEW OF PIEZOMETER PLATES
ORG. NO.	DESCRIPTION

REVISIONS

INSTRUCTIONS

GL	OP	<i>GP</i>	<i>RP</i>
DESIGN	DRAWN	CHECK'D	APPR'D



Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION

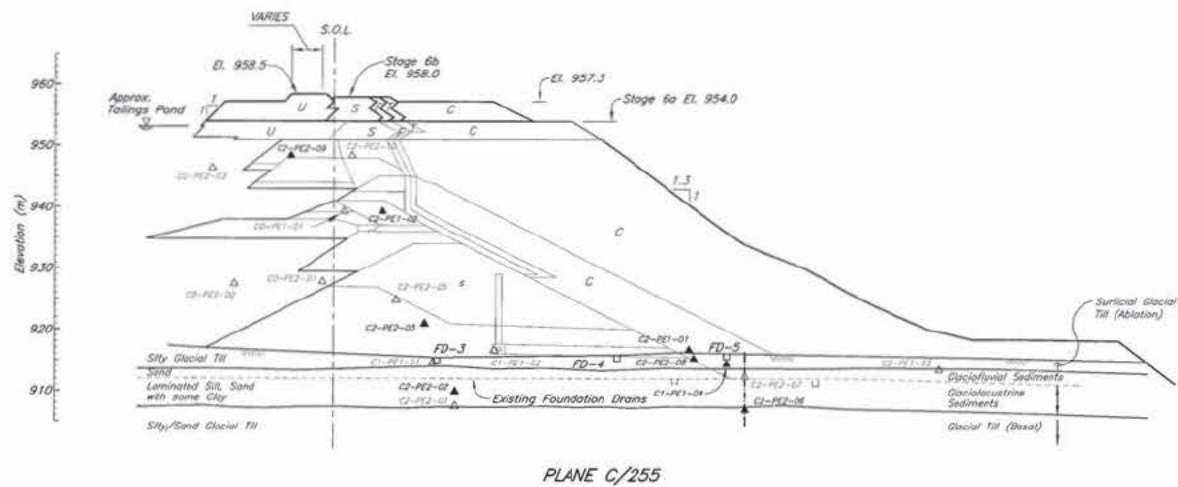
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6b - INSTRUMENTATION
MAIN EMBANKMENT
PLANES A AND B

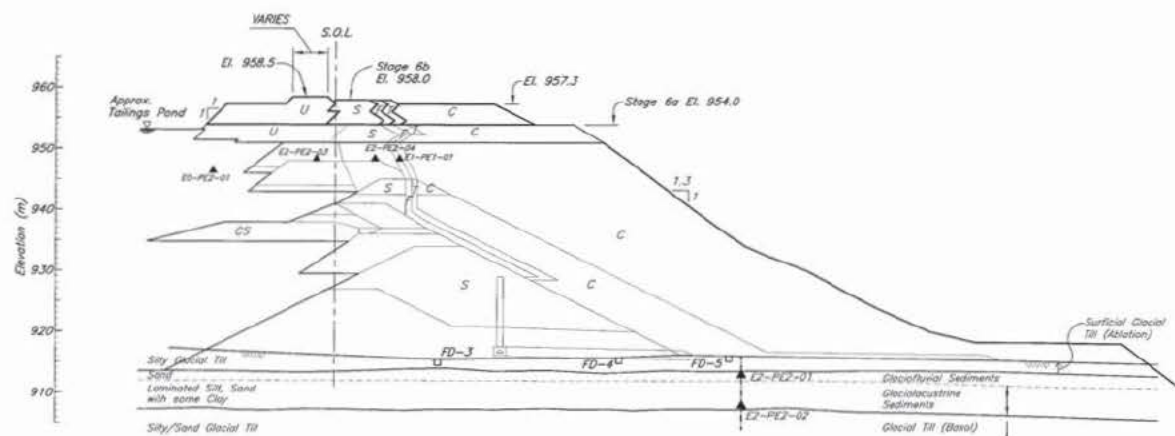
PROJECT/ASSIGNMENT NO.	VA101-
------------------------	--------

DRAWING NO.	256	REVISION	0
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SMC2 M:\01\0001\29\Acad\DEWS\258\256_12\75/2010 2:33:50 PM PRINTED: 12/16/2010 2:34:12 PM, 256, desktop



PLANE C/255



PLANE E/255

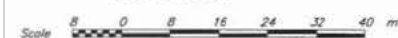
LEGEND

- Plane I.D. (A, B etc.)
Area (0-Tailings, 1-Drain, 2-Embankment)
AO-PEI-01
Number I.D.
Pressure Rating (1-Low, 2-High)
Type of Instrumentation (PE-Piezometer electric,
SM-Survey Monument)
AZ-PE2-03 ▲
Installed Piezometer
C1-PE1-02 ☺
Piezometer no longer functioning

NOTE:

1. Piezometer pore pressures used to estimate phreatic surface.

AS-BUILT



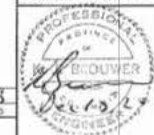
259	STAGE 6b INSTRUMENTATION - SOUTH EMB. - PLANES F & I
258	STAGE 6b INSTRUMENTATION - PERIMETER EMB.-PLANES D, G & H
256	STAGE 6b INSTRUMENTATION - MAIN EMB. - PLANES A AND B
255	TSF-STAGE 6b-INSTRUMENTATION-PLAN VIEW OF PIEZOMETER PLANES

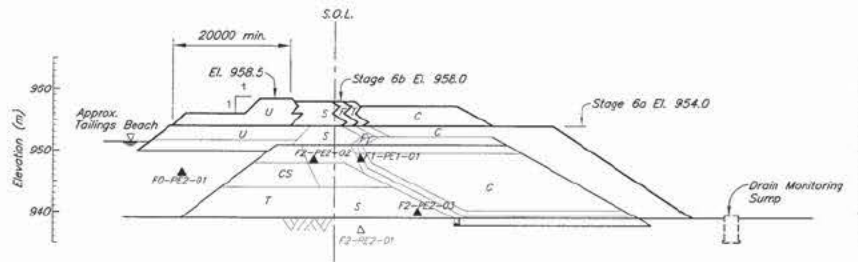
QTY.	DESCRIPTION
	REFERENCE DRAWINGS

REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHE'K'D	APPRO
REVISIONS						

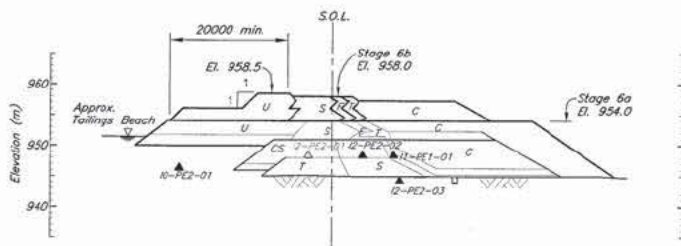
0	14DEC'10	AS-BUILT FOR STAGE 6b CONSTRUCTION	GL	DP	62	10
REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APP'D
REVISIONS						

PLANES C AND E			
PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION	
VA101-1/29	257	0	





PLANE F/255



PLANE I/255

LEGEND

- Plane I.D. (A, B etc.)
- Area (0—Tailings, 1—Drain, 2—Embankment)
- AO-PE1-01—Number I.D.
- Pressure Rating (1—Low, 2—High)
- Type of Instrumentation (PE—Piezometer electric, SM—Survey Monument)
- A2-PE2-03 ▲ Installed Piezometer
- F2-PE2-01 ▲ Piezometer no longer functioning

AS-BUILT



258	STAGE 6b INSTRUMENTATION — PERIMETER EMB.—PLANES D, C & H
257	STAGE 6b INSTRUMENTATION — MAIN EMB. — PLANES C AND E
256	STAGE 6b INSTRUMENTATION — MAIN EMB. — PLANES A AND B
255	TSF-STAGE 6b-INSTRUMENTATION-PLAN VIEW OF PIEZOMETER PLANES
DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
REVISIONS						

0	14DEC'10	AS-BUILT FOR STAGE 6b CONSTRUCTION	GL	DP	GT	R/S
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
REVISIONS						

<p>Knight Piésold CONSULTING</p>	
<p>MOUNT POLLEY MINING CORPORATION</p>	
<p>MOUNT POLLEY MINE</p>	
<p>TAILINGS STORAGE FACILITY STAGE 6b — INSTRUMENTATION SOUTH EMBANKMENT PLANES F AND I</p>	
<p>PROJECT/ASSIGNMENT NO. VA101-1/29</p>	<p>DRAWING NO. 259</p>
<p>REVISION 0</p>	

APPENDIX A

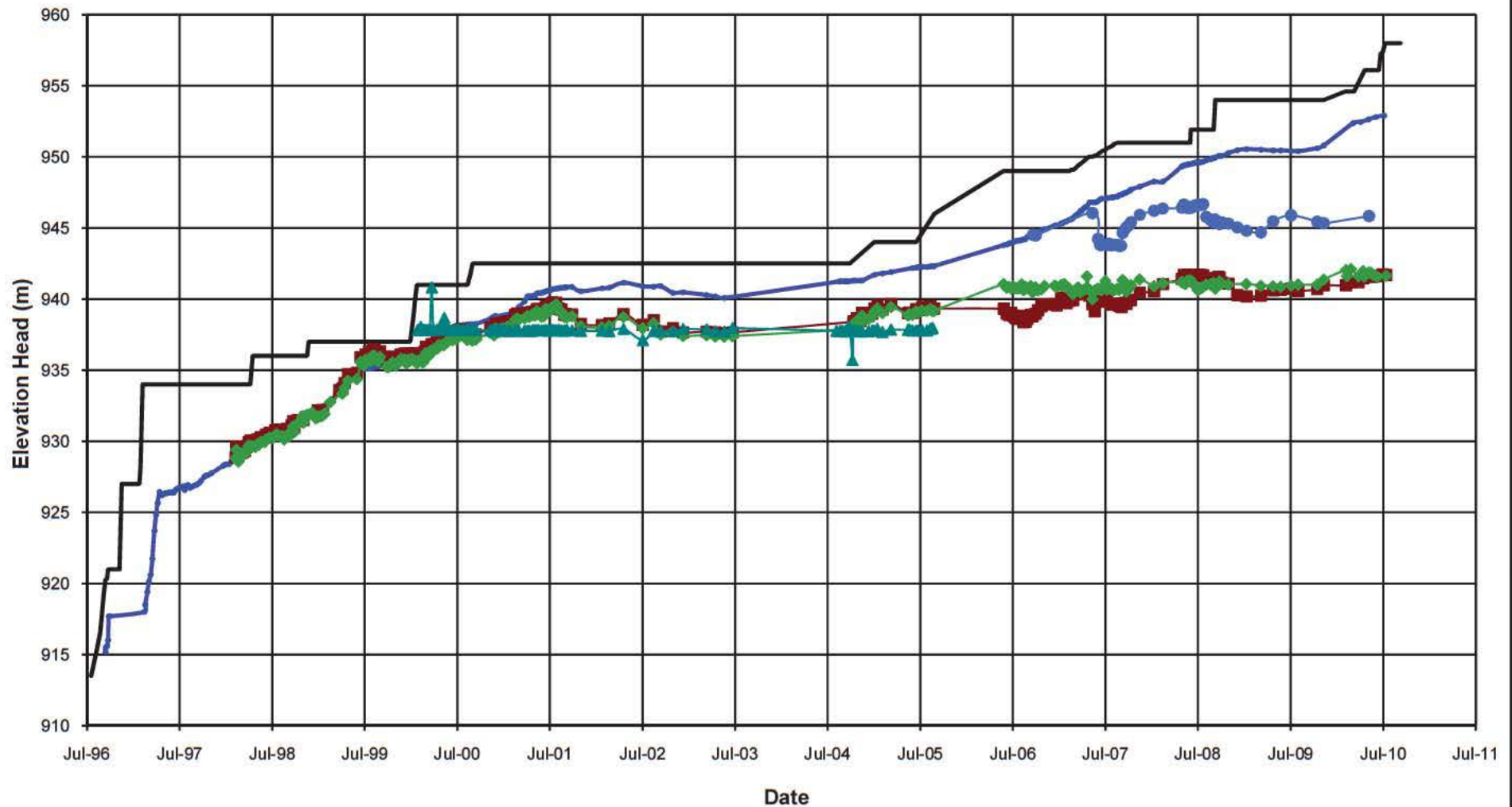
PIEZOMETER RECORDS

- Appendix A1 - Tailings Piezometers
- Appendix A2 - Foundation Piezometers
- Appendix A3 - Fill Piezometers
- Appendix A4 - Drain Piezometers

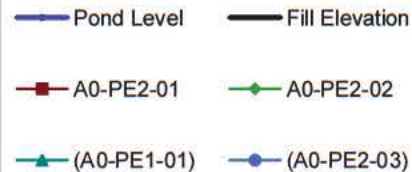
APPENDIX A1

TAILINGS PIEZOMETERS

(Pages A1-1 to A1-9)

**NOTE:**

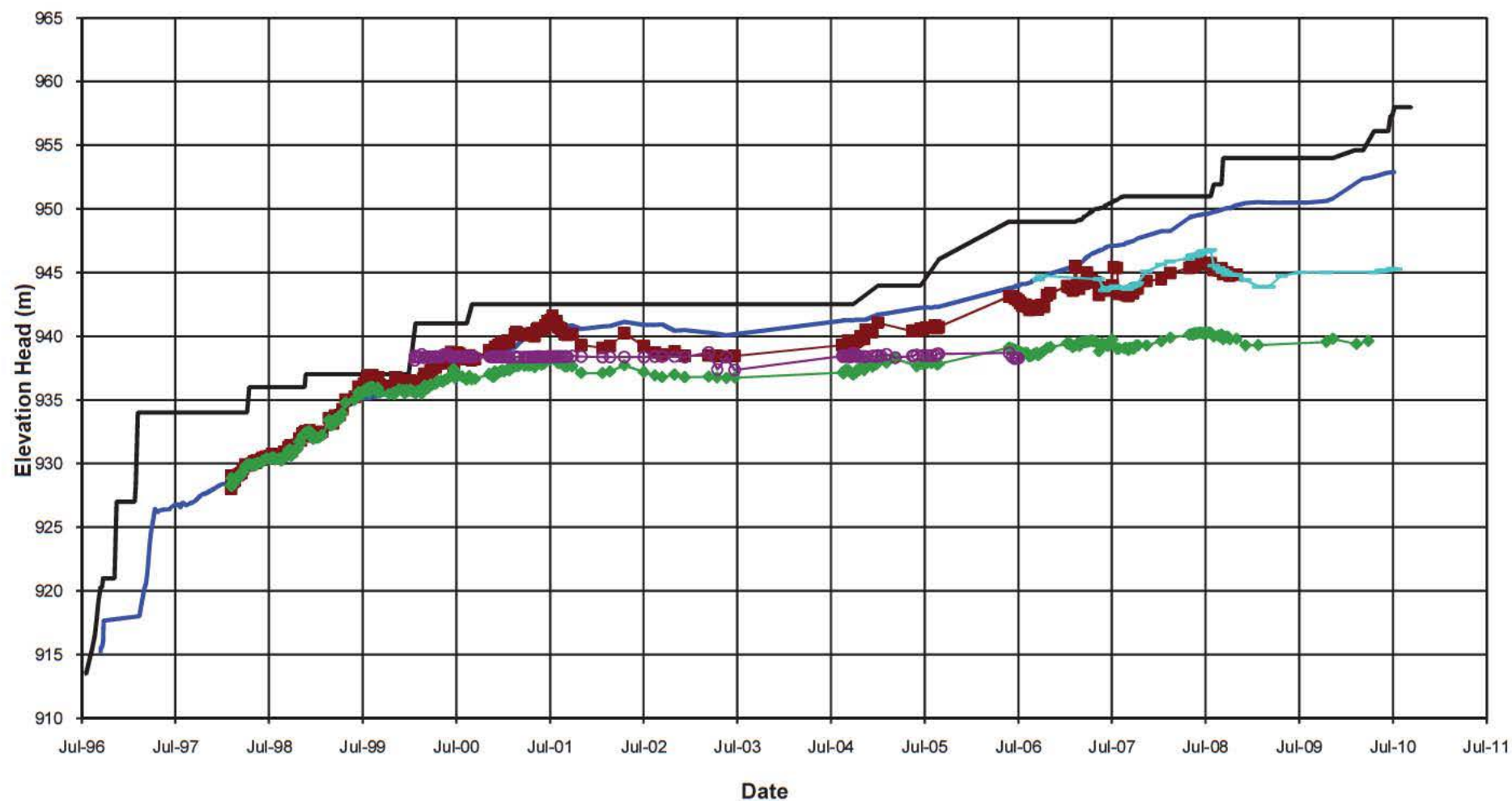
1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



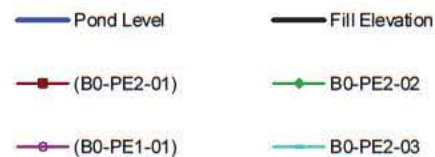
MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE A TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME**Knight Piésold**
CONSULTINGP/A NO.
VA101-1/29REF NO.
2**FIGURE A1.1**REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

**PLANE B TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME**

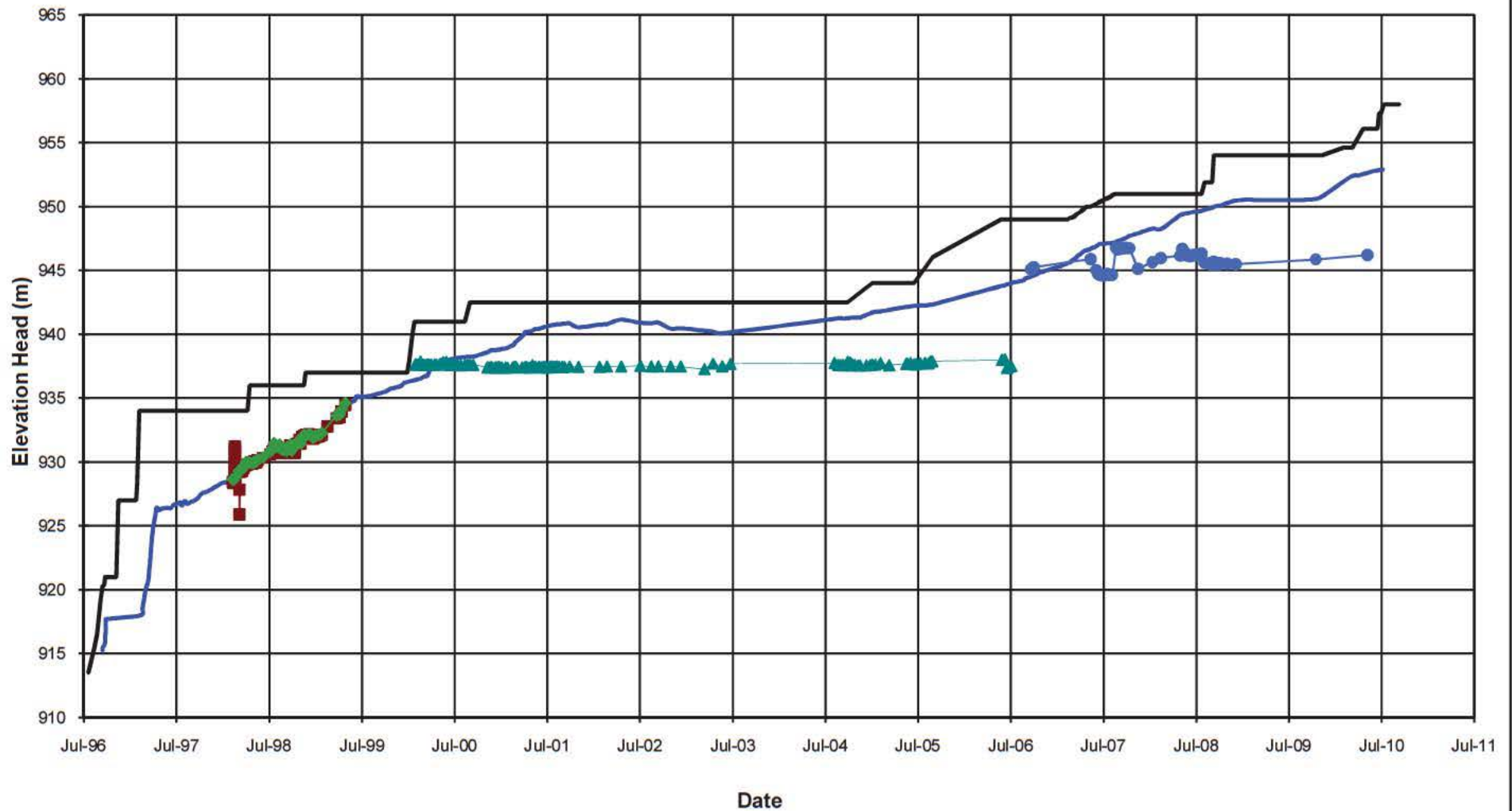
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF. NO.
2

FIGURE A1.2

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

**PLANE C TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME**

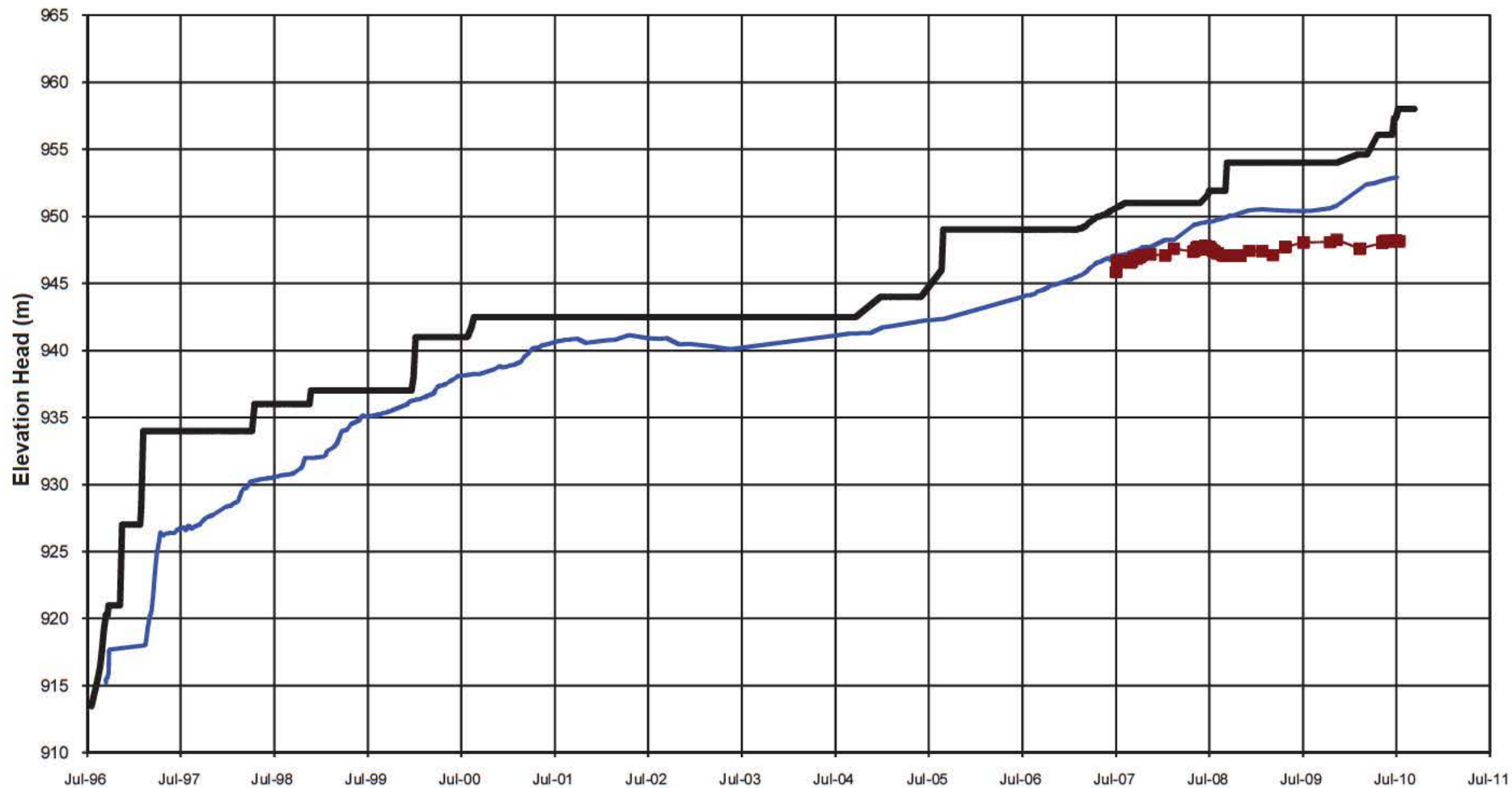
Knight Piésold
CONSULTING

P/ANO.
VA101-1/29

REF NO.
2

FIGURE A1.3

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

Date

— Pond Level — Fill Elevation
 ■ D0-PE2-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE D TAILINGS PIEZOMETERS
 ELEVATION HEAD vs. TIME

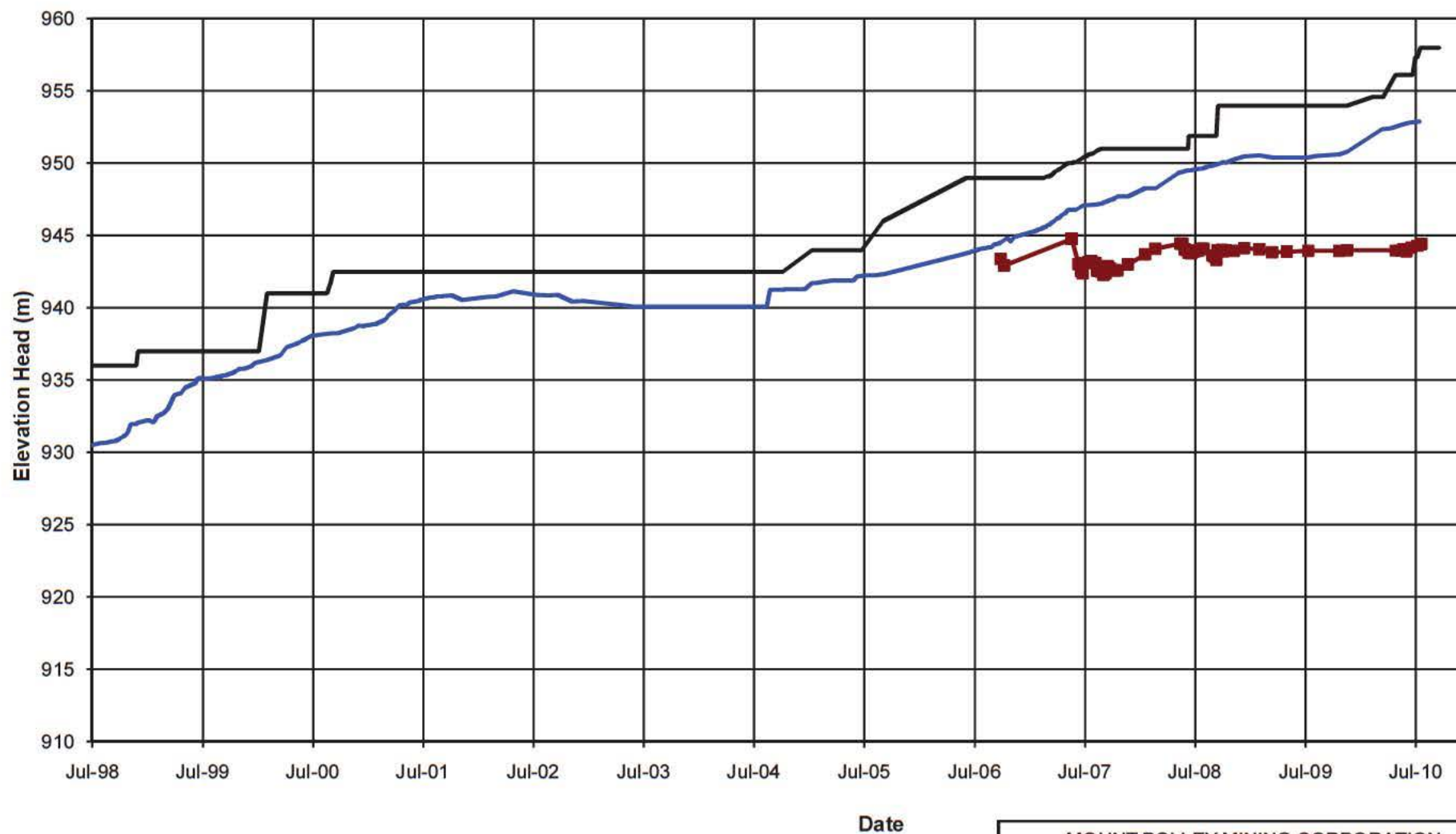
Knight Piésold
 CONSULTING

P/A NO.
 VA101-1/29

REF NO.
 2

FIGURE A1.4

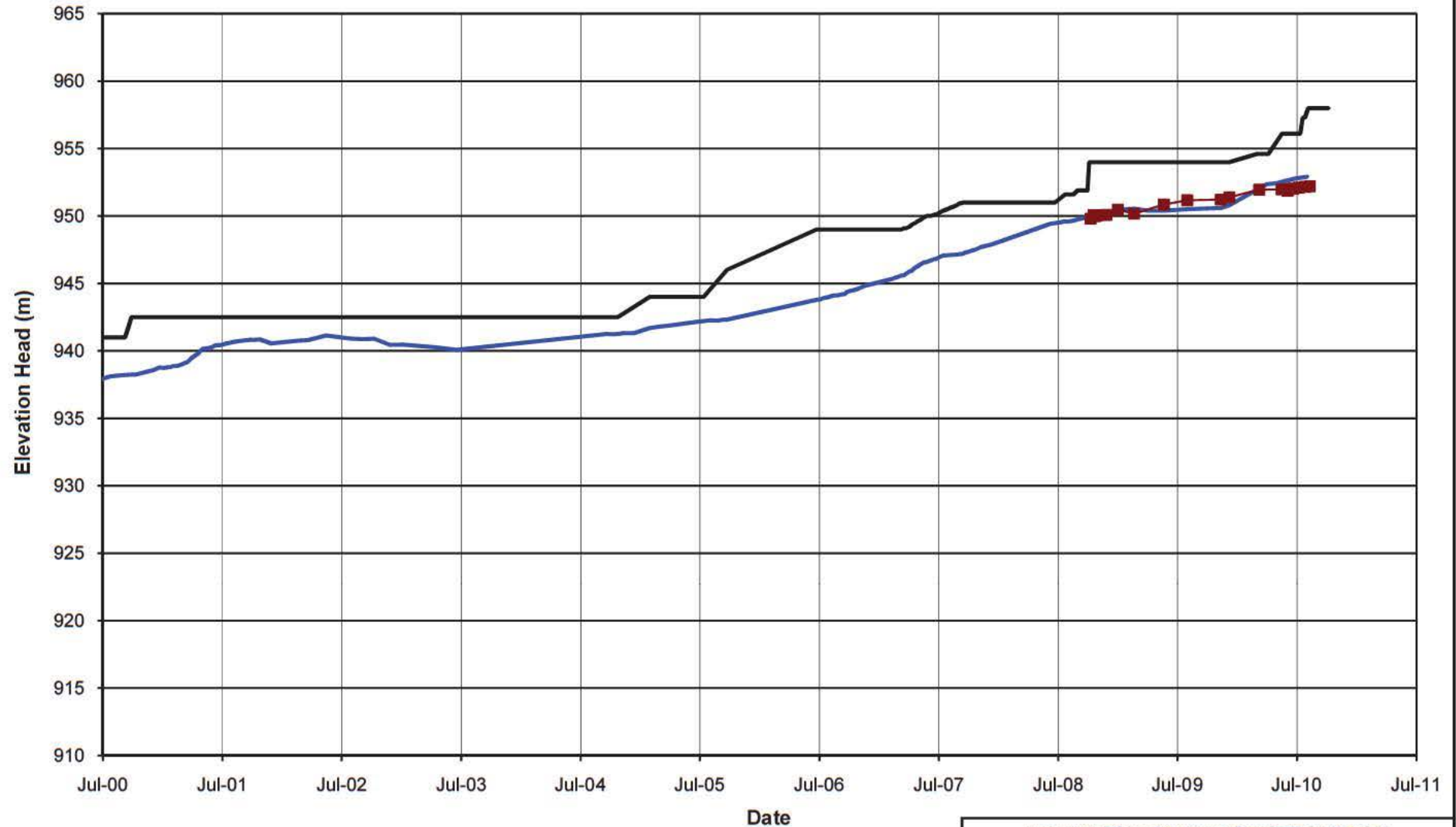
REV
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**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

0	30NOV'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
PLANE E TAILINGS PIEZOMETERS ELEVATION HEAD vs. TIME		
<i>Knight Piésold</i> CONSULTING	P/A NO. VA101-1/29	REF NO. 2
	FIGURE A1.5	
		REV 0



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

 PLANE F TAILINGS PIEZOMETERS
 ELEVATION HEAD vs. TIME

Knight Piésold
 CONSULTING

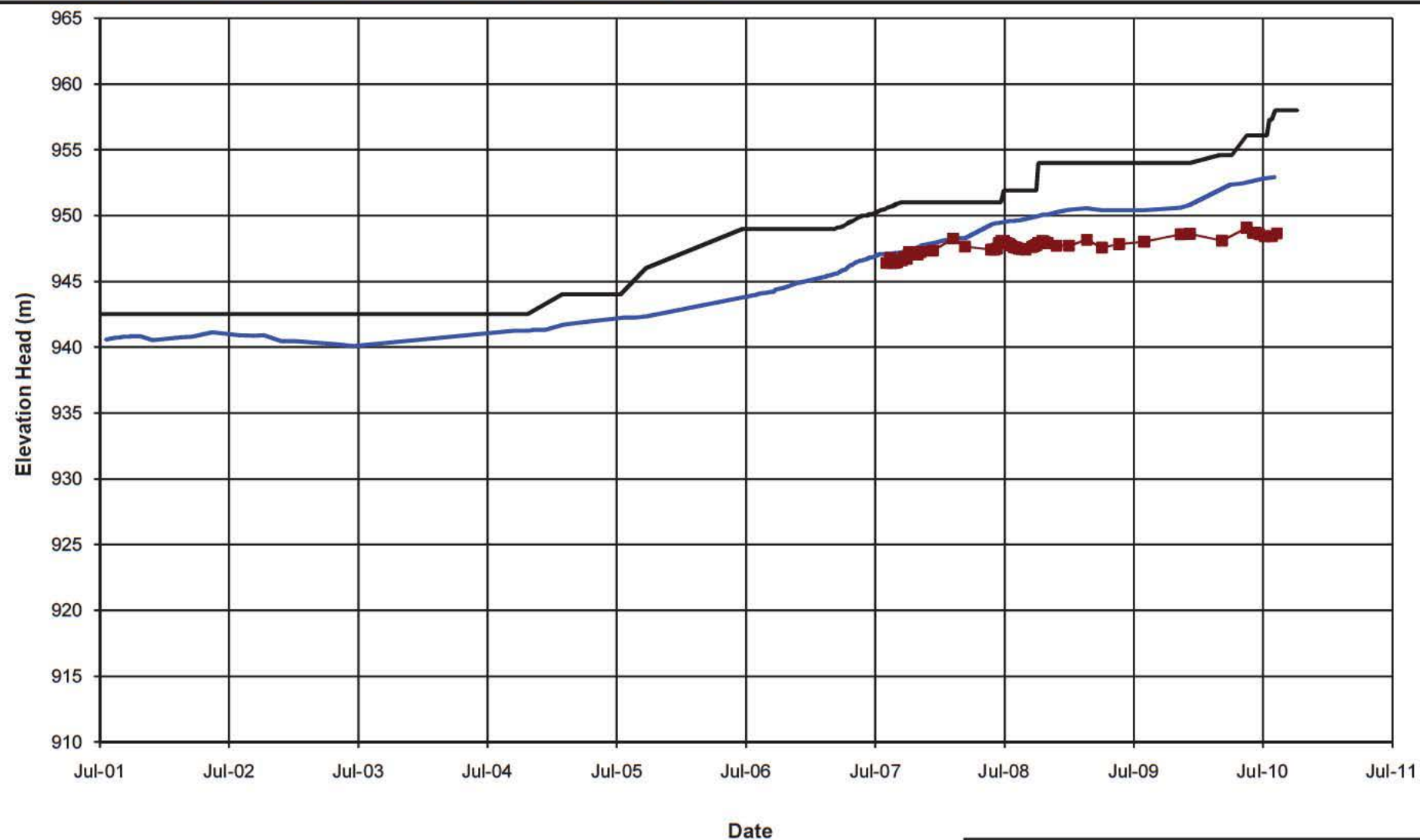
 P/A NO.
 VA101-1/29

 REF NO.
 2

FIGURE A1.6

 REV
 0

0	30NOV'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level — Fill Elevation
 ■ G0-PE2-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE G TAILINGS PIEZOMETERS
 ELEVATION HEAD vs. TIME

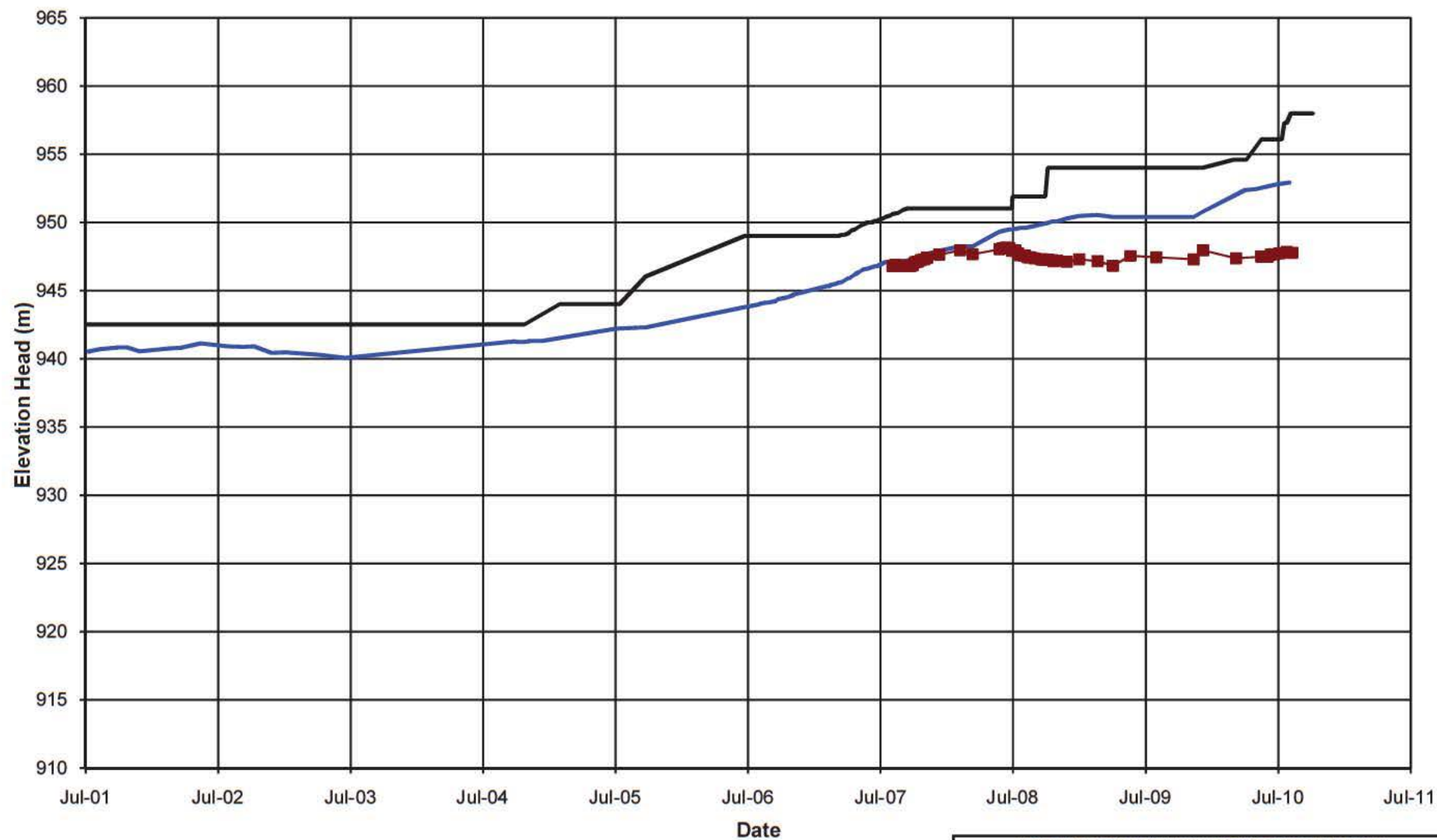
Knight Piésold
 CONSULTING

P/ANO.
 VA101-1/29

REF NO.
 2

FIGURE A1.7

REV
 0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level — Fill Elevation
 ■ H0-PE2-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE H TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

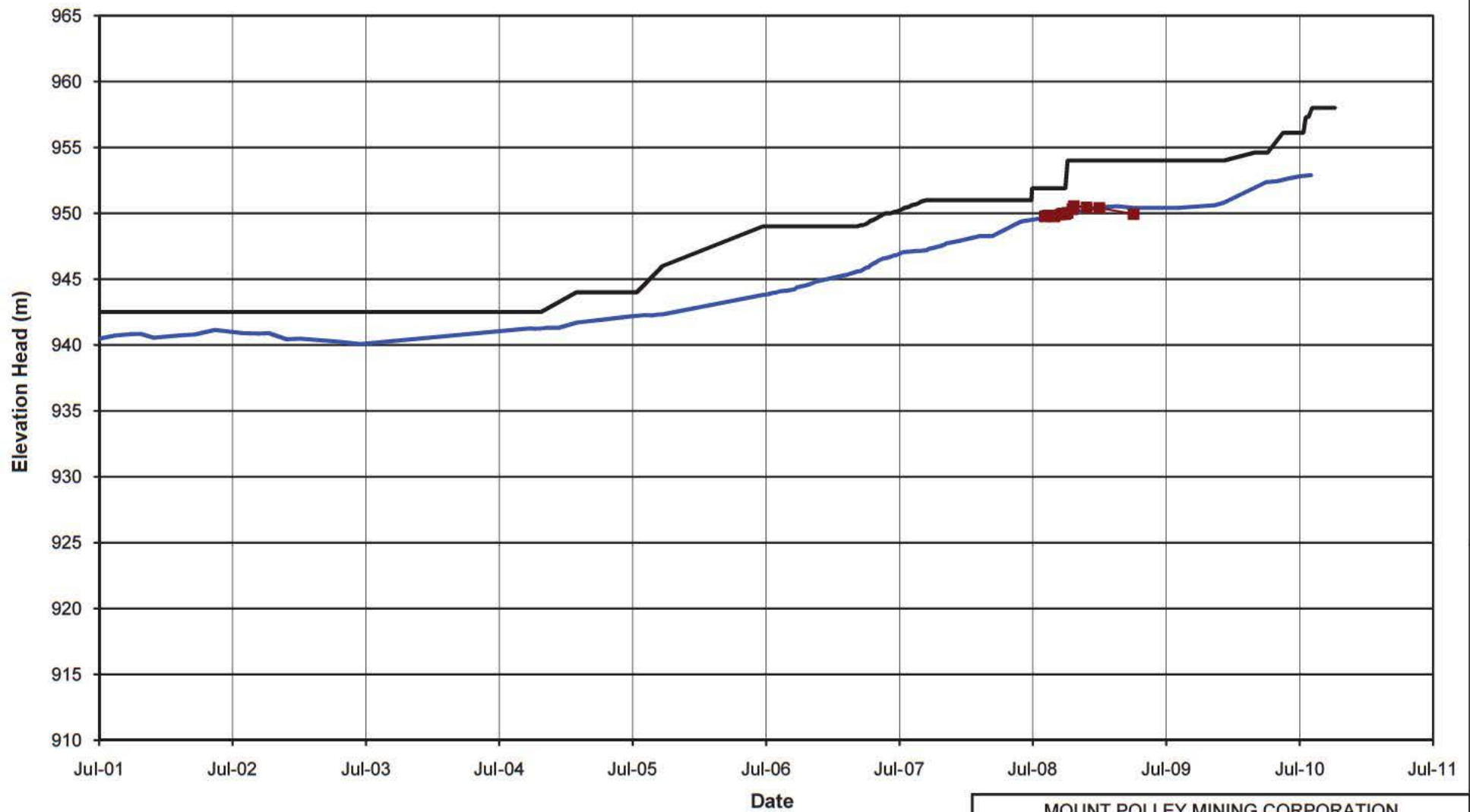
Knight Piésold
CONSULTING

P/ANO.
VA101-1/29

REF NO.
2

FIGURE A1.8

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level — Fill Elevation — (I0-PE2-01)

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE I TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
2

FIGURE A1.9

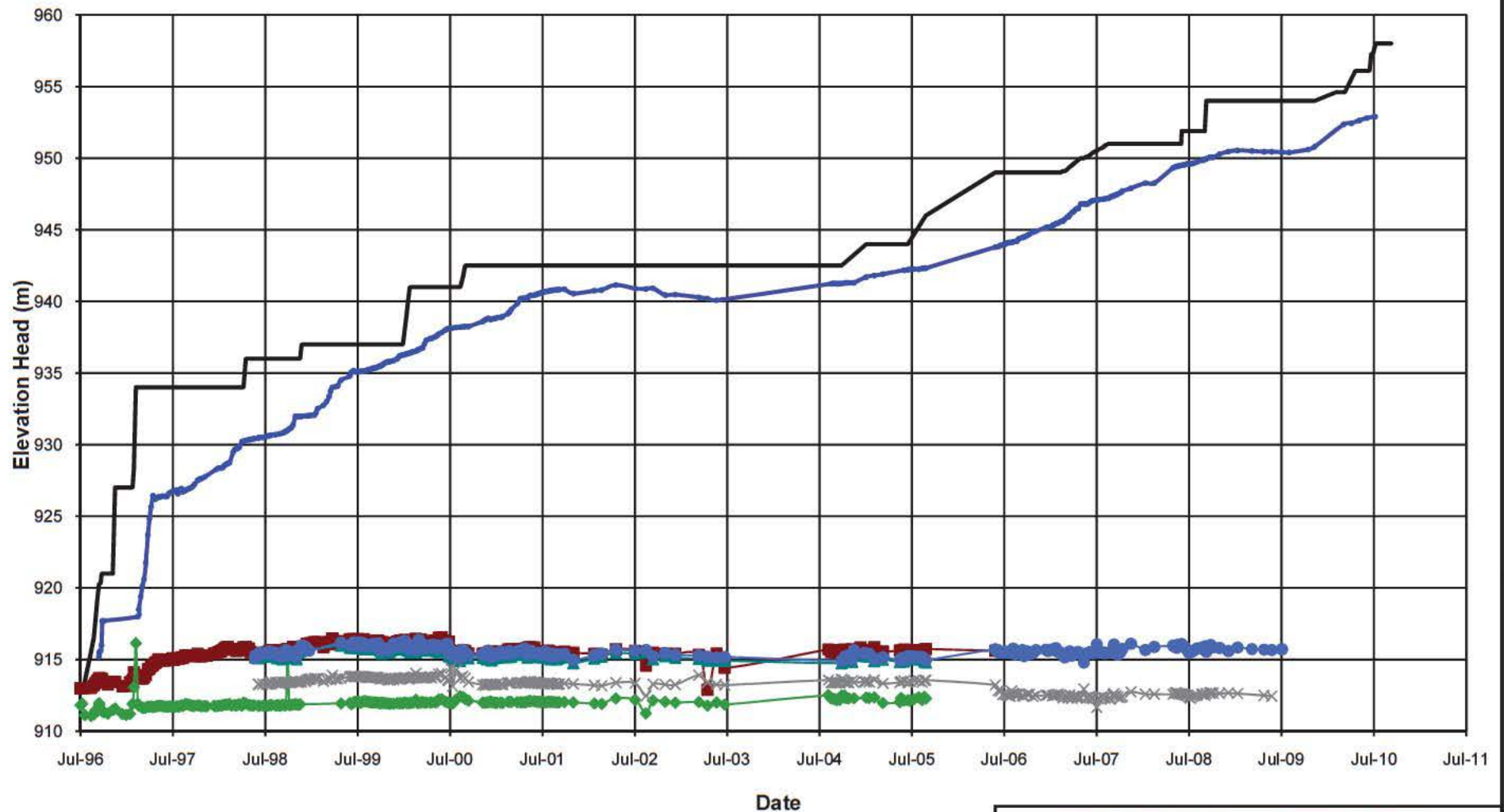
REV
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REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

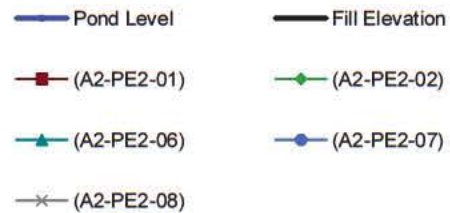
APPENDIX A2

FOUNDATION PIEZOMETERS

(Pages A2-1 to A2-7)

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE A FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

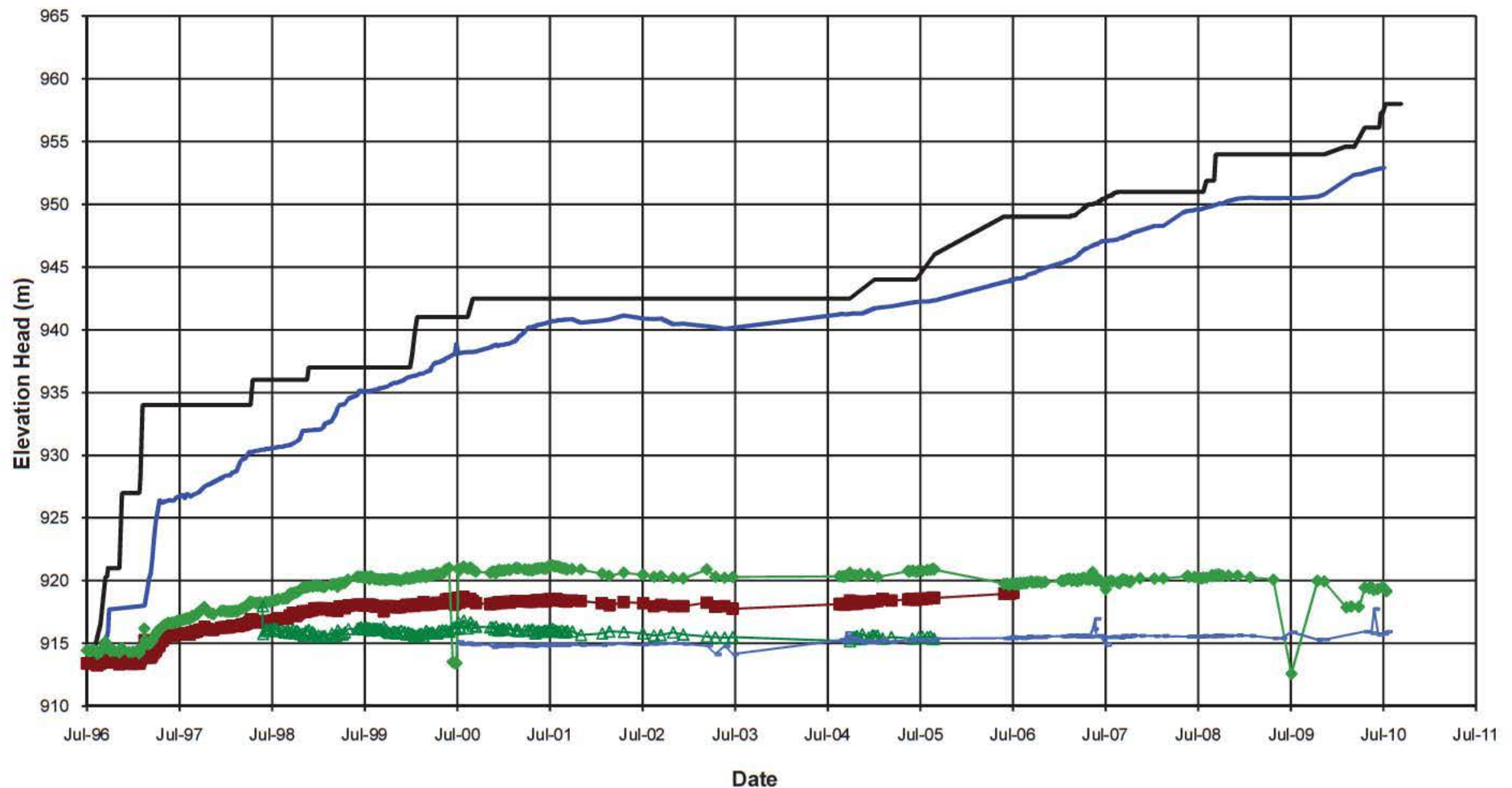
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

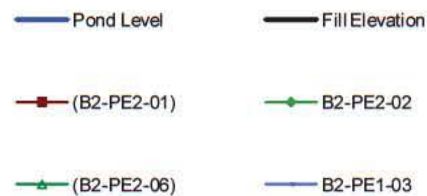
REF NO.
2

FIGURE A2.1

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE B FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

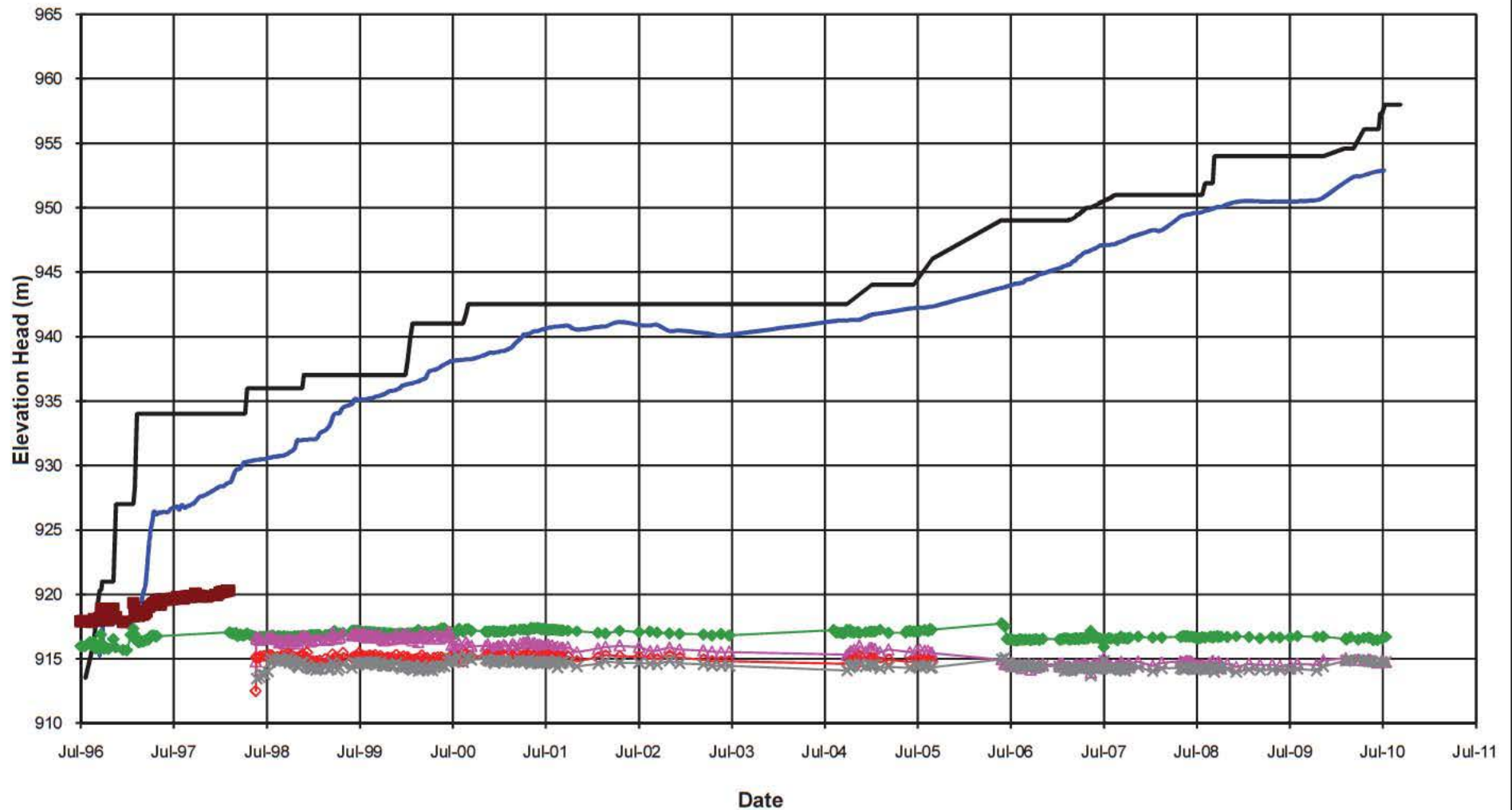
P/A NO.
VA101-1/29

REF NO.
2

FIGURE A2.2

REV
0

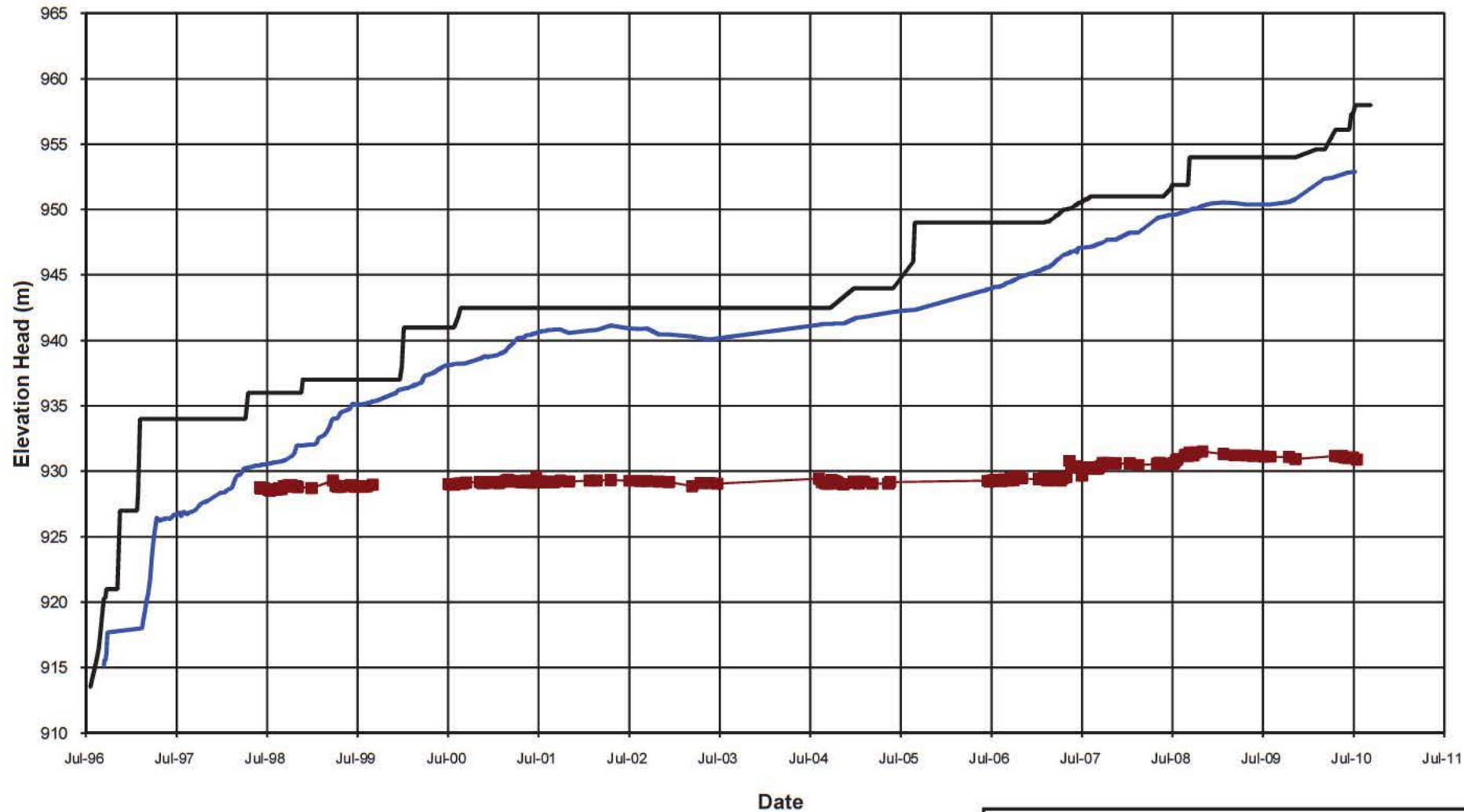
0	30NOV'10	ISSUED WITH REPORT	GL	GLJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
PLANE C FOUNDATION PIEZOMETERS ELEVATION HEAD vs. TIME		
Knight Piésold CONSULTING	P/A NO. VA101-1/29	REF NO. 2
	FIGURE A2.3	
		REV 0

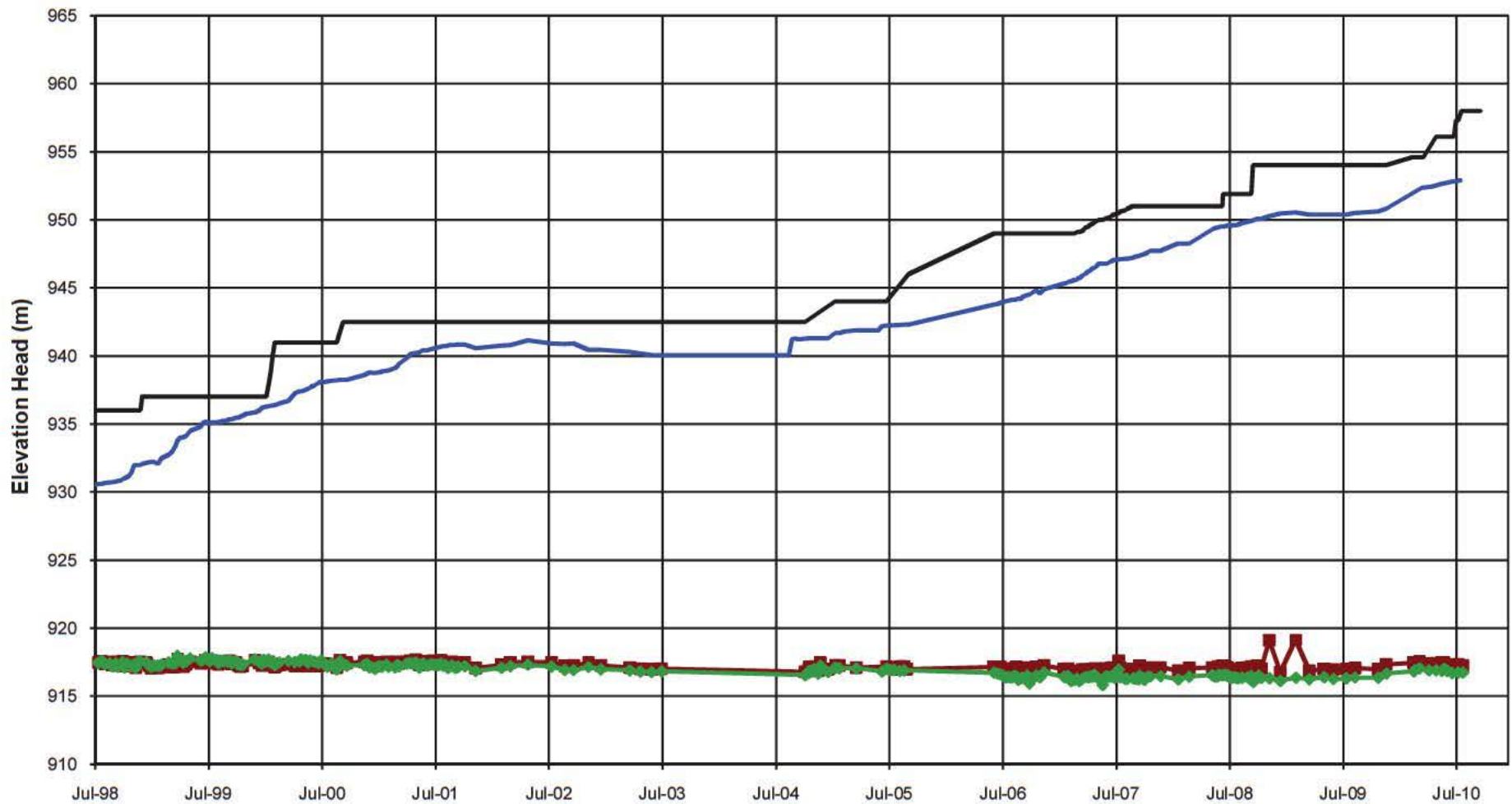
0	30NOV'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE D FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME**Knight Piésold**
CONSULTINGP/A NO.
VA101-1/29REF NO.
2**FIGURE A2.4**REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

Date

— Pond Level — Fill Elevation
 ■ E2-PE2-01 ◆ E2-PE2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE E FOUNDATION PIEZOMETERS
 ELEVATION HEAD vs. TIME

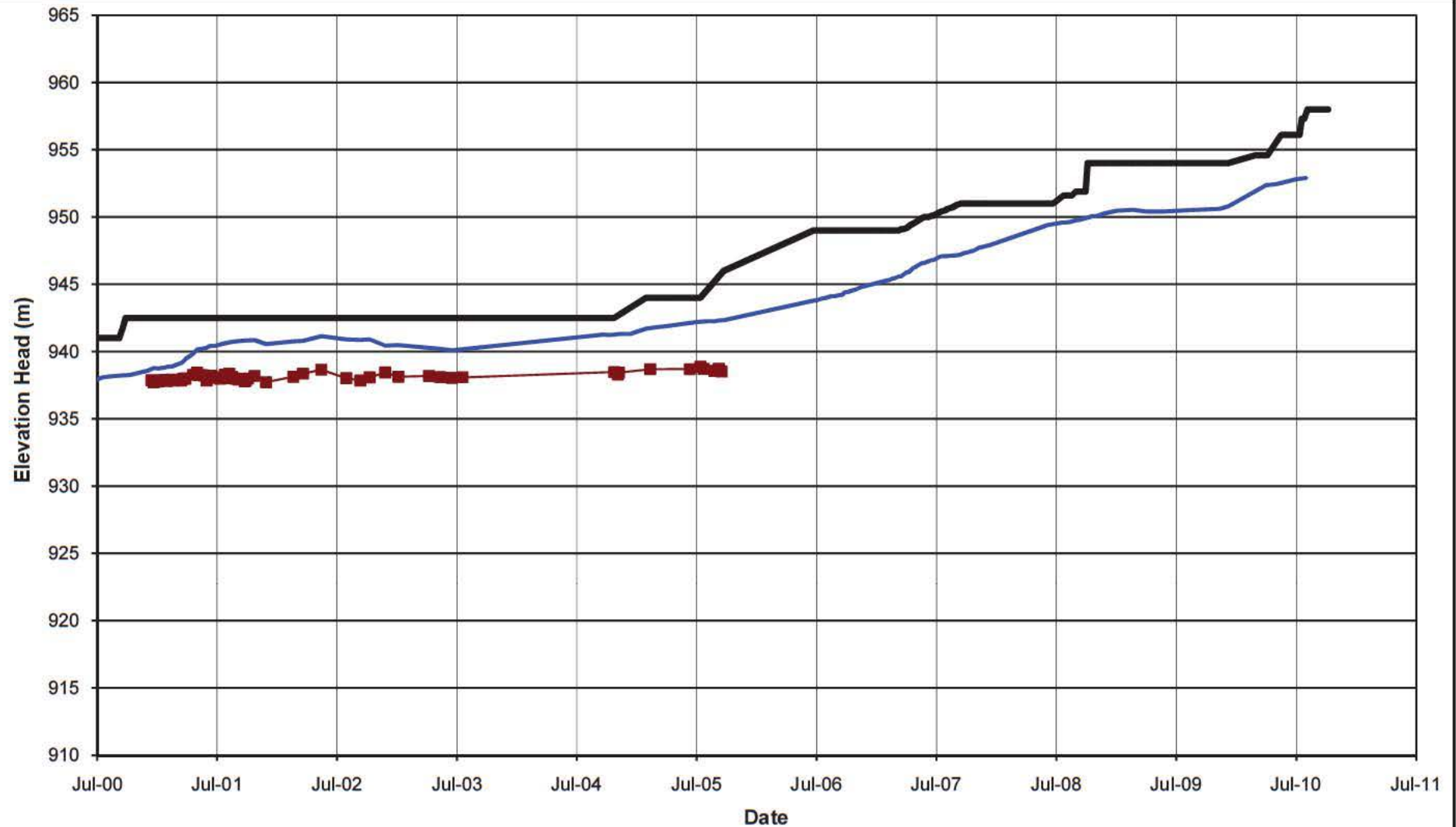
Knight Piésold
 CONSULTING

P/ANO.
 VA 101-1/29

REF NO.
 2

FIGURE A2.5

REV
 0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level — Fill Elevation ■ (F2-PE2-01)

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE F FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

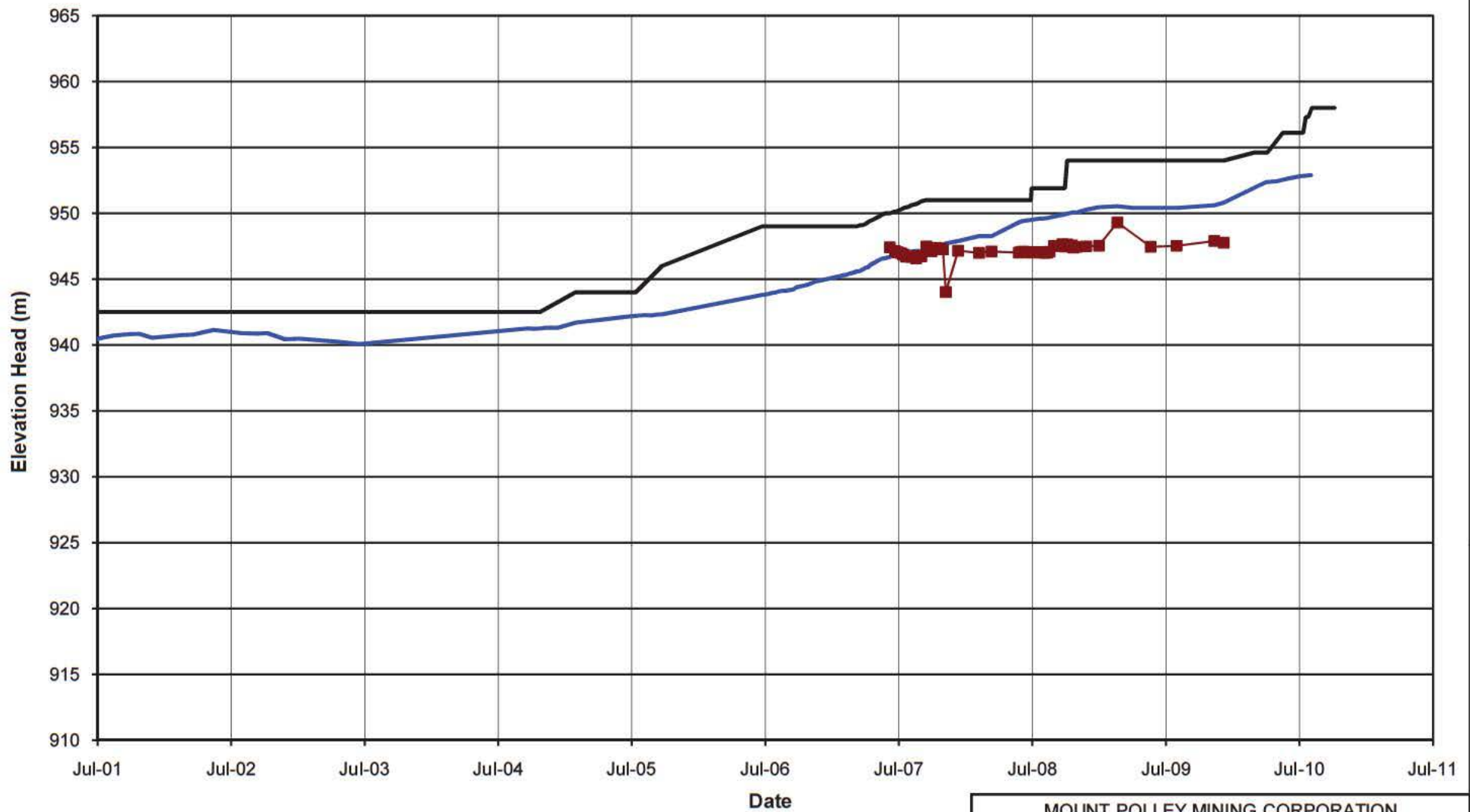
P/A NO.
VA101-1/29

REF NO.
2

FIGURE A2.6

REV
0

0	30NOV'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level — Fill Elevation — I2-PE2-03

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE I FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
2

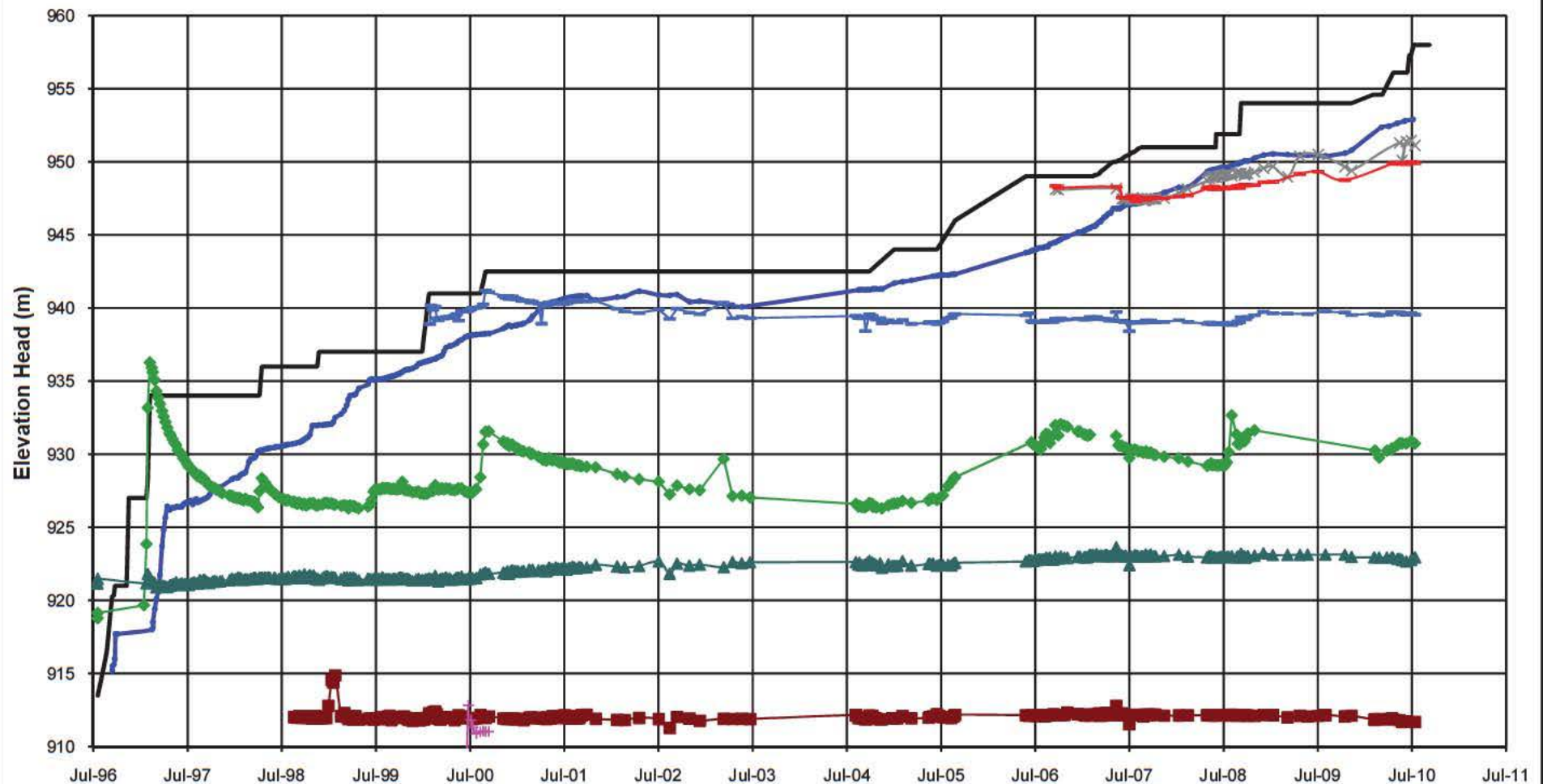
FIGURE A2.7

REV
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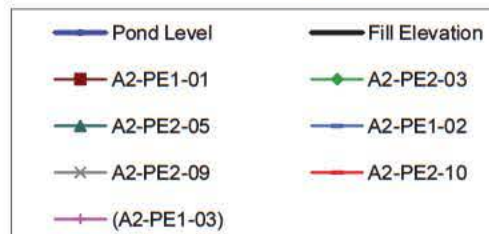
APPENDIX A3

FILL PIEZOMETERS

(Pages A3-1 to A3-9)

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE A FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

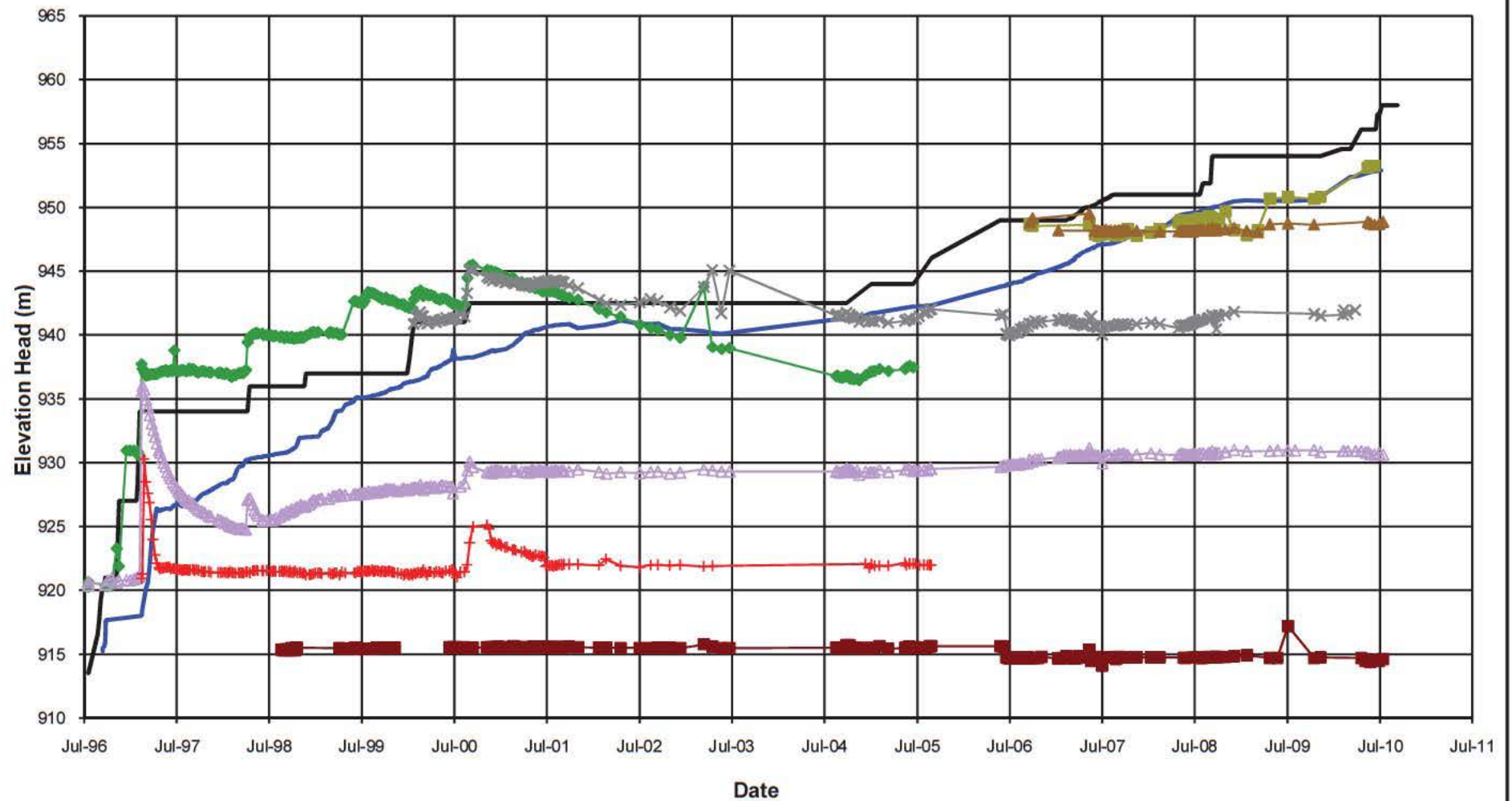
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

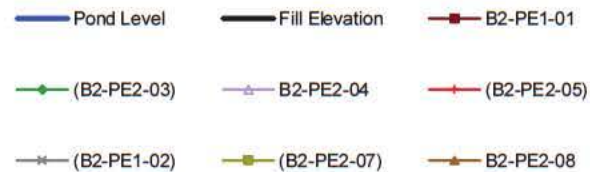
REF NO.
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FIGURE A3.1

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE B FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

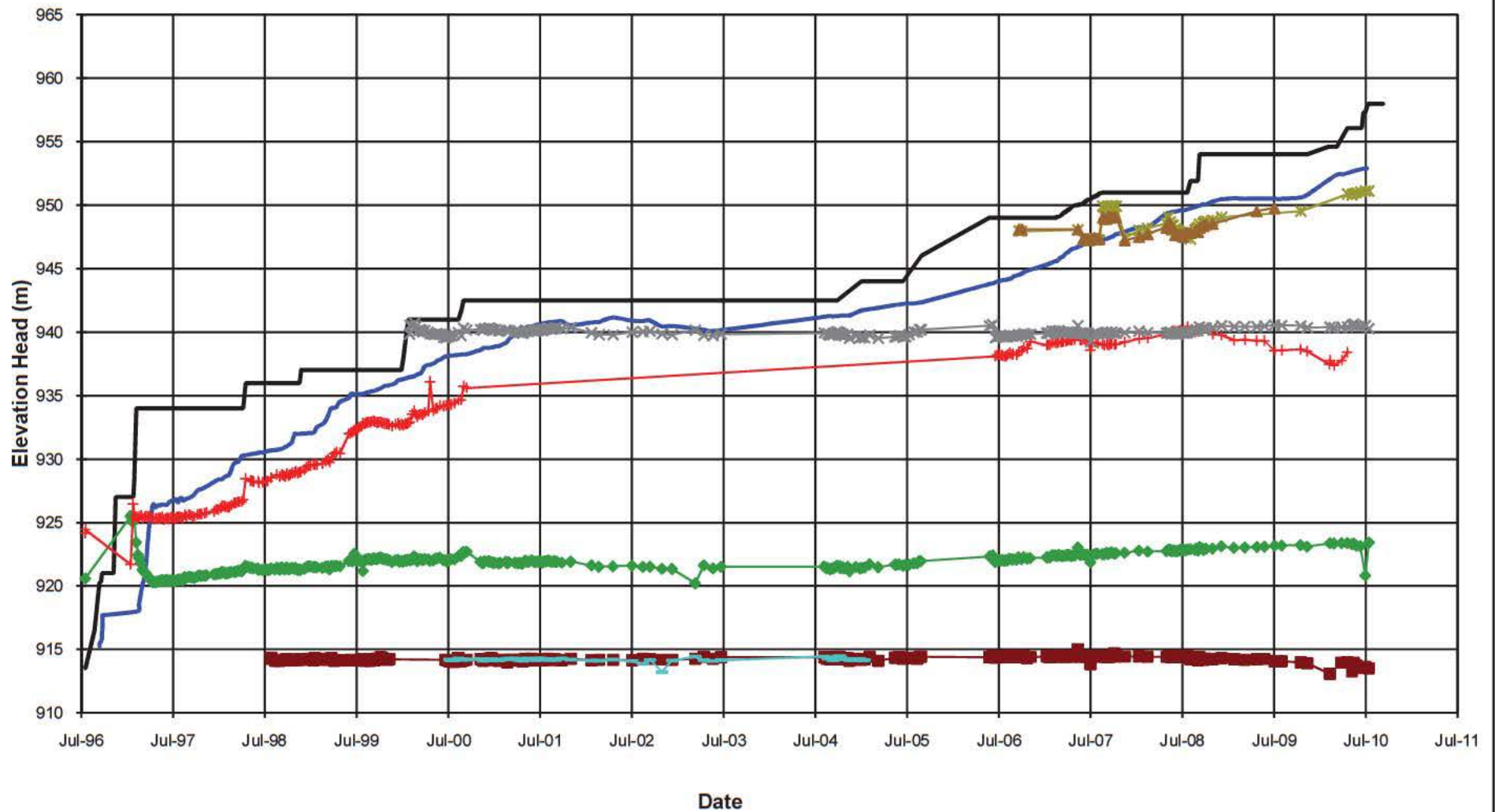
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

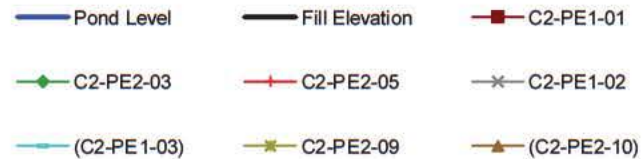
REF NO.
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FIGURE A3.2

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE C FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

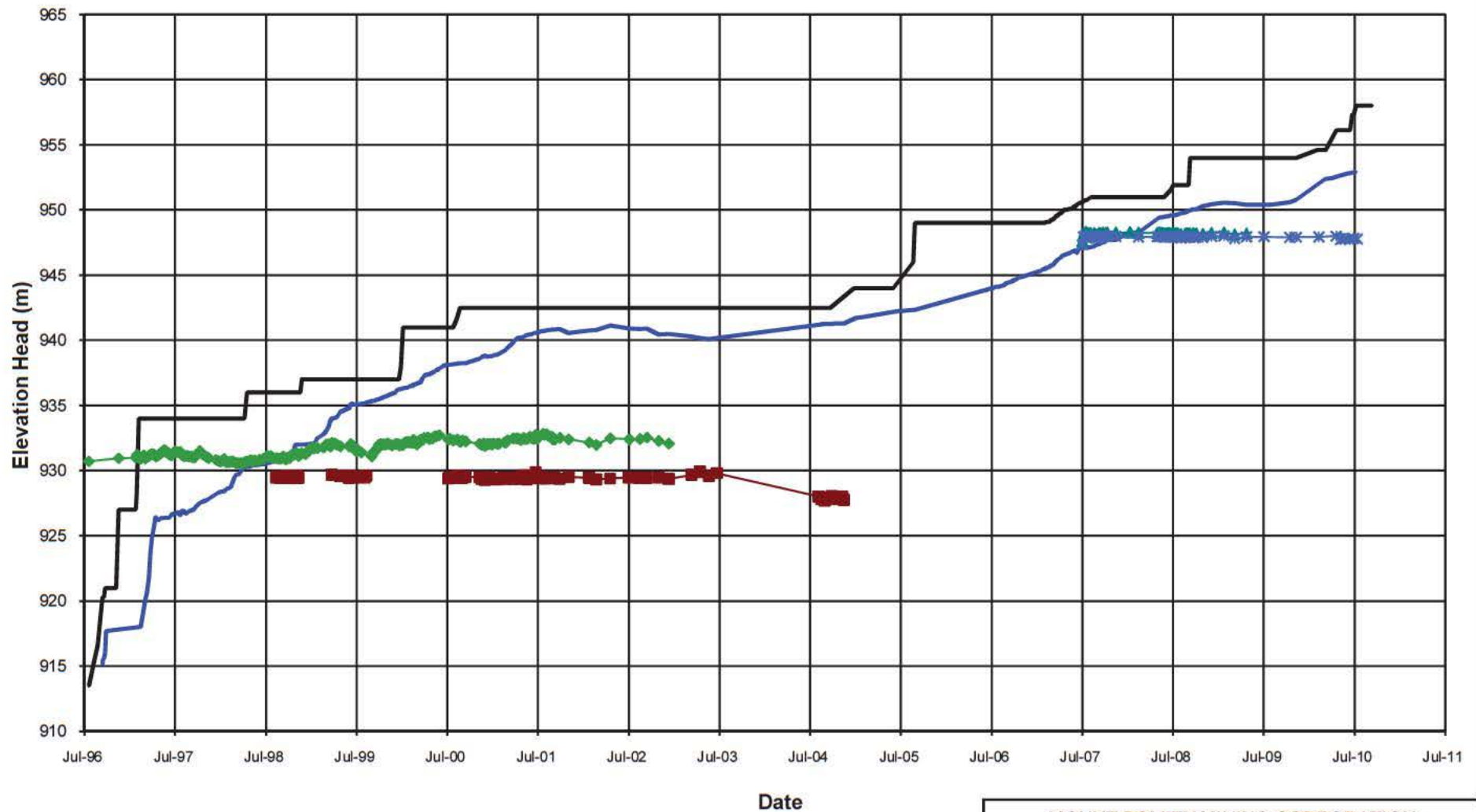
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
2

FIGURE A3.3

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE D FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

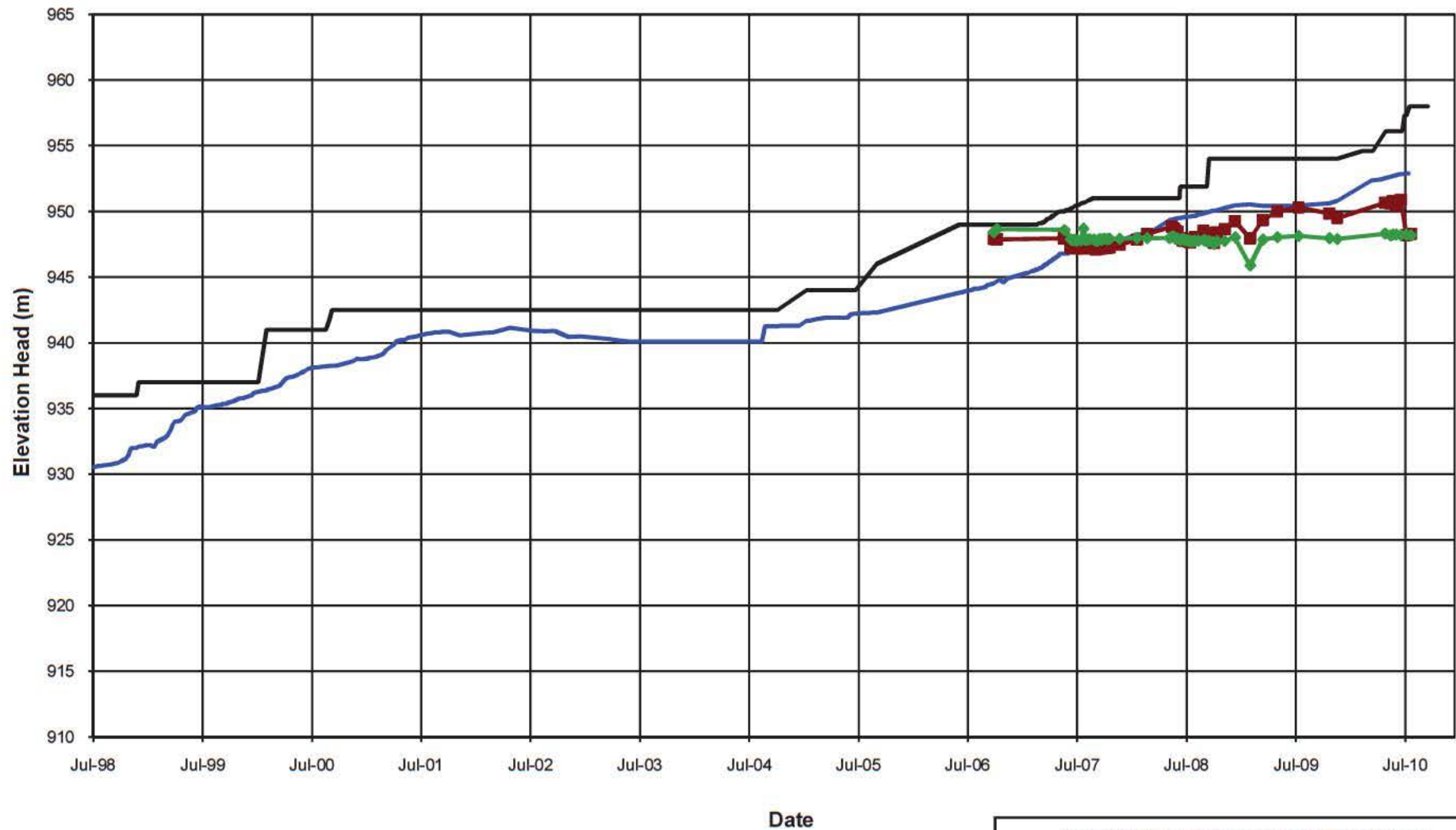
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
2

FIGURE A3.4

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE E FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

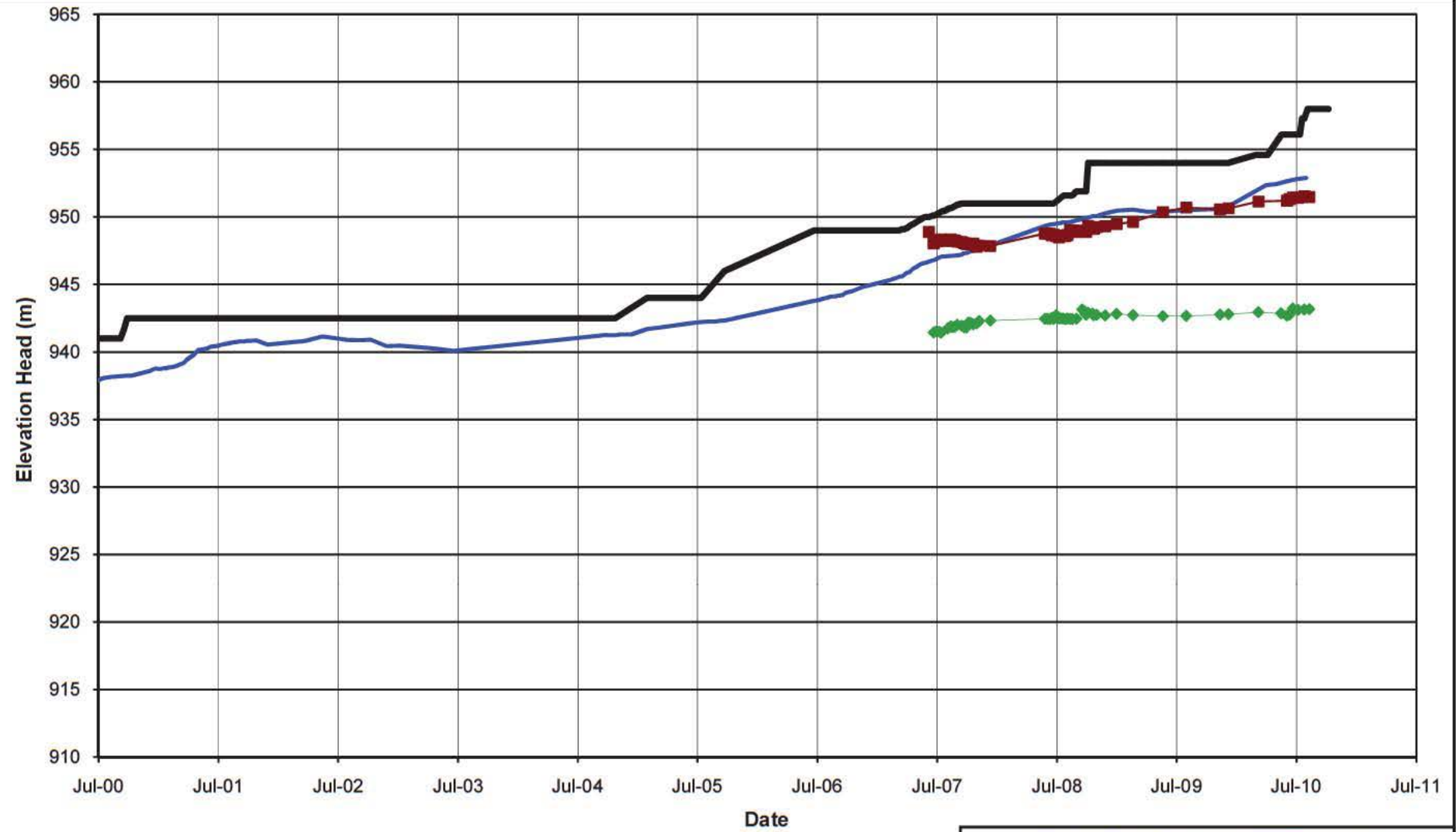
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
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FIGURE A3.5

REV
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**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE F FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
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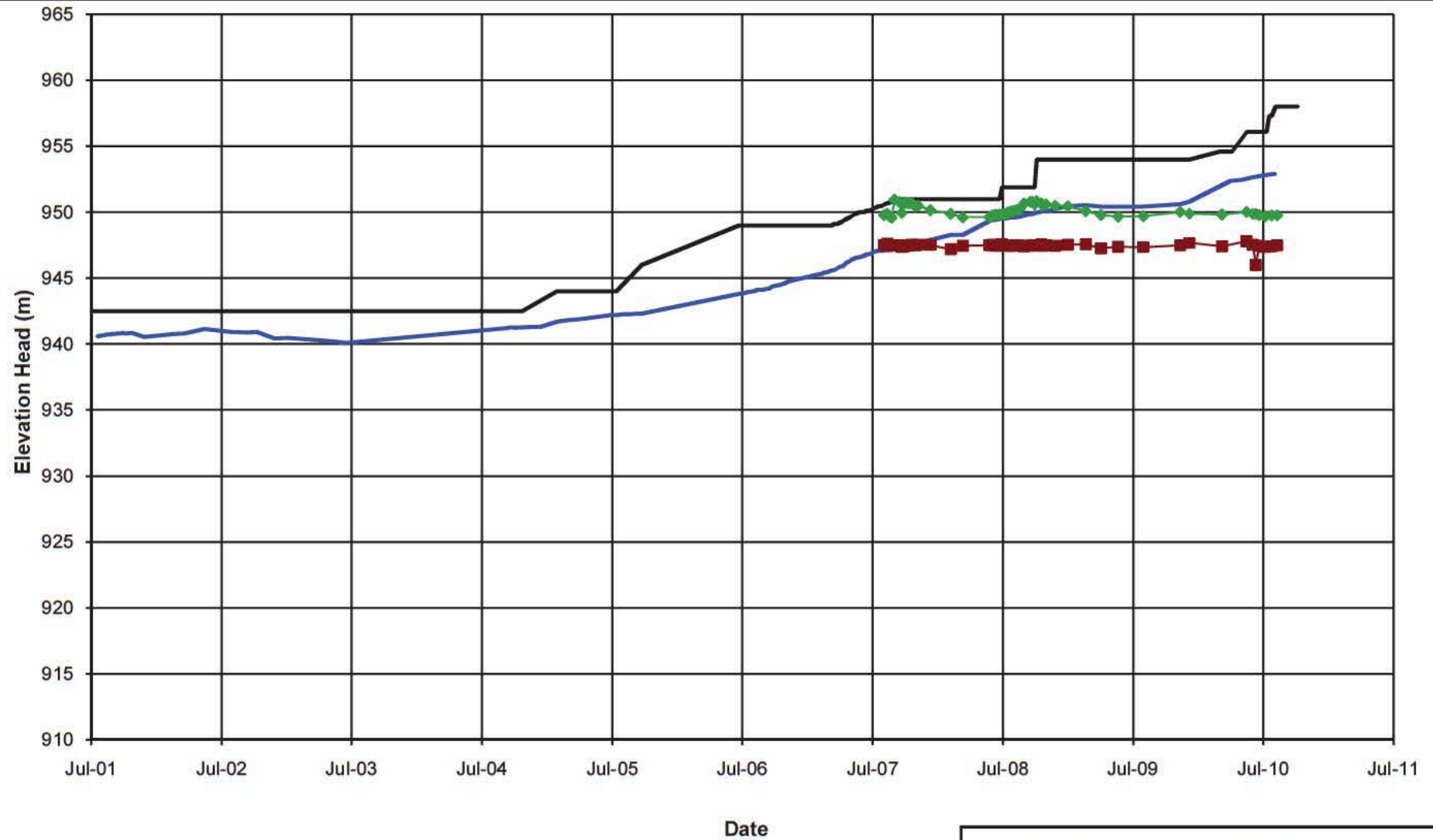
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FIGURE A3.6

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REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE G FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

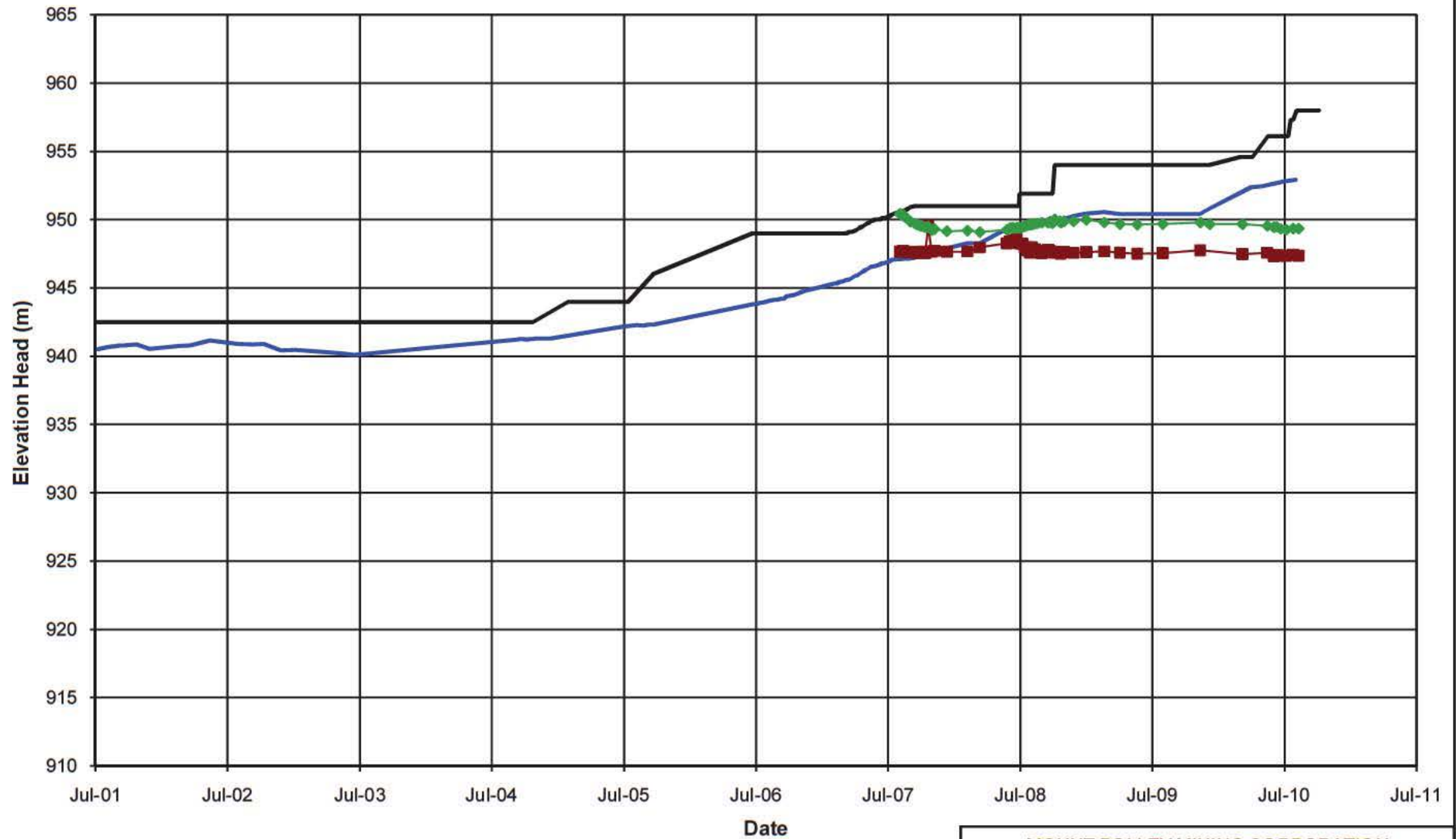
Knight Piésold
CONSULTING

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VA101-1/29

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2

FIGURE A3.7

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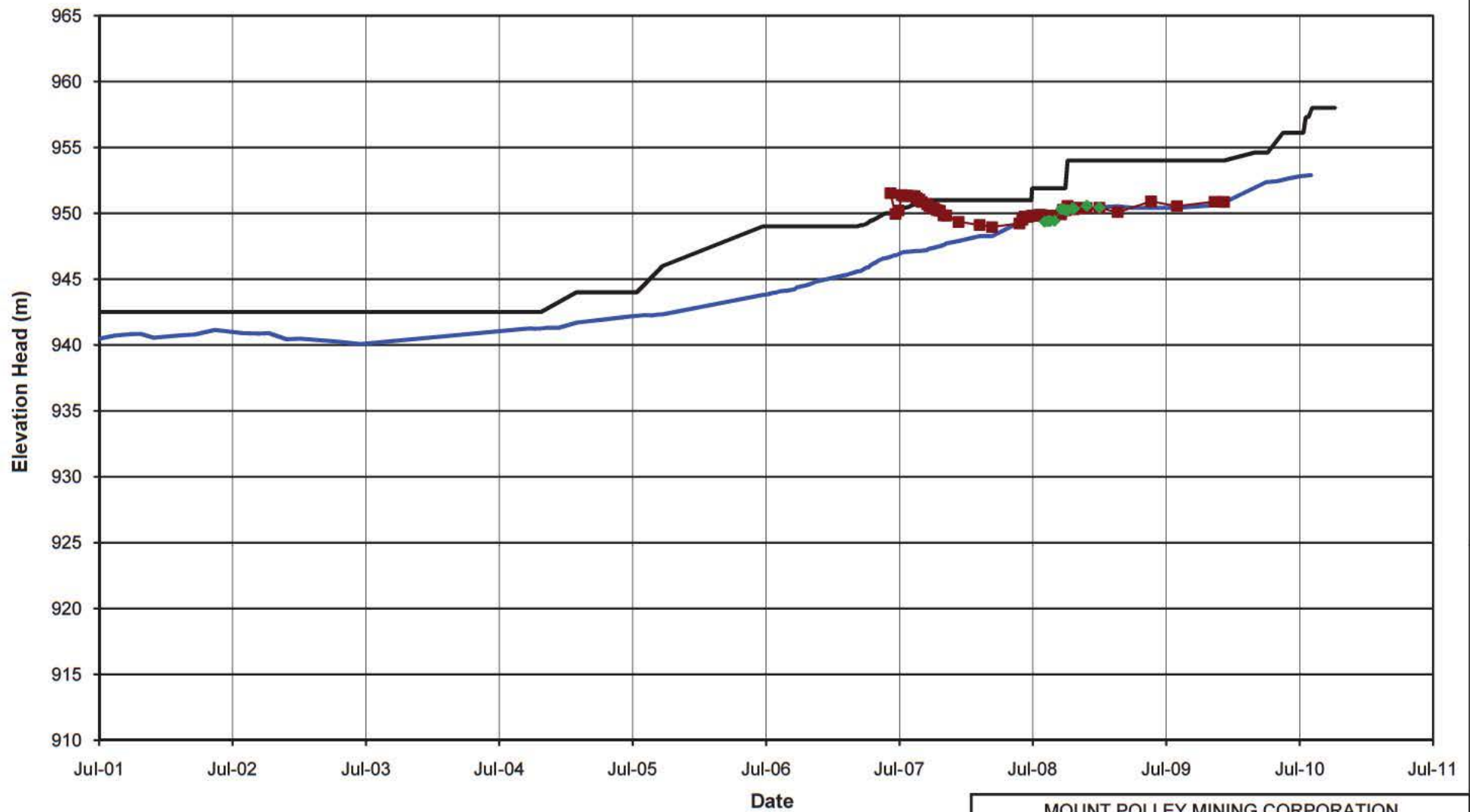
MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE H FILL PIEZOMETERS
ELEVATION HEAD vs. TIME*Knight Piésold*
CONSULTINGP/A NO.
VA101-1/29REF NO.
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FIGURE A3.8

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**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE I FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
2

FIGURE A3.9

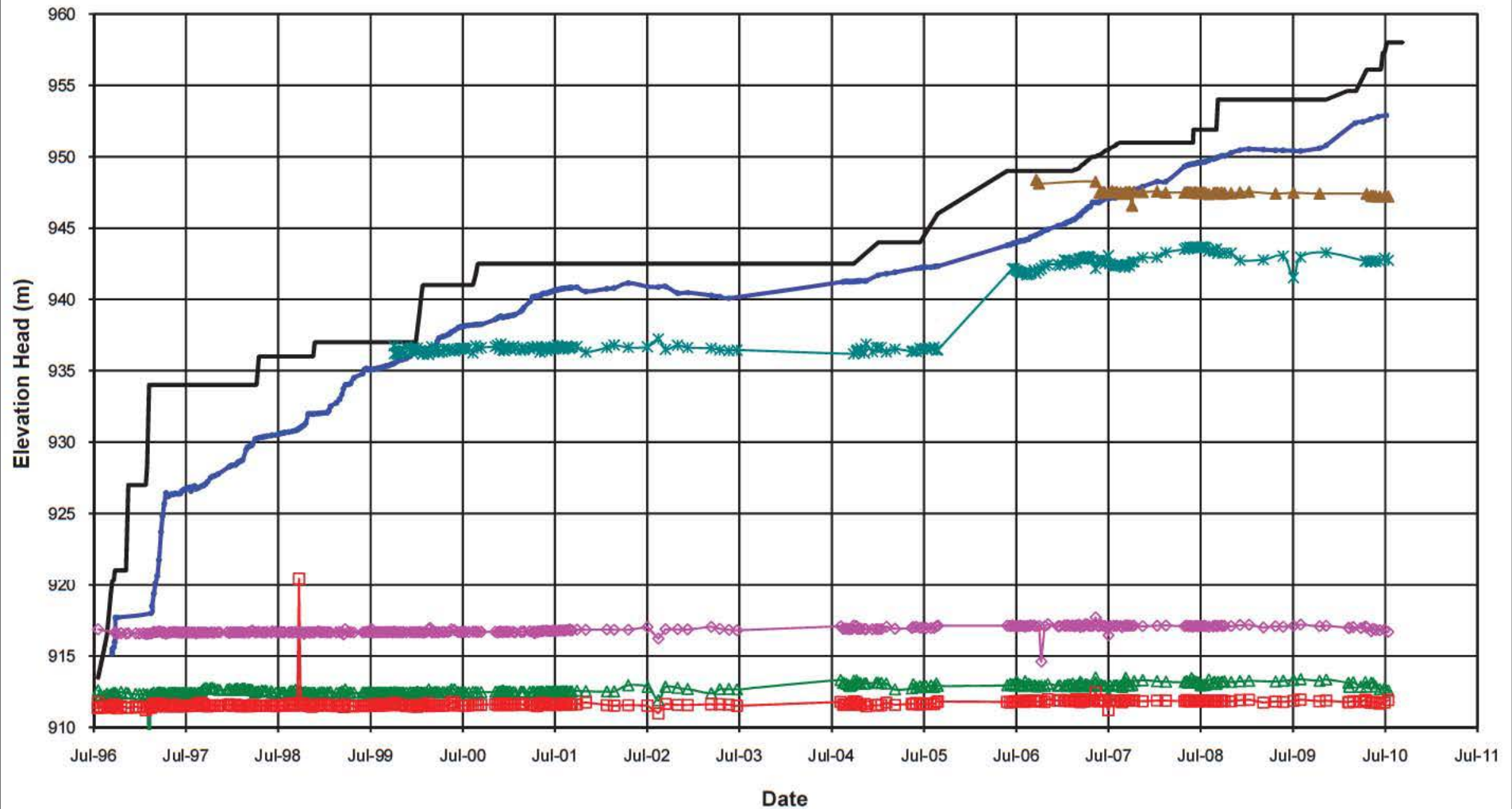
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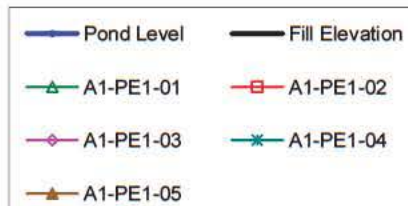
APPENDIX A4

FILL PIEZOMETERS

(Pages A4-1 to A4-9)

**NOTE:**

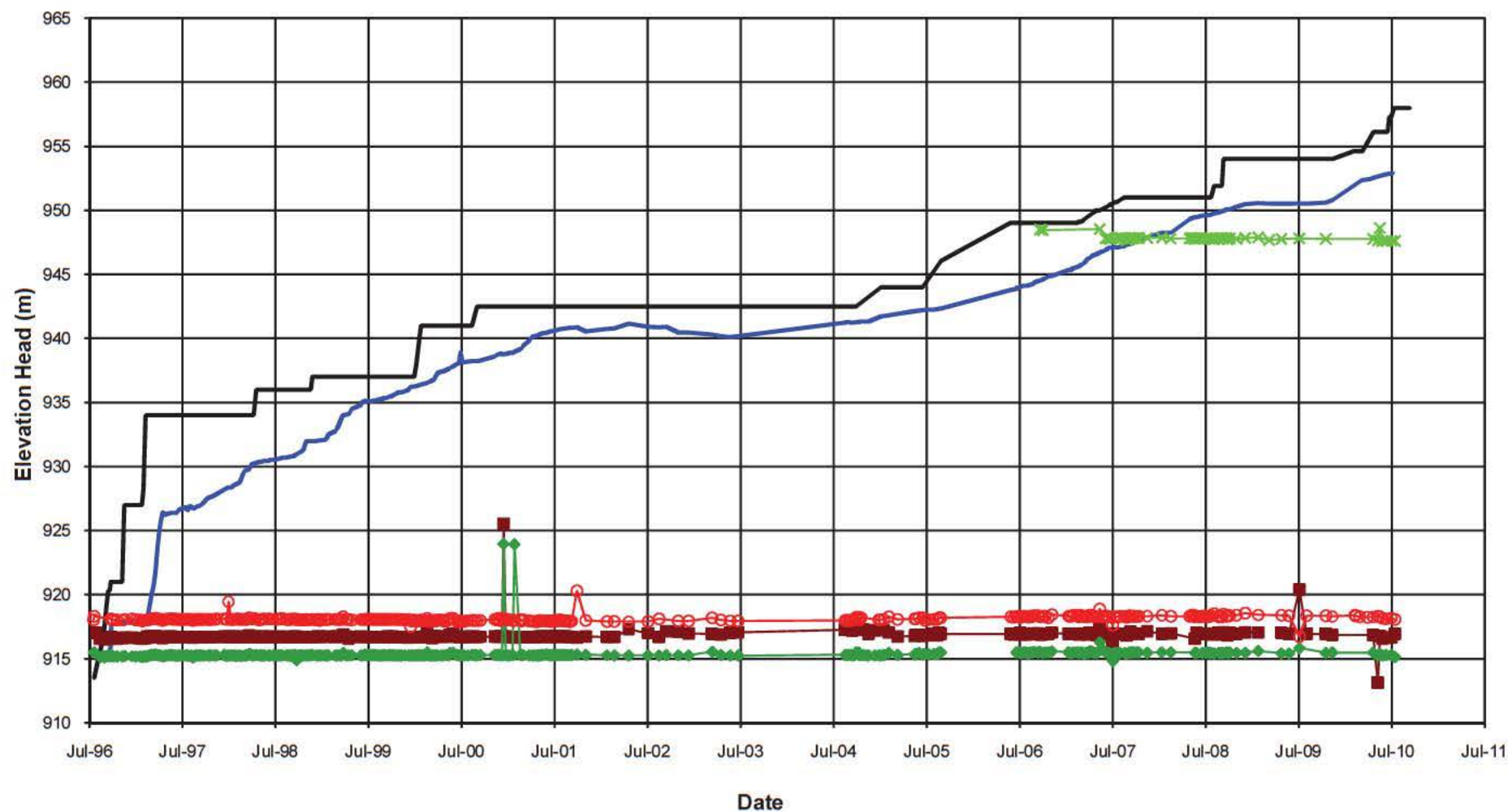
1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE A DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME***Knight Piésold***
CONSULTINGP/A NO.
VA101-1/29REF NO.
2**FIGURE A4.1**REV
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**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.



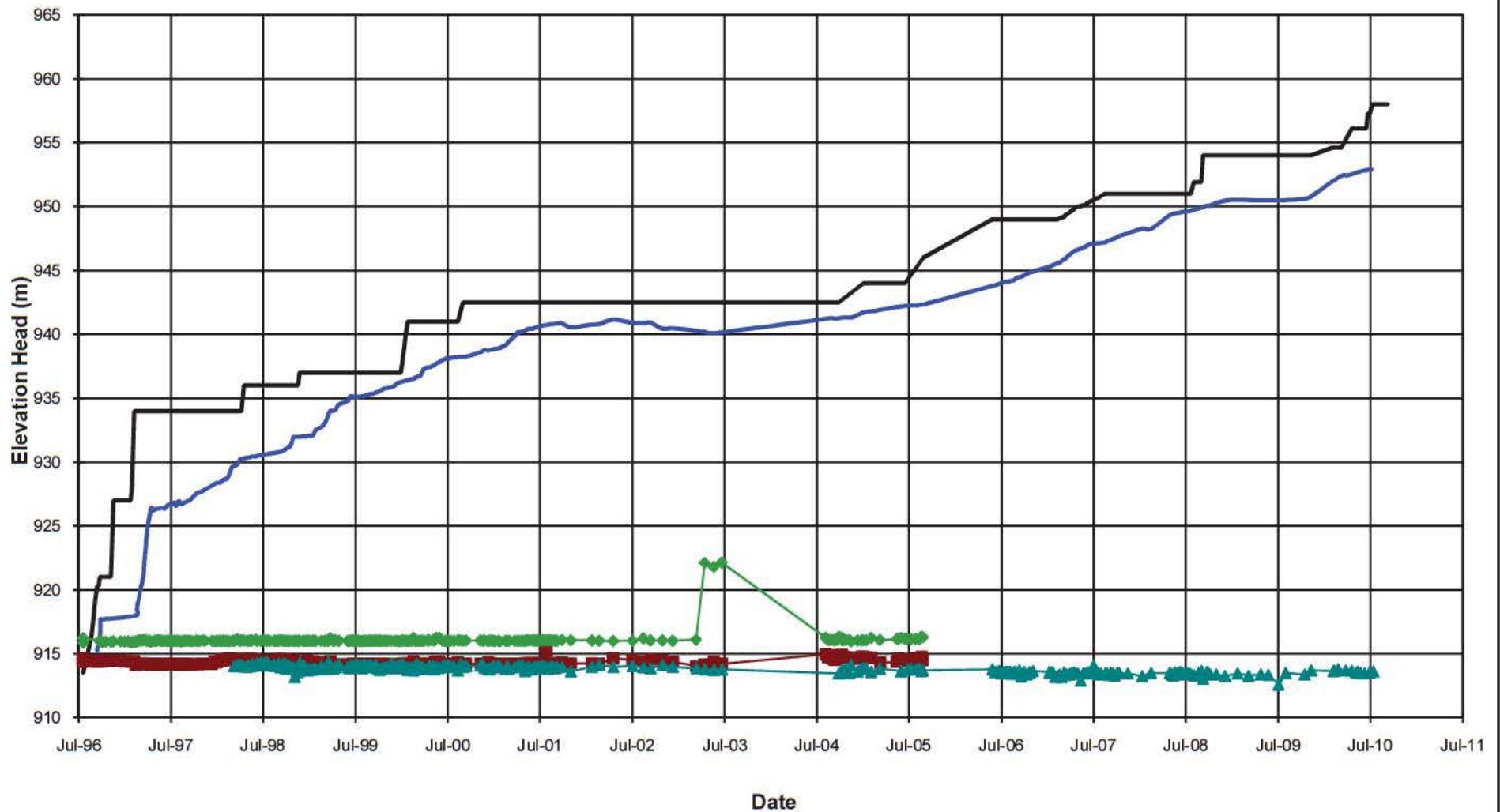
MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

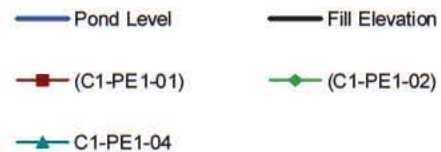
PLANE B DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME*Knight Piésold*
CONSULTINGP/A NO.
VA101-1/29REF NO.
2

FIGURE A4.2

REV
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**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE C DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

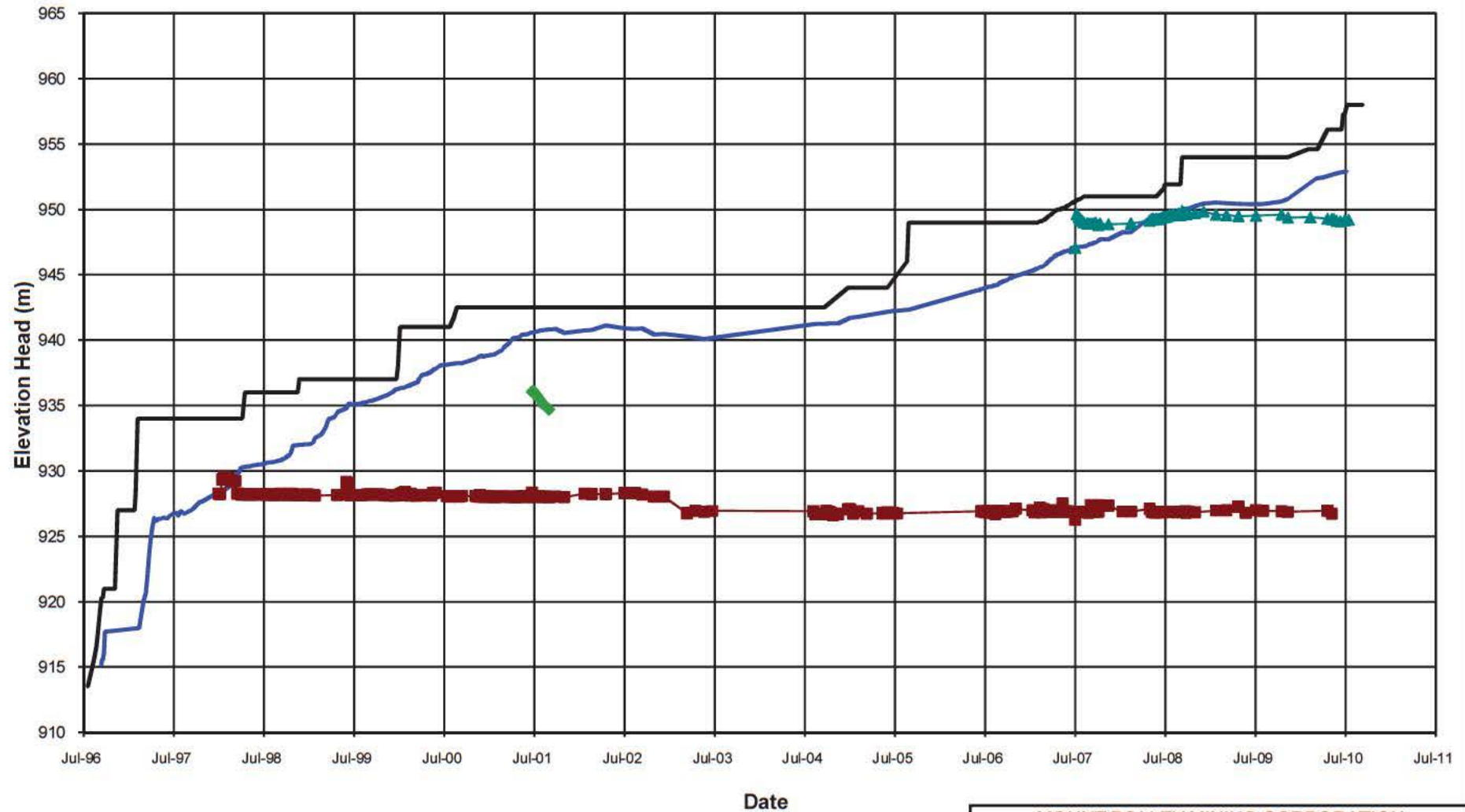
Knight Piésold
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P/A NO.
VA101-1/29

REF NO.
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FIGURE A4.3

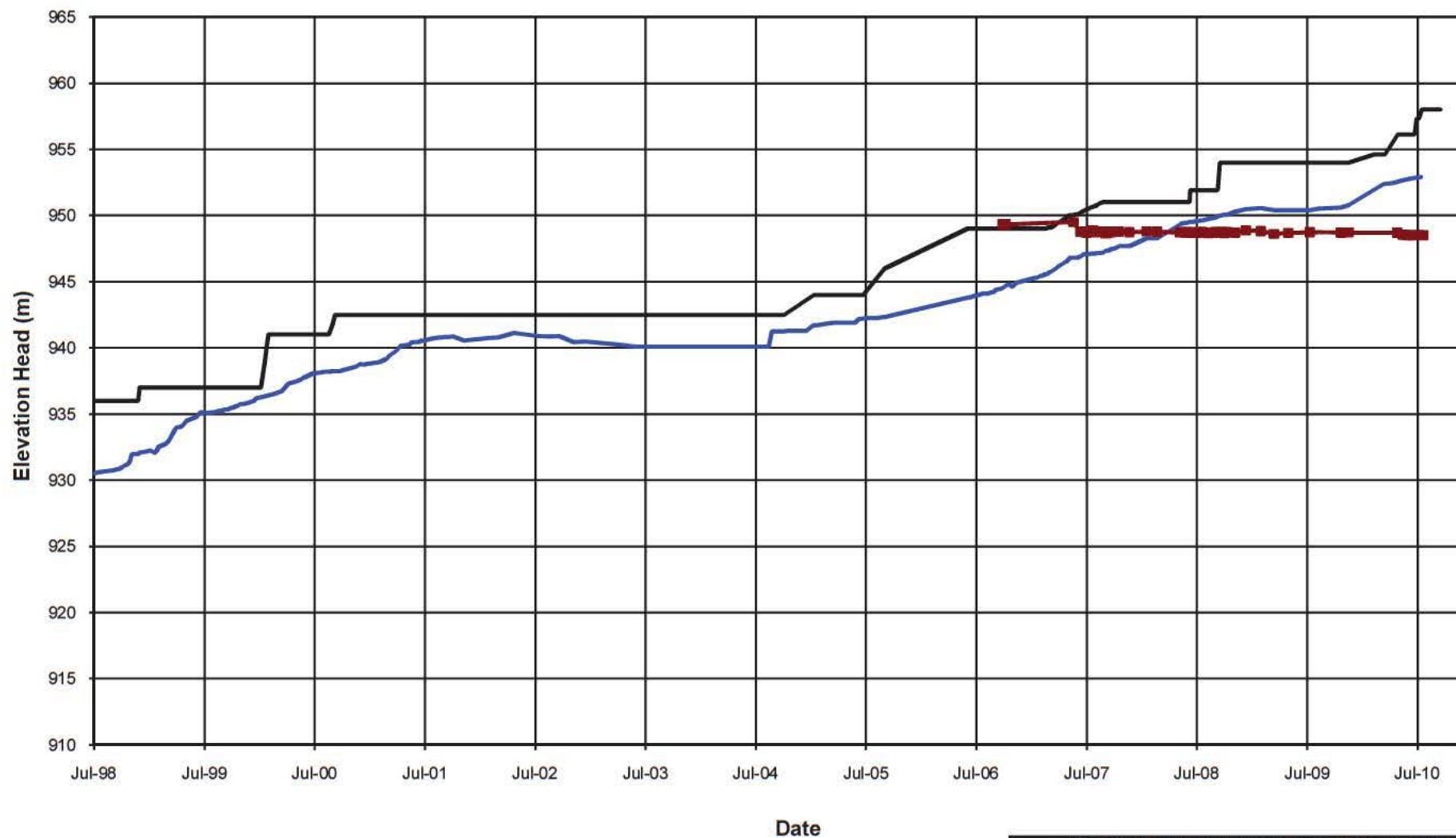
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INVESTIGATIONS KP 4-3 Page 202 of 500

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REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

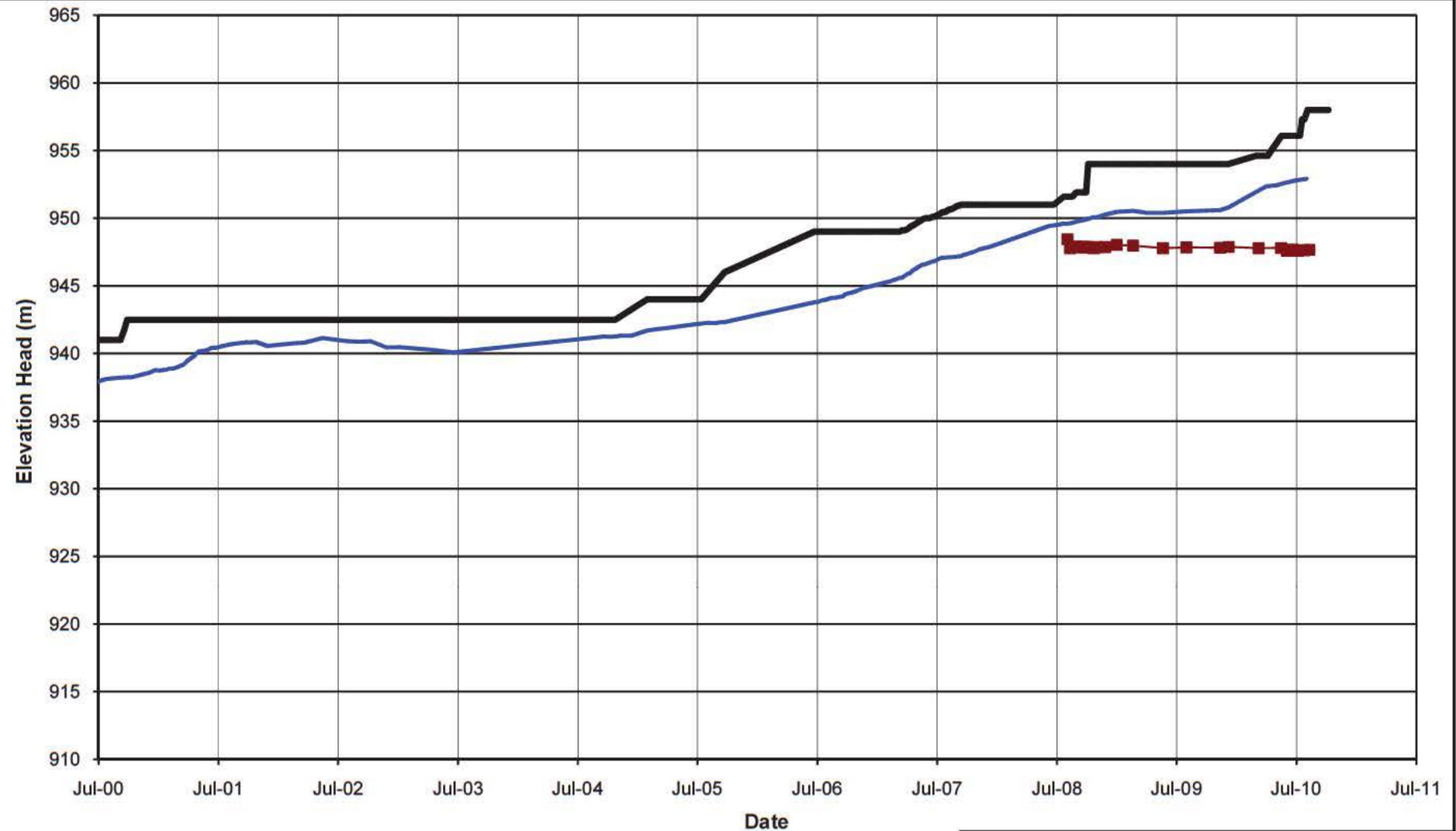
MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
PLANE D DRAIN PIEZOMETERS ELEVATION HEAD vs. TIME		
Knight Piésold CONSULTING	P/A NO. VA101-1/29	REF. NO. 2
	FIGURE A4.4	
		REV 0



MOUNT POLLEY MINING CORPORATION

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PLANE E DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME**Knight Piésold**
CONSULTINGP/A NO.
VA101-1/29REF NO.
2**FIGURE A4.5**REV
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**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.

— Pond Level — Fill Elevation
 ■ F1-PE1-01 — Series4

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MOUNT POLLEY MINE

PLANE F DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

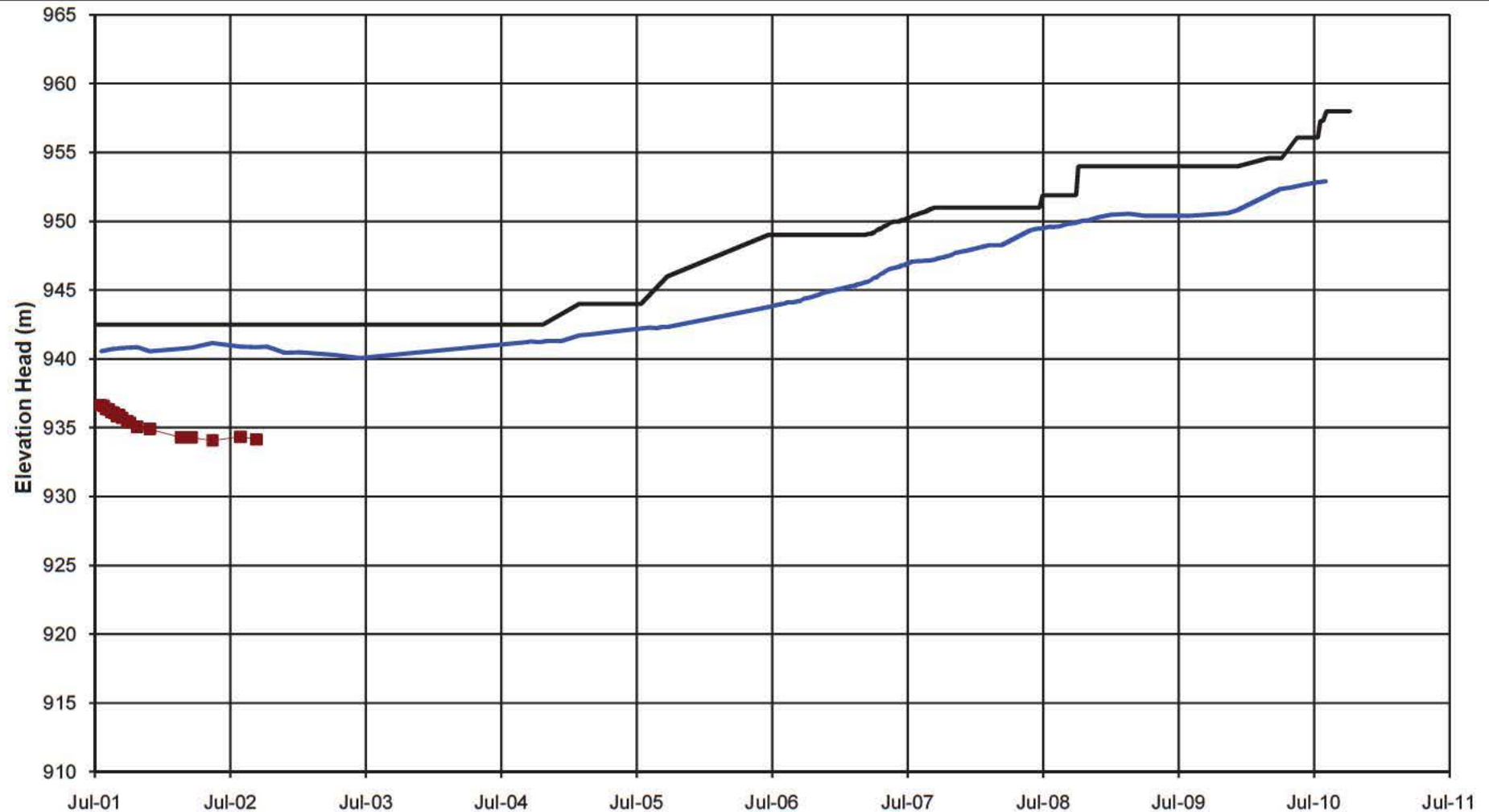
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P/A NO.
VA101-1/29

REF NO.
2

FIGURE A4.6

REV
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**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.

— Pond Level — Fill Elevation
 — (G1-PE1-01)

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE G DRAIN PIEZOMETERS
 ELEVATION HEAD vs. TIME

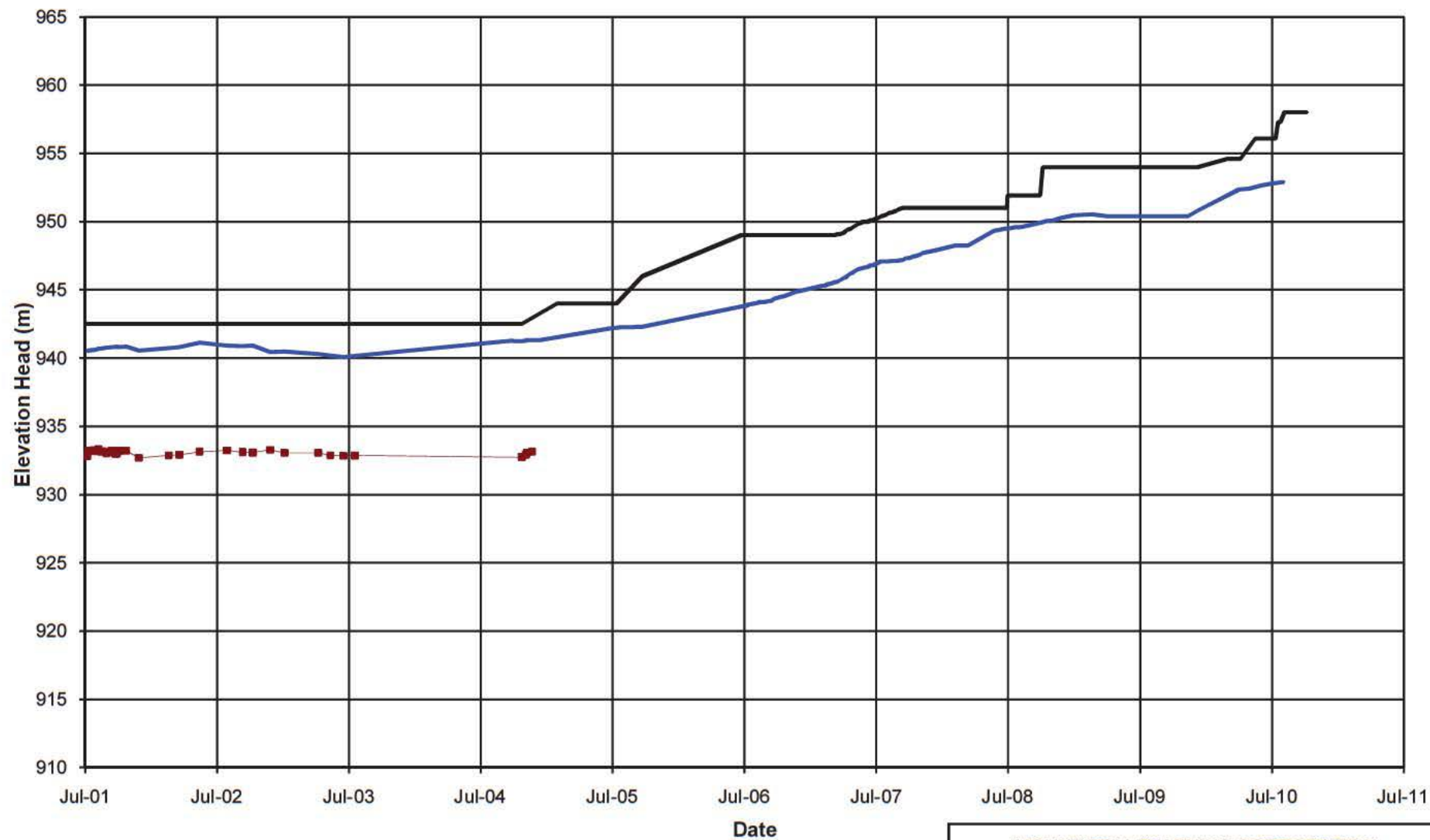
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 VA101-1/29

REF NO.
 2

FIGURE A4.7

REV
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**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level — Fill Elevation
 ■ (H1-PE1-01)

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE H DRAIN PIEZOMETERS
 ELEVATION HEAD vs. TIME

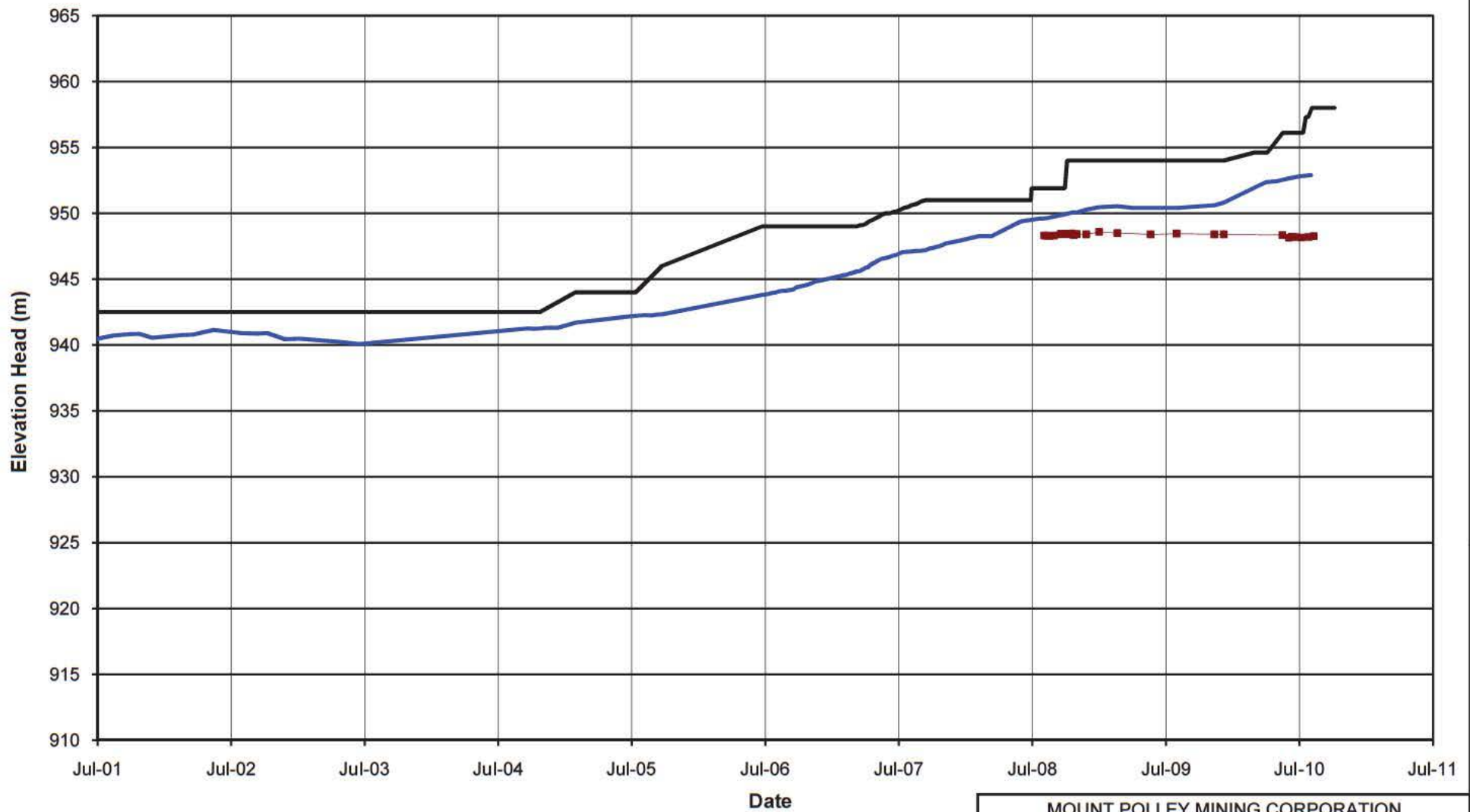
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P/A NO.
 VA101-1/29

REF NO.
 2

FIGURE A4-8

REV
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INVESTIGATIONS KP 4-3 Page 207 of 500

NOTE:
1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.

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REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

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PLANE I DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
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VA101-1/29

REF NO.
2

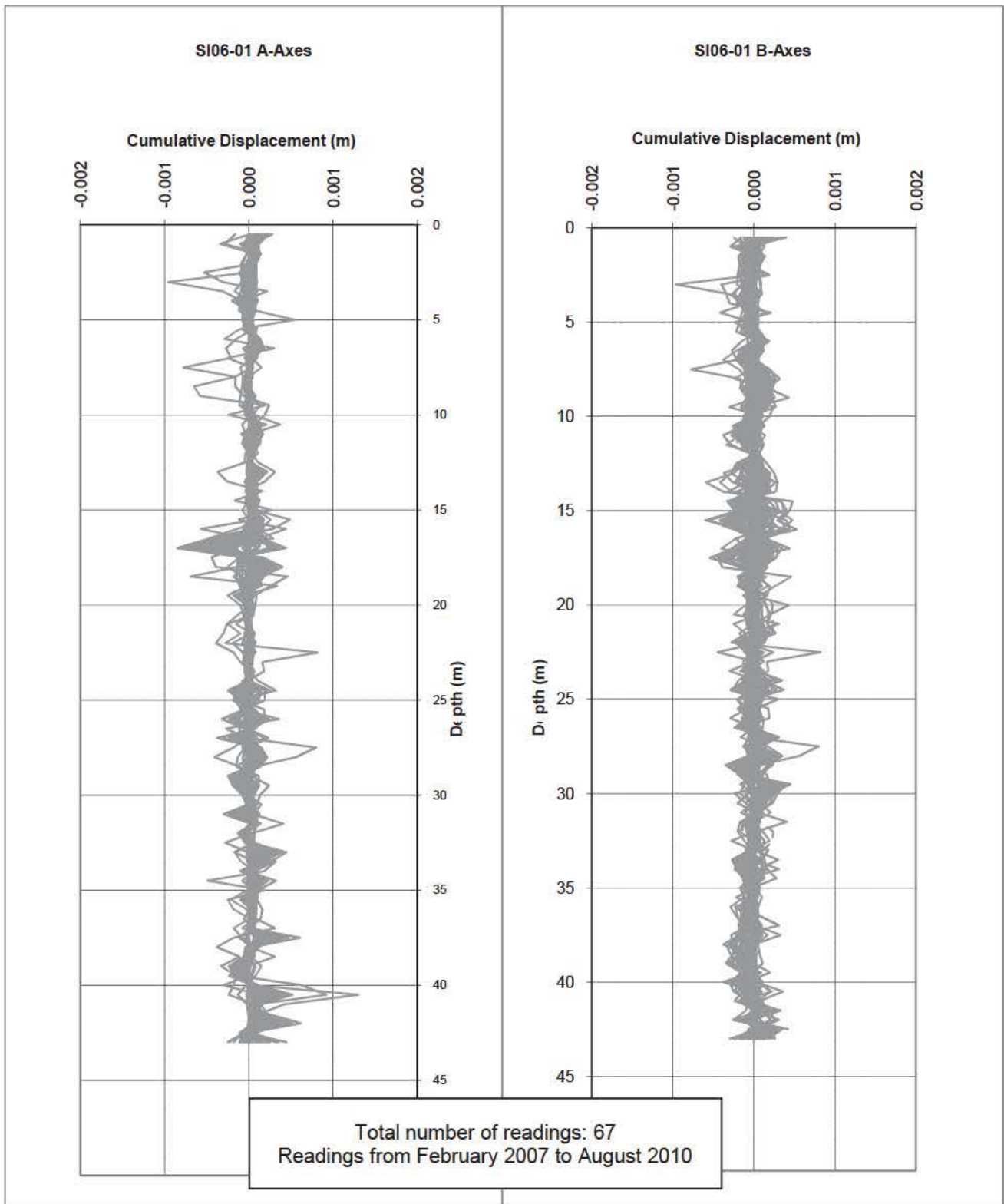
FIGURE A4.9

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APPENDIX B

FILL PIEZOMETERS

(Pages B-1 to B-4)



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REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
TAILINGS STORAGE FACILITY STAGE 6B
DOWN HOLE INCLINOMETER
CUMULATIVE DISPLACEMENT SI06-01

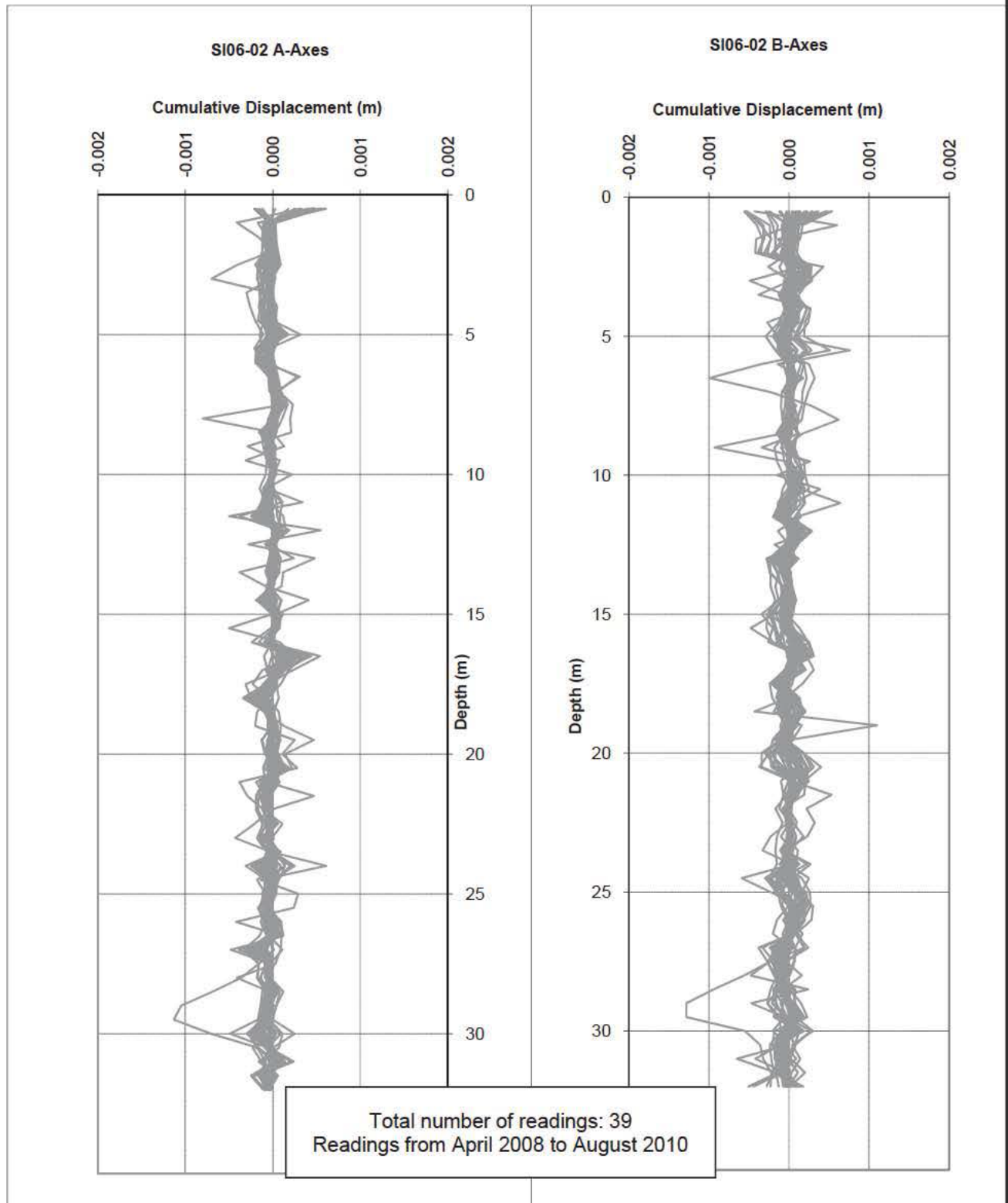
Knight Piésold
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P/A NO.
VA101-1/29

REF NO.
2

INVESTIGATIONS **FIGURE B-1**

REV
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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

**TAILINGS STORAGE FACILITY STAGE 6B
DOWN HOLE INCLINOMETER
CUMULATIVE DISPLACEMENT SI06-02**

Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

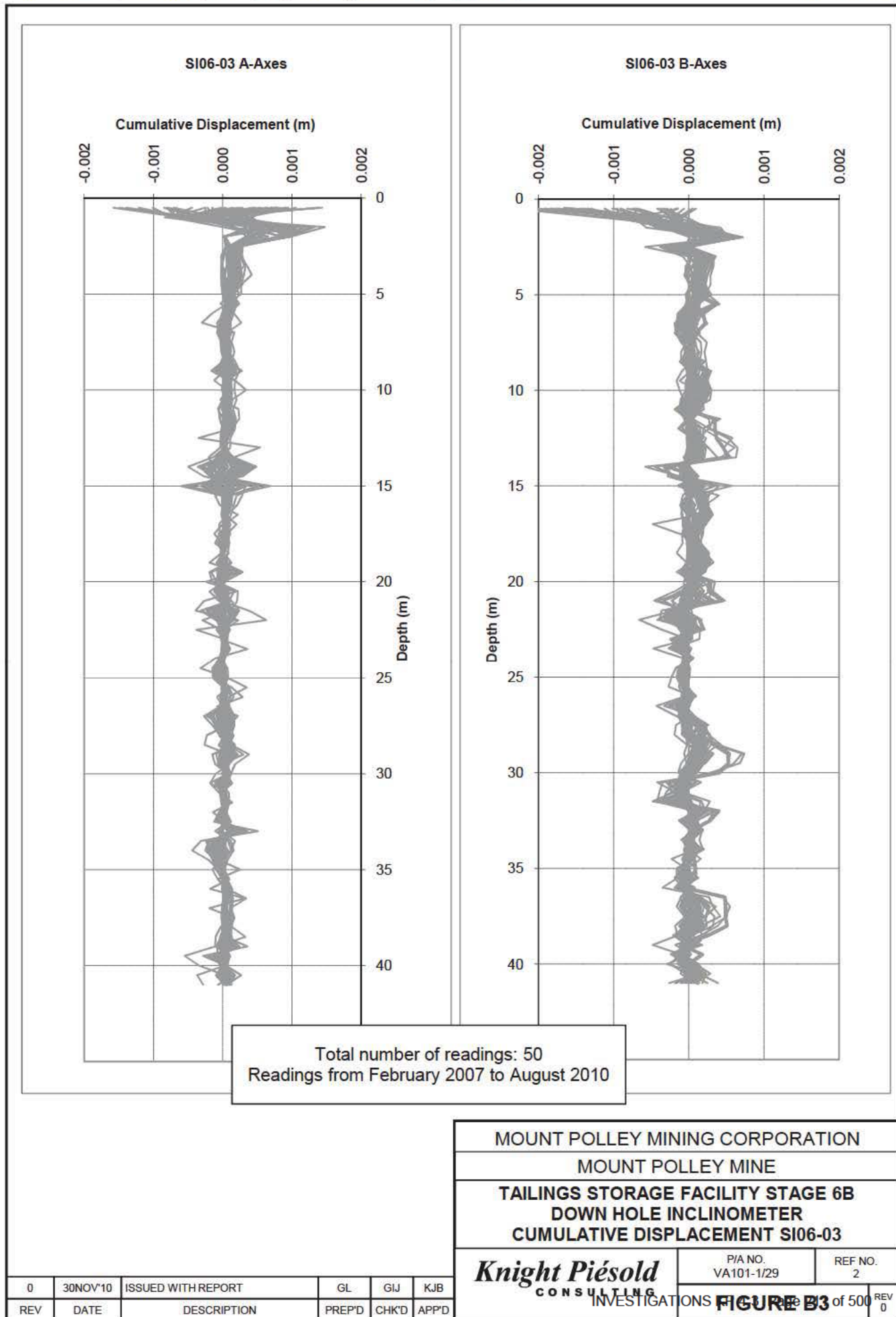
REF NO.
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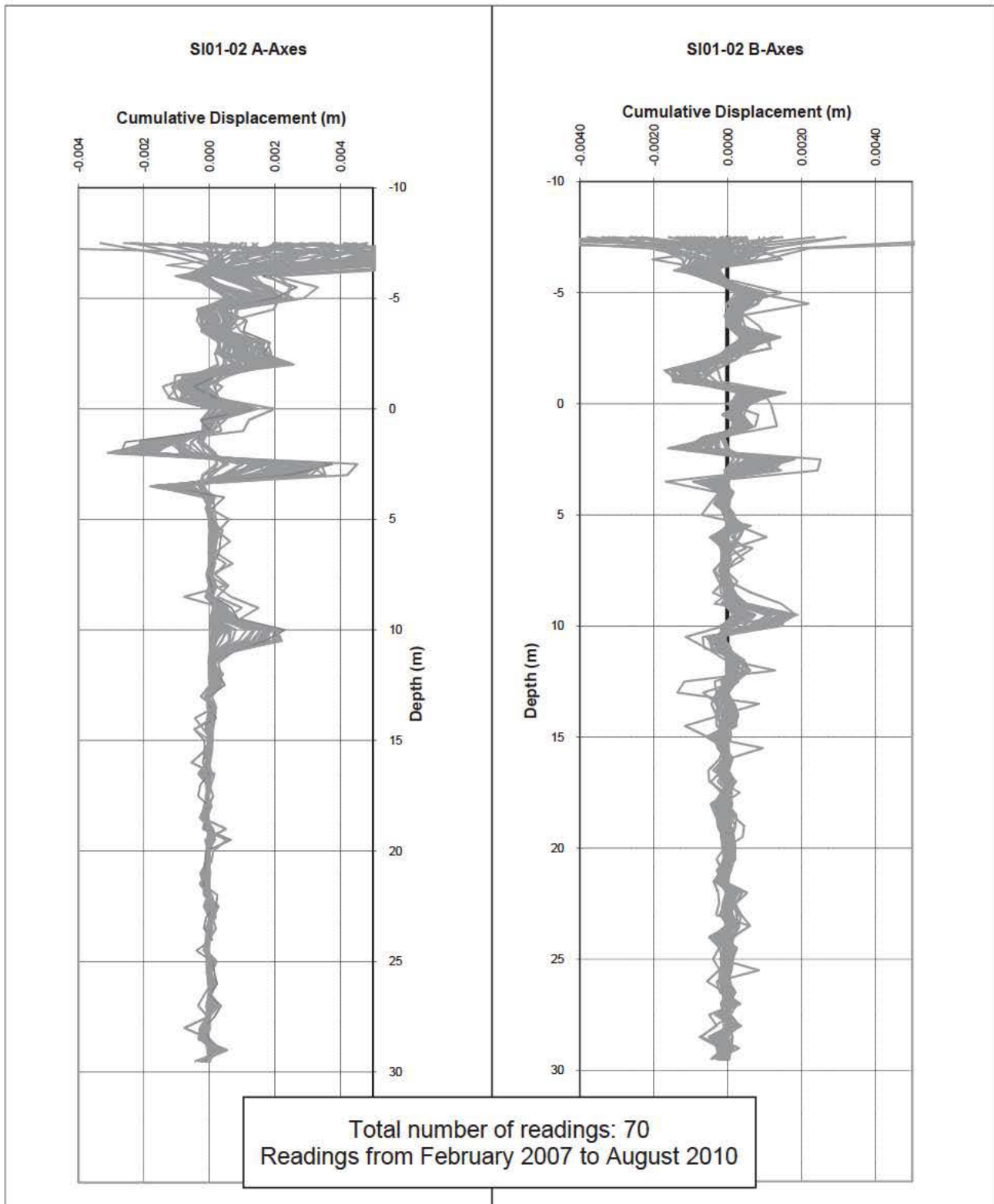
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REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

INVESTIGATIONS

FIGURE B2

REV
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MOUNT POLLEY MINING CORPORATION					
MOUNT POLLEY MINE					
TAILINGS STORAGE FACILITY STAGE 6B					
DOWN HOLE INCLINOMETER					
CUMULATIVE DISPLACEMENT SI01-02					
Knight Piesold CONSULTING		P/A NO. VA101-1/29		REF NO. 2	
		INVESTIGATIONS		FIGURE B4 of 500	
0	30NOV'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

APPENDIX C

FILL PIEZOMETERS

(Pages C-1 to C-8)



PHOTO 1 – Perimeter Embankment Crest.



PHOTO 2 – Perimeter Embankment Seepage Collection and Recycle Pond.

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PHOTO 3 – Perimeter Embankment Toe Drain Flow.



PHOTO 4 – Glacial Till borrow Downstream of Perimeter Embankment.

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PHOTO 5 – Tension Crack Location at the Perimeter Embankment.



PHOTO 6 – Tension Crack at the Perimeter Embankment.

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PHOTO 7 – Downstream Slope of Perimeter Embankment.



PHOTO 8 – Downstream Slope of Main Embankment.

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PHOTO 9 – Main Embankment Seepage Collection and Recycle Pond.



PHOTO 10 – Main Embankment Buttress.

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PHOTO 11 – Tailings Beach, From Main Embankment looking towards Perimeter Embankment.



PHOTO 12 – Downstream Slope of South Embankment.

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PHOTO 13 – South Embankment – Supernatant Pond adjacent to the dam



PHOTO 14 – South Embankment Seepage Collection and Recycle Pond.

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PHOTO 15 – South Embankment Upstream Toe Drain flow.



PHOTO 16 – South Bootjack Dam.

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MOUNT POLLEY MINE**

TRANSMITTAL

Suite 1400 - 750 West Pender Street
Vancouver, BC V6C 2T8
Tel: 604.685.0543
Fax: 604.685.0147

TO: Imperial Metals Corporation
200 - 580 Hornby Street
Vancouver, BC V6C 3B6

DATE: December 17, 2010

FILE NO.: VA101-1/29-A.01

ATTENTION: Mr. Ron Martel

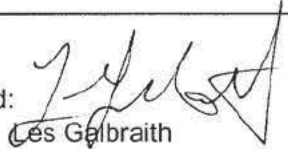
CONT. NO.: VA10-01946

RE: 2010 Engineering Support for Mount Polley Mine

ITEM NO.	DESCRIPTION
1.	7 Copies (Copy No # 1 – 7) Report: MOUNT POLLEY MINING CORPORATION MOUNT POLLEY MINE TAILINGS STORAGE FACILITY REPORT ON STAGE 6B CONSTRUCTION VA101-1/29-1 Rev 0 December 15, 2010
2.	6 Copies (Copy No # 1 -6) Report: MOUNT POLLEY MINING CORPORATION MOUNT POLLEY MINE TAILINGS STORAGE FACILITY REPORT ON 2010 ANNUAL INSPECTION VA101-1/29-2 Rev 0 December 16, 2010

REMARKS: To be forwarded to Ron Martel by Imperial Metals Corp. to the Likely Mount Polley Mining Corporation address.

Signed: 
Alec Whitford

Approved: 
Les Galbraith

TRANSMITTAL

*Suite 1400 - 750 West Pender Street
Vancouver, BC V6C 2T8
Tel: 604.685.0543
Fax: 604.685.0147*

TO: Mount Polley Mining Corporation
P.O. Box 12
Likely, British Columbia
Canada, V0L 1N0

DATE: Dec 16, 2010

FILE NO.: VA101-1/29-A.01

ATTENTION: Mr. Ron Martel

CONT. NO.: VA10-01883

RE: 2010 Engineering Support for Mount Polley Mine

ITEM NO.	DESCRIPTION
1.	pdf copy of the "Tailings Storage facility As-Built Stage 6b Report" (VA101-29/1-1 Rev 0)
2.	
3.	

REMARKS:

Sent via email

Signed:
Admin Staff

Approved:
Greg Johnston

Copy To:

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**TAILINGS STORAGE FACILITY
REPORT ON STAGE 6B CONSTRUCTION**



PREPARED FOR

Mount Polley Mining Corporation
P.O. Box 12
Likely, BC V0L 1N0

PREPARED BY

Knight Piésold Ltd.
Suite 1400 – 750 West Pender Street
Vancouver, BC V6C 2T8



ISO 9001, ISO 14001
OHSAS 18001

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**TAILINGS STORAGE FACILITY
REPORT ON STAGE 6b CONSTRUCTION
(REF. NO. VA101-1/29-1)**

Rev	Description	Date	Approved
0	Issued in Final	December 15, 2010	<i>RJB</i>

Knight Piésold Ltd.

Suite 1400
750 West Pender Street
Vancouver, British Columbia Canada V6C 2T8
Telephone: (604) 685-0543
Facsimile: (604) 685-0147
www.knightpiesold.com

Knight Piésold
CONSULTING

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**TAILINGS STORAGE FACILITY
REPORT ON STAGE 6b CONSTRUCTION
(REF. NO. VA101-1/29-1)**

EXECUTIVE SUMMARY

The Mount Polley Mine is owned by Mount Polley Mining Corporation (MPMC). It is located 56 kilometers northeast of Williams Lake, in central British Columbia. Mount Polley Mine started production in 1997 and prior to stopping production in October 2001. Mount Polley Mine restarted production in March 2005 and has been in continuous operation. The current mill throughput is approximately 20,000 tpd with the tailings material deposited as slurry in the Tailings Storage Facility (TSF). There has been an estimated 65 Mt of tailings deposited in the TSF by June 2010. The Mount Polley Mine TSF consists of one embankment divided into three sections: the Main Embankment, Perimeter Embankment, and the South Embankment. The Stage 6b construction program was designed for raising the embankments by 4 m to an elevation of 958 m.

The Stage 6b TSF construction program at Mount Polley Mine commenced in October 2009 and was completed in August of 2010. Earthworks for the Stage 6b Tailings Storage Facility construction program comprised the following zones and materials:

- Zone U: Upstream shell zone – produced from coarse tailings in sand cells, or from rockfill.
- Zone S: Core zone - fine grained glacial till.
- Zone F: Filter, drainage zones, and chimney drain - processed sand and gravel.
- Zone T: Transition filter zone - select well-graded fine-grained rockfill.
- Zone C: Downstream shell zone – rockfill.

The Zones S, F and T were raised to 958 m, Zones C and U vary in elevation around the embankment between 957.3 and 958.5 m.

Technical supervision of the work by Knight Piésold included QA/QC testing and monitoring the existing vibrating wire piezometers and inclinometers. The QA/QC component involved collecting and testing Record and Control samples for Zones S, F and T. The results of the QA/QC testwork indicate that the construction fill materials were placed and compacted within the required material specifications and were in accordance with the Stage 6b design of the TSF. The Zone C material on the downstream shell is constructed at a relatively steep grade of approximately 1.4H:1V. The buttress on the main embankment construction has not been completed as designed. It is recommended a review of the embankment stability is completed prior to further embankment raises.

There are in total fifty six functioning vibrating wire piezometers installed the TSF. No new piezometers were installed during the Stage 6b construction program. The results of the instrumentation monitoring show no unexpected or anomalous pore pressures have developed. It is recommended that additional piezometers be installed to replace piezometers that have been damaged or no longer function.

There are four operating slope inclinometers in the TSF all are located at the Main Embankment. No new inclinometers were installed during the Stage 6b construction program. There have been no significant deviations in the four inclinometers monitored.

The regular measurement of seepage flow and underdrain flow was not completed during 2010. The regular measurement of seepage is specified in the Operations, Maintenance and Surveillance (OMS) Manual. At present, it is operationally complex to monitor seepage and drainage flows from the TSF. It is recommended that this process is simplified and regular seepage flows are collected.

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**TAILINGS STORAGE FACILITY
REPORT ON STAGE 6b CONSTRUCTION
(REF. NO. VA101-1/29-1)**

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Table 2.3 Rev 0	Tailings Storage Facility – Main Embankment Foundation Piezometers

FIGURES

Figure 2.1 Rev 0	Zone S Control Samples – Particle Size Analysis
Figure 2.2 Rev 0	Zone S Record Samples – Particle Size Analysis
Figure 2.3 Rev 0	Zone S Record Tests – Field Dry Density
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Figure 2.5 Rev 0	Zone S Record Tests – Field Moisture Content
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Figure 2.7 Rev 0	Zone F Control Samples – Particle Size Analysis
Figure 2.8 Rev 0	Zone F Record Samples – Particle Size Analysis
Figure 2.9 Rev 0	Zone T Record Samples – Particle Size Analysis
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Figure 2.11 Rev 0	Foundation Drain Flows

DRAWINGS

VA101-1/29-100 Rev 0	Stage 6b Tailings Embankment – Overall Site Plan
VA101-1/29-102 Rev 0	Stage 6b Tailings Embankment – General Arrangement
VA101-1/26-104 Rev 1	Stage 6b Tailings Embankment – Material Specifications
VA101-1/26-210 Rev 1	Stage 6b Main Embankment – Plan
VA101-1/26-215 Rev 1	Stage 6b Main Embankment – Section
VA101-1/26-216 Rev 1	Stage 6b Main Embankment – Detail
VA101-1/26-220 Rev 1	Stage 6b Perimeter Embankment – Plan
VA101-1/26-225 Rev 1	Stage 6b Perimeter Embankment – Section
VA101-1/26-226 Rev 1	Stage 6b Perimeter Embankment – Detail
VA101-1/26-230 Rev 1	Stage 6b South Embankment – Plan
VA101-1/26-235 Rev 1	Stage 6b South Embankment – Section 1
VA101-1/29-255 Rev 0	Stage 6b – Instrumentation – Plan View of Piezometer Planes
VA101-1/29-256 Rev 0	Stage 6b – Instrumentation – Main Embankment Planes A and B
VA101-1/29-257 Rev 0	Stage 6b – Instrumentation – Main Embankment Planes C and E
VA101-1/29-258 Rev 0	Stage 6b – Instrumentation – Perimeter Embankment Planes D, G and H
VA101-1/29-259 Rev 0	Stage 6b – Instrumentation – South Embankment Planes F and I

APPENDICES

Appendix A	Laboratory Test Results – Offsite
A1	Zone S Control
A2	Zone S Record
A3	Zone F Record

	A4	Zone T Record
Appendix B		Nuclear Densometer Results – Zone S Record
Appendix C		Piezometer Figures
	C1	Tailings Piezometers
	C2	Foundation Piezometers
	C3	Fill Piezometers
	C4	Drain Piezometers
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Appendix E		Photographs
Appendix F		Design Modifications

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**TAILINGS STORAGE FACILITY
REPORT ON STAGE 6b CONSTRUCTION
(REF. NO. VA101-1/29-1)**

SECTION 1.0 - INTRODUCTION

1.1 PROJECT DESCRIPTION

The Mount Polley Mine is owned by Mount Polley Mining Corporation (MPMC). It is located 56 kilometers northeast of Williams Lake, in central British Columbia. The project site is accessible by paved road from Williams Lake to Morehead Lake and then by gravel road for the final 12 km. Mount Polley Mine started production in 1997 and had milled approximately 27.5 million tonnes of ore prior to stopping production in October 2001. Mount Polley Mine upgraded the mine facilities in the second half of 2004 and started production again in March 2005.

The resource at Mount Polley Mine is generally developed using open pit mining methods, with the Springer Pit, Pond Zone, and the Southeast Zone being mined or developed in 2009/2010. The open pit mining of the Wight Pit was completed in 2009, however, underground mining operations started in 2010. The tailings material is deposited as slurry into the Tailings Storage Facility (TSF). The process water is reclaimed from the supernatant pond where it is pumped back to the mill for recycle in the milling process. MPMC had milled approximately 65 million tonnes June 2010. The mine throughput is approximately 20,000 tpd. An overall site plan of the Mount Polley Mine is shown on Drawing 100. The general arrangement of the TSF is shown on Drawing 102.

1.2 SCOPE OF THE REPORT

This report documents the Stage 6b construction program for the TSF, which involved raising the crest of the TSF embankments to an elevation of 958 m, an increase of 4 m from the previous Stage 6a elevation of 954 m. The report includes a discussion of the construction methods used to complete the work, the results of quality assurance tests, and a review of the instrumentation monitoring results. The report also includes a set of "As-Built" drawings corresponding to the Stage 6b construction program.

SECTION 2.0 - STAGE 6B CONSTRUCTION REPORT

2.1 GENERAL

The TSF at Mount Polley TSF includes the Main, Perimeter and South Embankments. The Stage 6b construction program involved raising the TSF embankments to an elevation of 958 m, an increase in 4 m from the Stage 6a crest elevation of 954 m. The heights of the TSF embankments corresponding to a crest elevation of 958 m are approximately 45 m, 27 m, and 17 m for the Main, Perimeter and South Embankments, respectively. The design of the TSF staged raise to elevation 958 m is described in the Knight Piésold Ltd. report "Stage 6 Design of the Tailings Storage Facility" June 2007 (VA101-18-1). The TSF Stage 6b as-built plan, material specifications, and sections for the Main, Perimeter, and South Embankments are shown on the following drawings:

- VA101-1/26-210 Rev 1: Stage 6b Main Embankment – Plan
- VA101-1/26-215 Rev 1: Stage 6b Main Embankment – Section
- VA101-1/26-216 Rev 1: Stage 6b Main Embankment – Detail
- VA101-1/26-220 Rev 1: Stage 6b Perimeter Embankment – Plan
- VA101-1/26-225 Rev 1: Stage 6b Perimeter Embankment – Section
- VA101-1/26-226 Rev 1: Stage 6b Perimeter Embankment – Detail
- VA101-1/26-230 Rev 1: Stage 6b South Embankment – Plan, and
- VA101-1/26-235 Rev 1: Stage 6b South Embankment – Section 1.

The Stage 6b construction program began in October 2009 and was completed in August 2010. Select photographs of the construction program are included in Appendix E. Zones S and F were raised to an elevation of 958 m along the entire length of the dam. The elevation of Zones T, U and C vary from 957.3 m to 958.5 m along the embankment.

2.2 TAILINGS STORAGE FACILITY COMPONENTS

The TSF consists of the following main components:

- The TSF embankments, which incorporate the following zones and materials:
 - Zone U: Upstream shell zone – produced from coarse tailings in sand cells, or from rockfill.
 - Zone S: Core zone – fine grained low permeability glacial till to 958 m.
 - Zone F: Filter, drainage zones, and chimney drain – processed sand and gravel. The Zone F material has a filter relationship with the Zone S material.
 - Zone T: Transition filter zone – select well-graded fine-grained rockfill. The Zone T material has a filter relationship with the Zone F material.
 - Zone C: Downstream shell zone – rockfill.
 - Zone CBL: Coarse Bearing Layer – rockfill.
 - Zone FT: Filter layer above the downstream foundation materials (till) – sand from local borrow area.
- A low permeability basin liner (natural and constructed), which covers the base of the entire facility, at a nominal thickness of at least 2 m. The low permeability basin liner has proven to be effective in minimizing seepage from the TSF as there have been no indications of adverse water quality from the

TSF reporting to the groundwater monitoring wells (refer to the MPMC Annual Reclamation Report for details).

- Embankment drainage provisions, which include foundation drains, upstream toe drains, and chimney, longitudinal and outlet drains. The embankment drains have been incorporated into the design of the TSF to facilitate drainage of the tailings mass, dewater the foundation soils, and to control the phreatic surface within the embankments.
- Seepage collection ponds located downstream of the Embankments. These ponds were excavated in low permeability soils and temporarily store water collected from the embankment drains and from local runoff.
- Instrumentation in the tailings, earthfill embankments, embankment foundations, and drains. This includes vibrating wire piezometers and slope inclinometers.
- A system of groundwater quality monitoring wells installed around the TSF.

2.3 QUALITY ASSURANCE/QUALITY CONTROL

Knight Piésold provided the Stage 6b design for the Tailings Embankments, prepared the Technical Specifications, provided technical assistance, and performed Quality Assurance/Quality Control (QA/QC) testing during the construction program. Key items addressed by Knight Piésold included:

- Foundation inspection and approval prior to fill placement
- Assessment of borrow material suitability
- Inspection of fill placement procedures
- In-situ testing of placed and compacted fill for moisture content and density
- Collection and testing of Control and Record samples, and
- Instrumentation monitoring.

Knight Piésold worked under the overall management and administration of MPMC. Lake Excavating Ltd. and MPMC completed the construction work at the TSF. The QA/QC procedures followed by Knight Piésold were similar to previous construction programs at the TSF. Control and Record samples were collected for laboratory testing during the construction program. The Control tests were carried out on materials collected from the borrow areas or from source locations to determine their suitability for use in the construction. Record tests were performed on materials after placement and compaction to document the level of workmanship achieved and to ensure that the design objectives were met. The Control and Record laboratory test results are presented in Appendix A.

2.4 STAGE 6B EARTHWORKS

2.4.1 General

Earthworks for the Stage 6b Tailings Storage Facility construction program comprised the following zones:

- Zone U – Upstream shell zone
- Zone S – Core zone
- Zone F – Filter zone
- Zone T – Transition filter zone, and

- Zone C – Downstream shell zone.

The fill materials are discussed in the following sections, and the material specifications are shown on Drawing 104.

2.4.2 Zone U

Zone U forms the upstream shell zone immediately adjacent to the Zone S core zone and provides the upstream support of the Zone S material required for modified centerline construction. Zone U was constructed using mine waste rockfill from the Springer, Southeast and Pond Zone pits, and up to 1 meter lifts of low sulphur waste rockfill from the Pond Zone pit. Sand cells were also used for Zone U construction. The sand cell construction process involved discharging tailings into cells constructed upstream of the embankment. The cells contained confining berms that had discharge culverts installed to allow for the water and the fine materials to exit the cells and flow into the TSF. The coarse tailings sand that settled out into the cells was constantly worked with a specialized dozer to distribute the tailings within the cells, to compact the sand, and to expedite the drainage of excess water through the culverts. A photograph is included in Appendix E showing the construction of a sand cell in the earlier phases of Stage 6b. Sand cell construction was suspended for the remainder of Stage 6b in May 2010, to facilitate Zone S construction whilst utilizing economical haulage of mine waste rockfill from the nearby Pond Zone pit.

2.4.3 Zone S

The Zone S material, which is used for the core zone for the TSF Embankments, is comprised of a locally borrowed, low permeability glacial till. The Zone S material for the Stage 6b construction program was sourced from the Perimeter Embankment borrow pit, located downstream of the Perimeter Embankment. The location of the borrow areas are shown on Drawings 102 and 220. The Control test results for the Zone S material are presented in Appendix A1 and summarized on Table 2.1. The results of the Control test particle size analyses on the Zone S material are shown on Figure 2.1.

The Zone S material was placed in maximum 300 mm thick horizontal lifts and compacted with a 10-tonne vibratory smooth drum. The compaction specification was 95 percent of the Standard Proctor Maximum Dry Density. Each lift of Zone S was tested and approved prior to the placement of the subsequent lift. Areas that failed to meet the compaction requirements were re-compacted until the minimum compaction requirements were met. Material that did not meet the compaction requirements was removed from the embankment by pushing the unsuitable material upstream of the crest onto the tailings beach with a dozer.

Record tests on the compacted Zone S fill included the following:

- Moisture Content (ASTM D2216)
- Particle Size Distribution (ASTM D422)
- Laboratory Compaction (ASTM D698)
- Atterberg Limits (ASTM D4318)
- Field Density by Nuclear Methods (ASTM D2922), and

- Field Moisture Content by Nuclear Methods (ASTM D3017).

A total of twelve Zone S Record samples were collected and tested during the Stage 6b construction program. The Record test results indicate that the Zone S material is typically comprised of well graded gravelly sandy silt with some clay. The Record test results for the Zone S material are presented in Appendix A2 and summarized in Table 2.2. The gradation curves of the Zone S Record tests are shown on Figure 2.2. The moisture content of the Record Samples ranged from 8.0 to 14.1 percent, with an average of 10.1 percent. The Standard Proctor Maximum Dry Density ranged from 2,030 to 2,190 kg/m³, with an average of 2,117 kg/m³. The plastic limits ranged from 12.9 to 16.5 percent, with an average of 14.8 percent. The liquid limits ranged from 19.3 to 21.8 percent, with an average of 20.4 percent. The plasticity index ranged from 3.4 to 7.8 percent, with an average of 5.5 percent. The Zone S Record test results indicate that the Zone S material was within the specified limits for the material and was also consistent with the Zone S materials used in all previous construction programs.

A total of 765 field density and moisture content tests were performed on the Zone S material using a nuclear densometer to assess the compacted density and moisture content. Tests that were repeated due to low compaction were not included in the total number. Several results yielded unreasonably high densities (between 2,426 and 2,671 kg/m³) which were most likely due to a temporary gauge malfunction. A criterion of 10% greater than the median density of the total test number was applied. Ten tests (that fell between test numbers 82 and 107) were subsequently removed from the data set, giving a modified data set of 755 field density and moisture tests.

The compacted dry density of the modified data set ranged from 1971 to 2,321 kg/m³, with a median of 2,114 kg/m³. The compacted moisture content ranged from 2.7 to 20.2%, with a median of 9.0%. The relative compaction, as compared to the average Standard Proctor Maximum Dry Density from the Control Record testwork, ranged from 94.8 to 111.6%, with an average of 101.6%. The compacted dry density results are shown on Figure 2.3, with the percent compaction results shown on Figure 2.4. The compacted moisture content results are shown on Figure 2.5, with the deviation from the average Standard Proctor Optimum Moisture Content results from the Control and Record testwork shown on Figure 2.6. The nuclear densometer results are presented in Appendix B.

2.4.4 Zone F

The Zone F material forms the filter zone immediately downstream of the Zone S core zone on all of the Embankments. The material used in Zone F was mine waste rock that was processed at the mill site using the primary crusher. The material used for Zone F was sourced from the Springer, Southeast Zone and the Pond Zone pits.

Zone F material was placed in maximum 600 mm thick lifts and was compacted with a ten tonne vibrating smooth drum.

Control and Record samples were collected and tested for Particle Size Analyses. A total of 19 control and 38 record tests were performed on Zone F samples during the Stage 6b

construction program. The results of the Control and Record tests are shown in Figures 2.7 and 2.8 respectively. The Zone F material is typically comprised of sand and fine gravel, with trace (<10%) fines. A total of 4 of the 38 Record samples and 4 of the 19 Control samples were slightly coarser than specified for this material. This was not unexpected as the Zone F material is very sensitive to sampling method. Test results indicating that a small fraction of the material is slightly coarser than the specified limit have also been observed in previous construction programs where additional samples collected from stockpiles that appeared to be slightly coarse based on initial testing were found to be within the specified limits after further sampling and testwork was completed.

2.4.5 Zone T

Zone T is a transition zone immediately downstream of Zone F. The material used in Zone T was select rock fill from the Springer, Southeast Zone and Pond Zone Pits. Plus six-inch material was selectively removed prior to placement in the embankment. Zone T was placed in maximum 600 mm thick lifts and compacted with a ten tonne vibrating smooth drum roller.

A total of 16 Record Particle Size Analyses were performed during Stage 6b, and the results of these tests are shown in Figure 2.9. The Zone T material is typically comprised of gravel, with some sand and cobbles and trace (<10%) fines. All of the Zone T record test results fell inside the specified limits.

2.4.6 Zone C

Zone C forms the downstream shell zone of the embankments and is immediately downstream of Zone T. The Zone C material provides structural stability for the embankments as well as a large, trafficable surface for haul trucks to drive upon. It was comprised of coarse rock from Springer, Southeast Zone and Pond Zone Pits. Zone C was placed in maximum 2 m thick lifts and compacted with selective routing of the various trucks and construction equipment. No Particle Size Analyses were performed on Zone C material. The outer slope of Zone C at the end of Stage 6b varied for each embankment; the average Zone C downstream slope is 1.4H:1V. Drawings 216 and 215 show that on both the Main and South Embankments the Zone C was overbuilt during the Stage 6a construction program. This will need to be monitored during future construction programs.

The Zone C material was used to partially construct the downstream buttress on the Main Embankment. The Main Embankment buttress was not constructed to the design grades and extent during the Stage 6b construction program. It is recommended the stability of the Main Embankment be reviewed in the next stage design.

2.5 INSTRUMENTATION AND MONITORING

2.5.1 Vibrating Wire Piezometers

2.5.1.1 General

Vibrating wire piezometers have been installed at the TSF along nine planes, designated as monitoring planes A to I. Monitoring planes A, B, C and E are located at the Main Embankment, monitoring planes D, G, and H are located at the Perimeter Embankment, and monitoring planes F and I are located at the South Embankment. A plan view of the piezometer planes is shown on Drawing 255, and they are shown in section on Drawings 256, 257, 258, and 259. The piezometers are grouped into tailings, foundation, fill and drain piezometers. The piezometers were read on a weekly basis during periods of construction, as defined in the Operation, Maintenance and Surveillance Manual. The results from each piezometer group are discussed below. The timeline plots for the piezometers are presented in Appendix C.

There are currently two gaps in the piezometer data. The first gap, which was from July 30, 2003 to September 2, 2004, was during the Care and Maintenance Period. This data was collected by MPMC but was accidentally misplaced. The second gap occurred from September 22, 2005 to April 30, 2006 and was due to a malfunctioning readout box connector cable.

An instrumentation installation program has been proposed to replace malfunctioning or damaged piezometers. This program is overdue and should be carried out prior to further embankment raises.

2.5.1.2 Tailings Piezometers

There are currently 10 functioning tailings piezometers. The tailings piezometers are typically installed close to the embankments and the pore pressures are sensitive to the location of the tailings pond in relation to the embankments. The pore pressures observed in the tailings piezometers at the Main Embankment have shown slight fluctuations during the Stage 6b construction program in response to the development of the tailings beach and the subsequent re-location of the tailings pond away from the embankment. Timeline plots of the tailings piezometer data are included in Appendix C1.

2.5.1.3 Embankment Foundation Piezometers

There are currently 8 functioning embankment foundation piezometers. Artesian conditions are present in 3 of the 7 foundation piezometers installed under the Main Embankment. Artesian conditions have previously been identified in the foundation of the Main Embankment and the piezometers installed in this area are used to confirm that pore pressures remain below the design threshold level of 6 metres above ground level (KP Ref. No. 1162/7-2). The functional foundation piezometers have not shown unexpected high pore pressures during the Stage 6b construction program. The

observed artesian pressures ranging from surface to 2.17 m above ground. The artesian head values (above ground surface level) measured in August 2010 are shown on Table 2.3.

Timeline plots of the embankment foundation piezometers are included in Appendix C2. There are currently no concerns with the pore pressures observed in the functional embankment foundation piezometers. However, several of the Main Embankment piezometers have malfunctioned. As a result there are no functioning piezometers located in the Plane A foundation and it is recommended that this be rectified in the instrument replacement program.

2.5.1.4 Embankment Fill Piezometers

There are currently 23 functioning embankment fill piezometers. There have been no significant changes in the trends of the embankment fill piezometers. Piezometer A2-PE2-03, which is located in the Main Embankment, showed a slight increase in pore pressures corresponding to fill placement during the Stage 6a construction program. The recent data taken during the Stage 6b construction program indicate a slight reduction in pore pressure (from Stage 6a), followed by moderate upward trend. The current moderate upward trend corresponds with additional fill placement during the Stage 6b program. This trend has been observed in the past with this piezometer and it is anticipated that the slightly elevated pore pressures will dissipate following the construction programs as they have previously.

Timeline plots of the embankment fill piezometer data are included in Appendix C3. There are no concerns with the embankment fill piezometers.

2.5.1.5 Drain Piezometers

There are currently 15 functioning drain piezometers. The drain piezometers are installed in the foundation drains, chimney drain, upstream toe drains, and outlet drains.

The majority of the drain piezometers showed near-zero pore pressures, indicating that the drains are functioning as intended. Piezometer A1-PE1-04 showed elevated pore pressures starting in approximately June 2006. This piezometer is located in the upstream toe drain at the Main Embankment and the increased pressures are a result of the tailings pond being in close proximity to the Main Embankment. The elevated trend of the pore pressures coincides with the increased flow rates measured from the Main Embankment upstream toe drain. The pore pressures in piezometer A1-PE1-04 are expected to dissipate once the tailings beach has been established in this area and the pond is located away from the embankment.

Timeline plots for the drain piezometers are shown in Appendix C4. There are no concerns with the embankment drain piezometers.

2.5.2 Slope Inclinometers

A total of five slope inclinometers have been installed at the Main Embankment to measure potential displacements in the lacustrine unit that underlies the embankment. One of the inclinometers (SI01-01) was damaged during the placement of the Zone C shell material and is no longer functioning. The last reading for SI01-01 was March 2006. No new inclinometers were installed during the Stage 6b construction program. An instrumentation replacement program to install additional inclinometers in the Main Embankment has been recommended.

The results of the inclinometer readings indicate that there have not been any significant deviations measured in the three of the inclinometers since their installation. However, inclinometer SI01-02 is showing slight deviations (less than 3 mm) at an approximate depth of 10 m below ground in the lacustrine silts. MPMC has partially completed the expansion of the buttress at the Main Embankment. The expansion of the buttress appears to have been effective, as no additional displacements have been measured in inclinometer SI01-02. It is recommended that this area have additional instrumentation installed, and reviewed during the next raise design. The data for slope inclinometers are included in Appendix B.

2.5.3 Survey Monument Data

There are currently no survey monuments installed on the TSF embankment crests due to the ongoing construction of the TSF embankments.

2.5.4 Drain Flow Data

The upstream toe drain and foundation drains at the Main Embankment flow into the sump at the Main Embankment Seepage Collection Pond where the flows are measured. The flow rates have been measured since July 2000. The flow rates from the drains were not monitored during the Care and Maintenance Period as the drain outlets were submerged within the sump. Monitoring the seepage flow into the Main Embankment Seepage Collection Pond requires the seepage pond level to be pumped down.

The upstream toe drain at the Perimeter Embankment drains into the Perimeter Embankment Seepage Collection Pond via a ditch. The flow rates are currently measured at the end of the pipe which exits the concrete encasement. Water from the upstream toe drains and foundation drains flows into the seepage collection ponds where it is temporarily stored prior to being pumped back into the TSF.

The seepage flows are not available for 2010. It is recommended that the seepage flows be monitored at the frequency recommended in the OMS manual. The historic flow rates for the upstream toe drains are shown on Figure 2.10. The flows from the upstream toe drains fluctuate throughout the year in response to the tailings deposition location and the tailings pond location. The historic flow rates for the foundation drains are shown on Figure 2.11.

2.6 DESIGN MODIFICATIONS

Knight Piésold Ltd. employs a formal procedure for making design modifications (changes or substitutions) in the field. All design change requests are submitted in writing by the Resident Engineer to the Knight Piésold Ltd. Vancouver Office for review and evaluation. Design modifications are included in Appendix F.

Design change request 2010-001

The embankment design was amended to allow sand cell construction between Ch. 1+000 and 1+550 on the South Embankment.

Design change request 2010-002

The embankment design was amended to allow waste rock to be used for Zone U, provided there is a sufficient crest width for haul traffic, and waste rock is placed in maximum 2 m lifts compacted by haul traffic. Particles larger than 75mm (3") were also required to be removed from the Zone U/Zone S interface.

2.7 WATER MANAGEMENT

The TSF is required to have sufficient live storage capacity for containment of storm water runoff from the 72-hour PMP volume of approximately 1,100,000 m³ at all times. The 72-hour PMP allowance is in addition to regular inflows from other precipitation runoff, including the spring freshet. The runoff from the waste dumps is currently being routed to the Perimeter Embankment Seepage Collection Pond via a ditch constructed in 2008. Water from the Perimeter Embankment Seepage Collection Pond is then pumped to the TSF. The total freeboard requirement for the TSF is approximately 1.4 m. The tailings pond elevation is monitored on a regular basis to ensure that the stormwater and freeboard requirements are not infringed upon during operations.

SECTION 3.0 - SUMMARY AND RECOMMENDATIONS

Stage 6b of the Mount Polley Mine Tailings Storage Facility was constructed between November 2009 and August 2010. The Stage 6b construction program involved raising the TSF embankments to an elevation of 958 m, a 4 m increase in elevation from the Stage 6a crest of 954 m.

The Stage 6b construction program involved placing the following materials in the TSF Embankments.

- Zone U: Upstream shell zone – produced from coarse tailings in sand cells, or from rockfill
- Zone S: Core zone - fine grained glacial till
- Zone F: Filter, drainage zones, and chimney drain - processed sand and gravel
- Zone T: Transition filter zone - select well-graded fine-grained rockfill, and
- Zone C: Downstream shell zone – rockfill.

Technical supervision of the work by Knight Piésold included QA/QC testing and monitoring the existing vibrating wire piezometers and inclinometers. The QA/QC component involved collecting and testing Record and Control samples for Zones S, F and T. The in-situ density testing of compacted Zone S fill materials was completed using a nuclear densometer. The Zone F and T materials were compacted by a minimum number of passes by compaction equipment. The results of the QA/QC testwork indicate that the construction fill materials were placed and compacted within the required material specifications and were in accordance with the Stage 6b design of the TSF.

No additional vibrating wire piezometers were installed during the Stage 6b construction program. In total there are 56 operating piezometers in the TSF. The piezometers were measured on a weekly basis during the Stage 6b construction program. The inclinometers were measured at least twice a month using a Slope Indicator inclinometer probe. The results of the instrumentation monitoring show no unexpected or anomalous pore pressures were observed during the Stage 6b construction program. The slope inclinometer monitoring show no significant displacements measured during the construction program. The deformation of inclinometer SI01-02 at an approximate depth of 10 m below ground in the lacustrine silts was closely monitored. This inclinometer has not shown any further significant deviations during the Stage 6b construction.

It is recommended that the instrumentation replacement program (KP letter VA10-1175) be completed. This program will replace instrumentation that has been damaged or failed over time. The program will increase understanding of the behavior and performance of the foundation soils under the dam.

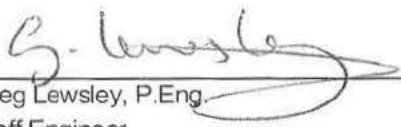
The Zone C material in the embankments were placed at a relatively steep grade of 1.4H:1V. The buttress of Zone C material at the Main embankment has not been completely constructed as designed. It is recommended that a review of the stability is completed during the design of further embankment raises.

Regular measurement of drain flows is required as part of the Operations, Maintenance and Surveillance (OMS) Manual. At present, it is operationally complex to monitor drainage flows from the dam. It is recommended to simplify this process in order to improve the frequency of flow measurements in accordance with the OMS Manual.


SECTION 4.0 - CERTIFICATION

This report was prepared, reviewed and approved by the undersigned.


Prepared:


Greg Lewsley, P.Eng.
Staff Engineer

Reviewed:


Greg Johnston, M.Sc.
Project Manager

Approved:


Ken Brouwer, P.Eng.
Managing Director



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TABLE 2.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

STAGE 6B CONSTRUCTION PROGRAM
ZONE S CONTROL SAMPLES - SUMMARY

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Sample ID	Atterberg Limits			MC	Particle Size Distribution (%Passing)				Standard Proctor				MC
	LL (%)	PL (%)	PI (%)	M.C. (%)	Gravel	Sand	Silt	Clay	Uncorrected Max. D.D. (kg/m3)	Opt. M.C (%)	Corrected Max. D.D. (kg/m3)	Opt. M.C (%)	Deviation from Op imum (%)
					>#4	#4 to #200	#200 to 0.002	< 0 002					
					(%)	(%)	(%)	(%)					
C-S6b-ZS-01-2010	-	-	-	20.5	0	19	77	4	2000	10.5	-	-	-
C-S6b-ZS-02-2010	20.0	14.0	6.0	12.9	22	29	41	9	2050	10.5	2140	9.0	3.9
C-S6b-ZS-03-2010	18.5	16.3	2.2	9.3	25	31	37	8	2020	9.0	2120	7.5	1.8
C-S6b-ZS-04-2010	19.8	13.8	6.0	12.7	10	32	46	13	2000	11.0	2040	10.5	2.2
C-S6b-ZS-05-2010	22.3	14.7	7.6	12.7	23	28	35	14	2020	11.5	2120	9.5	3.2
MEAN	20.2	14.7	5.5	13.6	16	28	47	9	2018	10.5	2105	9.1	2.8
MAXIMUM	22 3	16.3	7.6	20.5	25	32	77	14	2050	11.5	2140	10.5	3.9
MINIMUM	18 5	13.8	2.2	9.3	0	19	35	4	2000	9.0	2040	7.5	1.8

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TABLE 2.2

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

**STAGE 6B CONSTRUCTION PROGRAM
ZONE S RECORD SAMPLES - SUMMARY**

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Sample ID	Atterberg Limits			MC	Particle Size Distribution (%Passing)				Standard Proctor				MC
	LL	PL	PI	M.C.	Gravel	Sand	Silt	Clay	Uncorrected	Opt.	Corrected	Opt.	Deviation from
	(%)	(%)	(%)	(%)	>#4	#4 to #200	#200 to 0.002	< 0.002	Max. D.D.	M.C	Max. D.D.	M.C	Optimum
					(%)	(%)	(%)	(%)	(kg/m3)	(%)	(kg/m3)	(%)	(%)
R-S6b-ZS-01-2010	-	-	-	14.1	24	27	26	24	1940	13.0	2030	11.0	3.1
R-S6b-ZS-02-2010	19.5	14.9	4.6	9.0	28	33	38	1	2070	9.0	2190	7 0	2.0
R-S6b-ZS-2(b)-2010	-	-	-	9.0	25	33	39	3	2080	9.5	2170	8 0	1.0
R-S6b-ZS-04-2010	-	-	-	10.6	21	30	37	13	2050	10.5	2130	9 0	1.6
R-S6b-ZS-05-2010	21.7	14.8	6.9	9.9	27	32	31	11	2020	11.0	2140	8 5	1.4
R-S6b-ZS-06-2010	21.8	14.0	7.8	11.3	31	27	35	8	1990	10.0	2120	8 0	3.3
R-S6b-ZS-07-2010	19.3	15.9	3.4	13.1	19	29	43	9	2000	11.5	2080	10 0	3.1
R-S6b-ZS-08-2010	20.7	15.5	5.2	9.5	23	25	38	14	1990	12.0	2080	10 0	-0.5
R-S6b-ZS-09-2010	19.3	12.9	6.4	8.4	25	24	39	12	2040	11.0	2140	9 0	-0.6
R-S6b-ZS-10-2010	20.0	15.6	4.4	9.7	25	22	35	18	1960	12.0	2070	10.0	-0.3
R-S6b-ZS-11-2010	19.4	13.3	6.1	9.0	21	32	31	17	2000	12.0	2110	10.0	-1.0
R-S6b-ZS-12-2010	21.6	16.5	5.1	8.0	27	28	39	6	2030	11.0	2140	9 0	-1.0
MEAN	20.4	14.8	5.5	10.1	24.6	28.4	35.8	11 2	2014	11.0	2117	9.1	1.0
MAXIMUM	21.8	16.5	7.8	14.1	30.9	33.1	42.6	23.7	2080	13.0	2190	11.0	3.3
MINIMUM	19.3	12.9	3.4	8.0	19.1	22.0	26.3	0.9	1940	9.0	2030	7 0	-1.0

M:\1101\00001\29\A\Report\1 - Stage 6b Construction Report\Tables\TABLE 2.2 (ZS Record Samples Summary).xls\TABLE 2.2

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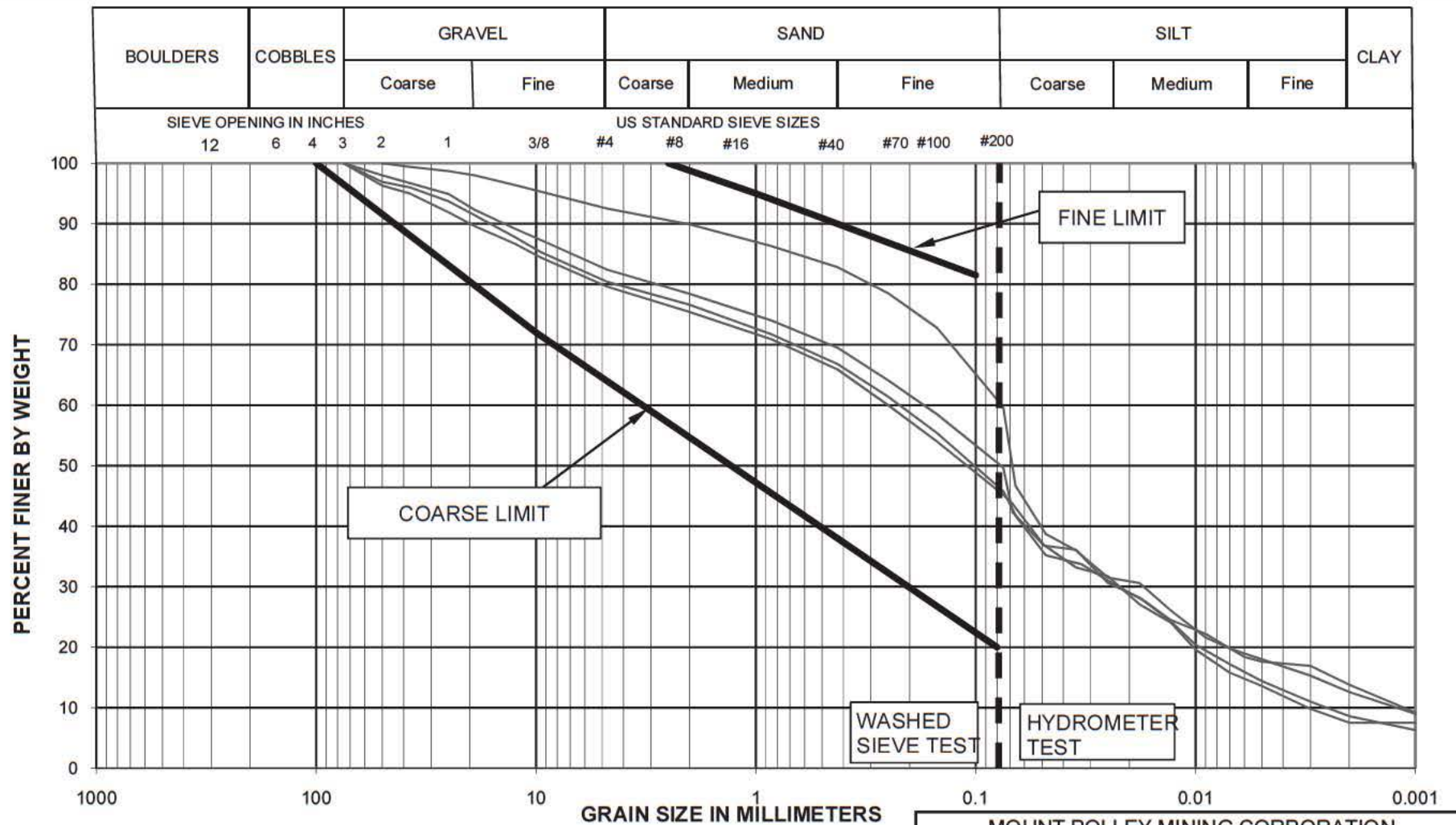
TABLE 2.3
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT
TAILINGS STORAGE FACILITY
EMBANKMENT FOUNDATION PIEZOMETERS

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Piezometer	Piezometer Elevation (m)	Surface Elevation (m)	August 2010 Pressure Elevation (m)	August 2010 Artesian Pressure (m)
A2-PE2-01	903.68	912.67	No Longer Functioning	-
A2-PE2-02	909.77	912.67	No Longer Functioning	-
A2-PE2-06	898.01	912.91	No Longer Functioning	-
A2-PE2-07	902.81	912.91	No Longer Functioning	-
A2-PE2-08	907.56	913.36	No Longer Functioning	-
B2-PE1-03	914.05	915.55	915.92	0.37
B2-PE2-01	901.98	916.98	No Longer Functioning	-
B2-PE2-02	909.51	916.98	919.15	2.17
B2-PE2-06	914.59	916.89	No Longer Functioning	-
C2-PE1-03	912.59	-	No Longer Functioning	-
C2-PE2-02	910.53	915.71	916.71	1.00
C2-PE2-06	906.84	915.99	914.74	-1.25
C2-PE2-07	912.29	915.99	No Longer Functioning	-
C2-PE2-08	914.03	915.99	914.77	-1.22
D2-PE2-02	927.32	930.92	930.89	-0.03
E2-PE2-01	914.21	918.81	917.27	-1.54
E2-PE2-02	909.66	918.81	916.74	-2.07

M:\1\01\00001\29\A\Report\1 - Stage 6b Construction Report\Tables\[TABLE 2.3 (Foundation Piezos).xls]Foundation piezos

0	14OCT'10	ISSUED WITH REPORT 101-1/29-1	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY STAGE 6B
 PARTICLE SIZE ANALYSIS
 ZONE S CONTROL SAMPLES

Knight Piésold
 CONSULTING

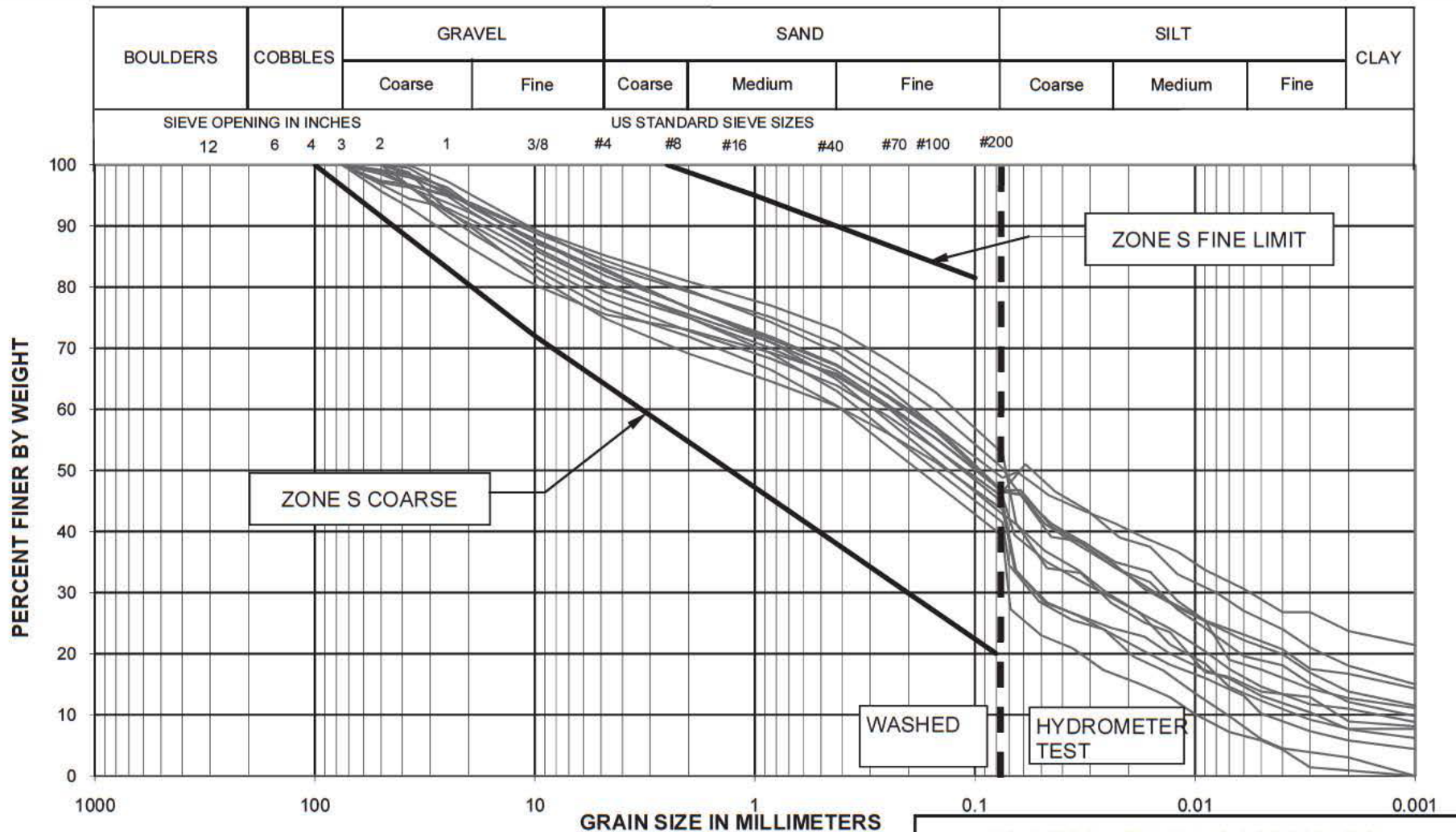
P/A NO.
 VA101-1/29

REF NO.
 1

FIGURE 2.1

REV
0

0	05OCT'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY STAGE 6B
PARTICLE SIZE ANALYSIS
ZONE S RECORD SAMPLES

Knight Piésold
CONSULTING

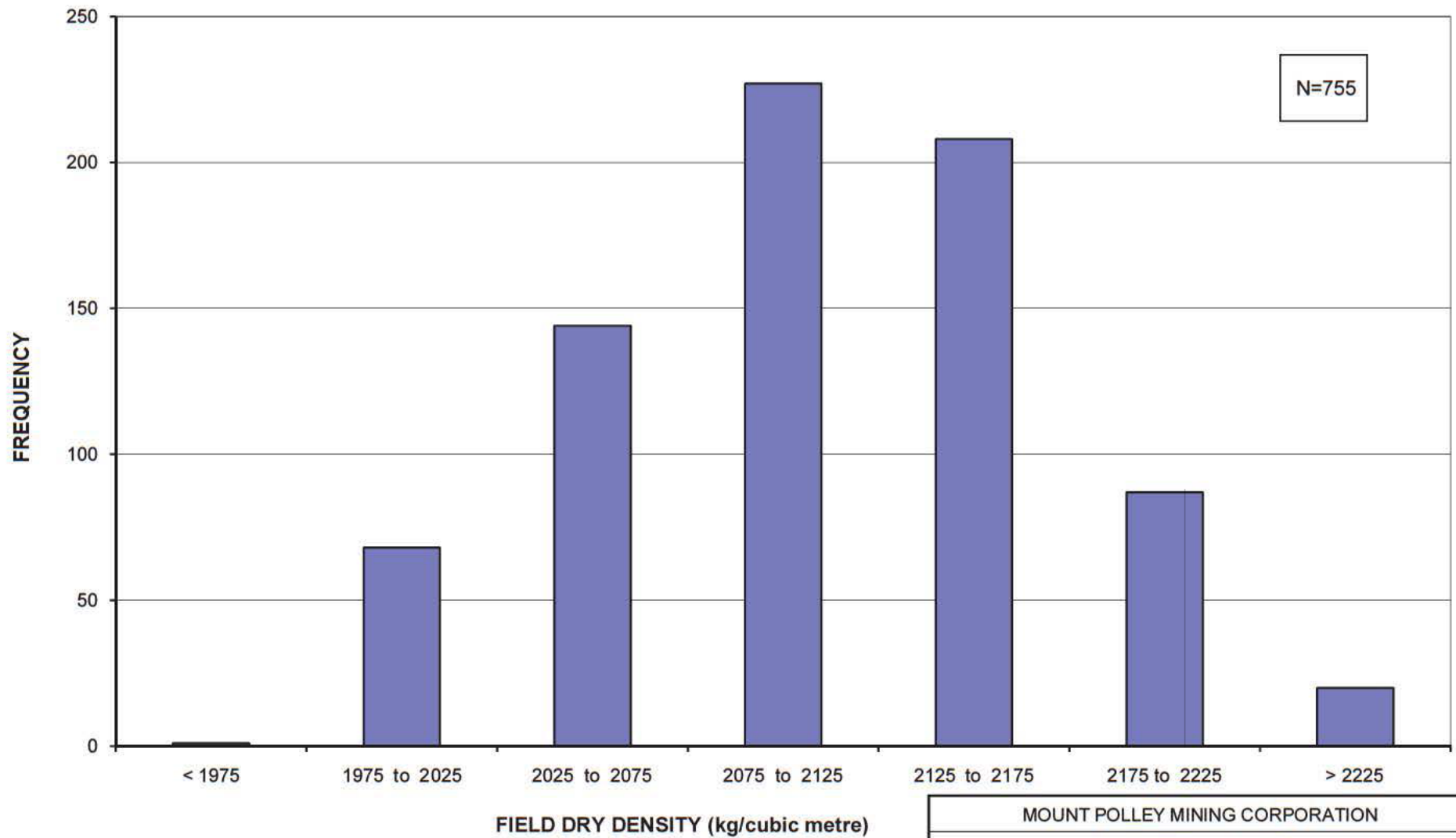
P/A NO.
VA101-1/29

REF NO.
1

FIGURE 2.2

REV
0

0	05OCT'10	ISSUED WITH REPORT	GL	GU	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

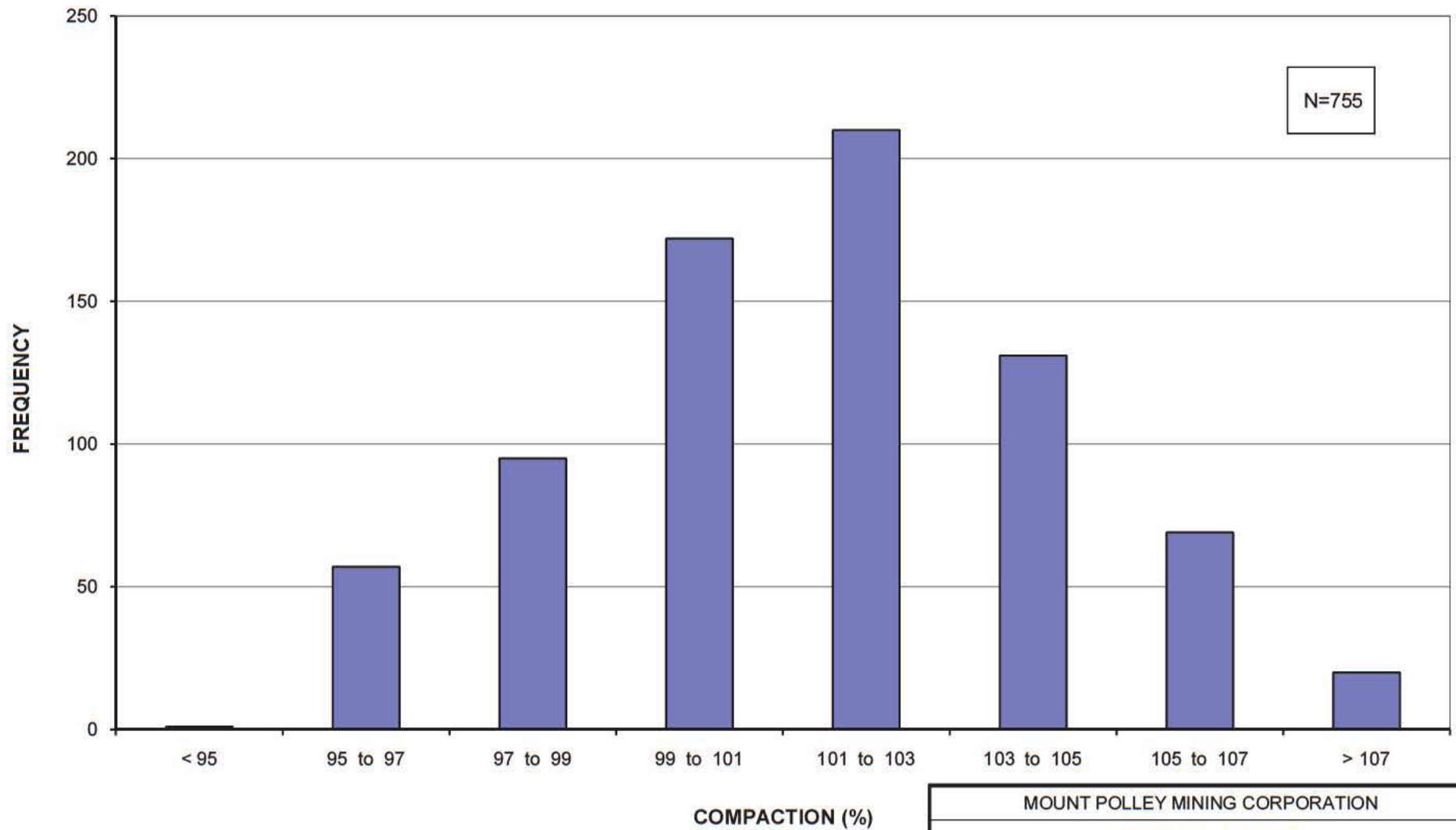
1. THE COMPACTED DRY DENSITY WAS MEASURED USING A NUCLEAR DENSOMETER.

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE S RECORD TESTS
FIELD DRY DENSITY***Knight Piésold***
CONSULTINGP/A NO.
VA101-1/29REF NO.
1**FIGURE 2.3**REV
0

0	15OCT10	ISSUED WITH REPORT	MS	GL	GIJ
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTES:**

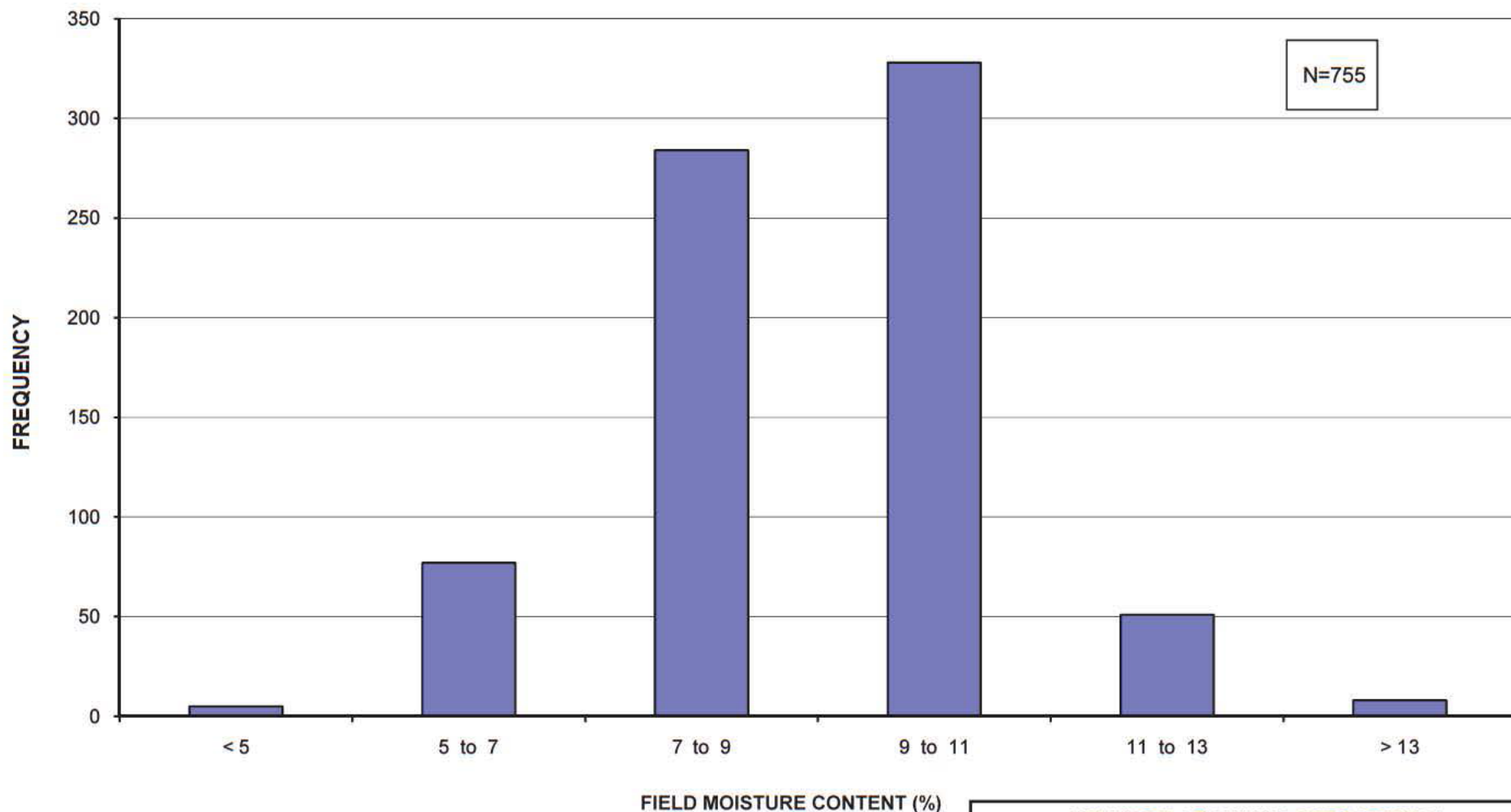
1. THE FIELD DENSITY WAS MEASURED USING A NUCLEAR DENSOMETER.
2. THE PERCENT COMPACTION WAS DETERMINED USING THE AVERAGE MAXIMUM DRY DENSITY RESULTS FROM THE CONTROL AND RECORD SAMPLE COMPACTION TESTWORK.

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

**ZONE S RECORD TESTS
PERCENT COMPACTION**
Knight Piésold
CONSULTING
P/A NO.
VA101-1/29REF NO.
1**FIGURE 2.4**REV
0

0	15OCT'10	ISSUED WITH REPORT	MS	GL	GIJ
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

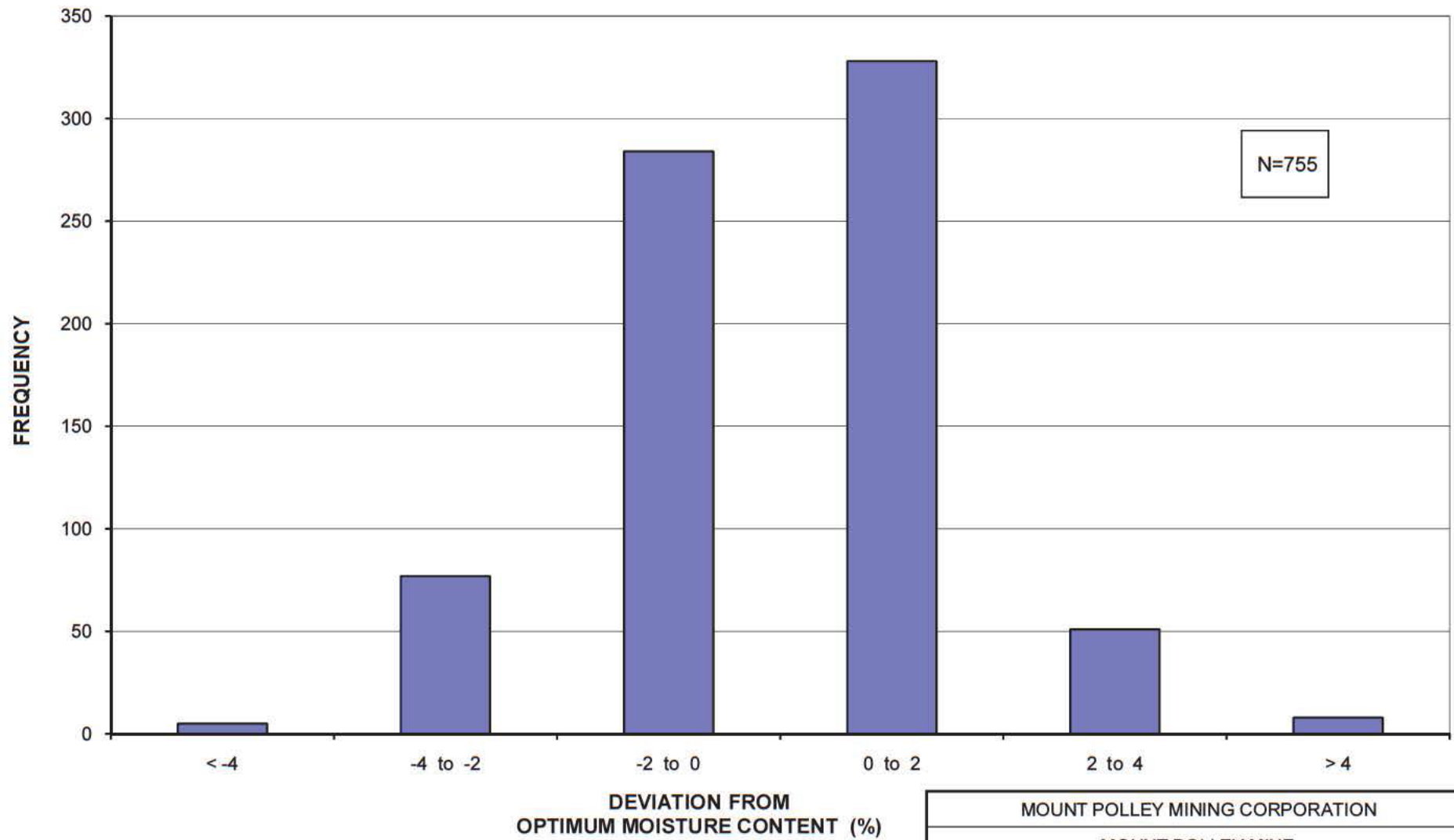
1. THE FIELD MOISTURE CONTENT WAS MEASURED USING A NUCLEAR DENSOMETER.

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE S RECORD TESTS
FIELD MOISTURE CONTENT***Knight Piésold***
CONSULTINGP/A NO.
VA101-1/29REFNO.
1**FIGURE 2.5**REV
0

0	15OCT'10	ISSUED WITH REPORT	MS	GL	GIJ
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTES:**

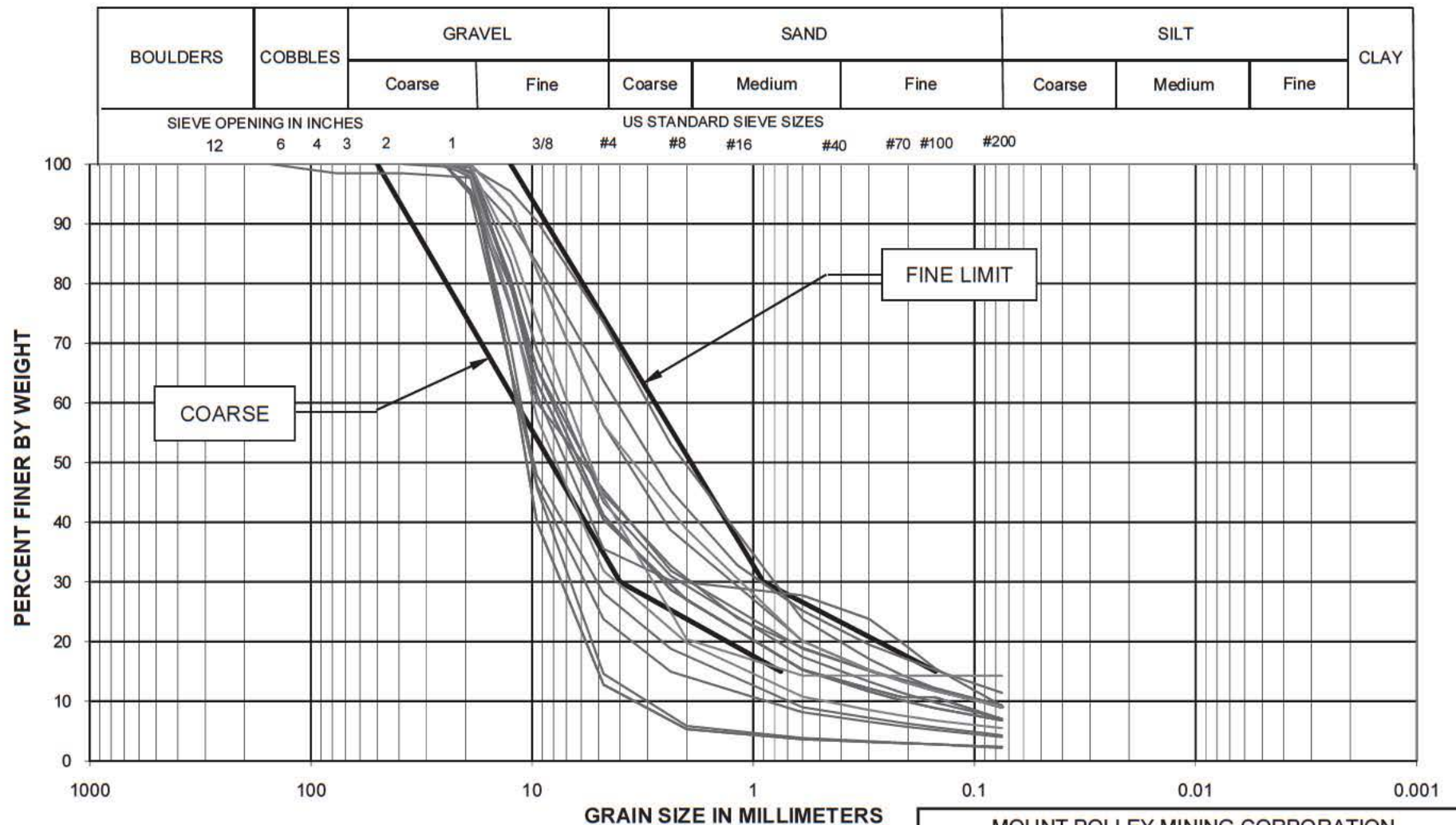
1. OPTIMUM MOISTURE CONTENT REFERS TO THE AVERAGE STANDARD PROCTOR OPTIMUM MOISTURE CONTENT FROM THE CONTROL AND RECORD TESTWORK.
2. THE COMPACTED MOISTURE CONTENT WAS MEASURED USING A NULEAR DENSOMETER.

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

**ZONE S RECORD TESTS
DEVIATION FROM OPTIMUM MOISTURE CONTENT**
Knight Piésold
CONSULTING
P/A NO.
VA101-1/29REF NO.
1**FIGURE 2.6**REV
0

0	15OCT'10	ISSUED WITH REPORT	MS	GL	GIJ
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY STAGE 6B
 PARTICLE SIZE ANALYSIS
 ZONE F CONTROL SAMPLES

Knight Piésold
 CONSULTING

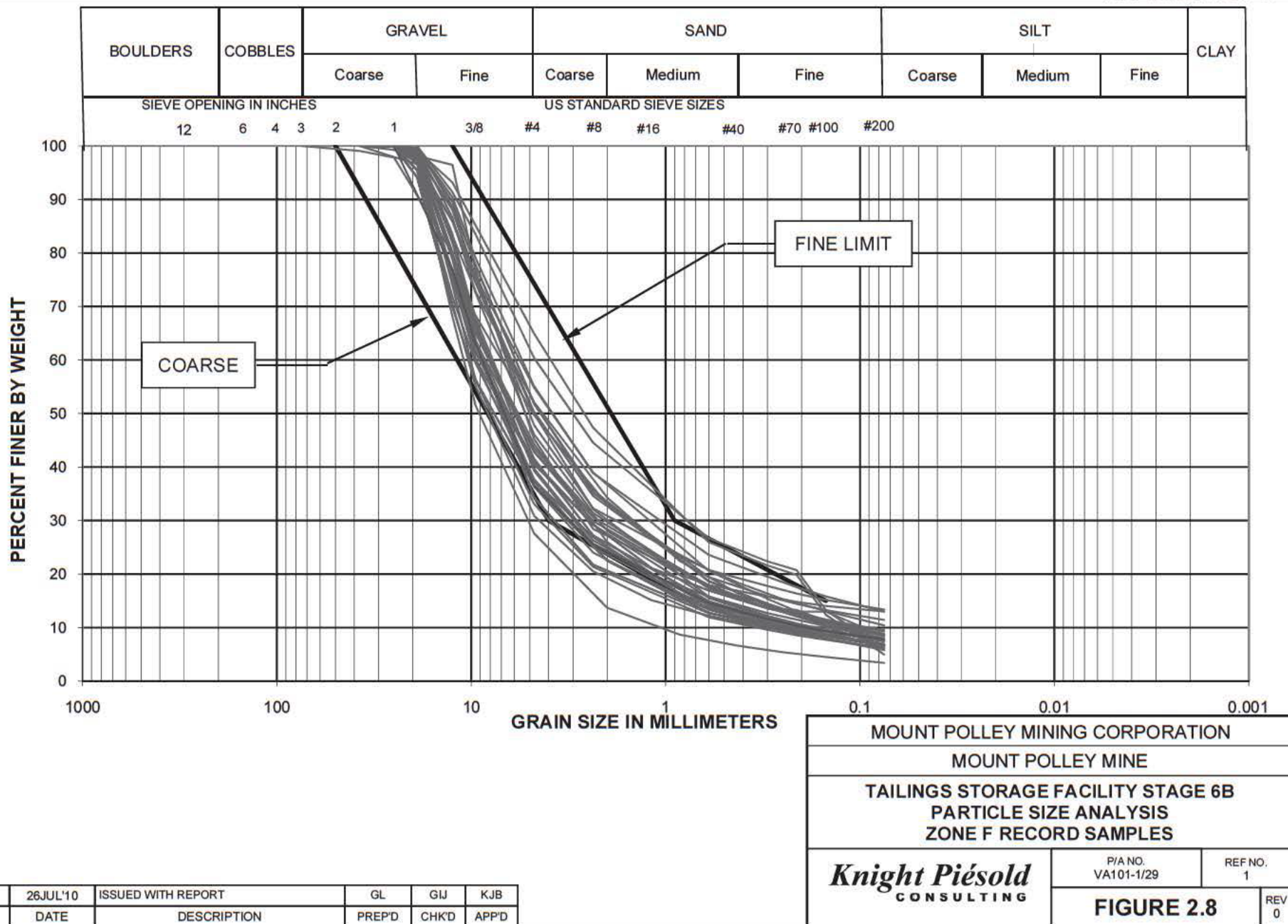
P/A NO.
 VA101-1/29

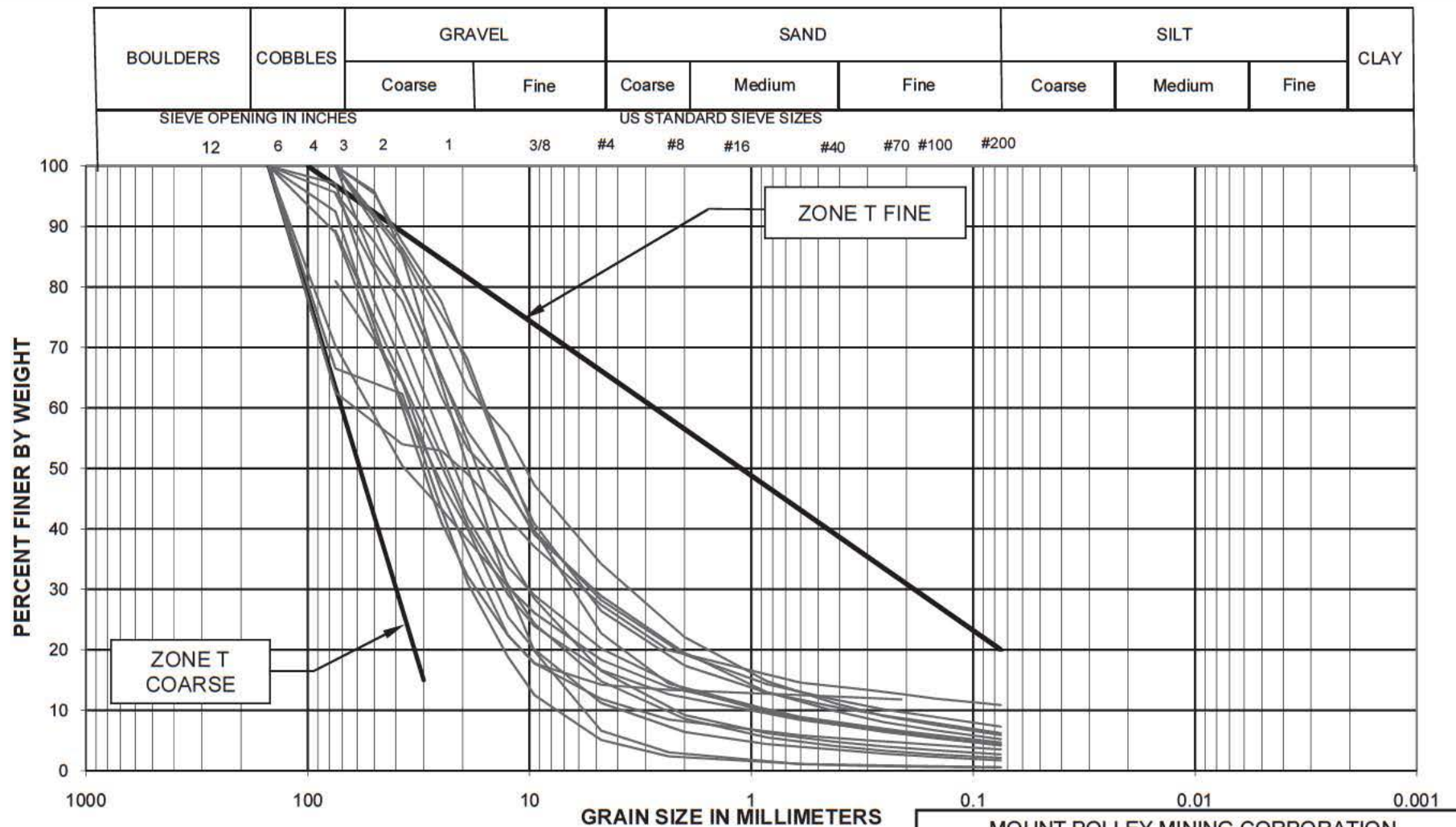
REF NO.
 1

FIGURE 2.7

REV
 0

0	08DEC'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D





MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY STAGE 6B
 PARTICLE SIZE ANALYSIS
 ZONE T RECORD SAMPLES

Knight Piésold
 CONSULTING

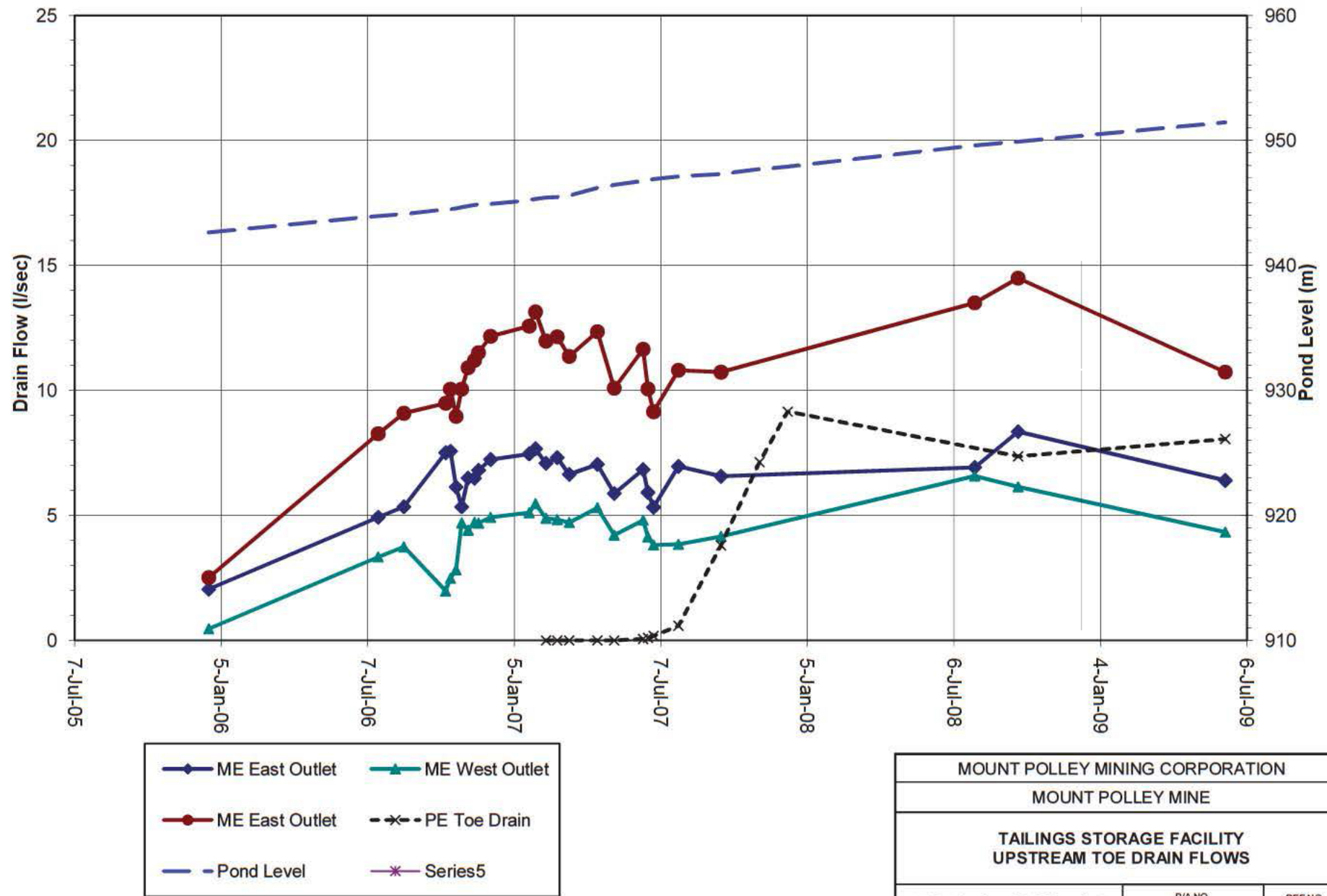
P/A NO.
 VA101-1/29

REF NO.
 1

FIGURE 2.9

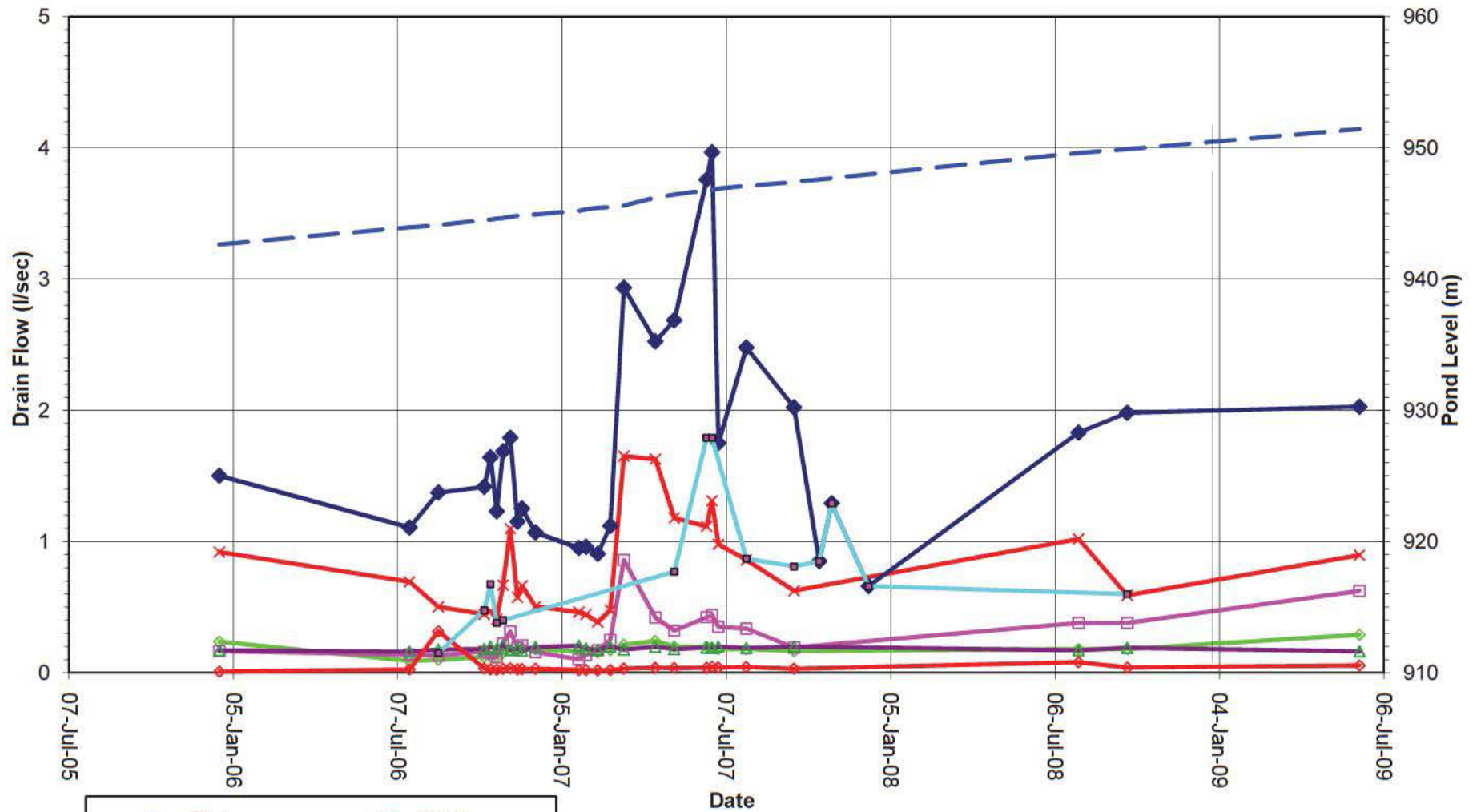
REV
 0

0	27JUL'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

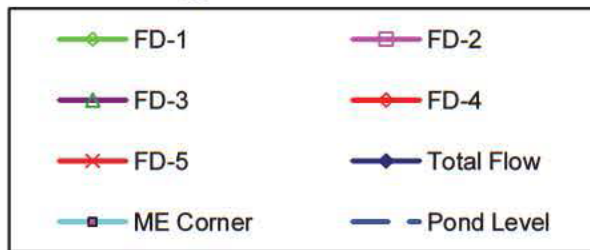


0	18DEC'09	ISSUED WITH REPORT	MACS	LJG	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY UPSTREAM TOE DRAIN FLOWS		
Knight Piésold CONSULTING	P/ANO VA101-1/29	REF NO. 1
	FIGURE 2.10	
		REV 0



INVESTIGATIONS KP 4-3 Page 256 of 500

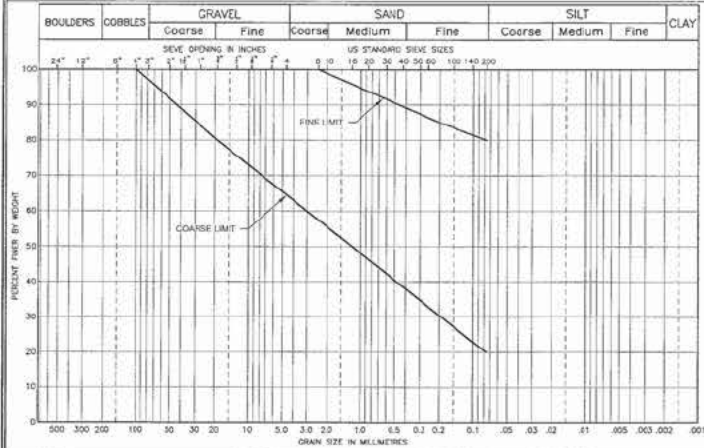


MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY MAIN EMBANKMENT FOUNDATION DRAIN FLOWS		
Knight Piésold CONSULTING	PIANO: VA101-1/29	REF NO: 1
	FIGURE 2.11	REV 0

0	18DEC'09	ISSUED WITH REPORT	MACS	LJG	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

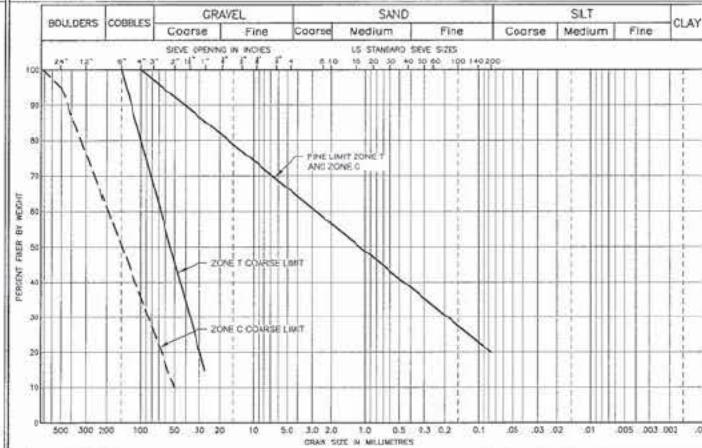
UNIFIED SOIL CLASSIFICATION SYSTEM

ZONE S



UNIFIED SOIL CLASSIFICATION SYSTEM

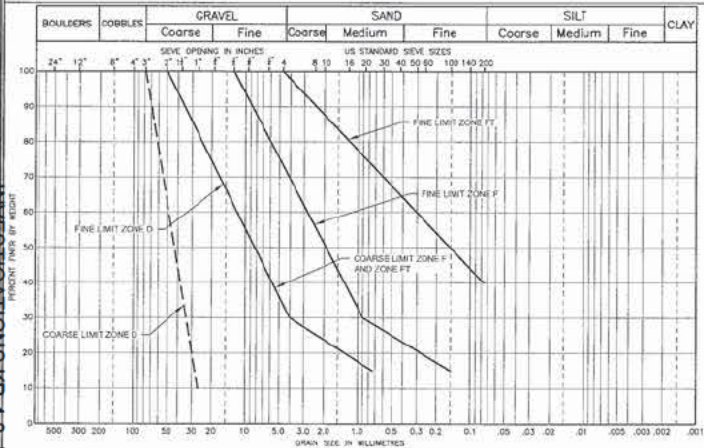
ZONE T and ZONE C



ZONE	MATERIAL TYPE	LOCATION	PLACEMENT & COMPACTION REQUIREMENTS
S	GLASS TBL	CORE ZONE	PLACED, MOISTURE CONDITIONED AND SPREAD IN MAXIMUM 300 MM THICK LAYERS (AFTER COMPACTION), VIBRATORY COMPACTION TOSING OR STAKEWORK PROX FOR MAXIMUM DRY DENSITY OR AS APPROVED BY THE ENGINEER.
R	ROCK	SHELL ZONE	PLACED AND SPREAD IN MAXIMUM 2000 MM THICK LAYERS AND COMPACTED BY SELECTIVE ROLLING OF MINE ROLL TRUCKS.
T	ROCK	TRANSITION ZONE/ CONFINING BERM	PLACED AND SPREAD IN MAXIMUM 600 MM THICK LAYERS AND COMPACTED WITH MINIMUM 4 PASSES OF 10 TON SMOOTH DRUM VIBRATORY ROLLER, OR AS APPROVED BY THE ENGINEER.
F	FILTER SAND	FILTER ZONE	PLACED AND SPREAD IN MAXIMUM 600 MM THICK LAYERS AND COMPACTED WITH MINIMUM 4 PASSES OF 10 TON SMOOTH DRUM VIBRATORY ROLLER, OR AS APPROVED BY THE ENGINEER.
FT	SAND	DOWNSTREAM FOUNDATION	PLACED AND SPREAD IN MAXIMUM 300 MM THICK LAYERS AND COMPACTED WITH MINIMUM 4 PASSES OF 10 TON SMOOTH DRUM VIBRATORY ROLLER, OR AS APPROVED BY THE ENGINEER.
U	SELECT FILL	UPSTREAM TOE	PLACEMENT AND COMPACTION REQUIREMENTS TO BE DETERMINED BASED ON MATERIAL SELECTION.
CBL	SELECT COARSE ROCKFILL	UPSTREAM TOE	PLACED TO ESTABLISH A FIRM FOUNDATION FOR SUBSEQUENT FILL PLACEMENT.
D	GRAINAGE GRAVEL	GRAINS	PLACED AROUND DRAINAGE PIPES AND MIXED WITH GEOTEXTILE.

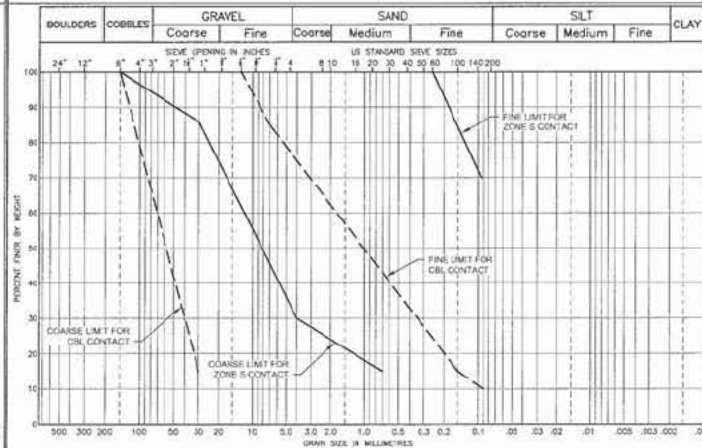
UNIFIED SOIL CLASSIFICATION SYSTEM

ZONE F AND ZONE FT



UNIFIED SOIL CLASSIFICATION SYSTEM

ZONE U



AS-BUILT

235/036	STAGE 6B SOUTH EMBANKMENT - SECTIONS AND DETAILS
235/036	STAGE 6B PARAMETER EMBANKMENT - SECTIONS AND DETAILS
215/016	STAGE 6B MAIN EMBANKMENT - SECTIONS AND DETAILS
DRG NO.	DESCRIPTION

REFERENCE DRAWINGS

REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHWD	APPD
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REVISIONS

1	14DEC10	AS-BUILT FOR STAGE 6B CONSTRUCTION	GL	RP	GR	KLJ
2	01FEB10	ISSUED FOR CONSTRUCTION	LIG	TAM	BB	KLJ
REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHWD	APPD

REVISIONS

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION

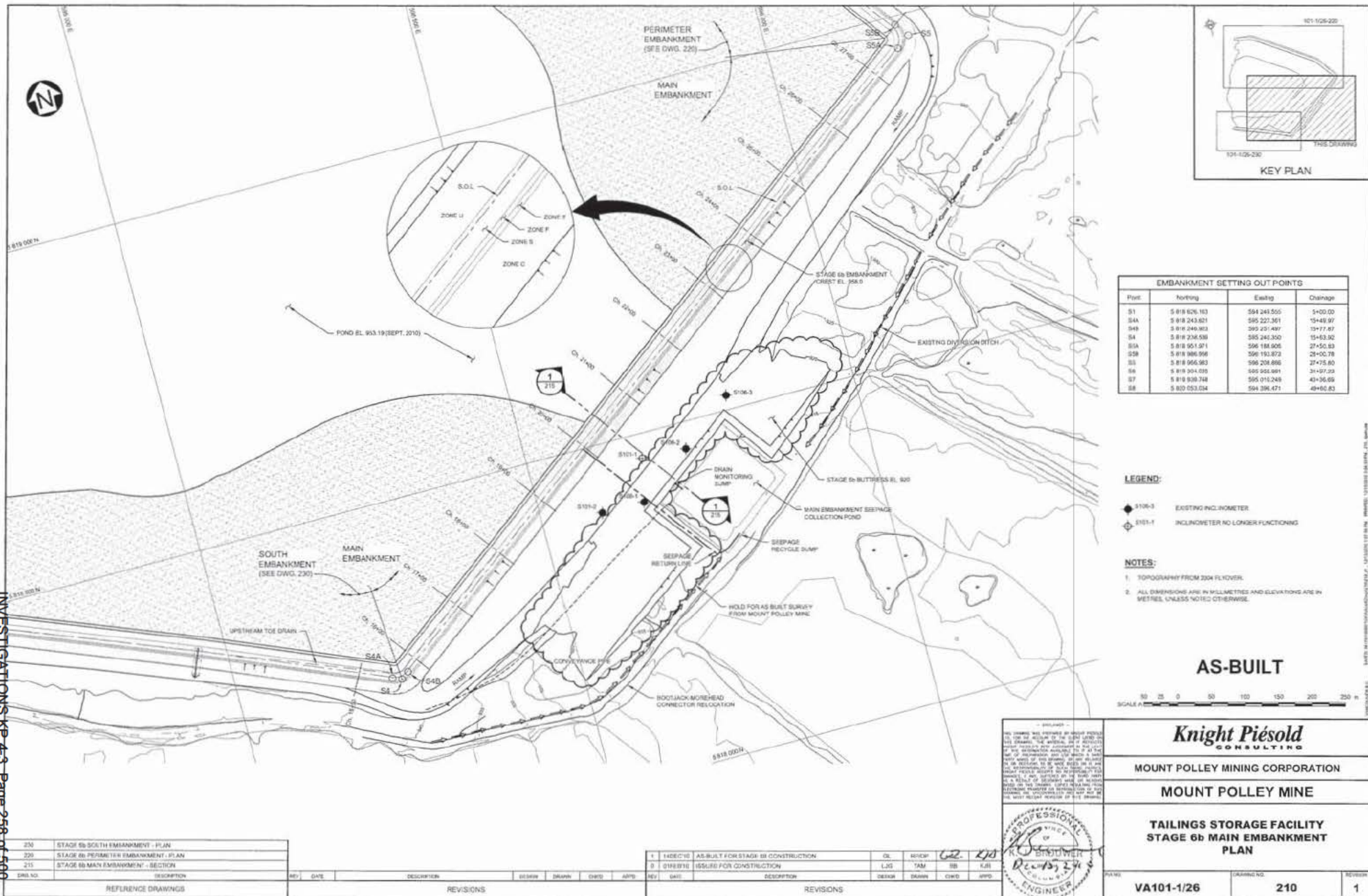
MOUNT POLLEY MINE

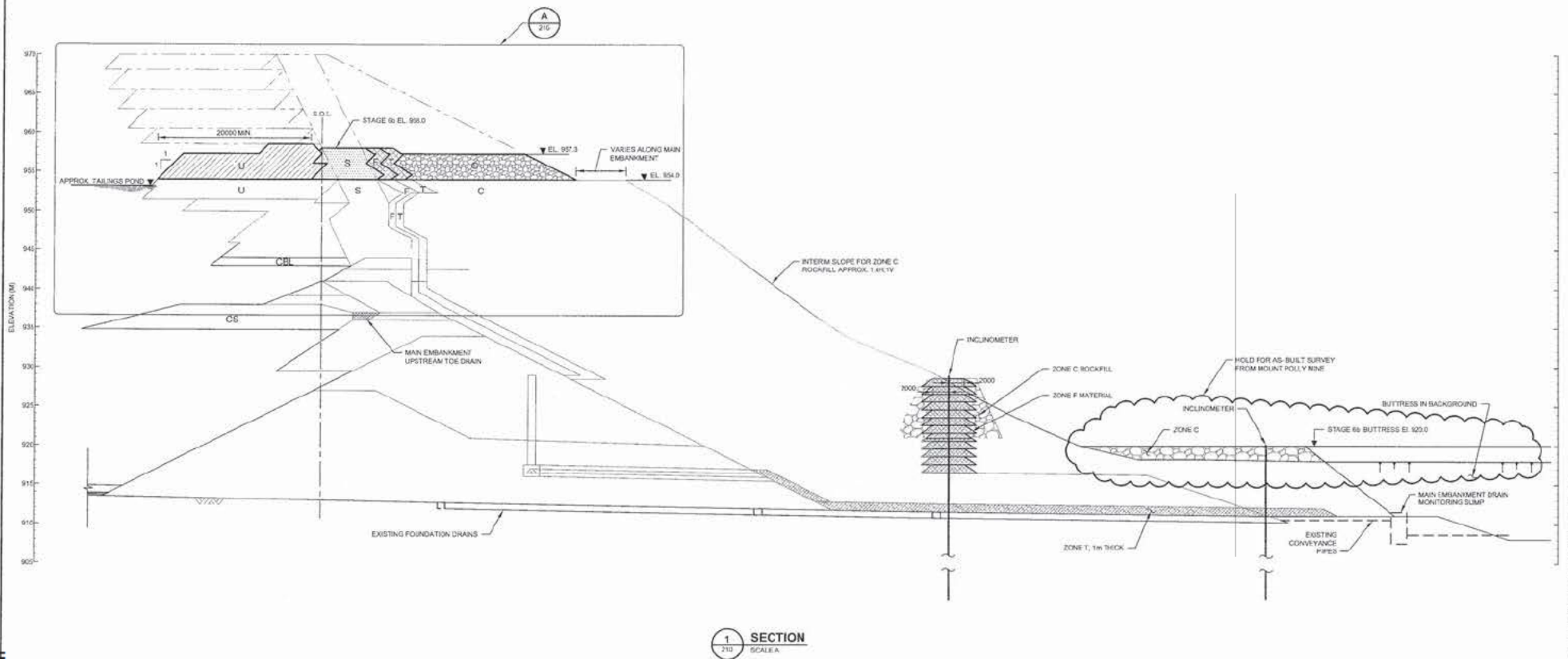
TAILINGS STORAGE FACILITY
STAGE 6B TAILINGS EMBANKMENT
MATERIAL SPECIFICATIONS

VA101-1/26

104

1





1
210
SECTION
SCALE A

AS-BUILT

SCALE A 5 10 15 20 25

NOTES:

1. FOR MATERIAL SPECIFICATIONS AND LEGEND SEE DRG. 104.
2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.
3. STAGE 6b CONSTRUCTION TO 958.0 m COMPLETED AUGUST 2010

216	STAGE 6b MAIN EMBANKMENT - DETAIL
210	STAGE 6b MAIN EMBANKMENT - PLAN
104	MATERIAL SPECIFICATIONS
DRG. NO.	DESCRIPTION

REVISIONS

1	14DEC10	AS BUILT FOR STAGE 6b CONSTRUCTION	KL	RP/DP	62	25
2	01FEB10	ISSUED FOR CONSTRUCTION	LJO	TAM	BB	XJS
REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPROVED

REVISIONS



Knight Piésold
CONSULTING

MOUNT POLLEY MINE

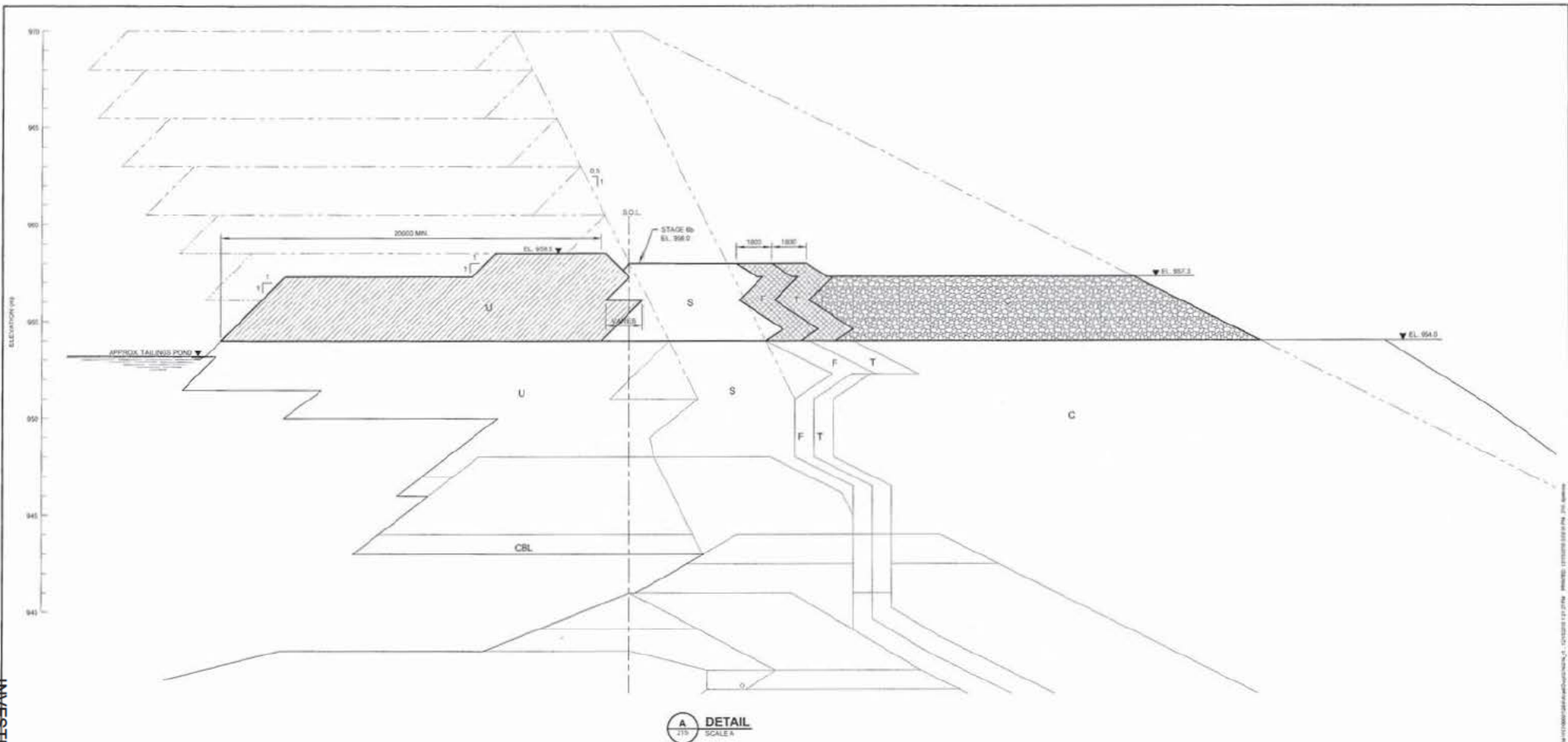
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6b MAIN EMBANKMENT
SECTION

VA101-1/26

215

1



AS-BUILT

SCALE 1:100

- NOTES:**
1. FOR MATERIAL SPECIFICATIONS AND LEGEND SEE DRG 104.
 2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.
 3. STAGE 6b CONSTRUCTION TO 658.0 m COMPLETED AUGUST 2010

<p>Knight Piésold CONSULTING</p>	
<p>MOUNT POLLEY MINING CORPORATION</p>	
<p>MOUNT POLLEY MINE</p>	
<p>TAILINGS STORAGE FACILITY STAGE 6b MAIN EMBANKMENT DETAIL</p>	
<p>PROFESSIONAL ENGINEER</p>	<p>VA101-1/26</p>

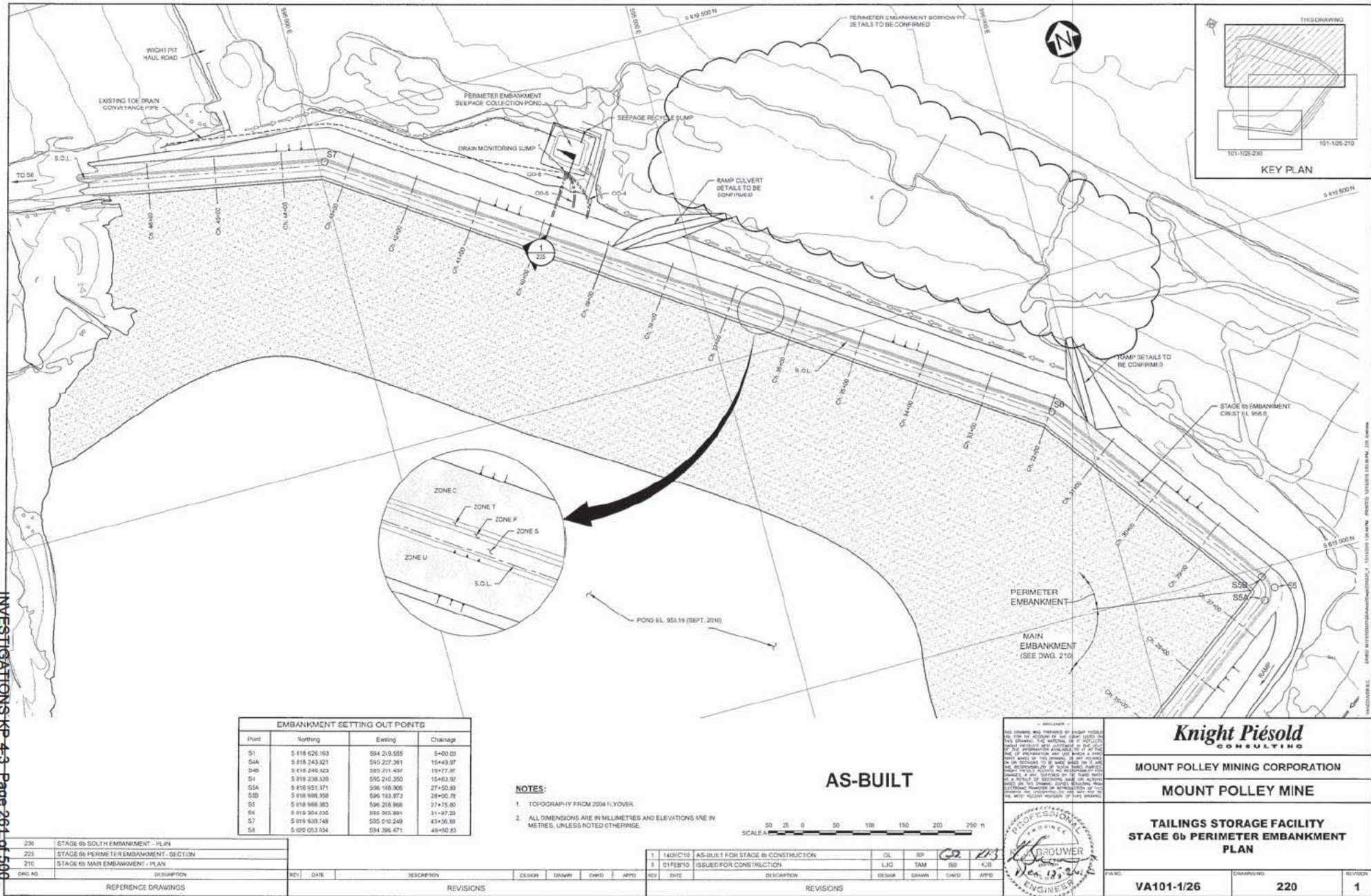
213	STAGE 6b MAIN EMBANKMENT - SECTION
210	STAGE 6b MAIN EMBANKMENT - PLAN
104	MATERIAL SPECIFICATIONS

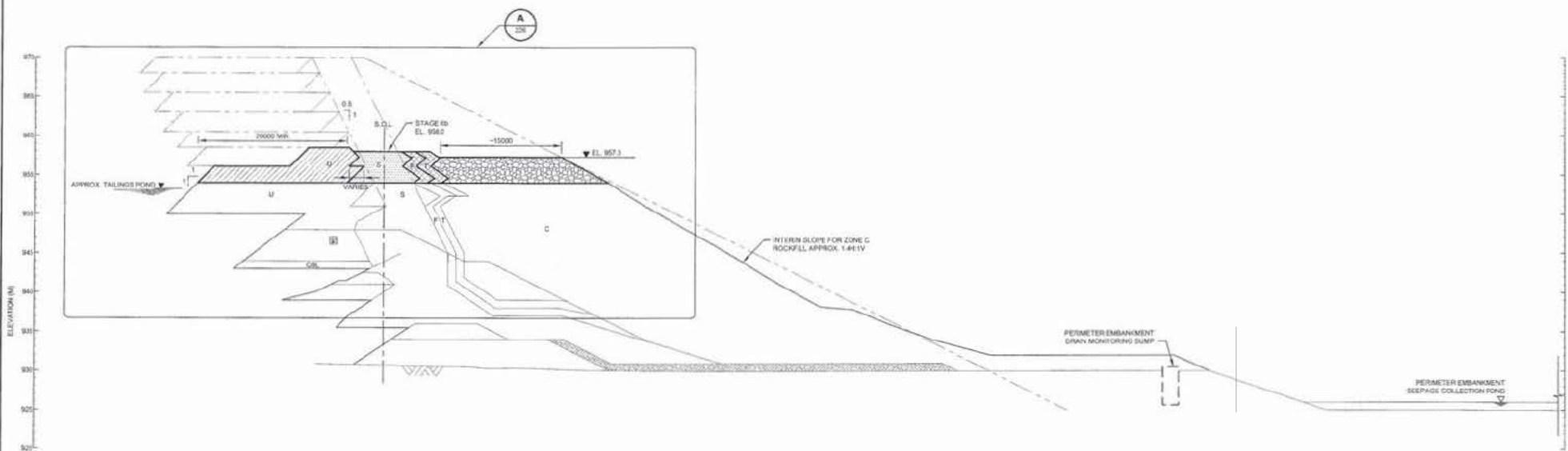
REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPROV

1	14/01/10	AS-BUILT FOR STAGE 6b CONSTRUCTION	10	VAJ/EP	67	213
2	01/07/10	ISSUED FOR CONSTRUCTION	10	TAM	SS	210

DESIGN	DRAWN	CHECK	APPROV







SECTION 1
SCALE A

AS-BUILT

SCALE 1:250 0 5 10 15 20 25 m

NOTES:

1. FOR MATERIAL SPECIFICATIONS AND LEGEND SEE SRG. 104.
2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

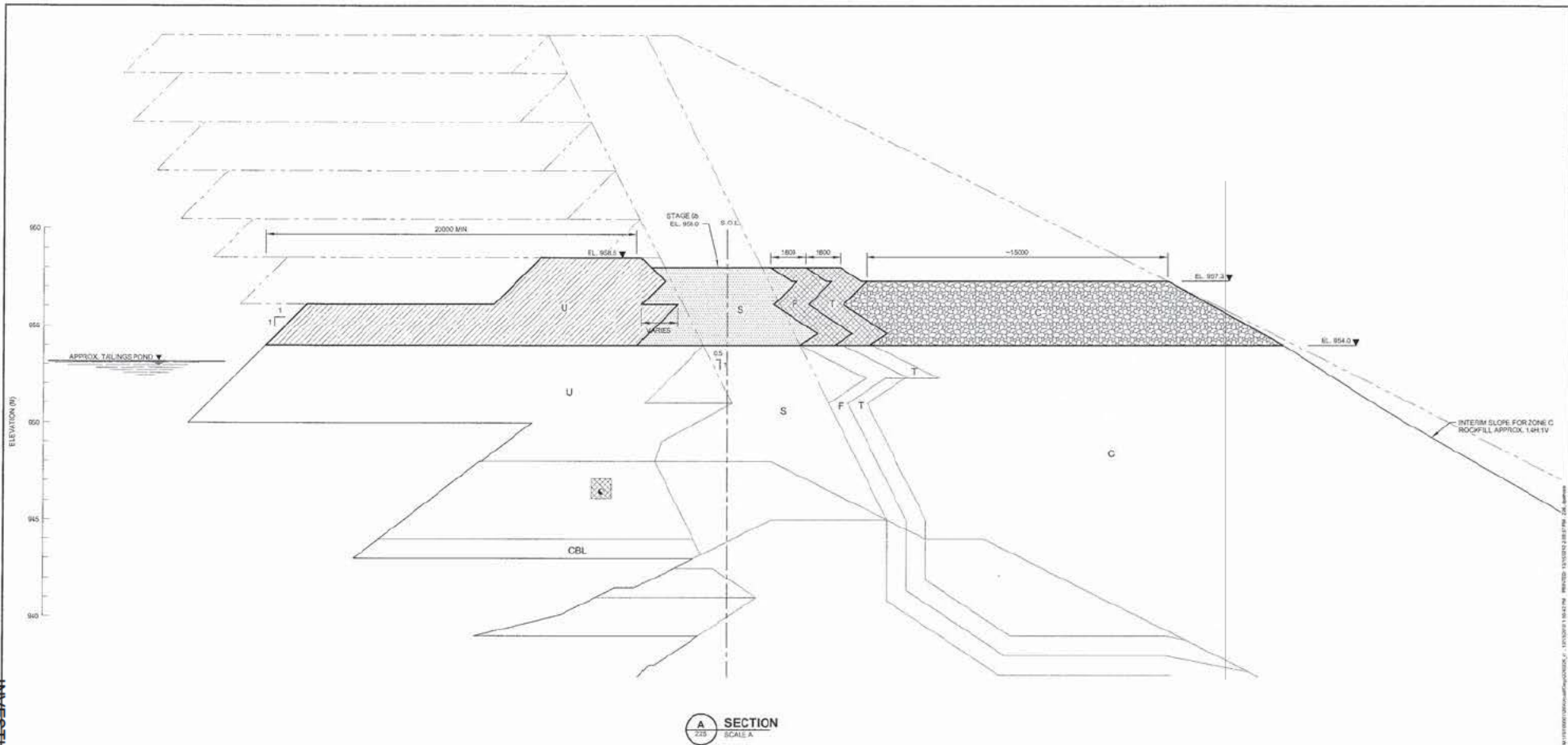
225	STAGE 6b PERIMETER EMBANKMENT - DETAIL
220	STAGE 6b PERIMETER EMBANKMENT - PLAN
104	MATERIAL SPECIFICATIONS
DWG NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPROV.
REVISIONS						

1	1405/10	AS-BUILT FOR STAGE 6b CONSTRUCTION	CL	REVISOR	62	222
2	01/08/10	ISSUED FOR CONSTRUCTION	L/D	TAM	88	5/3
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPROV.
REVISIONS						



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MOUNT POLLEY MINING CORPORATION	
MOUNT POLLEY MINE	
TAILINGS STORAGE FACILITY STAGE 6b PERIMETER EMBANKMENT SECTION	
DWG NO.	VA101-1/26
DRAWING NO.	225
REVISION	1



AS-BUILT



- NOTES:**
- 1. FOR MATERIAL SPECIFICATIONS AND LEGENDS SEE DRG. 104.
 - 2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

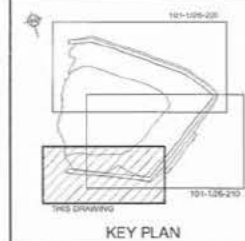
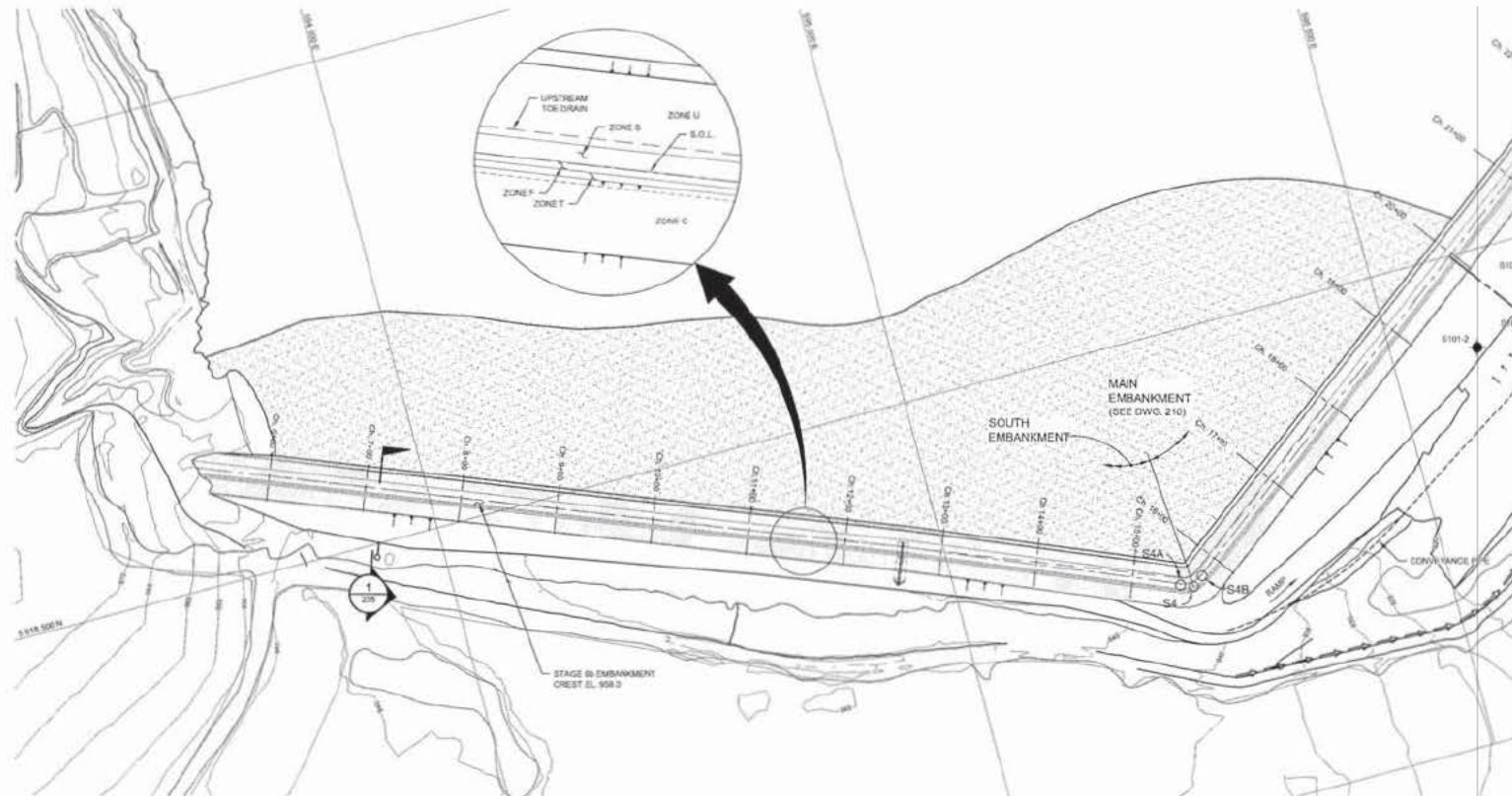


Knight Piésold CONSULTING		
MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY STAGE 6b PERIMETER EMBANKMENT DETAIL		
DRWG VA101-1/26	ISSUING NO. 226	REVISION 1

REF. NO.	DESCRIPTION
225	STAGE 6b PERIMETER EMBANKMENT - SECTION
220	STAGE 6b PERIMETER EMBANKMENT - PLAN
104	MATERIAL SPECIFICATIONS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPD.
1	14/02/10	AS-BUILT FOR STAGE 6b CONSTRUCTION				
0	01/02/10	ISSUED FOR CONSTRUCTION				

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPD.
1	14/02/10	AS-BUILT FOR STAGE 6b CONSTRUCTION	CL	REVISED	GB	2/13
0	01/02/10	ISSUED FOR CONSTRUCTION	L/G	TAM	BB	KJB



EMBANKMENT SETTING OUT POINTS			
Point	Northing	Easting	Chaining
S1	5 819 626.10	584 249.55	5+00.00
S4A	5 819 243.62	585 227.36	13+49.37
S4B	5 819 245.92	585 251.49	15+77.87
S4	5 819 238.58	585 242.50	15+63.52
S5A	5 819 951.87	586 188.90	21+50.83
S5B	5 819 986.35	586 193.87	28+00.78
S5	5 819 988.98	586 208.86	27+75.80
S6	5 819 304.33	585 933.89	31+97.23
S7	5 819 309.74	585 913.24	43+36.89
S8	5 820 053.03	584 398.47	49+60.83

NOTES:

1. TOPOGRAPHY FROM 2004 FLYOVER.
2. ALL DIMENSIONS ARE IN MILLIMETRES AND ELEVATIONS ARE IN METRES, UNLESS NOTED OTHERWISE.

AS-BUILT

SCALE: 1:100

REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPROVED
1	14DEC10	AS-BUILT FOR STAGE 6b CONSTRUCTION	DL	RP/DP	62	62
0	01FEB10	ISSUED FOR CONSTRUCTION	LJC	TAM	BR	EJB

Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6b SOUTH EMBANKMENT
PLAN

VA101-1/26

230

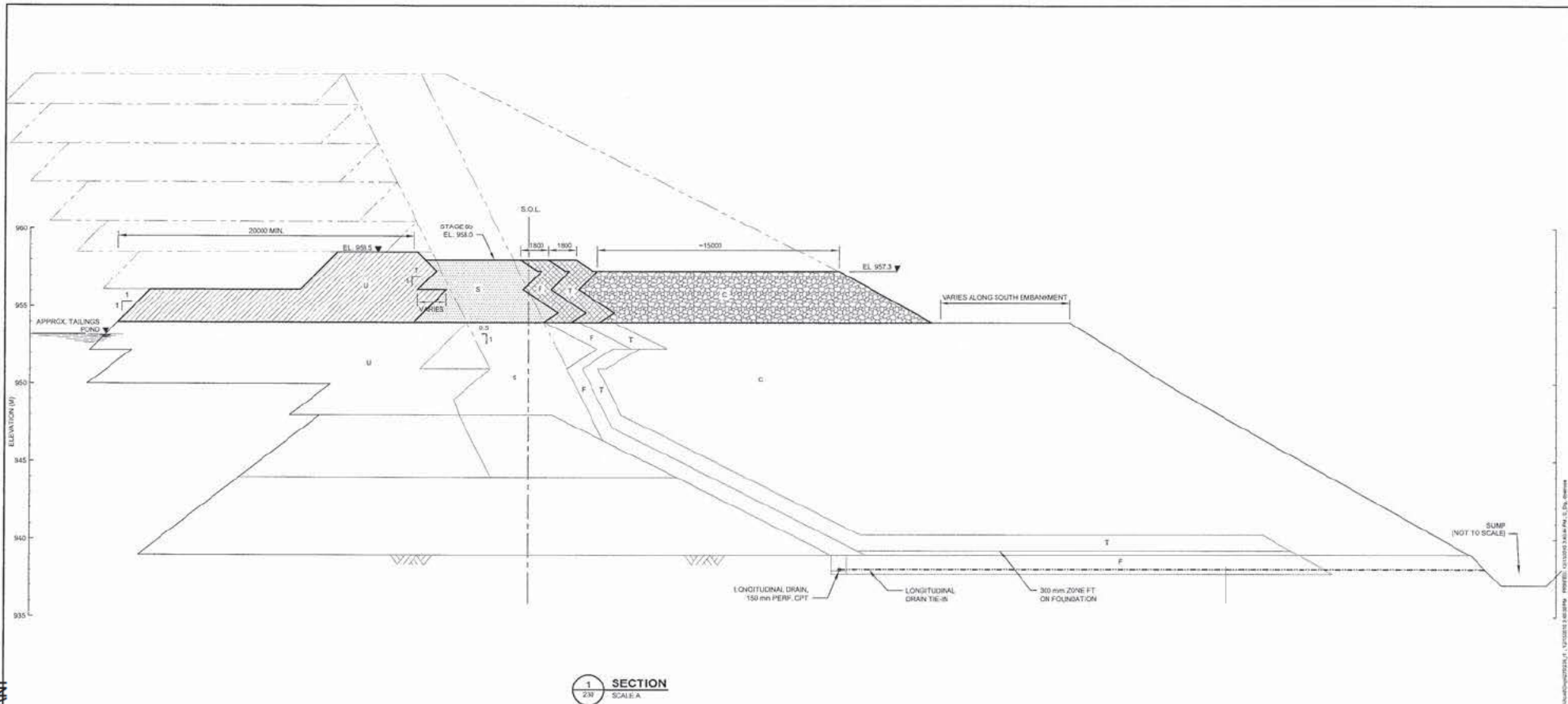
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REV	DATE	DESCRIPTION	DESIGN	DRAWN	CHECK	APPROVED
235		STAGE 6b SOUTH EMBANKMENT - SECTIONS				
229		STAGE 6b PERIMETER EMBANKMENT - PLAN				
210		STAGE 6b MAIN EMBANKMENT - PLAN				

REFERENCE DRAWINGS

REVISIONS

REVISIONS



AS-BUILT

25 0 25 5 7.5 10 12.5 m

SCALE A

NOTES:

1. FORMATERIAL SPECIFICATIONS AND LEGEND SEE DRG. 104.

[illegible]

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MOUNT POLLEY MINE

**TAILINGS STORAGE FACILITY
STAGE 6b SOUTH EMBANKMENT
SECTION 1**

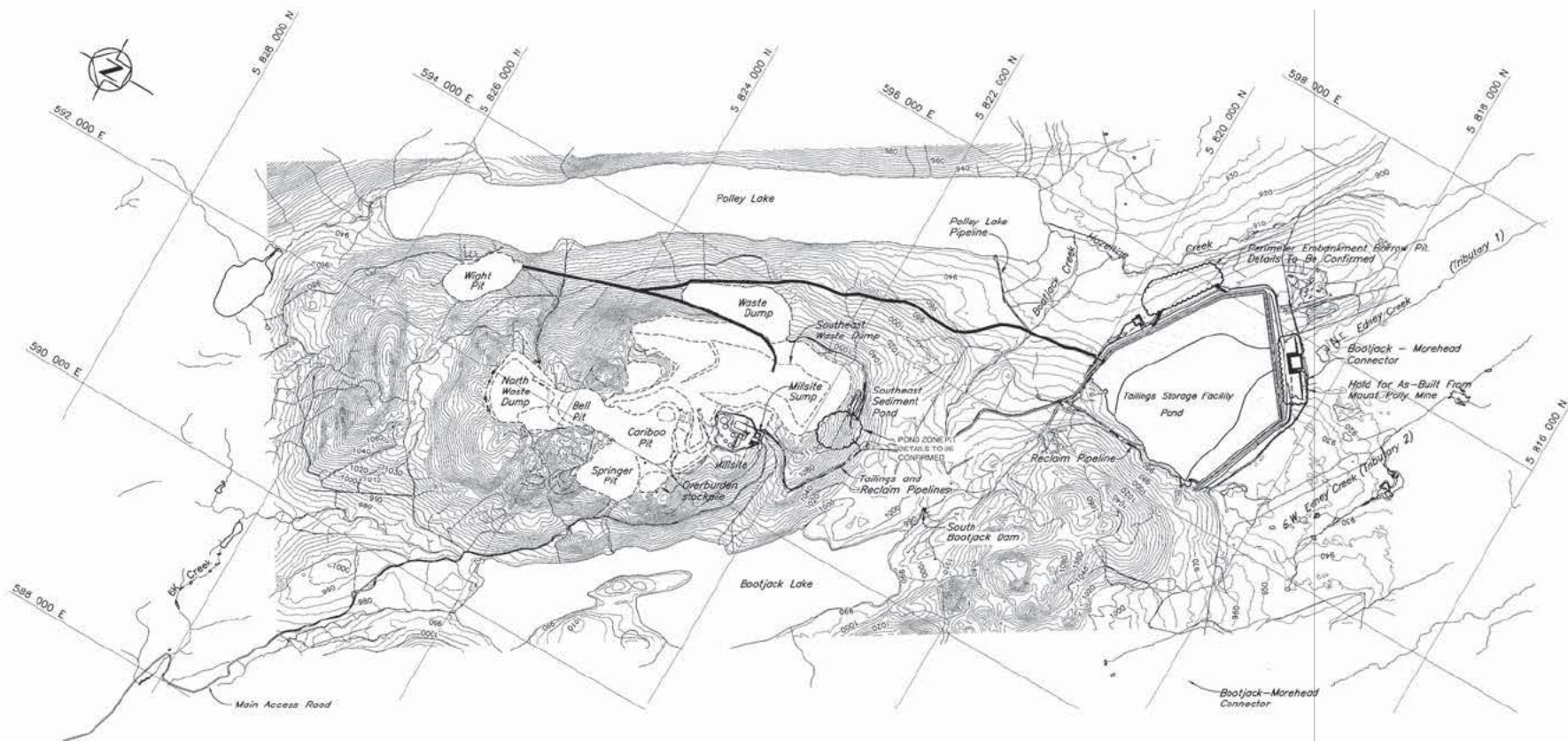
PWA NO. VA101-1/26	DRAWING NO. 235	REVISION 1
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230	STAGE 60 SOUTH EMBANKMENT - PLAN
104	MATERIAL SPECIFICATIONS
DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

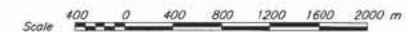
1	14DEC'10	AS-BUILT FOR STAGE B: CONSTRUCTION
0	01FEB'10	ISSUED FOR CONSTRUCTION
REV	DATE	DESCRIPTION

REVISIONS

GL	REVP	62	11
LJG	TAM	BN	KL
DESB	DANAN	CHC	APN



AS-BUILT

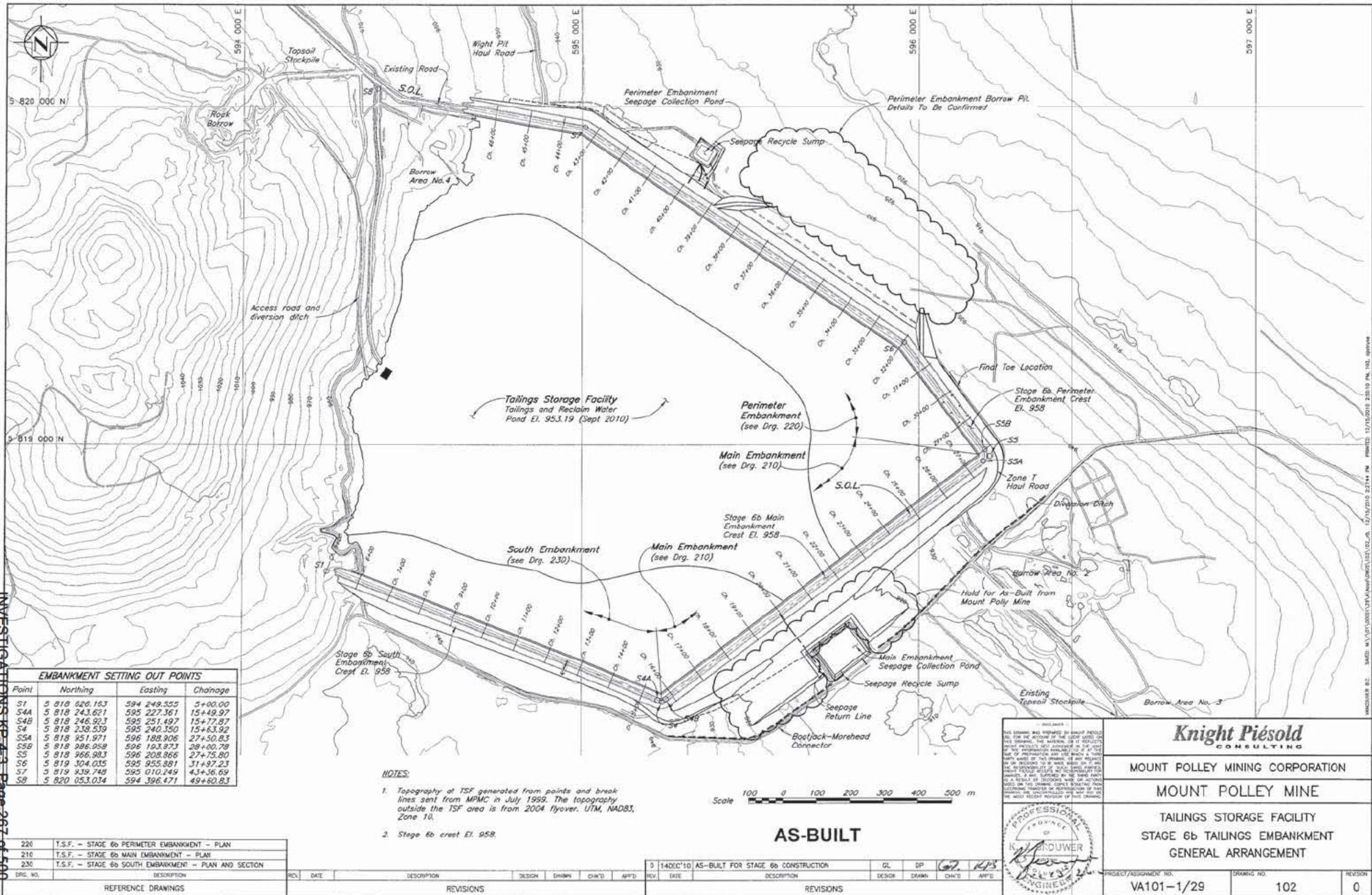


NOTES

1. Open Pits and Waste Dumps are shown in their final configurations.
2. Topography from 2004 flyover, UTM, NAD83, ZONE 10.
3. Drawing is for reference only.

<p>NOTES</p> <p>THIS DRAWING WAS PREPARED BY KNIGHT PIESOLD CONSULTING FOR THE ACCOUNT OF MOUNT POLLEY MINING CORPORATION. THE MATERIALS, DATA, AND INFORMATION PROVIDED TO THE CLIENT BY THE CLIENT ARE THE PROPERTY OF THE CLIENT. THE CLIENT IS RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION PROVIDED TO THE CLIENT. THE CLIENT IS RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION PROVIDED TO THE CLIENT. THE CLIENT IS RESPONSIBLE FOR THE ACCURACY AND COMPLETENESS OF THE INFORMATION PROVIDED TO THE CLIENT.</p>		<p>Knight Piesold CONSULTING</p>	
<p>MOUNT POLLEY MINING CORPORATION</p>		<p>MOUNT POLLEY MINE</p>	
<p>TAILINGS STORAGE FACILITY STAGE 6b TAILINGS EMBANKMENT OVERALL SITE PLAN</p>		<p>PROJECT/ASSIGNMENT NO: VA101-1/29</p>	
<p>DRAWING NO: 100</p>		<p>REVISION 0</p>	

DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
14 DEC 10	AS-BUILT FOR STAGE 6b CONSTRUCTION	GL	DP	GP	HS						
REFERENCE DRAWINGS						REVISIONS					





NOTES

1. Topography from 2004 Flyover
2. All dimensions in millimetres and elevations in metres, unless noted otherwise.

AS-BUILT

Scale 100 0 100 200 300 400 500m

254	STAGE 6b INSTRUMENTATION - SOUTH EMB. - PLANES F & I
254	STAGE 6b INSTRUMENTATION - PERIMETER EMB. - PLANES D, G & H
257	STAGE 6b INSTRUMENTATION - MAIN EMB. - PLANES C & E
256	STAGE 6b INSTRUMENTATION - MAIN EMB. - PLANES A & B

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
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REFERENCE DRAWINGS

REVISIONS

0	14DEC10	AS-BUILT FOR STAGE 6b CONSTRUCTION	GL	DP	CT	ZIS
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED

REVISIONS



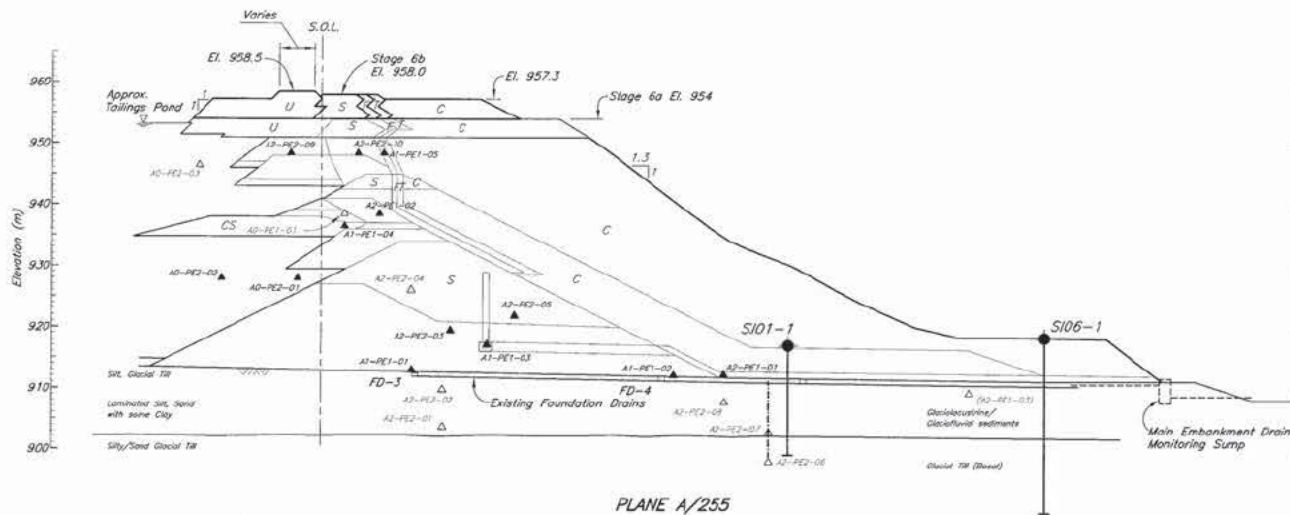
Knight Piésold
CONSULTING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6b - INSTRUMENTATION
PLAN VIEW OF PIEZOMETER PLANES

PROJECT/ASSIGNMENT NO.
VA101-1/29DRAWING NO.
255REVISION
0



LEGEND:

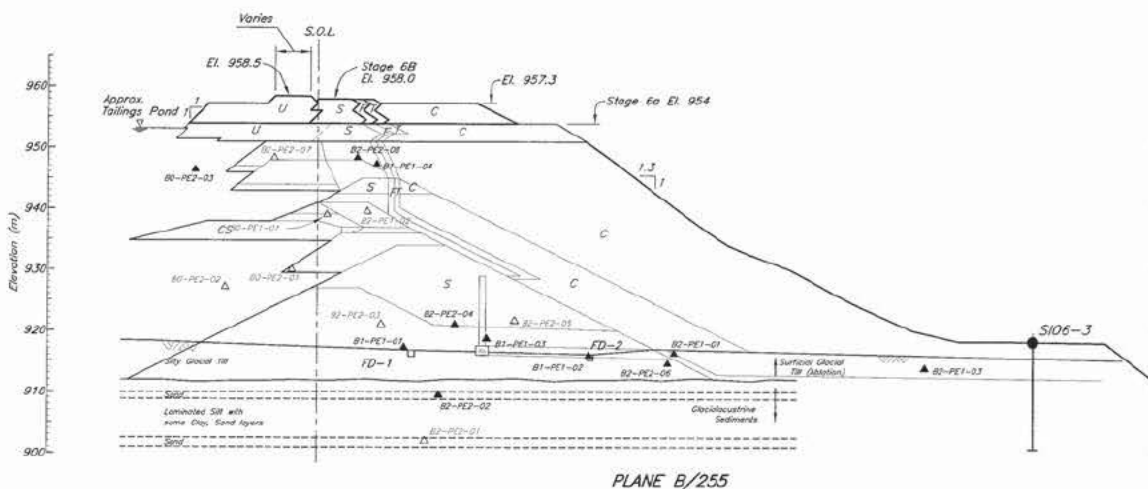
- Plane I.D. (A, B etc.)
- Area (0-Tailings, 1-Drain, 2-Embankment)
- A0-PE1-01—Number I.D.
- Pressure Rising (1-Low, 2-High)
- Type of Instrumentation (PE-Piezometer electric, SM-Survey Monument)

- A2-PE2-03 ▲ Installed Piezometer
- A2-PE2-04 ▲ Piezometer no longer functioning

NOTE:

1. Piezometer pore pressures used to estimate phreatic surface.

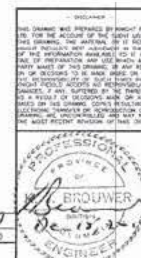
AS-BUILT



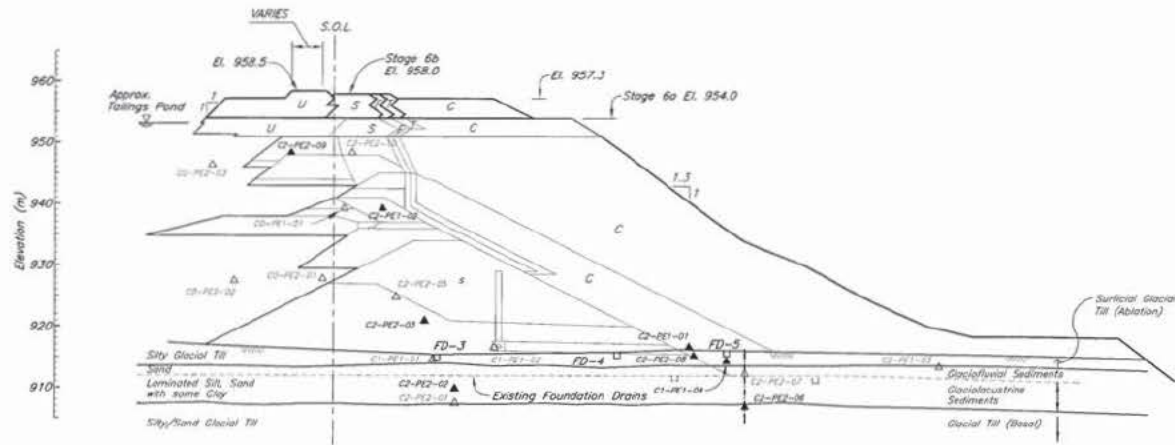
256	STAGE 6b INSTRUMENTATION — SOUTH EMB. — PLANES F AND I
258	STAGE 6b INSTRUMENTATION — PERIMETER EMB.—PLANES D, G & H
257	STAGE 6b INSTRUMENTATION — MAIN EMB. — PLANES C AND E
255	TSP-STAGE 6b-INSTRUMENTATION-PLAN VIEW OF PIEZOMETER PLANES
DWG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
REVISIONS						

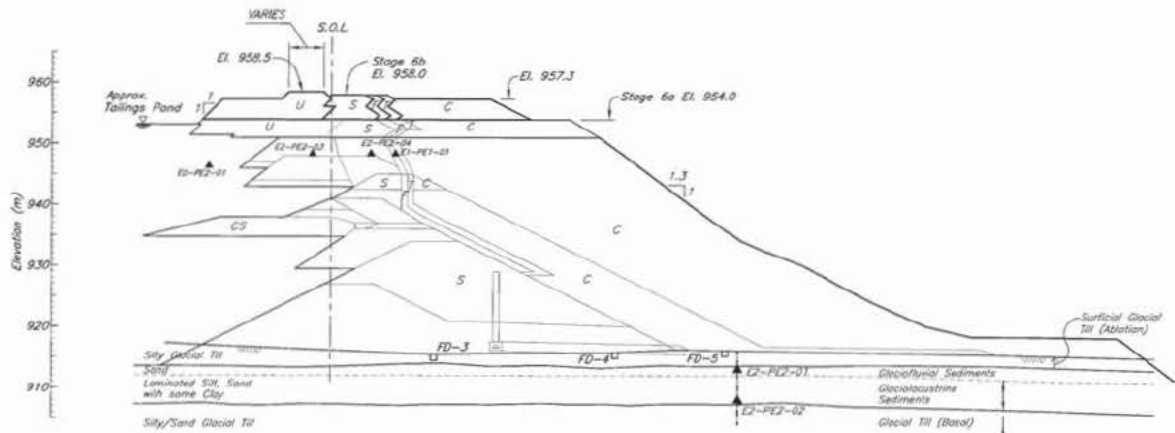
0 14DEC10 AS-BUILT FOR STAGE 6b CONSTRUCTION						
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
REVISIONS						



Knight Piésold CONSULTING		
MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY STAGE 6b — INSTRUMENTATION MAIN EMBANKMENT PLANES A AND B		
PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/29	256	0



PLANE C/255



PLANE E/255

LEGEND

- Plane I.D. (A, B etc.)
- Area (0-Tailings, 1-Drain, 2-Embankment)
- A0-PE1-01-Number I.D.
- Pressure Rating (1-Low, 2-High)
- Type of instrumentation (PE-Piezometer electric, SM-Survey Monument)
- A2-PE2-01 Installed Piezometer
- C1-PE1-02 Piezometer no longer functioning

NOTE:

1. Piezometer pore pressures used to estimate phreatic surface.

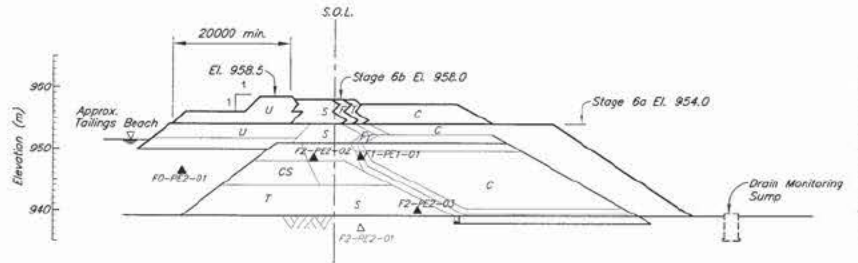
AS-BUILT



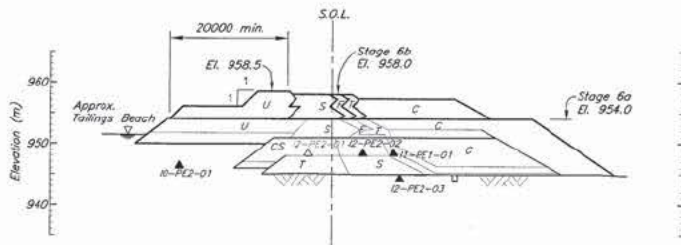
<p>Knight Piésold CONSULTING</p>		<p>MOUNT POLLEY MINING CORPORATION</p>	
<p>MOUNT POLLEY MINE</p>		<p>TAILINGS STORAGE FACILITY STAGE 6b - INSTRUMENTATION MAIN EMBANKMENT PLANES C AND E</p>	
<p>PROJECT/ASSIGNMENT NO. VA101-1/29</p>		<p>DRAWING NO. 257</p>	
<p>REVISIONS</p>		<p>REVISIONS</p>	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
259		STAGE 6b INSTRUMENTATION - SOUTH EMB. - PLANES F & I				
258		STAGE 6b INSTRUMENTATION - PERIMETER EMB.-PLANES D, G & H				
256		STAGE 6b INSTRUMENTATION - MAIN EMB. - PLANES A AND B				
255		TSP-STAGE 6b-INSTRUMENTATION-PLAN VIEW OF PIEZOMETER PLANES				

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHECKED	APPROVED
1	14DEC10	AS-BUILT FOR STAGE 6b CONSTRUCTION	GL	DP	GP	RP



PLANE F/255



PLANE I/255

LEGEND

- Plane I.D. (A, B etc.)
- Area (0—Tailings, 1—Drain, 2—Embankment)
- AO-PE1-01—Number I.D.
- Pressure Rating (1—Low, 2—High)
- Type of Instrumentation (PE—Piezometer electric, SM—Survey Monument)
- A2-PE2-03 ▲ Installed Piezometer
- F2-PE2-01 ▲ Piezometer no longer functioning

AS-BUILT



258	STAGE 6b INSTRUMENTATION — PERIMETER EMB.—PLANES D, G & H
257	STAGE 6b INSTRUMENTATION — MAIN EMB. — PLANES C AND E
256	STAGE 6b INSTRUMENTATION — MAIN EMB. — PLANES A AND B
255	TSF-STAGE 6b-INSTRUMENTATION-PLAN VIEW OF PIEZOMETER PLANES

REF. NO.	DESCRIPTION
1	REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	14DEC'10	AS-BUILT FOR STAGE 6b CONSTRUCTION				

REV.	DATE	DESCRIPTION	GL	OP	LT	R/S



Knight Piésold CONSULTING		
MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
TAILINGS STORAGE FACILITY STAGE 6b — INSTRUMENTATION SOUTH EMBANKMENT PLANES F AND I		
PROJECT/ASSIGNMENT NO. VA101-1/29	DRAWING NO. 259	REVISION 0

APPENDIX A

LABORATORY TEST RESULTS – OFFSITE

Appendix A1	Zone S Control
Appendix A2	Zone S Record
Appendix A3	Zone F Record
Appendix A4	Zone T Record

APPENDIX A1

ZONE S CONTROL

(Pages A1-1 to A1-25)

From: Nancy Kovacevic [n.kovacevic@geonorth.ca]

Sent: Friday, April 09, 2010 10:11 AM

To: Ron Martel

Cc: Greg Johnston; Mark Smith

Subject: Mount Polley

Hi ron, I will be away until Tuesday April 13th. Here are verbal results for C-S6B-ZS-01-2010 (you already have the proctor)

Fine specific gravity = 2.70

Grain size: GRAVEL 0.1% / SAND 18.6% / SILT 77.3% / CLAY 4.0%

Atterberg = CL

M/C = 20.5%

I will PDF results after I proof the reports when I get back

cheers

Nancy Kovacevic

Technician, ACI Certified

GeoNorth Engineering Ltd.

3975 18th Avenue

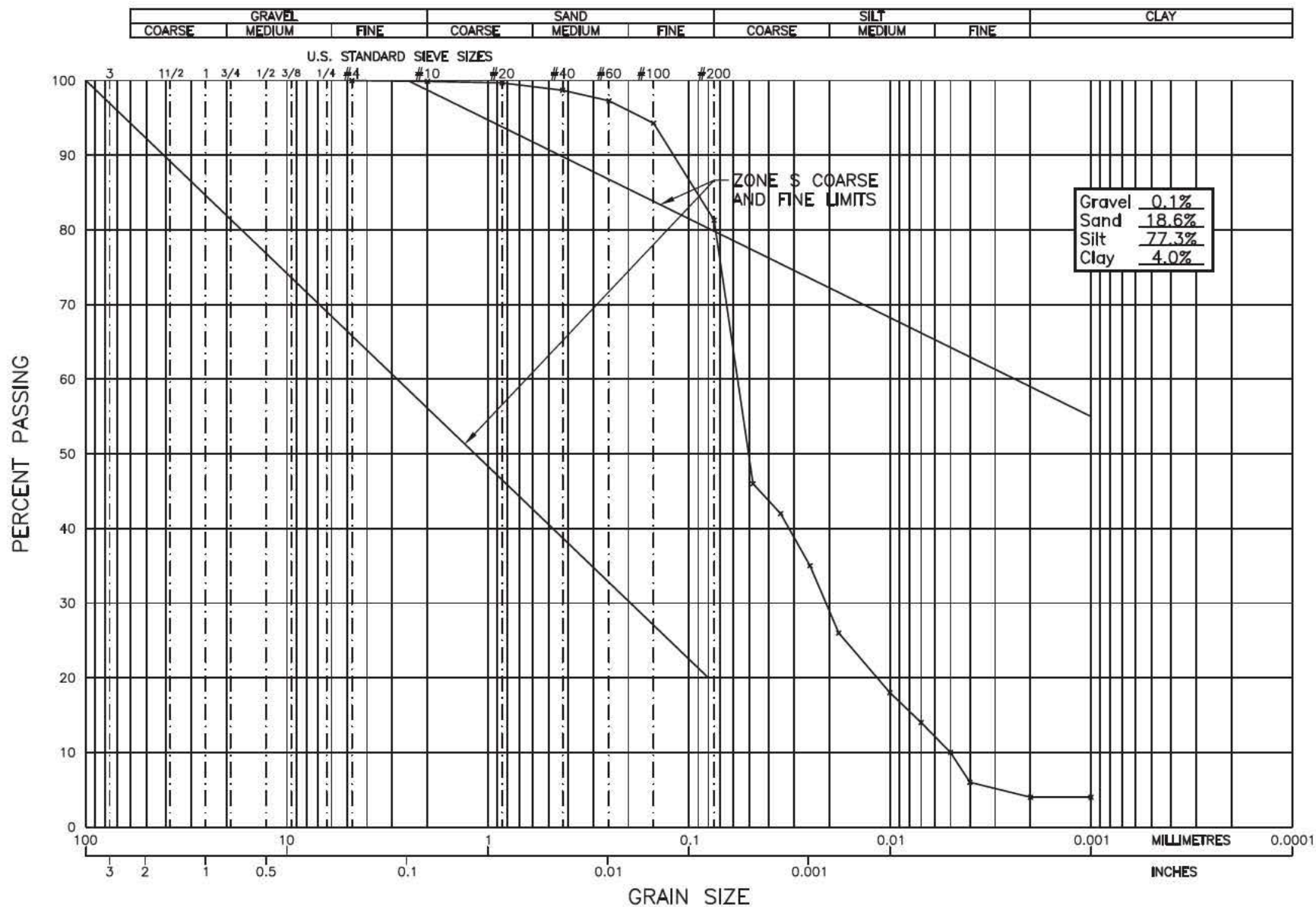
Prince George, BC V2N 1B2

Phone 250-564-4304 ext 213

Fax 250-564-9323

Cell 250-612-9091

email n.kovacevic@geonorth.ca



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF C-S6B-ZS-01-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C5

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 3

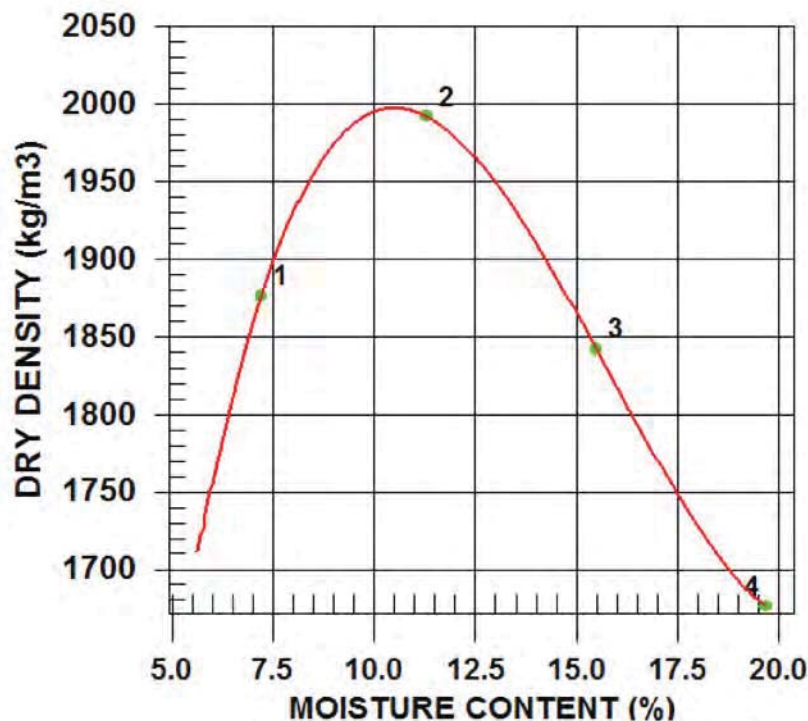
DATE TESTED 2010.Apr.06 DATE RECEIVED 2010.Apr.01 DATE SAMPLED 2010.Mar.30

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY DJ

SUPPLIER
SOURCE C-S6B-Z5-01-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION None
OVERSIZE CORRECTION METHOD
RETAINED 4.75mm SCREEN %
OVERSIZE SPECIFIC GRAVITY
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2011	1876	7.2
2	2217	1992	11.3
3	2128	1842	15.5
4	2006	1676	19.7

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED OVERSIZE CORRECTED	2000	10.5

COMMENTS

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 17 DATE RECEIVED 2010.Apr.09 DATE TESTED 2010.Apr.13 DATE SAMPLED 2010.Apr.07

SUPPLIER

SOURCE C-S6B-ZS-02-2010

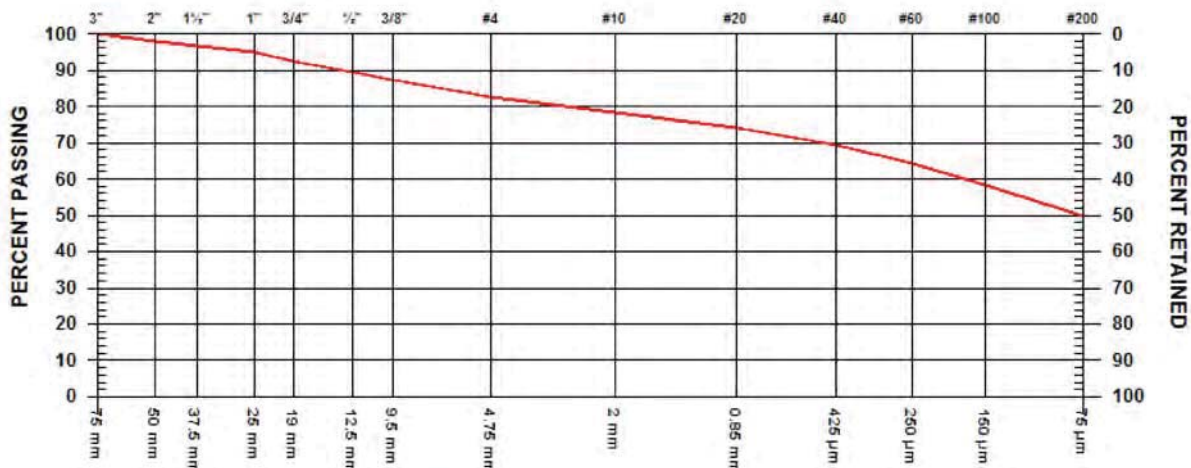
SPECIFICATION

MATERIAL TYPE TILL

SAMPLED BY MS-Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	98.0	
1 1/2"	37.5	mm	94.9	
1"	25	mm	92.3	
3/4"	19	mm	89.2	
1/2"	12.5	mm	87.3	
3/8"	9.5	mm		

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	82.4	
No. 10	2.00	mm	78.4	
No. 20	850	µm	74.0	
No. 40	425	µm	69.5	
No. 60	250	µm	64.1	
No. 100	150	µm	58.5	
No. 200	75	µm	49.7	

COMMENTS

Re: Plate C8 and B3, Proctor #6

Location: PE Borrow, Elevation: Top of Grey Till Layer

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corp.						Date: April 15, 2010					
Project Name: Mount Polley Construction Program Stage 6B						Project #: K-2937					
Source/Location: C-S6B-ZS-02-2010						Type: Till					
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: Deb				Checked By: Nancy			
Date Sampled: 04/07/10				Date Received: 04/09/10				Date Tested: 04/13/10			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	78.4
Wet Wt. & Tare	837.1	25.4				20	1.9	48.1	96.2	75.4
Dry Wt. & Tare	762.2	19.0				40	3.2	44.9	89.8	70.4
Water Wt.	74.9	12.5				60	3.4	41.5	83.0	65.1
Tare Wt.	179.8	9.5				100	3.8	37.7	75.4	59.1
Wt. Of Dry Soil	582.4	4.75	RE: SIEVE TEST #17			200	6.4	31.3	62.6	49.1
Moisture Content %	12.9	10	PLATE No. C8			Pan	31.3			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100 x Wet Soil Wt.) / (100 + Initial Moisture) =		Total	582.4			Unwashed Wt. =				
						Tare		Wt. Passing #200 = _____		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.784	0.5	35.0	18.0	0.01399	27.0	11.8	4.866	0.068	54.0	42.3
50.0	0.784	1	31.5	18.0	0.01399	23.5	12.4	3.524	0.049	47.0	36.8
50.0	0.784	2	31.0	18.0	0.01399	23.0	12.5	2.500	0.035	46.0	36.1
50.0	0.784	4	27.5	18.0	0.01399	19.5	13.1	1.808	0.025	39.0	30.6
50.0	0.784	8	26.0	18.0	0.01399	18.0	13.3	1.291	0.018	36.0	28.2
50.0	0.784	15	23.5	18.0	0.01399	15.5	13.7	0.957	0.013	31.0	24.3
50.0	0.784	30	21.0	18.0	0.01399	13.0	14.2	0.687	0.010	26.0	20.4
50.0	0.784	60	19.0	19.0	0.01382	11.0	14.5	0.491	0.007	22.0	17.2
50.0	0.784	120	17.0	19.0	0.01382	9.0	14.8	0.351	0.005	18.0	14.1
50.0	0.784	240	15.0	19.0	0.01382	7.0	15.1	0.251	0.003	14.0	11.0
50.0	0.784	480	13.5	20.0	0.01365	5.5	15.4	0.179	0.002	11.0	8.6
50.0	0.784	1440	12.0	20.0	0.01365	4.0	15.6	0.104	0.001	8.0	6.3

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO
Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 6

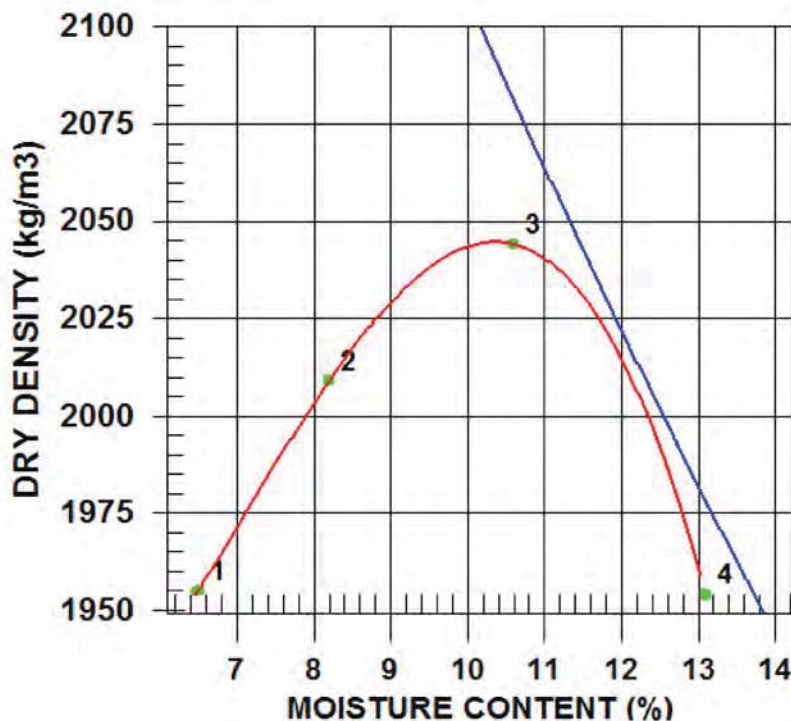
DATE TESTED 2010.Apr.13 DATE RECEIVED 2010.Apr.09 DATE SAMPLED 2010.Apr.07

INSITU MOISTURE N/A %
SAMPLED BY MS-Client
TESTED BY SR

SUPPLIER
SOURCE C-S6-ZS-02-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 50MM
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 18.0 %
OVERSIZE SPECIFIC GRAVITY 2.67
TOTAL NUMBER OF TRIALS 4



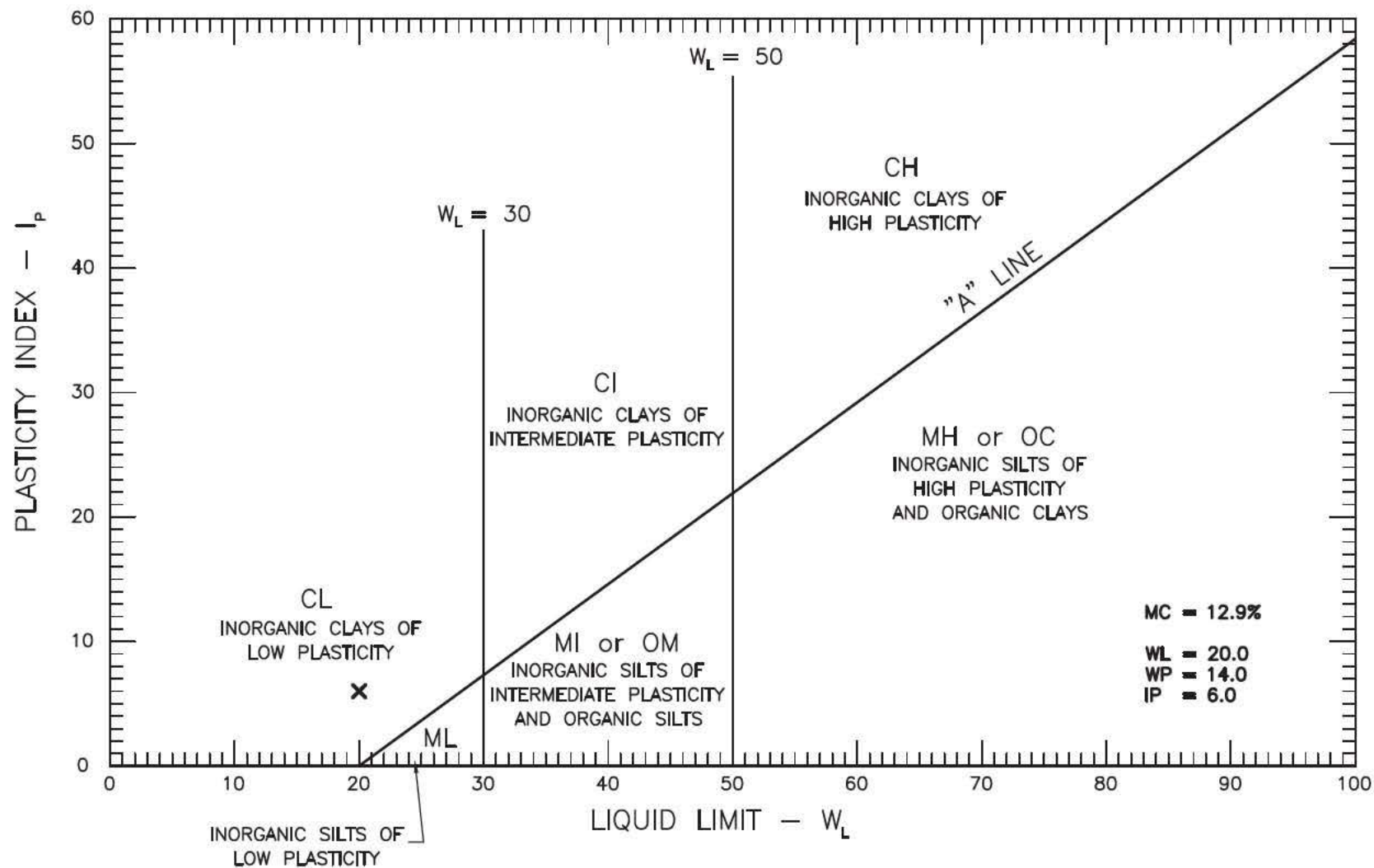
TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2082	1955	6.5
2	2174	2009	8.2
3	2261	2044	10.6
4	2210	1954	13.1

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.67	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2050	10.5
OVERSIZE CORRECTED	2140	9.0

COMMENTS

FINE SG = 2.681 / COARSE SG = 2.669

Re: Plate C8 and B3, Sieve #17.



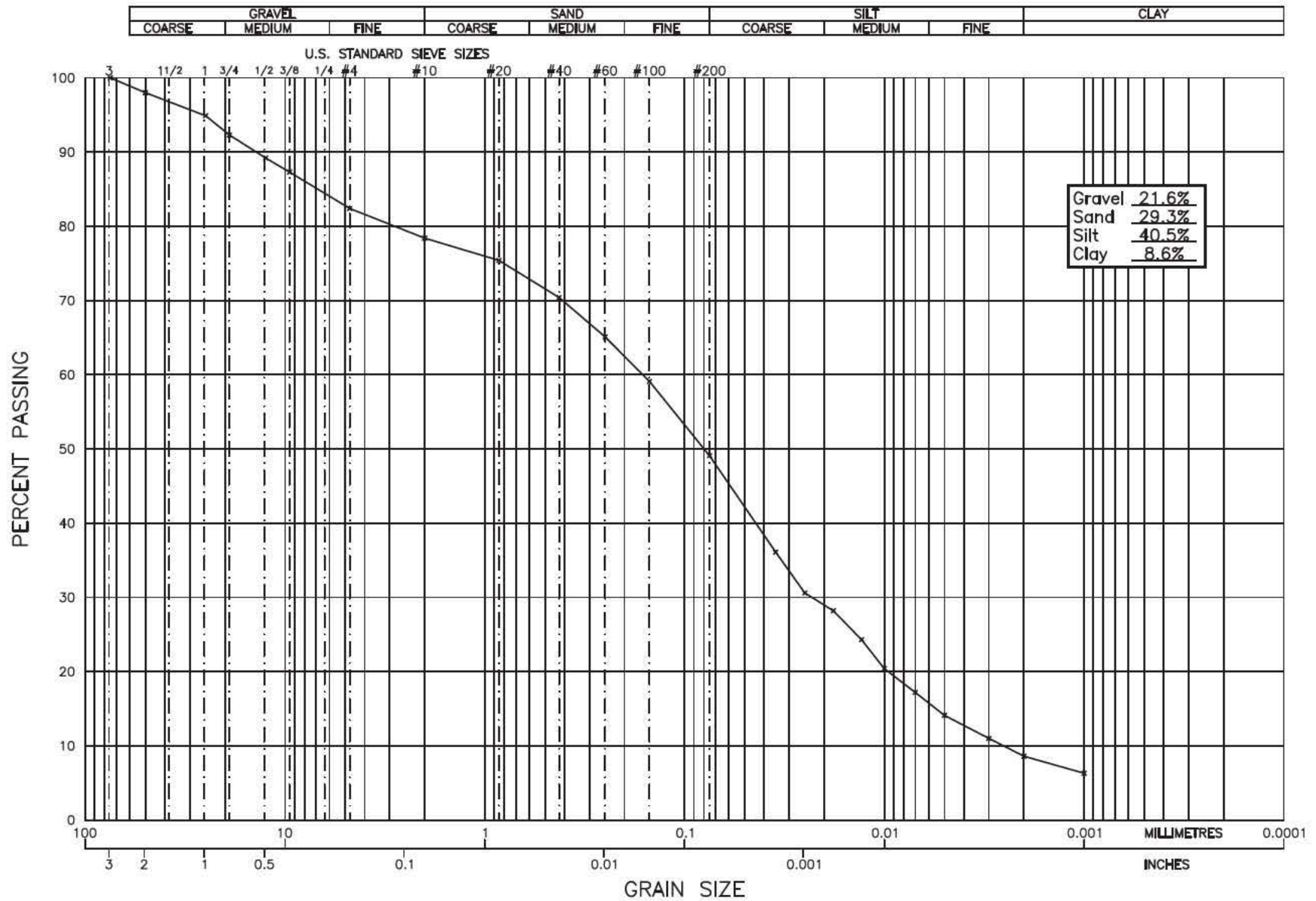
GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF C-S6B-ZS-02-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B3



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM – STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF C-S6B-ZS-02-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C8

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 18 DATE RECEIVED 2010.Apr.09 DATE TESTED 2010.Apr.13 DATE SAMPLED 2010.Apr.07

SUPPLIER

SOURCE C-S6B-ZS-03-2010

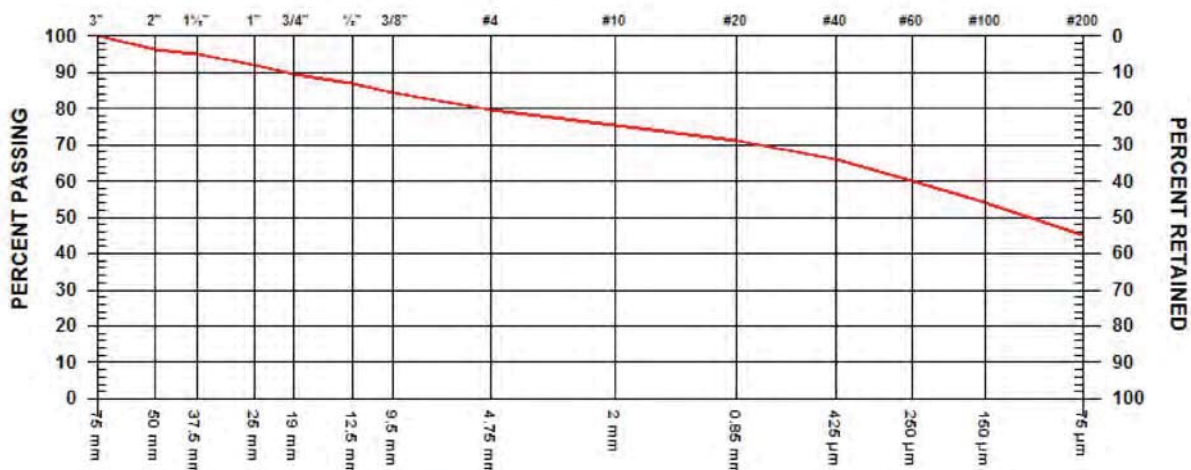
SPECIFICATION

MATERIAL TYPE TILL

SAMPLED BY MS-Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	96.3	
1 1/2"	37.5	mm	95.0	
1"	25	mm	91.9	
3/4"	19	mm	89.6	
1/2"	12.5	mm	86.7	
3/8"	9.5	mm	84.4	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	79.6	
No. 10	2.00	mm	75.4	
No. 20	850	µm	70.9	
No. 40	425	µm	65.9	
No. 60	250	µm	60.0	
No. 100	150	µm	54.0	
No. 200	75	µm	45.2	

COMMENTS

Re: Plate C9 and B4, Proctor #7

Re: Location: PE Borrow, Elevation: Bottom of Grey Till

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 18 DATE RECEIVED 2010.Apr.09 DATE TESTED 2010.Apr.13 DATE SAMPLED 2010.Apr.07

SUPPLIER

SOURCE C-S6B-ZS-03-2010

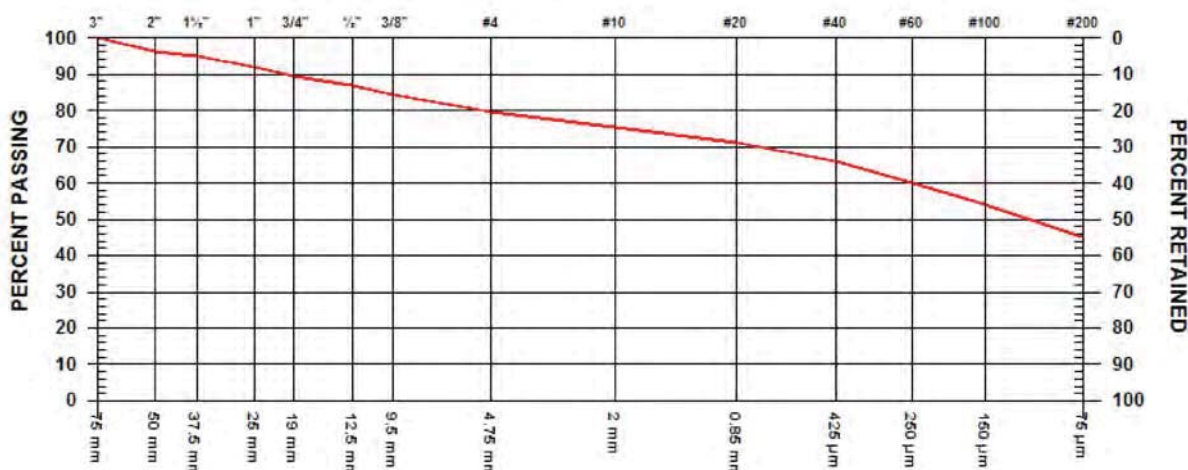
SPECIFICATION

MATERIAL TYPE TILL

SAMPLED BY MS-Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	96.3	
1 1/2"	37.5	mm	95.0	
1"	25	mm	91.9	
3/4"	19	mm	89.6	
1/2"	12.5	mm	86.7	
3/8"	9.5	mm	84.4	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	79.6	
No. 10	2.00	mm	75.4	
No. 20	850	µm	70.9	
No. 40	425	µm	65.9	
No. 60	250	µm	60.0	
No. 100	150	µm	54.0	
No. 200	75	µm	45.2	

COMMENTS

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 18 DATE RECEIVED 2010.Apr.09 DATE TESTED 2010.Apr.13 DATE SAMPLED 2010.Apr.07

SUPPLIER

SOURCE C-S6B-ZS-03-2010

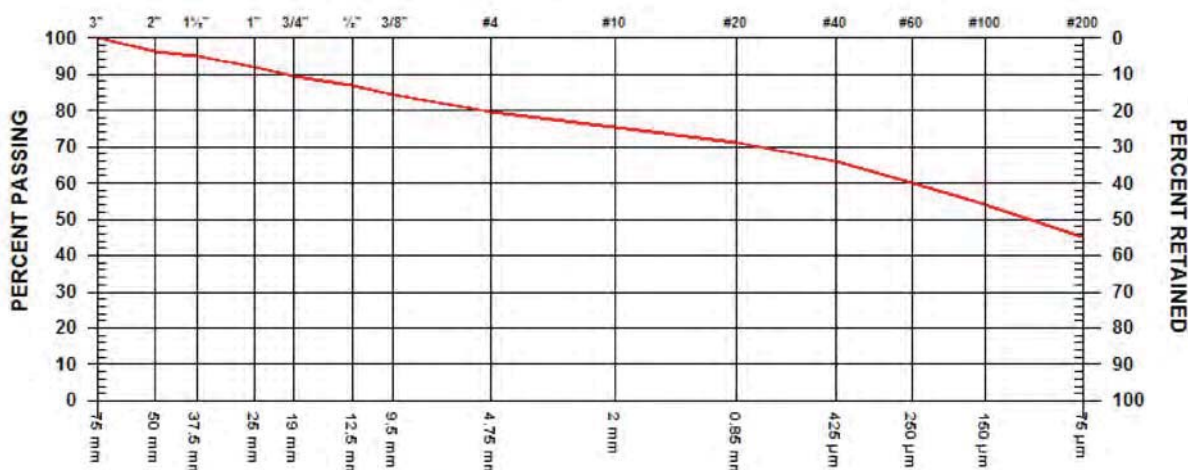
SPECIFICATION

MATERIAL TYPE TILL

SAMPLED BY MS-Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75 mm		100.0	
2"	50 mm		96.3	
1 1/2"	37.5 mm		95.0	
1"	25 mm		91.9	
3/4"	19 mm		89.6	
1/2"	12.5 mm		86.7	
3/8"	9.5 mm		84.4	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm		79.6	
No. 10	2.00 mm		75.4	
No. 20	850 µm		70.9	
No. 40	425 µm		65.9	
No. 60	250 µm		60.0	
No. 100	150 µm		54.0	
No. 200	75 µm		45.2	

COMMENTS

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

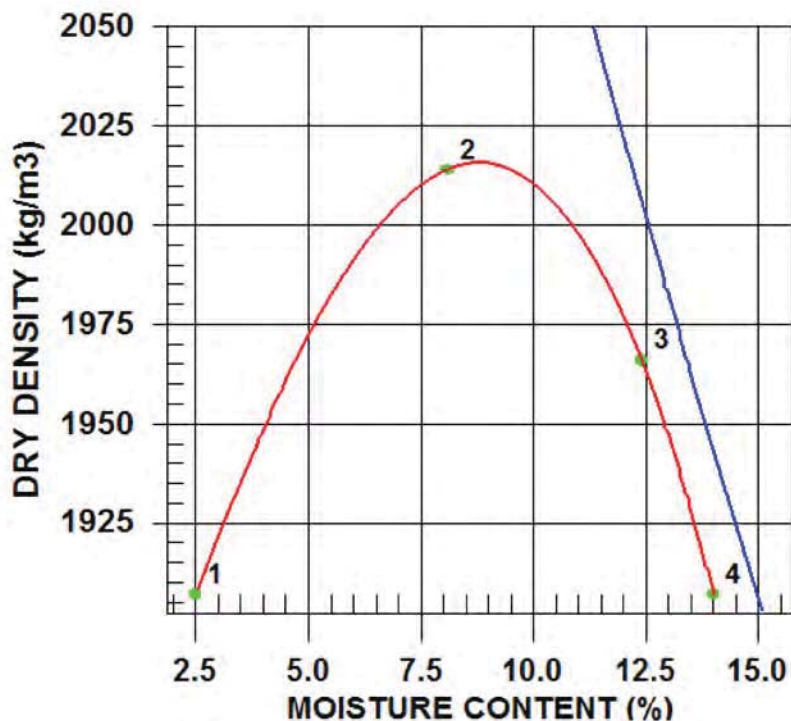
CONTRACTOR

PROCTOR NO. 7

DATE TESTED 2010.Apr.13 DATE RECEIVED 2010.Apr.09 DATE SAMPLED 2010.Apr.07

INSITU MOISTURE N/A %
SAMPLED BY MS - Client
TESTED BY SR/EM
SUPPLIER
SOURCE C-S6B-ZS-03-2010
MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 50MM
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 20.0 %
OVERSIZE SPECIFIC GRAVITY 2.67
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1955	1907	2.5
2	2177	2014	8.1
3	2210	1966	12.4
4	2174	1907	14.0

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.67	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2020	9.0
OVERSIZE CORRECTED	2120	7.5

COMMENTS

FINE SG = 2.682 / COARSE SG = 2.671

Re: Plate C9 and B4, Sieve #18

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

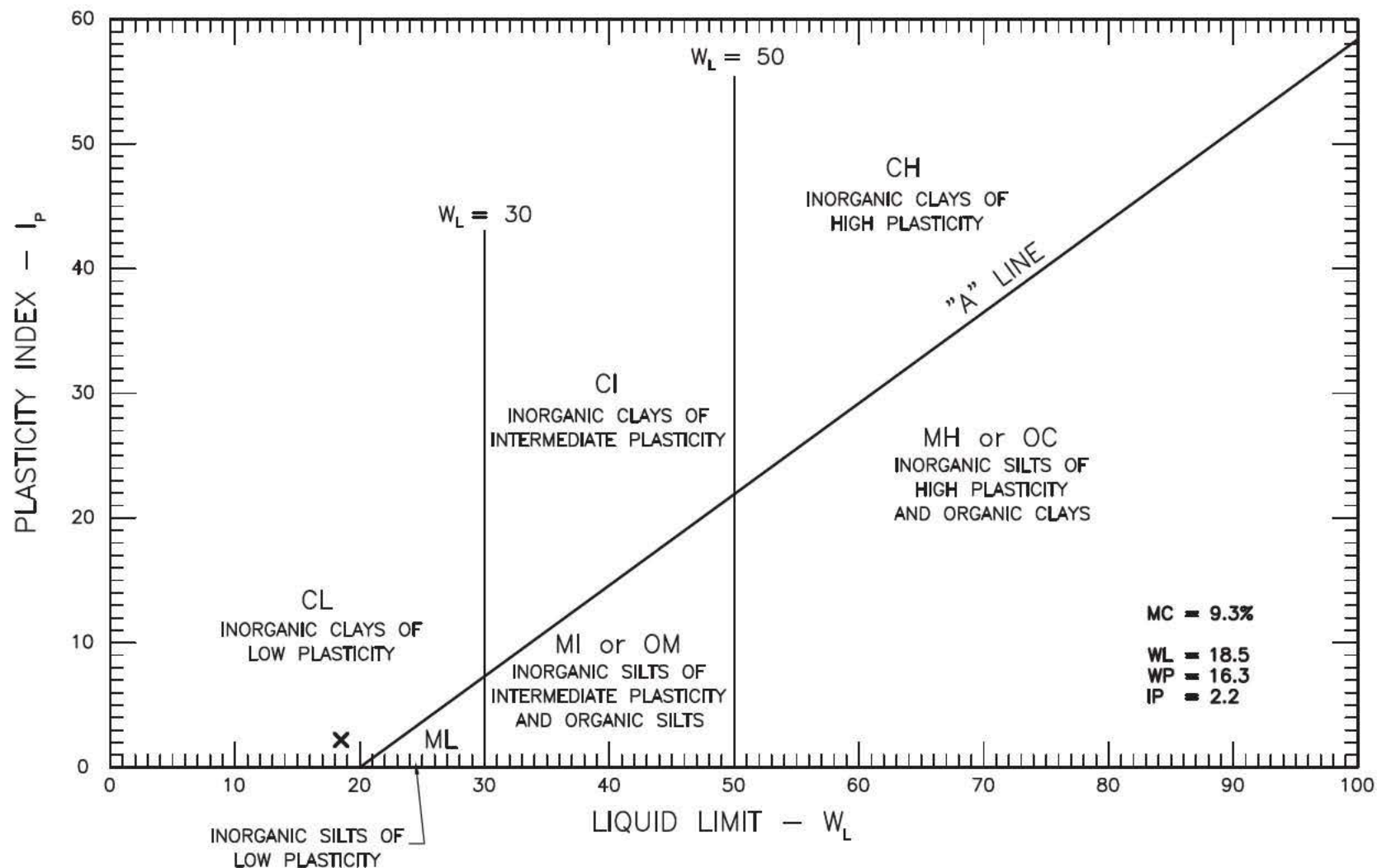
Client: Mount Polley Mining Corp.							Date: April 15, 2010				
Project Name: Mount Polley Construction Progra Stage 6B							Project #: K-2937				
Source/Location: C-S6B-ZS-03-2010							Type: Till				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: Deb				Checked By: Nancy			
Date Sampled: 04/07/10				Date Received: 04/09/10				Date Tested: 04/13/10			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	75.4
Wet Wt. & Tare	627.2	25.4				20	2.9	47.1	94.2	71.0
Dry Wt. & Tare	589.7	19.0				40	3.4	43.7	87.4	65.9
Water Wt.	37.5	12.5				60	4.0	39.7	79.4	59.9
Tare Wt.	181.5	9.5				100	4.3	35.4	70.8	53.4
Wt. Of Dry Soil	408.2	4.75	RE: SIEVE TEST #18			200	5.8	29.6	59.2	44.6
Moisture Content %	9.2	10	PLATE No. C9			Pan	29.6			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100 x Wet Soil Wt.) / (100 + Initial Moisture) =		Total	408.2			Unwashed Wt. =				
						Tare		Wt. Passing #200 = _____		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N* (%-#10)
50.0	0.754	0.5	37.0	18.0	0.01399	29.0	11.5	4.798	0.067	58.0	43.7
50.0	0.754	1	32.5	18.0	0.01399	24.5	12.3	3.500	0.049	49.0	36.9
50.0	0.754	2	30.0	18.0	0.01399	22.0	12.7	2.516	0.035	44.0	33.2
50.0	0.754	4	29.0	18.0	0.01399	21.0	12.8	1.791	0.025	42.0	31.7
50.0	0.754	8	26.0	18.0	0.01399	18.0	13.3	1.291	0.018	36.0	27.1
50.0	0.754	15	24.0	18.0	0.01399	16.0	13.7	0.954	0.013	32.0	24.1
50.0	0.754	30	21.0	18.0	0.01399	13.0	14.2	0.687	0.010	26.0	19.6
50.0	0.754	60	18.5	19.0	0.01382	10.5	14.6	0.493	0.007	21.0	15.8
50.0	0.754	120	17.0	19.0	0.01382	9.0	14.8	0.351	0.005	18.0	13.6
50.0	0.754	240	14.5	19.0	0.01382	6.5	15.2	0.252	0.003	13.0	9.8
50.0	0.754	480	13.0	20.0	0.01365	5.0	15.5	0.180	0.002	10.0	7.5
50.0	0.754	1440	13.0	20.0	0.01365	5.0	15.5	0.104	0.001	10.0	7.5

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO



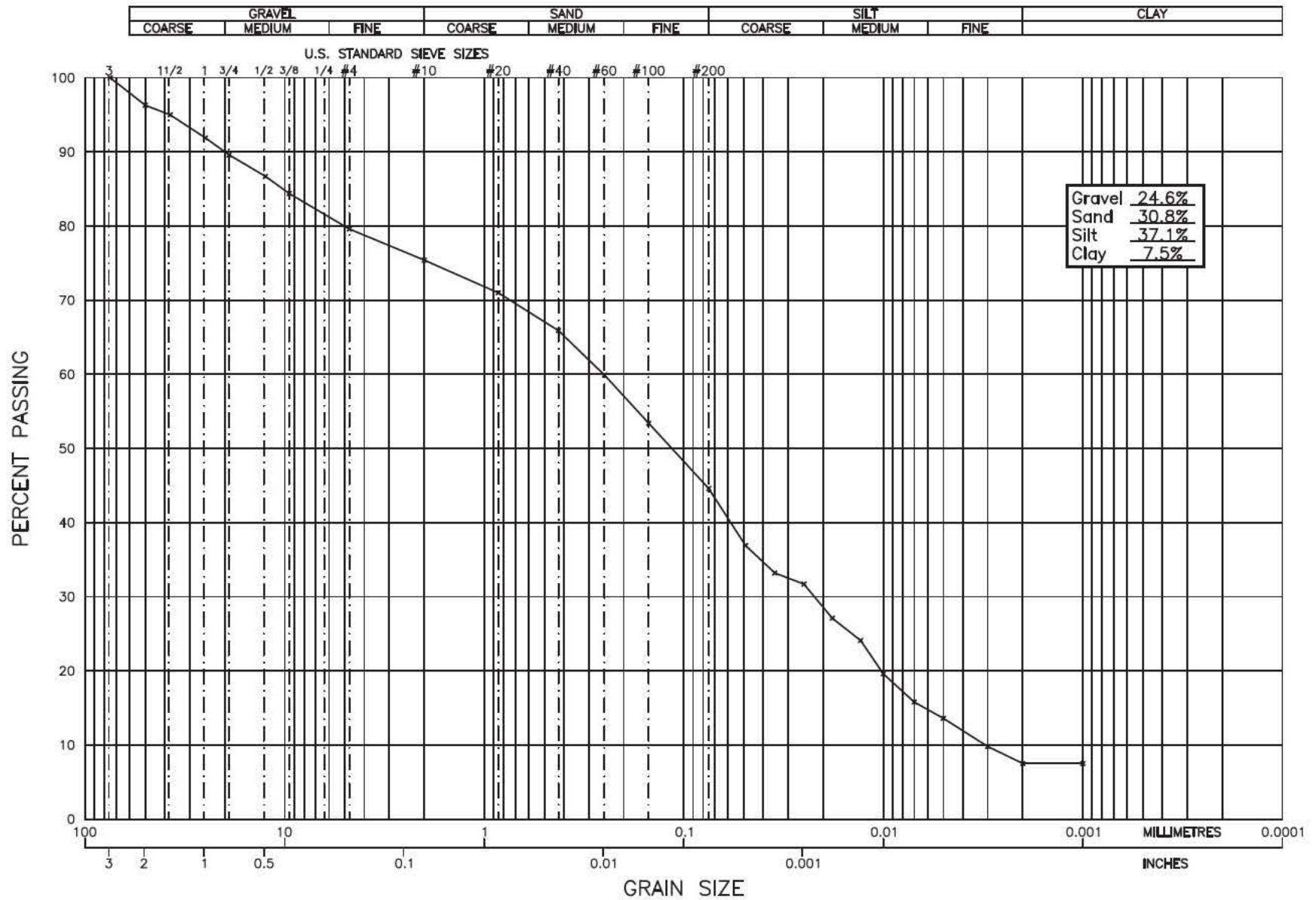
GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF C-S6B-ZS-03-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B4



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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF C-S6B-ZS-03-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C9

GeoNorth Engineering Ltd.

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SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 34 DATE RECEIVED 2010.Jun.01 DATE TESTED 2010.Jun.03 DATE SAMPLED 2010.May.27

SUPPLIER

SOURCE C-S6B-ZS-04-2010

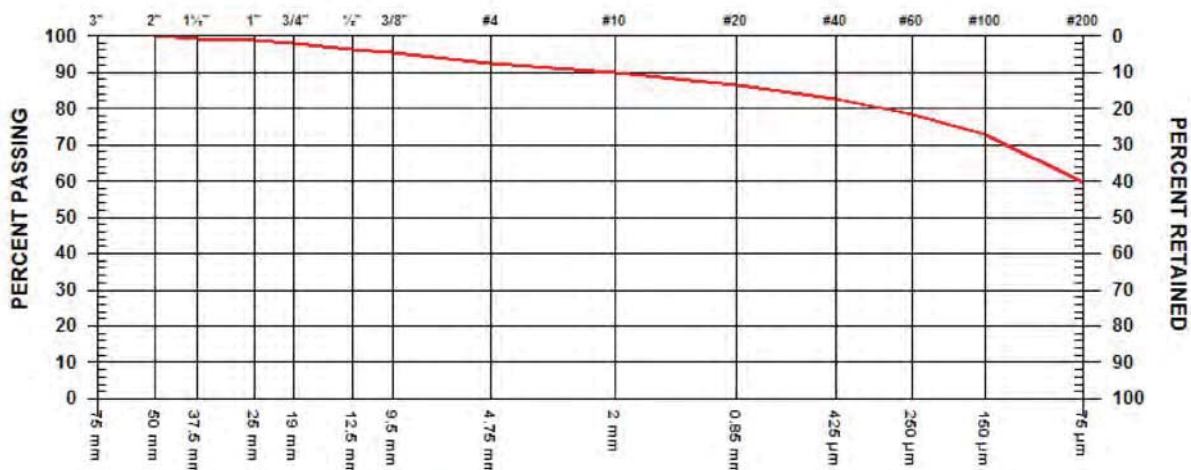
SPECIFICATION

MATERIAL TYPE TILL

SAMPLED BY CLIENT

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm		
3/4"	19	mm		
1/2"	12.5	mm		
3/8"	9.5	mm		

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	92.5	
No. 10	2.00	mm	89.9	
No. 20	850	µm	86.3	
No. 40	425	µm	82.8	
No. 60	250	µm	78.5	
No. 100	150	µm	72.8	
No. 200	75	µm	59.7	

COMMENTS

Location: PE Borrow

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

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MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 9

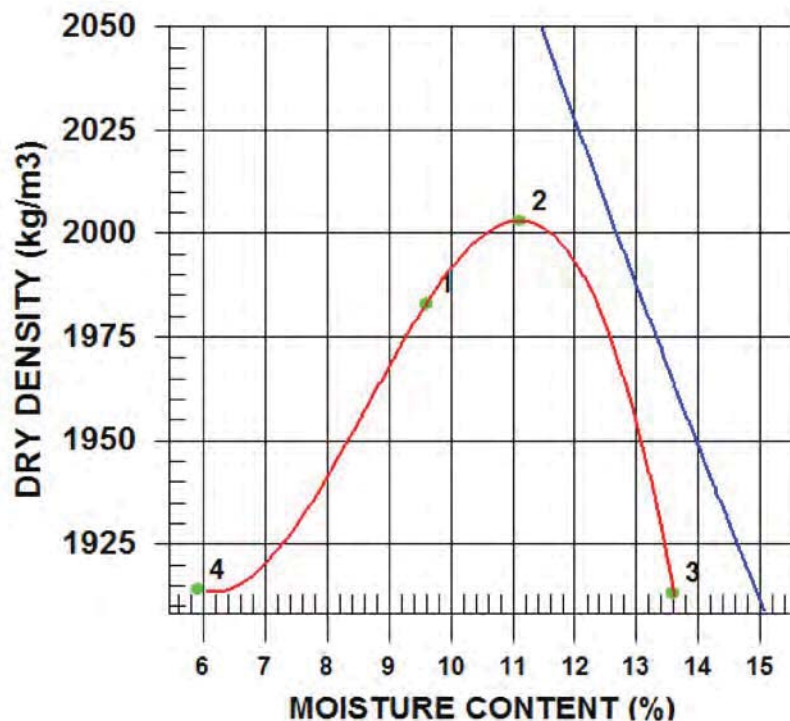
DATE TESTED 2010.Jun.03 DATE RECEIVED 2010.Jun.01 DATE SAMPLED 2010.May.27

INSITU MOISTURE N/A %
SAMPLED BY CLIENT
TESTED BY JM

SUPPLIER
SOURCE C-S6B-ZS-04-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 37mm
DESCRIPTION
ROCK TYPE

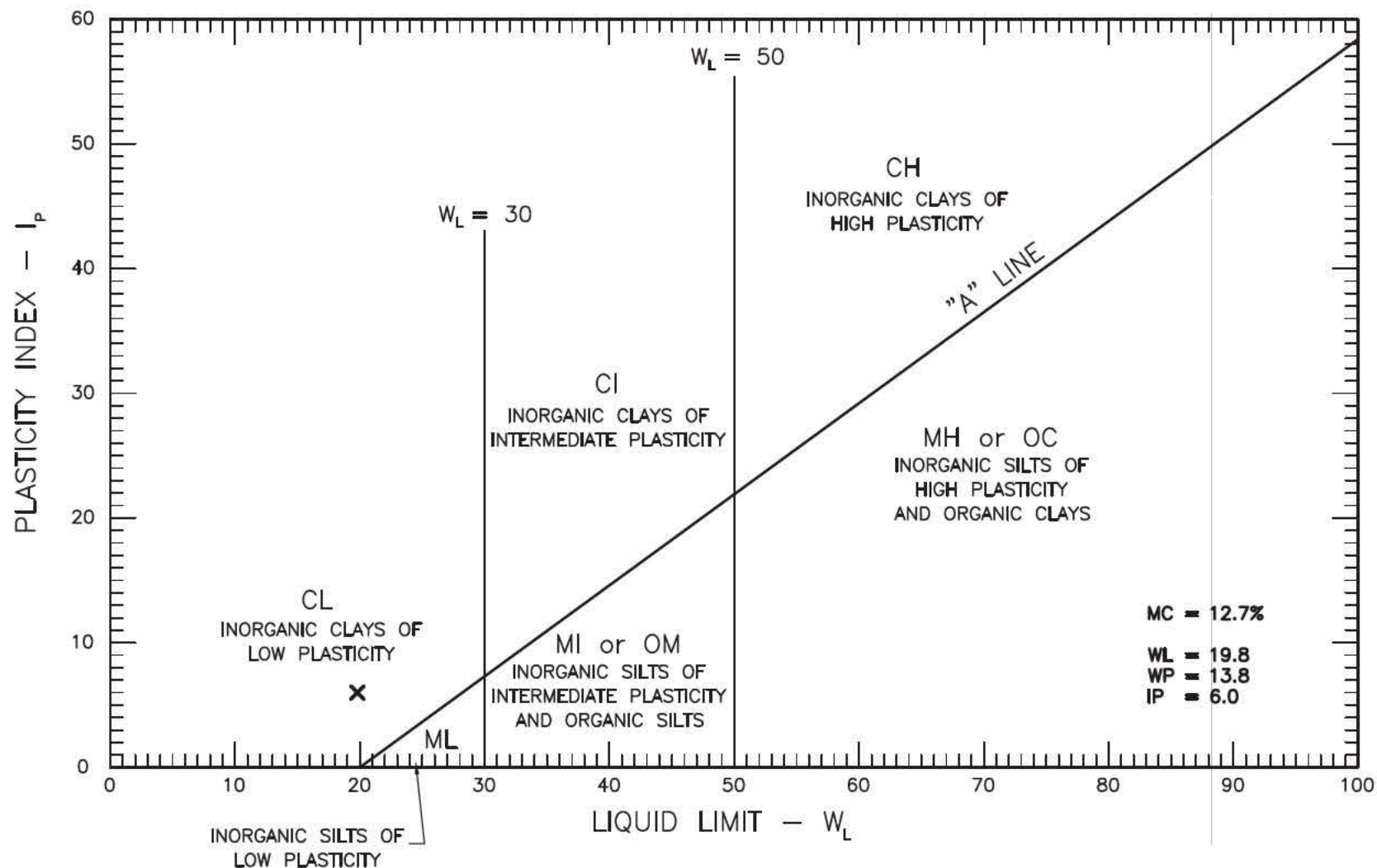
COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 7.0 %
OVERSIZE SPECIFIC GRAVITY 2.68
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2173	1983	9.6
2	2225	2003	11.1
3	2173	1913	13.6
4	2027	1914	5.9

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.68	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2000	11.0
OVERSIZE CORRECTED	2040	10.5

COMMENTS



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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF C-S6B-ZS-04-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B5

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

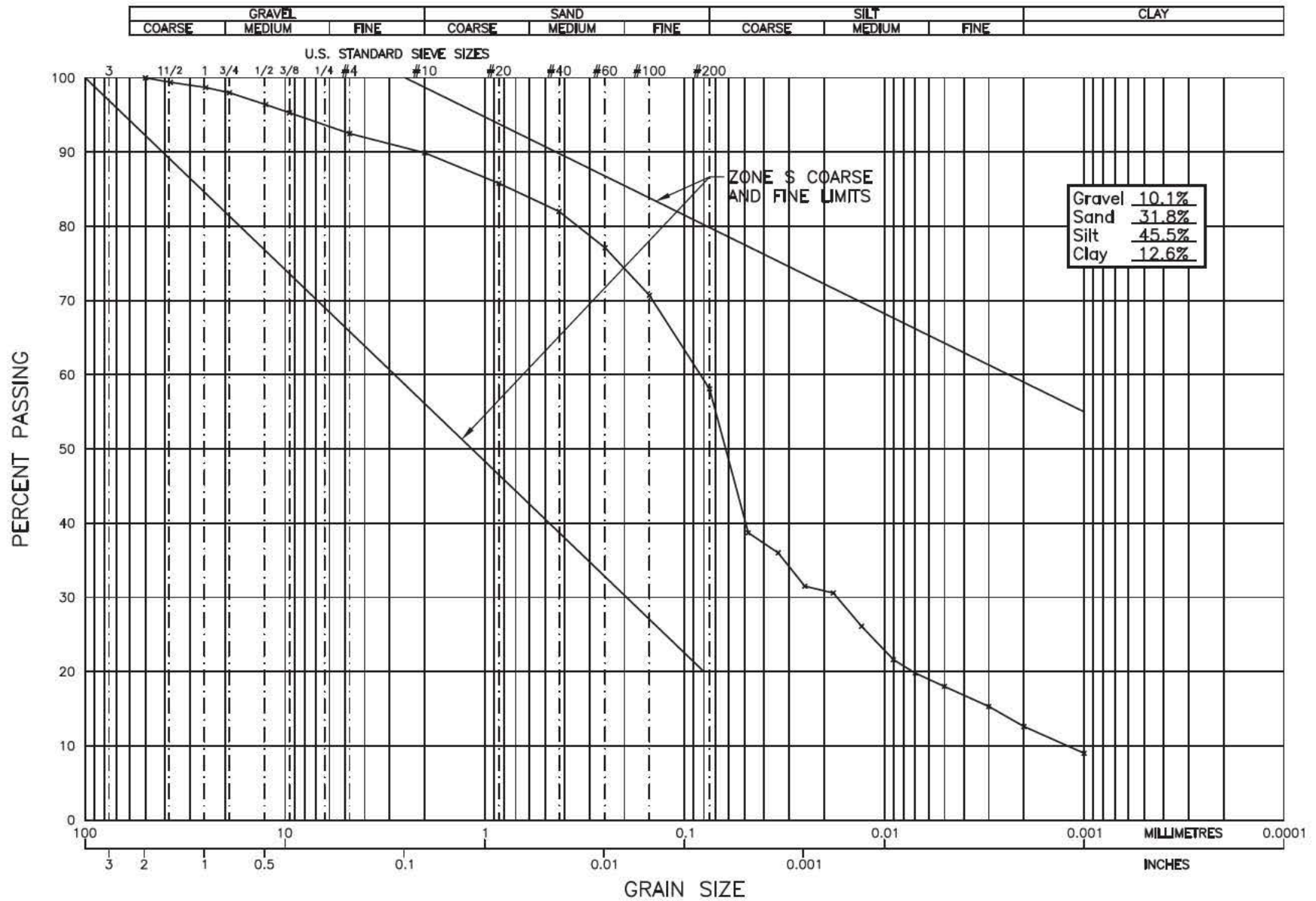
Client: Mount Polley Mining Corporation							Date: June 3,2010				
Project Name: MPCP Stage 6B							Project #: K-2937				
Source/Location: C-S6B-ZS-04-2010							Type: Till				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: DJ				Checked By:			
Date Sampled: May 27,2010				Date Received: June 1,2010				Date Tested: June 2,2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	89.9
Wet Wt. & Tare	1043.3	25.4				20	2.3	47.7	95.4	85.8
Dry Wt. & Tare	945.9	19.0				40	2.1	45.6	91.2	82.0
Water Wt.	97.4	12.5				60	2.7	42.9	85.8	77.1
Tare Wt.	179.9	9.5	See Sieve Test No.34			100	3.6	39.3	78.6	70.7
Wt. Of Dry Soil	766.0	4.75				200	7.0	32.3	64.6	58.1
Moisture Content %	12.7	10			89.9	Pan	32.3			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100xWet Soil Wt.)/(100 + Initial Moisture) =		Total	766.0			Unwashed Wt.=				
						Tare		Wt. Passing #200 = _____		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.899	0.5	34.0	21.0	0.01348	26.0	12.0	4.900	0.066	52.0	46.7
50.0	0.899	1	29.5	21.0	0.01348	21.5	12.7	3.570	0.048	43.0	38.7
50.0	0.899	2	28.0	21.0	0.01348	20.0	13.0	2.549	0.034	40.0	36.0
50.0	0.899	4	25.5	21.0	0.01348	17.5	13.4	1.831	0.025	35.0	31.5
50.0	0.899	8	25.0	21.0	0.01348	17.0	13.5	1.299	0.018	34.0	30.6
50.0	0.899	15	22.5	21.0	0.01348	14.5	13.9	0.963	0.013	29.0	26.1
50.0	0.899	30	20.0	21.0	0.01348	12.0	14.3	0.691	0.009	24.0	21.6
50.0	0.899	60	19.0	21.0	0.01348	11.0	14.5	0.491	0.007	22.0	19.8
50.0	0.899	120	18.0	21.0	0.01348	10.0	14.6	0.349	0.005	20.0	18.0
50.0	0.899	240	16.5	21.0	0.01348	8.5	14.9	0.249	0.003	17.0	15.3
50.0	0.899	480	15.0	21.0	0.01348	7.0	15.1	0.178	0.002	14.0	12.6
50.0	0.899	1440	13.0	20.0	0.01365	5.0	15.5	0.104	0.001	10.0	9.0

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO


GEO NORTH ENGINEERING LTD.

3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF C-S6B-ZS-04-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C15

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

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SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 35 DATE RECEIVED 2010.Jun.01 DATE TESTED 2010.Jun.03 DATE SAMPLED 2010.May.27

SUPPLIER

SOURCE C-S6B-ZS-05-2010

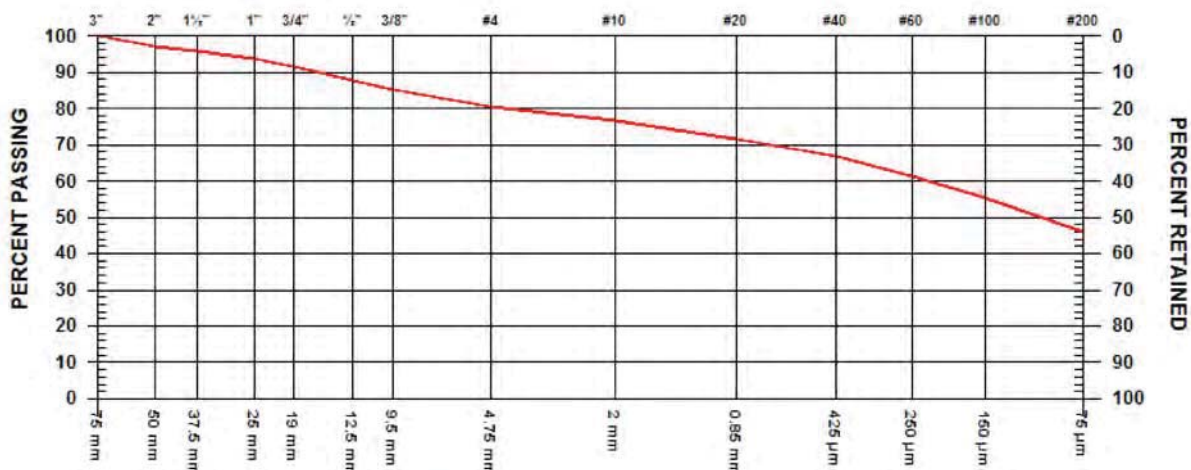
SPECIFICATION

MATERIAL TYPE TILL

SAMPLED BY CLIENT

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	96.9	
1 1/2"	37.5	mm	96.0	
1"	25	mm	93.7	
3/4"	19	mm	91.4	
1/2"	12.5	mm	87.8	
3/8"	9.5	mm	85.3	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	80.4	
No. 10	2.00	mm	76.6	
No. 20	850	µm	71.7	
No. 40	425	µm	66.8	
No. 60	250	µm	61.4	
No. 100	150	µm	55.4	
No. 200	75	µm	45.8	

COMMENTS

Location:PE Borrow

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corporation							Date: June 3,2010				
Project Name: MPCP Stage 6B							Project #: K-2937				
Source/Location: C-S6B-ZS-05-2010							Type: Till				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: DJ				Checked By:			
Date Sampled: May 27,2010				Date Received: June 1,2010				Date Tested: June 2,2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	76.6
Wet Wt. & Tare	1052.7	25.4				20	2.2	47.8	95.6	73.2
Dry Wt. & Tare	954.6	19.0				40	3.1	44.7	89.4	68.5
Water Wt.	98.1	12.5				60	3.5	41.2	82.4	63.1
Tare Wt.	179.4	9.5	See Sieve Test No.35			100	4.1	37.1	74.2	56.8
Wt. Of Dry Soil	775.2	4.75				200	5.6	31.5	63.0	48.3
Moisture Content %	12.7	10			76.6	Pan	31.5			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100xWet Soil Wt.)/(100 + Initial Moisture) =		Total	775.2			Unwashed Wt.=				
						Tare		Wt. Passing #200 = _____		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.766	0.5	35.0	21.0	0.01328	27.0	11.8	4.866	0.065	54.0	41.4
50.0	0.766	1	31.0	21.0	0.01328	23.0	12.5	3.536	0.047	46.0	35.2
50.0	0.766	2	30.0	21.0	0.01328	22.0	12.7	2.516	0.033	44.0	33.7
50.0	0.766	4	28.0	21.0	0.01328	20.0	13.0	1.802	0.024	40.0	30.6
50.0	0.766	8	26.0	21.0	0.01328	18.0	13.3	1.291	0.017	36.0	27.6
50.0	0.766	15	24.0	21.0	0.01328	16.0	13.7	0.954	0.013	32.0	24.5
50.0	0.766	30	22.5	21.0	0.01328	14.5	13.9	0.681	0.009	29.0	22.2
50.0	0.766	60	20.0	21.0	0.01328	12.0	14.3	0.488	0.006	24.0	18.4
50.0	0.766	120	19.5	21.0	0.01328	11.5	14.4	0.346	0.005	23.0	17.6
50.0	0.766	240	19.0	21.0	0.01328	11.0	14.5	0.246	0.003	22.0	16.9
50.0	0.766	480	17.0	21.0	0.01328	9.0	14.8	0.176	0.002	18.0	13.8
50.0	0.766	1440	14.0	20.0	0.01344	6.0	15.3	0.103	0.001	12.0	9.2

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 10

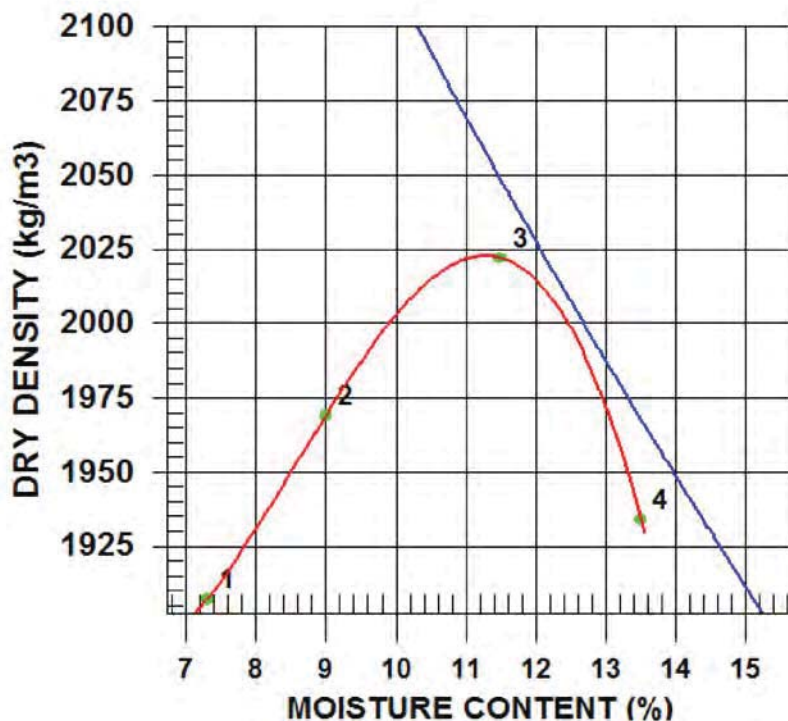
DATE TESTED 2010.Jun.03 DATE RECEIVED 2010.Jun.01 DATE SAMPLED 2010.May.27

INSITU MOISTURE N/A %
SAMPLED BY CLIENT
TESTED BY JM

SUPPLIER
SOURCE C-S6B-ZS-04-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 50mm
DESCRIPTION
ROCK TYPE

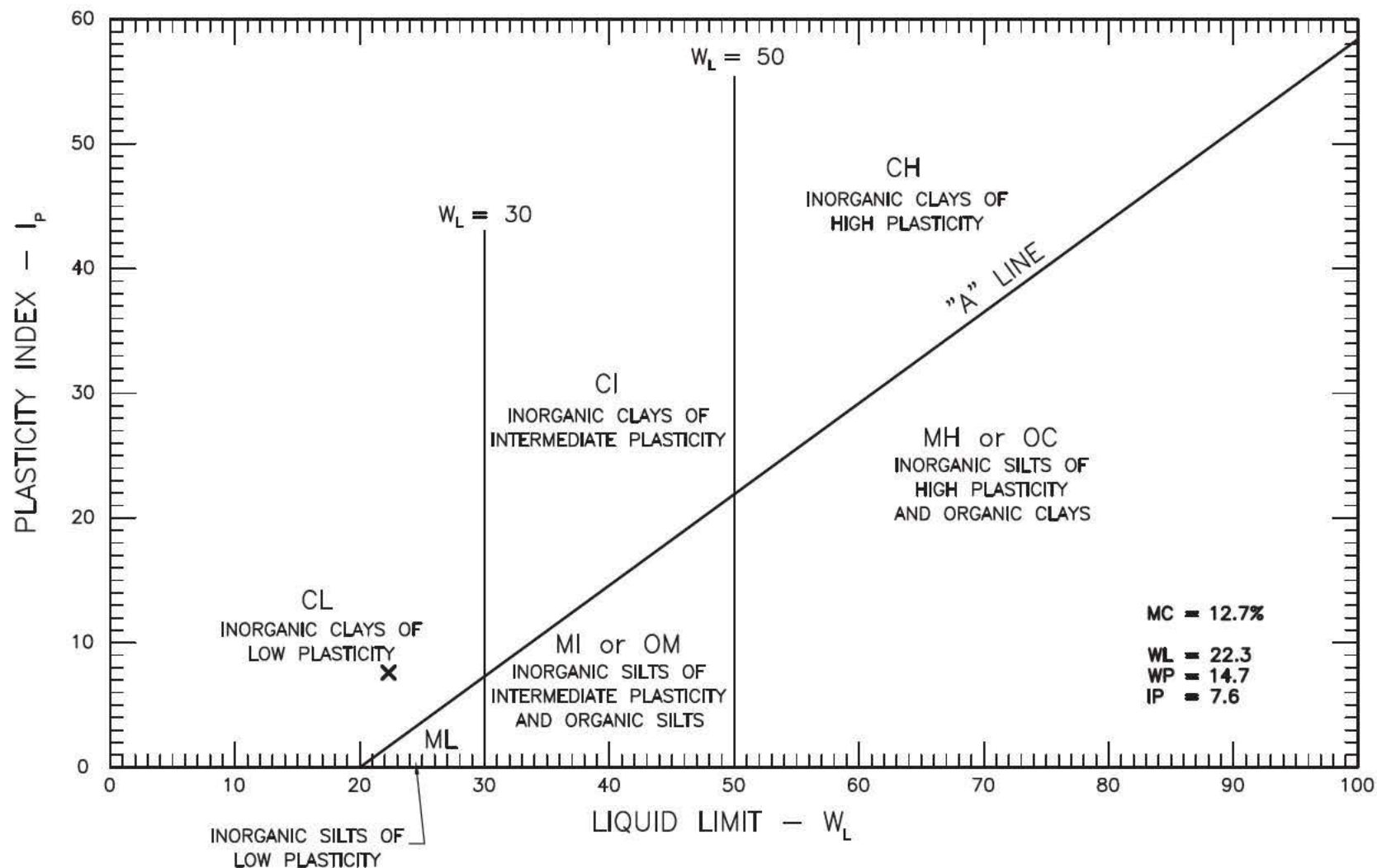
COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 18.6 %
OVERSIZE SPECIFIC GRAVITY 2.68
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2046	1907	7.3
2	2146	1969	9.0
3	2254	2022	11.5
4	2195	1934	13.5

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.68	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2020	11.5
OVERSIZE CORRECTED	2120	9.5

COMMENTS



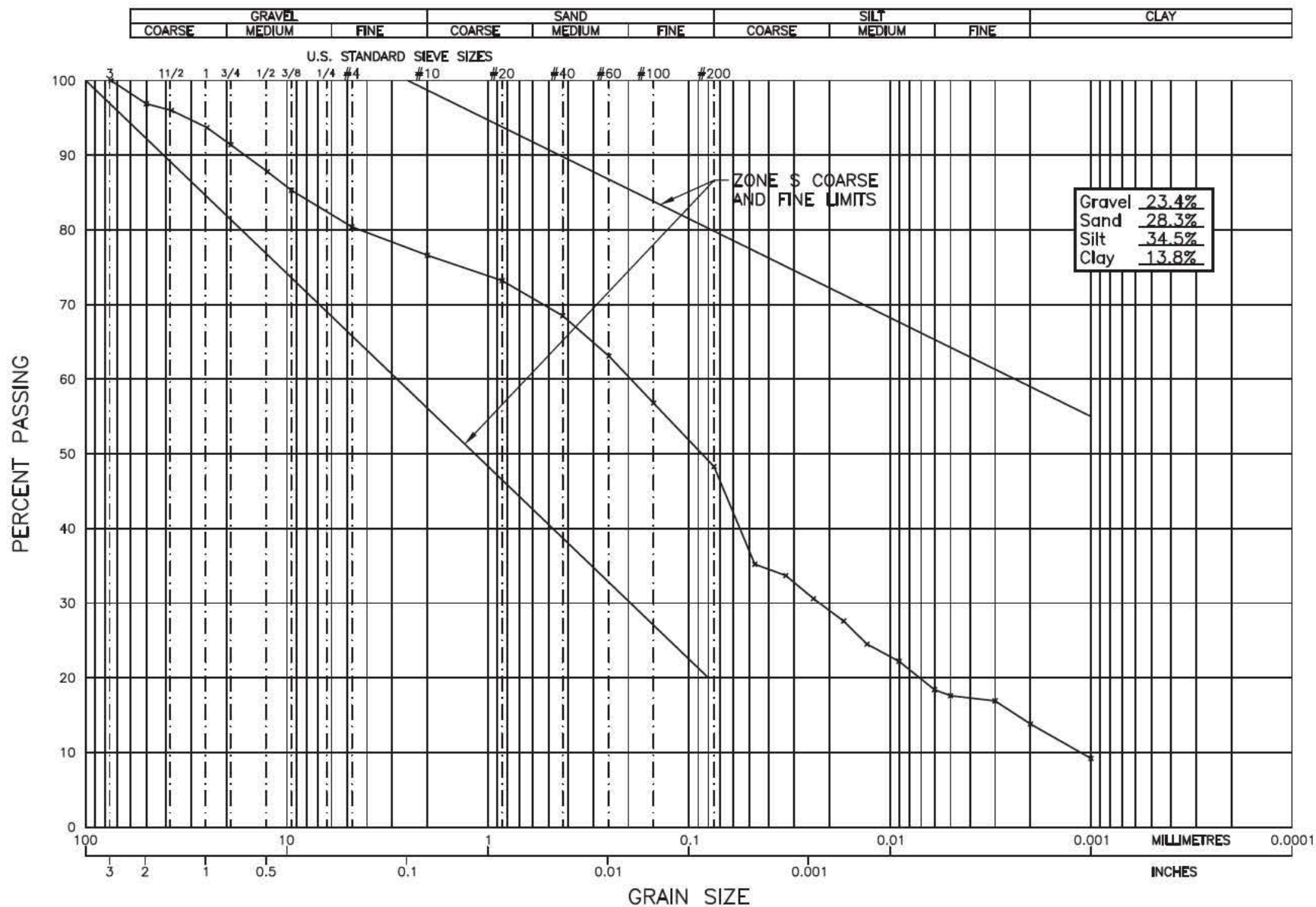
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Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF C-S6B-ZS-05-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B6



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF C-S6B-ZS-05-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C16

APPENDIX A2

ZONE S RECORD

(Pages A2-1 to A2-62)

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Les Galbraith @ 604-685-0147

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 3 DATE RECEIVED 2009.Dec.15 DATE TESTED 2009.Dec.16 DATE SAMPLED 2009.Dec.10

SUPPLIER

SOURCE CH 6+25, SE

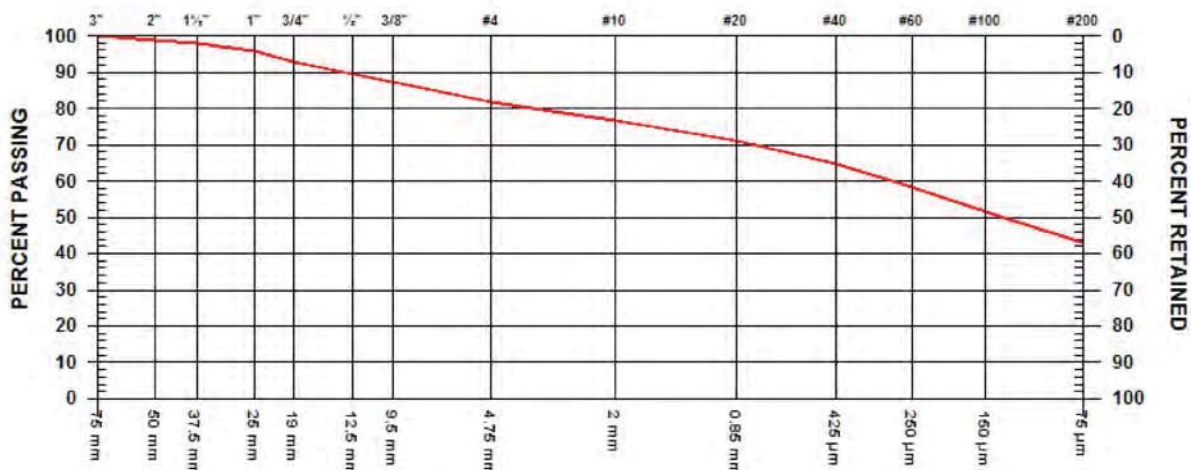
SPECIFICATION

MATERIAL TYPE TILL

SAMPLED BY CLIENT

TESTED BY RO

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	98.9	
1 1/2"	37.5	mm	98.0	
1"	25	mm	95.6	
3/4"	19	mm	93.0	
1/2"	12.5	mm	89.4	
3/8"	9.5	mm	87.3	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	81.8	
No. 10	2.00	mm	76.7	
No. 20	850	µm	71.0	
No. 40	425	µm	64.9	
No. 60	250	µm	58.2	
No. 100	150	µm	51.7	
No. 200	75	µm	42.8	

COMMENTS

RE: Plate No. 2937-B1

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polly Mining Corporation						Date: December 18, 2009					
Project Name: MPCP - Stage 6B				Re: Plate No. 2937-B1 (grain size analysis)				Project #: K-2937			
Source/Location: CH 6+25, SE				Re: Washed Sieve Test No. 3				Type: Till			
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: SR				Checked By: NK			
Date Sampled: 12/10/2009				Date Received: 12/15/2009				Date Tested: 12/17/2009			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	76.7
Wet Wt. & Tare		25.4				20	3.4	46.6	93.2	71.5
Dry Wt. & Tare		19.0				40	4.1	42.5	85.0	65.2
Water Wt.		12.5				60	4.6	37.9	75.8	58.1
Tare Wt.		9.5				100	4.4	33.5	67.0	51.4
Wt. Of Dry Soil		4.75				200	5.8	27.7	55.4	42.5
Moisture Content %	9.3	10	SEE WASHED SIEVE			Pan	27.7			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
$= (100 \times \text{Wet Soil Wt.}) / (100 + \text{Initial Moisture}) =$		Total				Unwashed Wt.=				
						Tare		Wt. Passing #200 =		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(% - #10)
50.0	0.767	0.5	35.0	20.0	0.01365	27.0	11.8	4.866	0.066	54.0	41.4
50.0	0.767	1	32.0	20.0	0.01365	24.0	12.3	3.512	0.048	48.0	36.8
50.0	0.767	2	30.0	20.0	0.01365	22.0	12.7	2.516	0.034	44.0	33.7
50.0	0.767	4	27.5	20.0	0.01365	19.5	13.1	1.808	0.025	39.0	29.9
50.0	0.767	8	25.5	20.0	0.01365	17.5	13.4	1.295	0.018	35.0	26.8
50.0	0.767	15	22.0	20.0	0.01365	14.0	14.0	0.966	0.013	28.0	21.5
50.0	0.767	30	20.0	20.0	0.01365	12.0	14.3	0.691	0.009	24.0	18.4
50.0	0.767	60	17.5	20.0	0.01365	9.5	14.7	0.495	0.007	19.0	14.6
50.0	0.767	120	16.0	20.0	0.01365	8.0	15.0	0.353	0.005	16.0	12.3
50.0	0.767	240	14.0	20.0	0.01365	6.0	15.3	0.253	0.003	12.0	9.2
50.0	0.767	480	13.0	20.0	0.01365	5.0	15.5	0.180	0.002	10.0	7.7
50.0	0.767	1440	13.0	19.0	0.01382	5.0	15.5	0.104	0.001	10.0	7.7

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Les Galbraith @ 604-685-0147

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

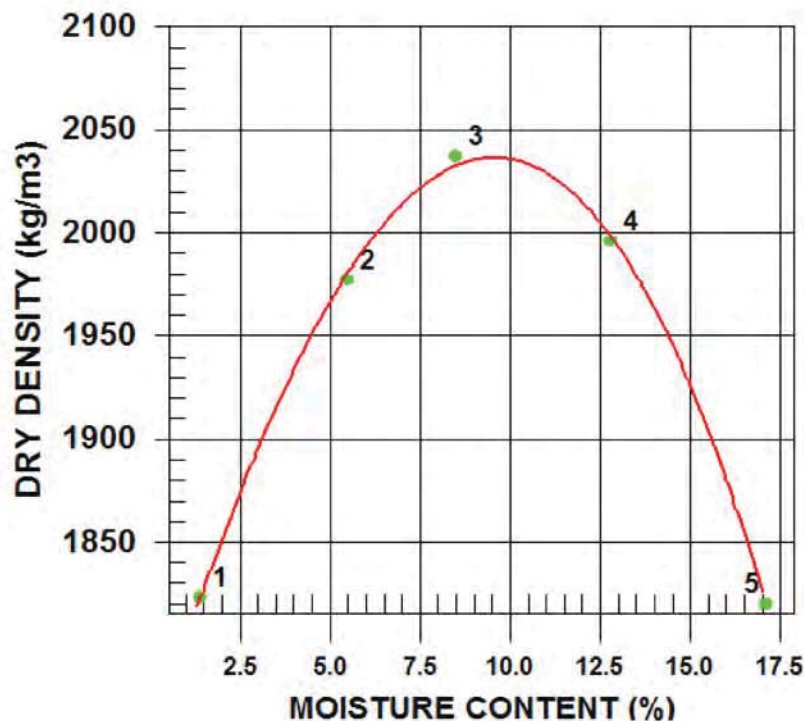
CONTRACTOR

PROCTOR NO. 1

DATE TESTED 2009.Dec.17 DATE RECEIVED 2009.Dec.15 DATE SAMPLED 2009.Dec.10

INSITU MOISTURE N/A %
SAMPLED BY CLIENT
TESTED BY RO
SUPPLIER
SOURCE CH 6+25, SE
MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 75MM
DESCRIPTION
ROCK TYPE

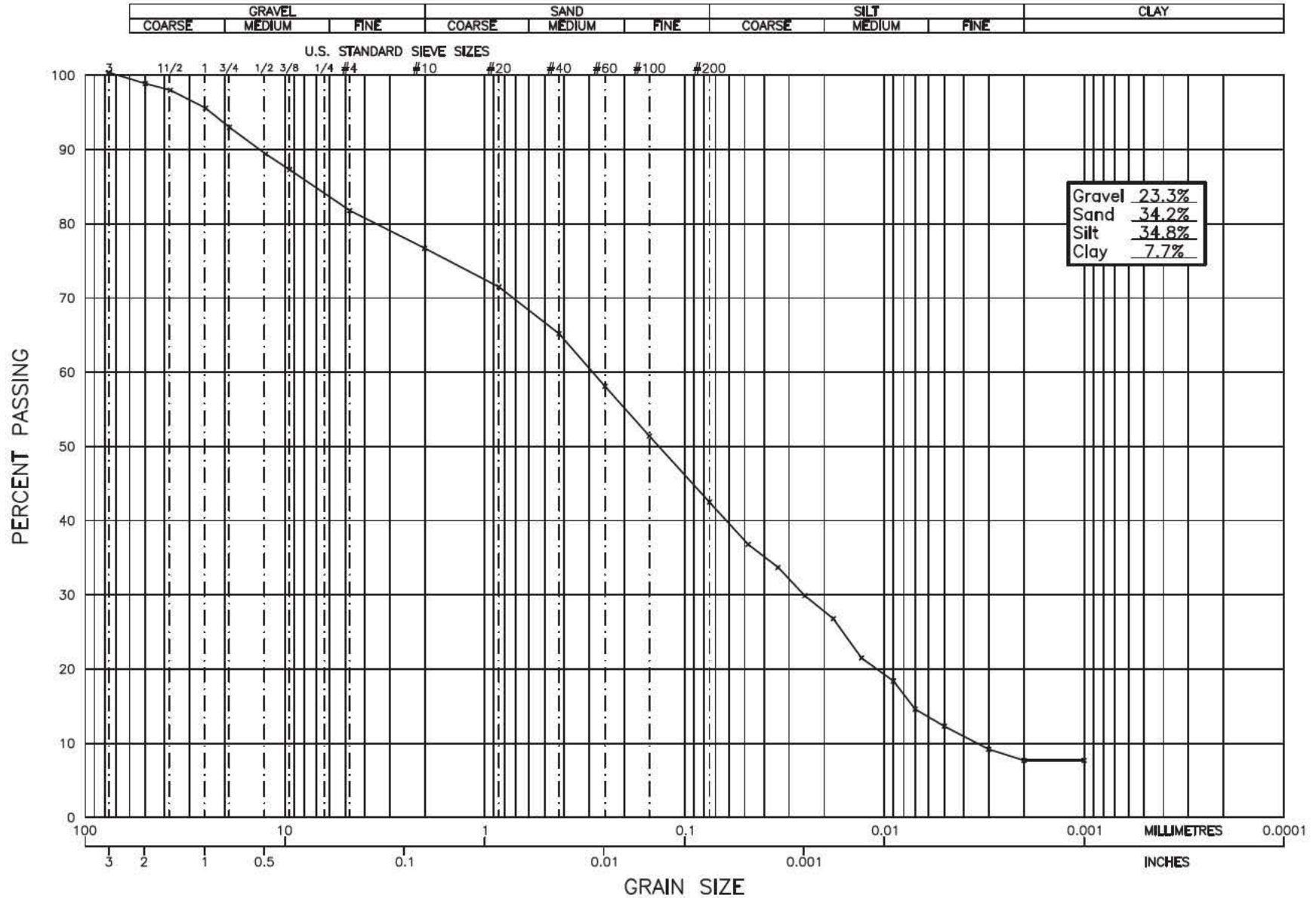
COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 18.0 %
OVERSIZE SPECIFIC GRAVITY 2.65
TOTAL NUMBER OF TRIALS 5



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1849	1823	1.4
2	2086	1977	5.5
3	2210	2037	8.5
4	2252	1996	12.8
5	2131	1820	17.1

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2040	9.5
OVERSIZE CORRECTED	2130	8.0

COMMENTS



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MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM
 STAGE 6B
 GRAIN SIZE ANALYSIS OF Ch 6+25, SE

PROJECT NO.
 K-2937
 PLATE NO.
 2937-B1

GeoNorth Engineering Ltd.

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SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ email

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 4 DATE RECEIVED 2010.Mar.03 DATE TESTED 2010.Mar.04 DATE SAMPLED 2010.Feb.27

SUPPLIER

SOURCE R-S6B-ZS-01-2010

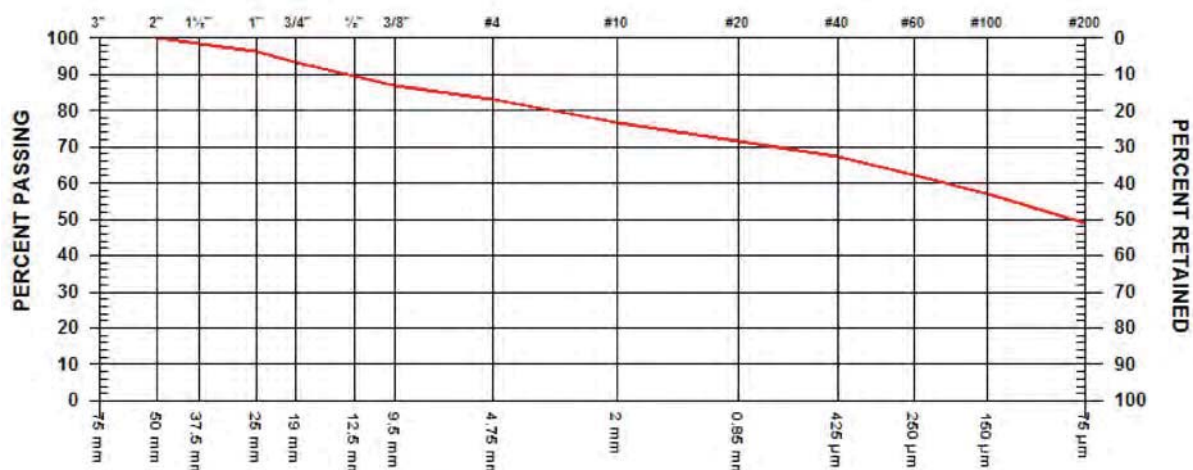
SPECIFICATION

MATERIAL TYPE TILL

SAMPLED BY CLIENT

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm	100.0	
1 1/2"	37.5	mm	98.5	
1"	25	mm	96.3	
3/4"	19	mm	93.2	
1/2"	12.5	mm	89.2	
3/8"	9.5	mm	86.9	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	82.9	
No. 10	2.00	mm	76.5	
No. 20	850	µm	71.5	
No. 40	425	µm	67.1	
No. 60	250	µm	62.3	
No. 100	150	µm	57.0	
No. 200	75	µm	48.8	

MOISTURE CONTENT 14.1%

COMMENTS

RE: PROCTOR REPORT No. 2 and PLATE No. 2937-C1

Location: PE, Chainage: 4050, Elevation:954.6, Offset: c/l to Zone S

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

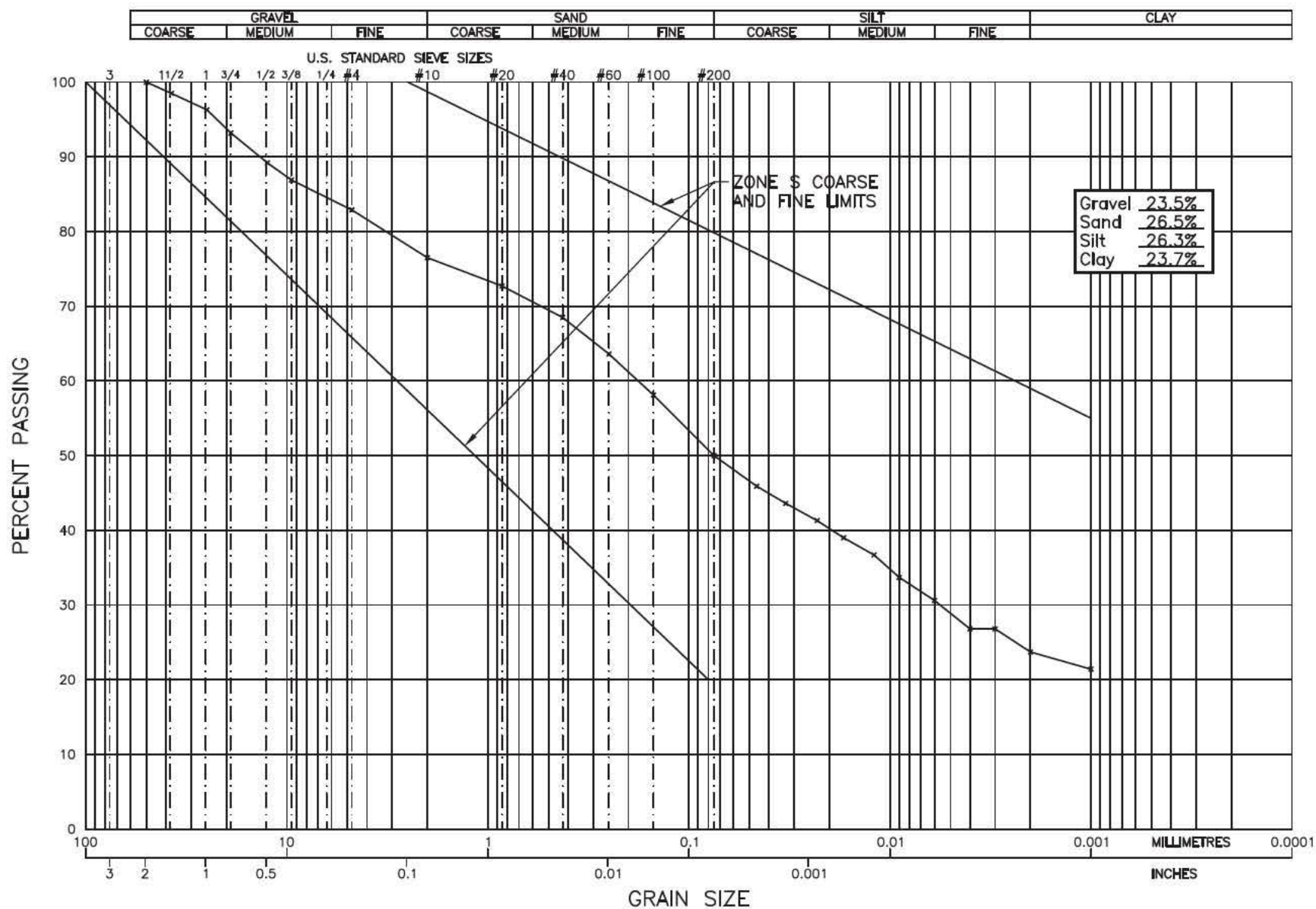
Client: Mount Polley Mining Corporation						Date: March 5, 2010					
Project Name: MPCP- Stage 6B						Project #: K-2937					
Source/Location: Mount Polley Mine, Likely B.C.						Type: TILL					
Sample #: R-S6B-ZS-01-2010		Location: PE		Chainage: 4050		Elevation: 954.6		Offset: c/l to Zone S			
Sampled By: Client				Tested By: DJ				Checked By: NK			
Date Sampled: 02/27/10				Date Received: 03/03/10				Date Tested: 03/04/10			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	76.5
Wet Wt. & Tare	987.1	25.4				20	2.5	47.5	95.0	72.7
Dry Wt. & Tare	887.6	19.0				40	2.7	44.8	89.6	68.5
Water Wt.	99.5	12.5				60	3.2	41.6	83.2	63.6
Tare Wt.	179.9	9.5				100	3.6	38.0	76.0	58.1
Wt. Of Dry Soil	707.7	4.75				200	5.3	32.7	65.4	50.0
Moisture Content %	14.1	10	SEE SIEVE REPORT #4			Pan	32.7			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
$= (100 \times \text{Wet Soil Wt.}) / (100 + \text{Initial Moisture}) =$		Total				Unwashed Wt.=				
						Tare		Wt. Passing #200 =		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.765	0.5	40.5	20.0	0.01365	32.5	10.9	4.676	0.064	65.0	49.7
50.0	0.765	1	38.0	20.0	0.01365	30.0	11.3	3.368	0.046	60.0	45.9
50.0	0.765	2	36.5	20.0	0.01365	28.5	11.6	2.408	0.033	57.0	43.6
50.0	0.765	4	35.0	20.0	0.01365	27.0	11.8	1.720	0.023	54.0	41.3
50.0	0.765	8	33.5	20.0	0.01365	25.5	12.1	1.229	0.017	51.0	39.0
50.0	0.765	15	32.0	20.0	0.01365	24.0	12.3	0.907	0.012	48.0	36.7
50.0	0.765	30	30.0	20.0	0.01365	22.0	12.7	0.650	0.009	44.0	33.7
50.0	0.765	60	27.5	22.0	0.01332	20.0	13.0	0.465	0.006	40.0	30.6
50.0	0.765	120	25.0	22.0	0.01332	17.5	13.4	0.334	0.004	35.0	26.8
50.0	0.765	240	25.0	22.0	0.01332	17.5	13.4	0.236	0.003	35.0	26.8
50.0	0.765	480	23.0	22.0	0.01332	15.5	13.7	0.169	0.002	31.0	23.7
50.0	0.765	1440	22.0	20.0	0.01365	14.0	14.0	0.099	0.001	28.0	21.4

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO


GEO NORTH ENGINEERING LTD.

 3975 18th Avenue
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 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM – STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZS-01-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C1

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ email

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

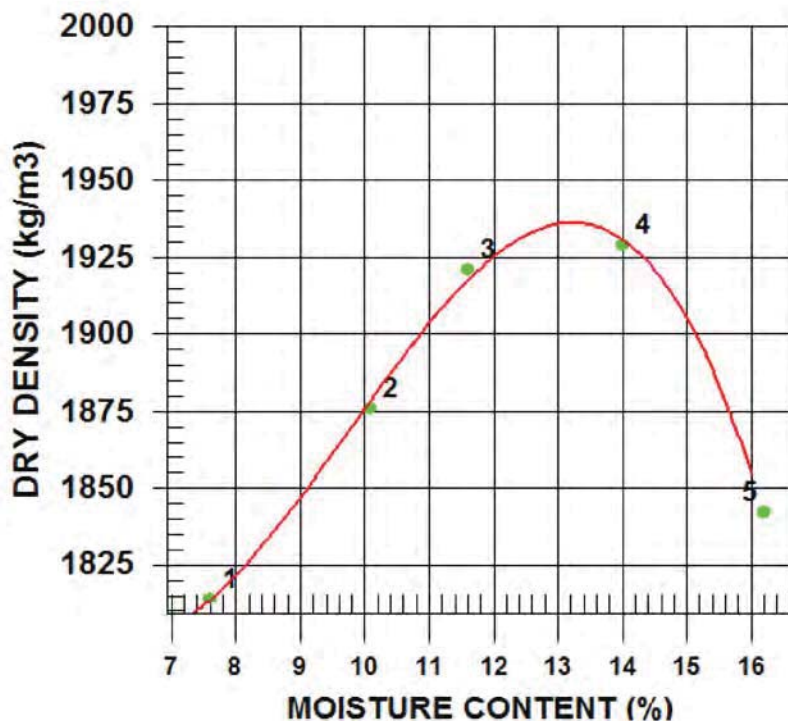
CONTRACTOR

PROCTOR NO. 2

DATE TESTED 2010.Mar.05 DATE RECEIVED 2010.Mar.03 DATE SAMPLED 2010.Feb.27

INSITU MOISTURE N/A %
SAMPLED BY CLIENT
TESTED BY DJ
SUPPLIER CLIENT
SOURCE R-S6B-ZS-01-2010
MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 37.5mm
DESCRIPTION SILTY
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 17.0 %
OVERSIZE SPECIFIC GRAVITY 2.65
TOTAL NUMBER OF TRIALS 5



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1952	1814	7.6
2	2065	1876	10.1
3	2144	1921	11.6
4	2199	1929	14.0
5	2140	1842	16.2

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1940	13.0
OVERSIZE CORRECTED	2030	11.0

COMMENTS

RE: WASHED SIEVE TEST No. 4

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 15 DATE RECEIVED 2010.Apr.07 DATE TESTED 2010.Apr.08 DATE SAMPLED 2010.Apr.05

SUPPLIER R-S6B-ZS-02-2010
SOURCE Main Embankment
SPECIFICATION
MATERIAL TYPE Glacial Till - Core Material

SAMPLED BY Client
TESTED BY SR
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	98.5	
1 1/2"	37.5	mm	96.6	
1"	25	mm	91.6	
3/4"	19	mm	88.7	
1/2"	12.5	mm	84.7	
3/8"	9.5	mm	82.5	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	76.4	
No. 10	2.00	mm	71.9	
No. 20	850	µm	66.5	
No. 40	425	µm	60.6	
No. 60	250	µm	54.0	
No. 100	150	µm	47.8	
No. 200	75	µm	39.3	

COMMENTS

Location: ME, Chainage: 2550, Elevation: 955.8, Offset: Zone S
See Plate B2 and C6

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corp.						Date: April 12, 2010					
Project Name: MPCP - Stage 6						Project #: K-2937					
Source/Location: R-S6B-ZS-02-2010						Type: Glacial Till - Core Material					
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: MS				Tested By: DJ				Checked By: NK			
Date Sampled: 04.05.10				Date Received: 04.07.10				Date Tested: 04.09.10			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	71.9
Wet Wt. & Tare	1112.5	25.4				20	3.2	46.8	93.6	67.3
Dry Wt. & Tare	1035.8	19.0				40	4.7	42.1	84.2	60.5
Water Wt.	76.7	12.5				60	5.0	37.1	74.2	53.3
Tare Wt.	181.1	9.5				100	5.4	31.7	63.4	45.6
Wt. Of Dry Soil	854.7	4.75				200	4.5	27.2	54.4	39.1
Moisture Content %	9.0	10	RE: WASHED SIEVE No. 15			Pan	27.2			
Dry Wt. Of Sample from Initial Moisture		PLATE No. C6				Total	50.0			
$= (100 \times \text{Wet Soil Wt.}) / (100 + \text{Initial Moisture}) =$						Unwashed Wt. =				
		Total	854.7			Tare		Wt. Passing #200 = _____		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.719	0.5	27.0	21.0	0.01348	19.0	13.2	5.130	0.069	38.0	27.3
50.0	0.719	1	24.0	21.0	0.01348	16.0	13.7	3.695	0.050	32.0	23.0
50.0	0.719	2	22.5	21.0	0.01348	14.5	13.9	2.637	0.036	29.0	20.9
50.0	0.719	4	20.0	21.0	0.01348	12.0	14.3	1.892	0.026	24.0	17.3
50.0	0.719	8	18.5	21.0	0.01348	10.5	14.6	1.349	0.018	21.0	15.1
50.0	0.719	15	17.0	21.0	0.01348	9.0	14.8	0.994	0.013	18.0	12.9
50.0	0.719	30	15.0	20.0	0.01365	7.0	15.1	0.710	0.010	14.0	10.1
50.0	0.719	60	13.0	20.0	0.01365	5.0	15.5	0.508	0.007	10.0	7.2
50.0	0.719	120	12.0	20.0	0.01365	4.0	15.6	0.361	0.005	8.0	5.8
50.0	0.719	240	11.0	20.0	0.01365	3.0	15.8	0.257	0.004	6.0	4.3
50.0	0.719	480	9.0	20.0	0.01365	1.0	16.1	0.183	0.003	2.0	1.4
50.0	0.719	1440	8.0	20.0	0.01365	0.0	16.3	0.106	0.001	0.0	0.0

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 4

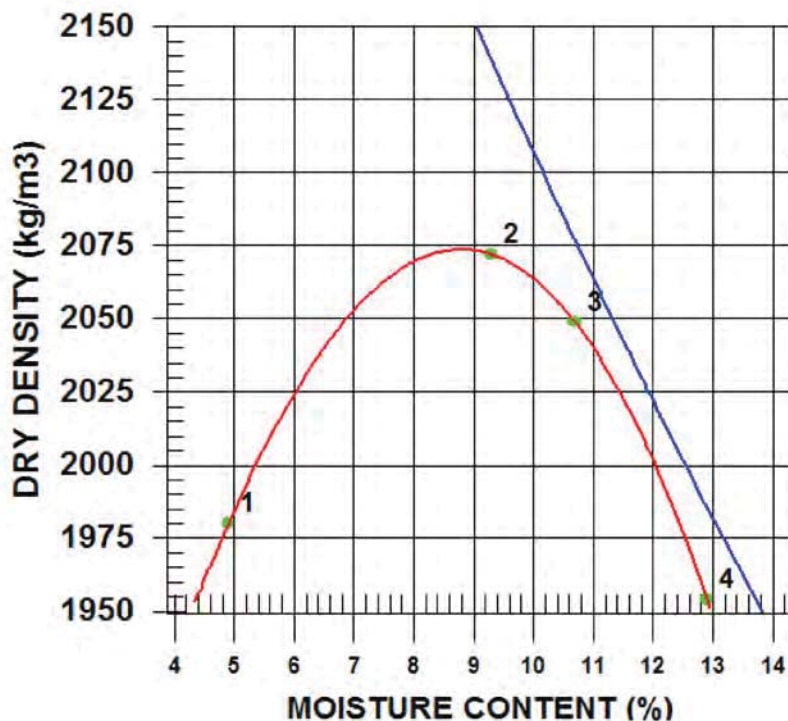
DATE TESTED 2010.Apr.09 DATE RECEIVED 2010.Apr.07 DATE SAMPLED 2010.Apr.05

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY DJ

SUPPLIER
SOURCE R-S6B-ZS-02-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 50MM
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 24.0 %
OVERSIZE SPECIFIC GRAVITY 2.67
TOTAL NUMBER OF TRIALS 4



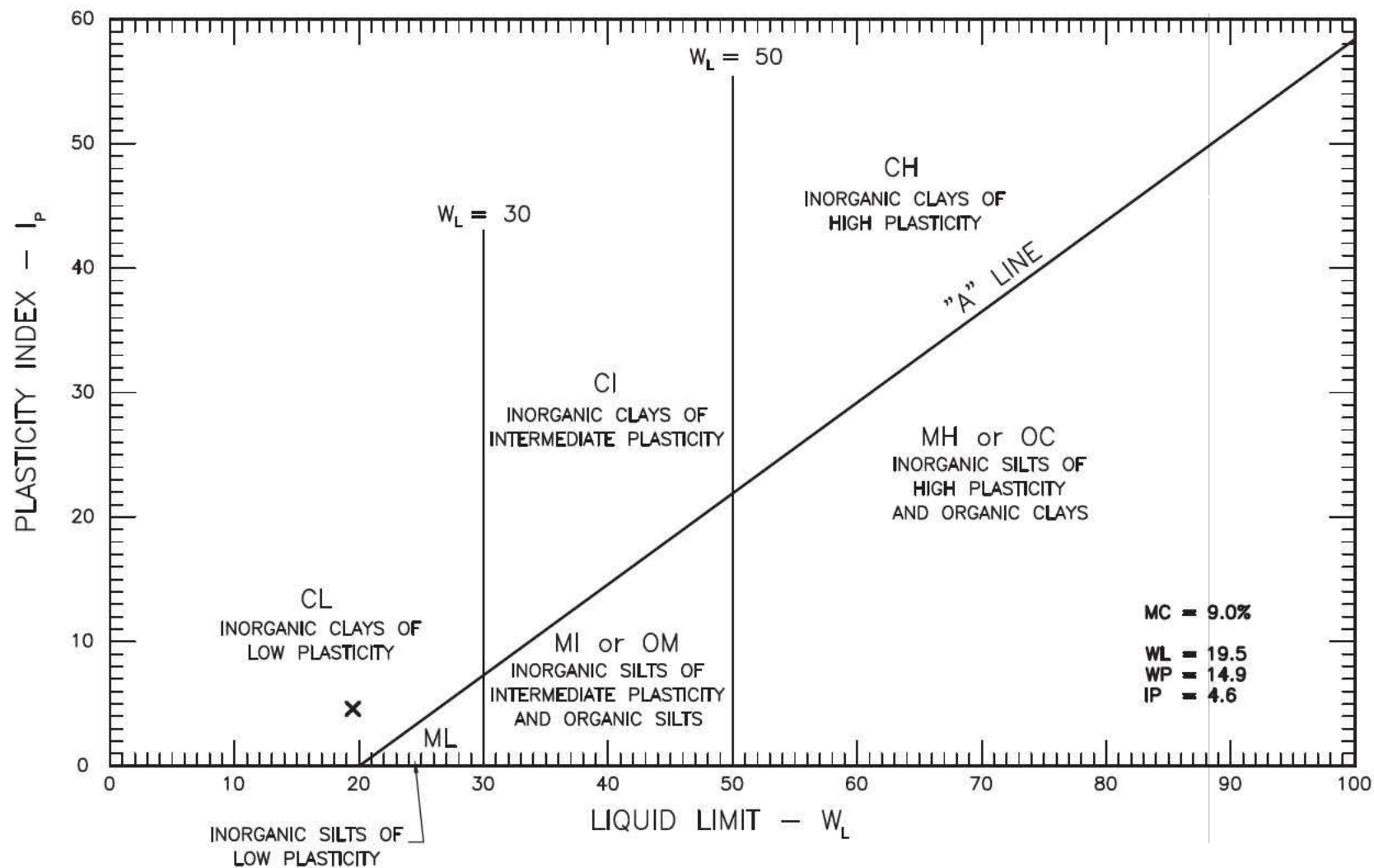
TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2077	1980	4.9
2	2265	2072	9.3
3	2268	2049	10.7
4	2206	1954	12.9

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.67	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2070	9.0
OVERSIZE CORRECTED	2190	7.0

COMMENTS

Specific Gravity: FINE = 2.6885, COARSE = 2.671

Location: ME, Chainage: 2550, Elevation: 955.8, Offset: Zone S



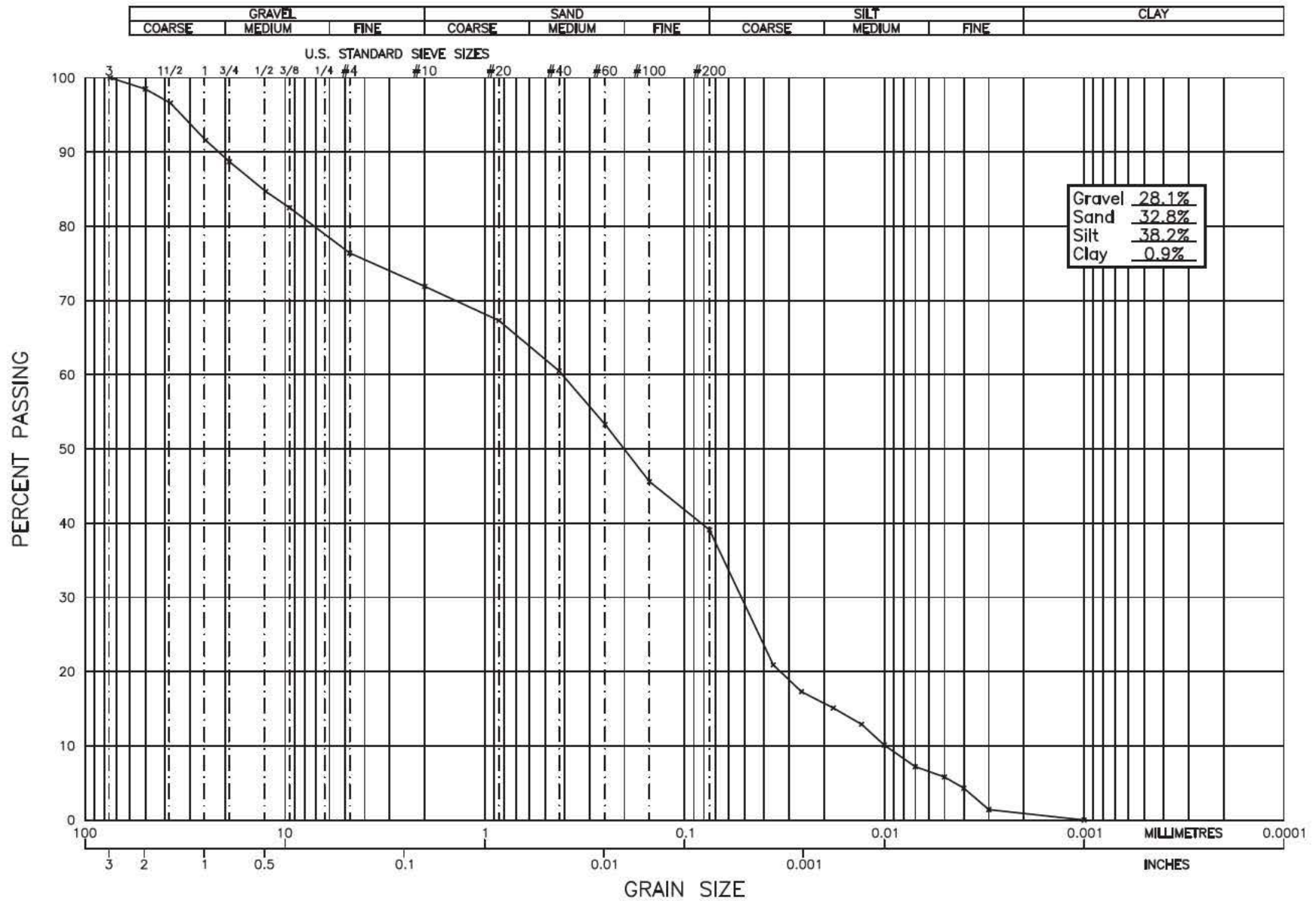
GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF R-S6B-ZS-02-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B2



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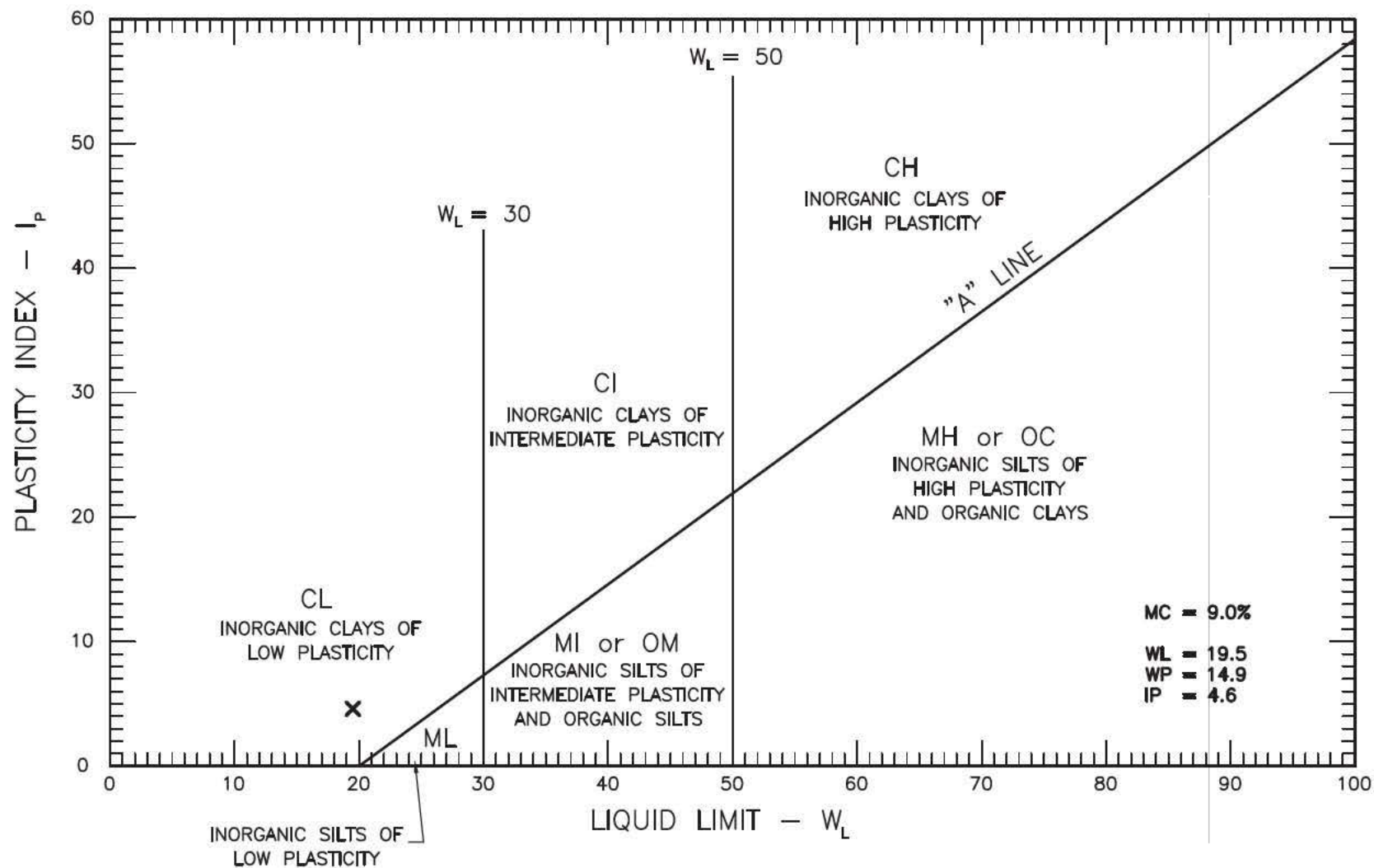
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZS-02-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C6



GEO NORTH ENGINEERING LTD.

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Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF R-S6B-ZS-02-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B2

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 16 DATE RECEIVED 2010.Apr.09 DATE TESTED 2010.Apr.12 DATE SAMPLED 2010.Apr.07

SUPPLIER

SOURCE R-S6B-ZS-02-2010 (b)

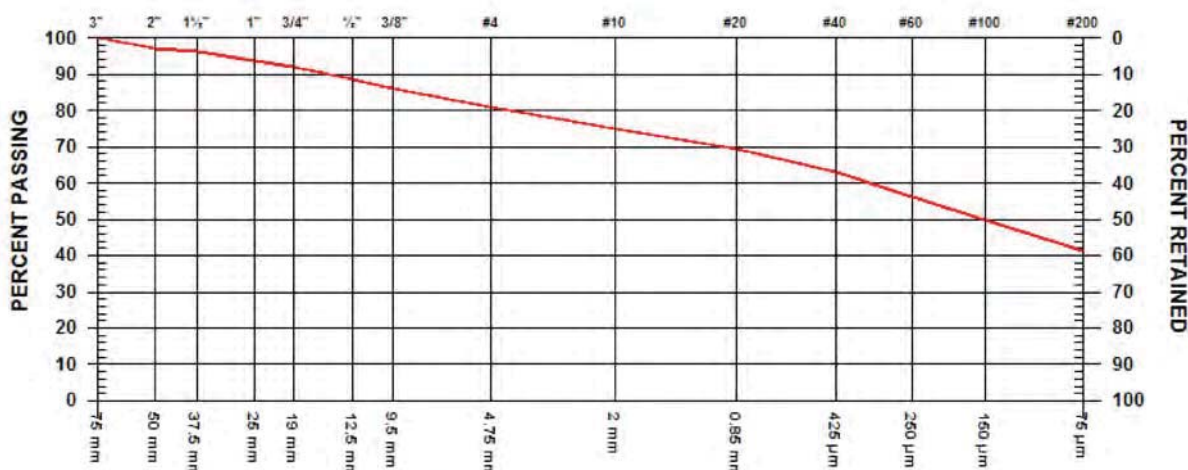
SPECIFICATION

MATERIAL TYPE Compacted TILL

SAMPLED BY MS-Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	97.1	
1 1/2"	37.5	mm	96.3	
1"	25	mm	93.8	
3/4"	19	mm	91.9	
1/2"	12.5	mm	88.4	
3/8"	9.5	mm	86.1	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	80.7	
No. 10	2.00	mm	75.0	
No. 20	850	micrometers	69.2	
No. 40	425	micrometers	63.0	
No. 60	250	micrometers	56.3	
No. 100	150	micrometers	50.0	
No. 200	75	micrometers	41.5	

COMMENTS

Re: Plate C7

Location: PE, Chainage: 4650, Elevation: 956.1, Offset: Zone S

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 5

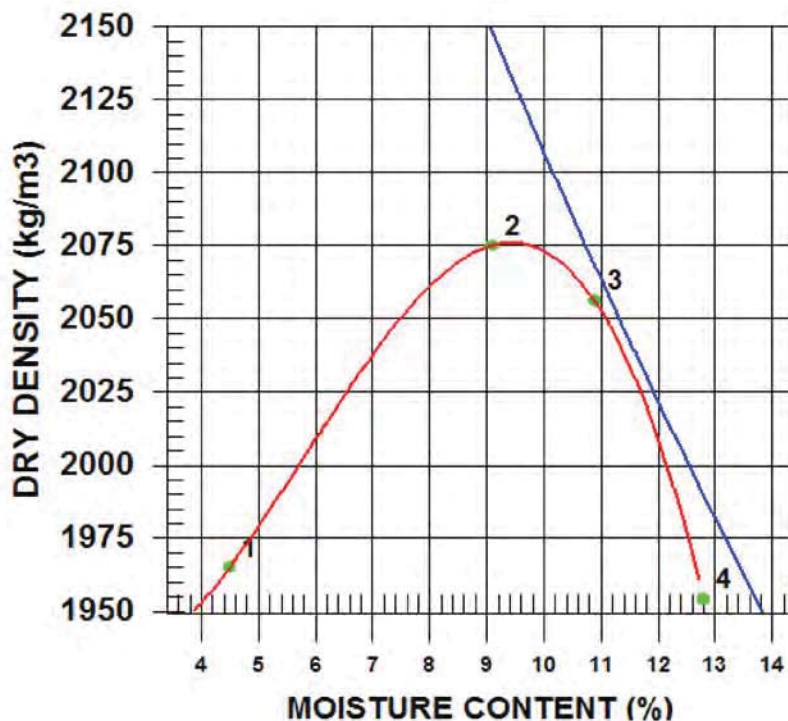
DATE TESTED 2010.Apr.12 DATE RECEIVED 2010.Apr.09 DATE SAMPLED 2010.Apr.07

INSITU MOISTURE N/A %
SAMPLED BY MS-Client
TESTED BY DJ

SUPPLIER
SOURCE R-S6B-ZS-02-2010 (b)

MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 50MM
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 18.0 %
OVERSIZE SPECIFIC GRAVITY 2.67
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2053	1965	4.5
2	2264	2075	9.1
3	2280	2056	10.9
4	2204	1954	12.8

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.67	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2080	9.5
OVERSIZE CORRECTED	2170	8.0

COMMENTS
Re: Plate C7

Location: PE, Chainage: 4650, Elevation: 956.1, Offset: Zone S

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

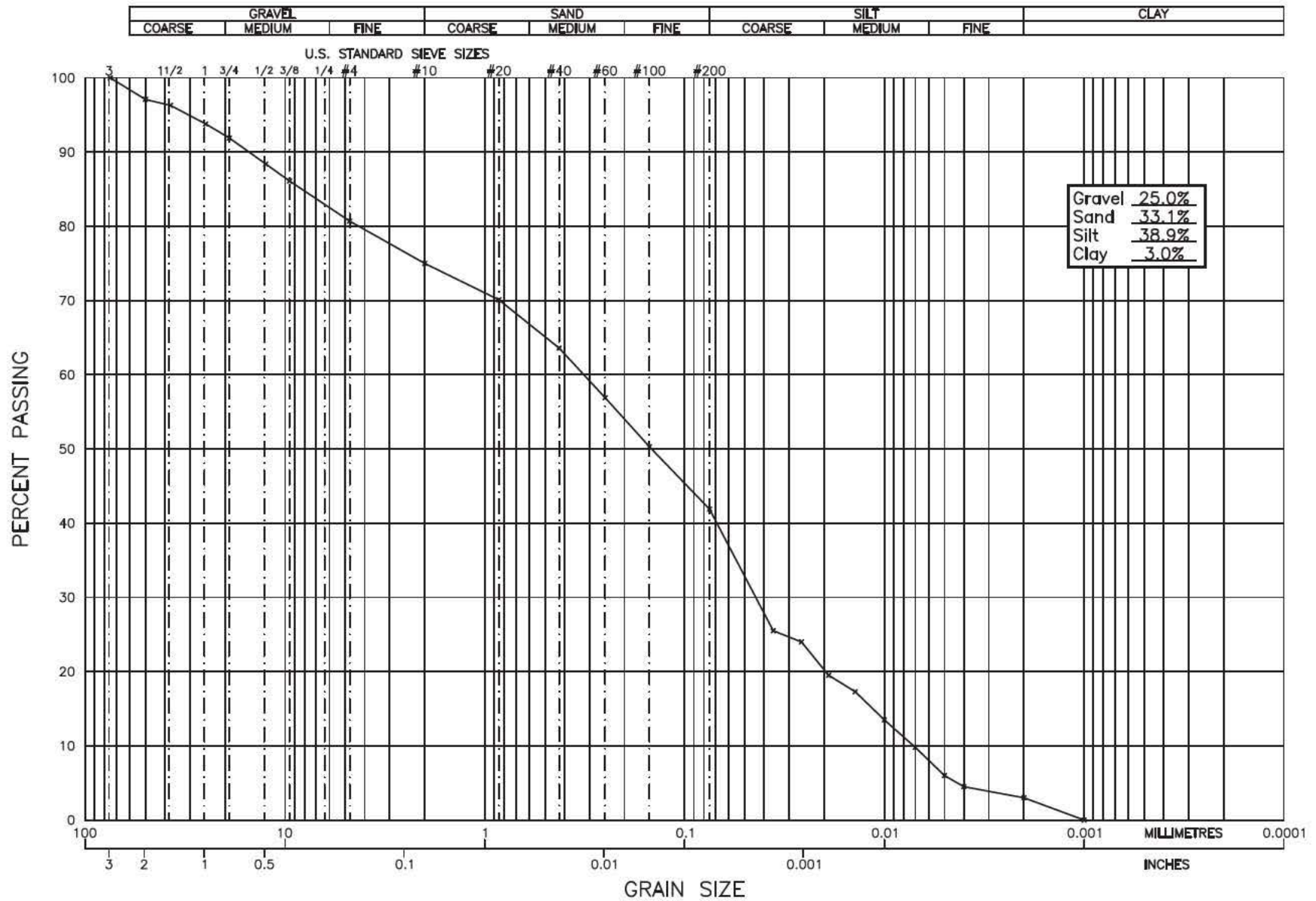
Client: Mount Polley Mining Corp.						Date: April 15, 2010					
Project Name: MPCP - Stage 6						Project #: K-2937					
Source/Location: R-S6B-ZS-02-2010 (b)						Type: TILL					
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: MS				Tested By: DJ				Checked By: NK			
Date Sampled: 04.07.10				Date Received: 04.09.10				Date Tested: 04.13.10			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	75.0
Wet Wt. & Tare	1112.5	25.4				20	3.3	46.7	93.4	70.1
Dry Wt. & Tare	1035.8	19.0				40	4.3	42.4	84.8	63.6
Water Wt.	76.7	12.5				60	4.5	37.9	75.8	56.9
Tare Wt.	181.1	9.5				100	4.4	33.5	67.0	50.3
Wt. Of Dry Soil	854.7	4.75				200	5.6	27.9	55.8	41.9
Moisture Content %	9.0	10	RE: WASHED SIEVE No. 16			Pan	27.9			
Dry Wt. Of Sample from Initial Moisture		PLATE No. C7				Total	50.0			
$= (100 \times \text{Wet Soil Wt.}) / (100 + \text{Initial Moisture}) =$						Unwashed Wt.=				
		Total	854.7			Tare		Wt. Passing #200 = _____		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(% - #10)
50.0	0.750	0.5	31.0	18.0	0.01399	23.0	12.5	5.000	0.070	46.0	34.5
50.0	0.750	1	27.0	18.0	0.01399	19.0	13.2	3.628	0.051	38.0	28.5
50.0	0.750	2	25.0	18.0	0.01399	17.0	13.5	2.597	0.036	34.0	25.5
50.0	0.750	4	24.0	18.0	0.01399	16.0	13.7	1.848	0.026	32.0	24.0
50.0	0.750	8	21.0	18.0	0.01399	13.0	14.2	1.330	0.019	26.0	19.5
50.0	0.750	15	19.5	18.0	0.01399	11.5	14.4	0.980	0.014	23.0	17.3
50.0	0.750	30	17.0	18.0	0.01399	9.0	14.8	0.703	0.010	18.0	13.5
50.0	0.750	60	14.5	19.0	0.01382	6.5	15.2	0.504	0.007	13.0	9.8
50.0	0.750	120	12.0	19.0	0.01382	4.0	15.6	0.361	0.005	8.0	6.0
50.0	0.750	240	11.0	19.0	0.01382	3.0	15.8	0.257	0.004	6.0	4.5
50.0	0.750	480	10.0	20.0	0.01365	2.0	16.0	0.182	0.002	4.0	3.0
50.0	0.750	1440	8.0	20.0	0.01365	0.0	16.3	0.106	0.001	0.0	0.0

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF R-S6B-ZS-02-2010 (b)

PROJECT NO.

K-2937

PLATE NO.

2937-C7

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 29 DATE RECEIVED 2010.Apr.28 DATE TESTED 2010.May.03 DATE SAMPLED 2010.Apr.27

SUPPLIER

SOURCE R-S6B-ZS-04-2010

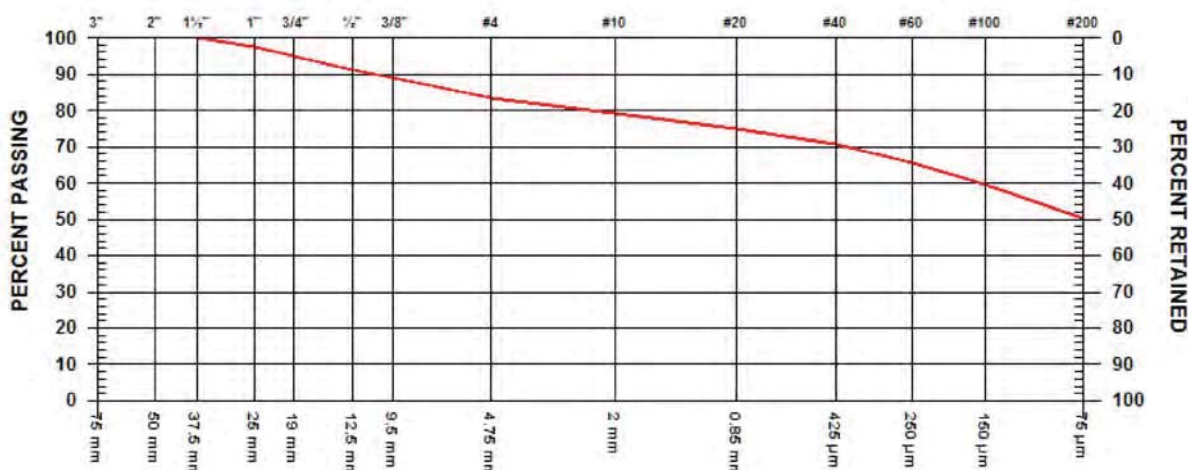
SPECIFICATION

MATERIAL TYPE TILL

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm	100.0	
1"	25	mm	97.3	
3/4"	19	mm	94.9	
1/2"	12.5	mm	91.3	
3/8"	9.5	mm	89.0	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	83.5	
No. 10	2.00	mm	79.2	
No. 20	850	µm	75.1	
No. 40	425	µm	70.6	
No. 60	250	µm	65.4	
No. 100	150	µm	59.7	
No. 200	75	µm	50.4	

COMMENTS

Re: Proctor Report No.8

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO
Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

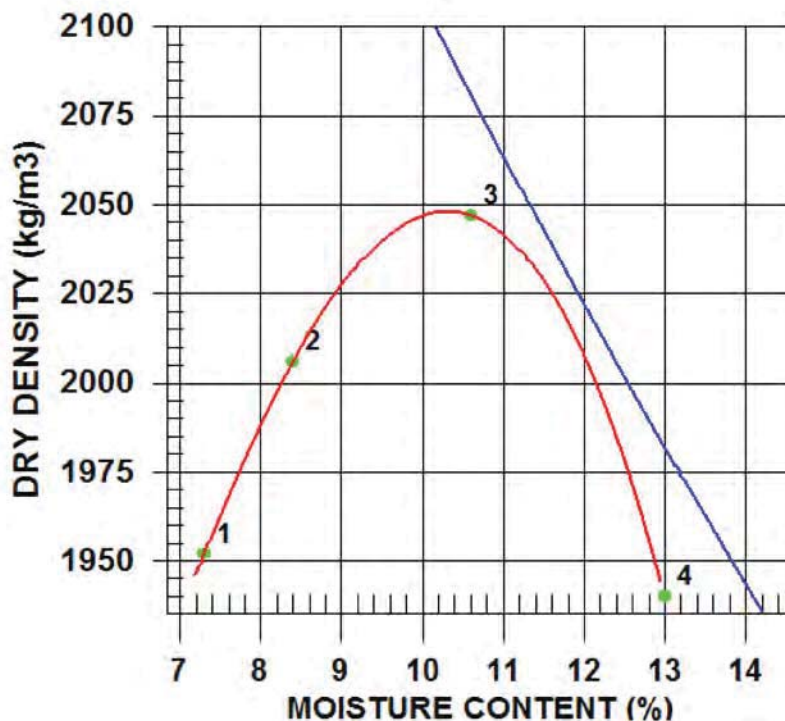
CONTRACTOR

PROCTOR NO. 8

DATE TESTED 2010.May.03 DATE RECEIVED 2010.Apr.28 DATE SAMPLED 2010.Apr.27

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY DJ/JMcD
SUPPLIER
SOURCE R-S6B-ZS-04-2010
MATERIAL IDENTIFICATION
MAJOR COMPONENT Till
SIZE 38mm
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 16.0 %
OVERSIZE SPECIFIC GRAVITY 2.67
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2094	1952	7.3
2	2175	2006	8.4
3	2264	2047	10.6
4	2192	1940	13.0

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.67	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2050	10.5
OVERSIZE CORRECTED	2130	9.0

COMMENTS

Re: Sieve Report No. 29

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

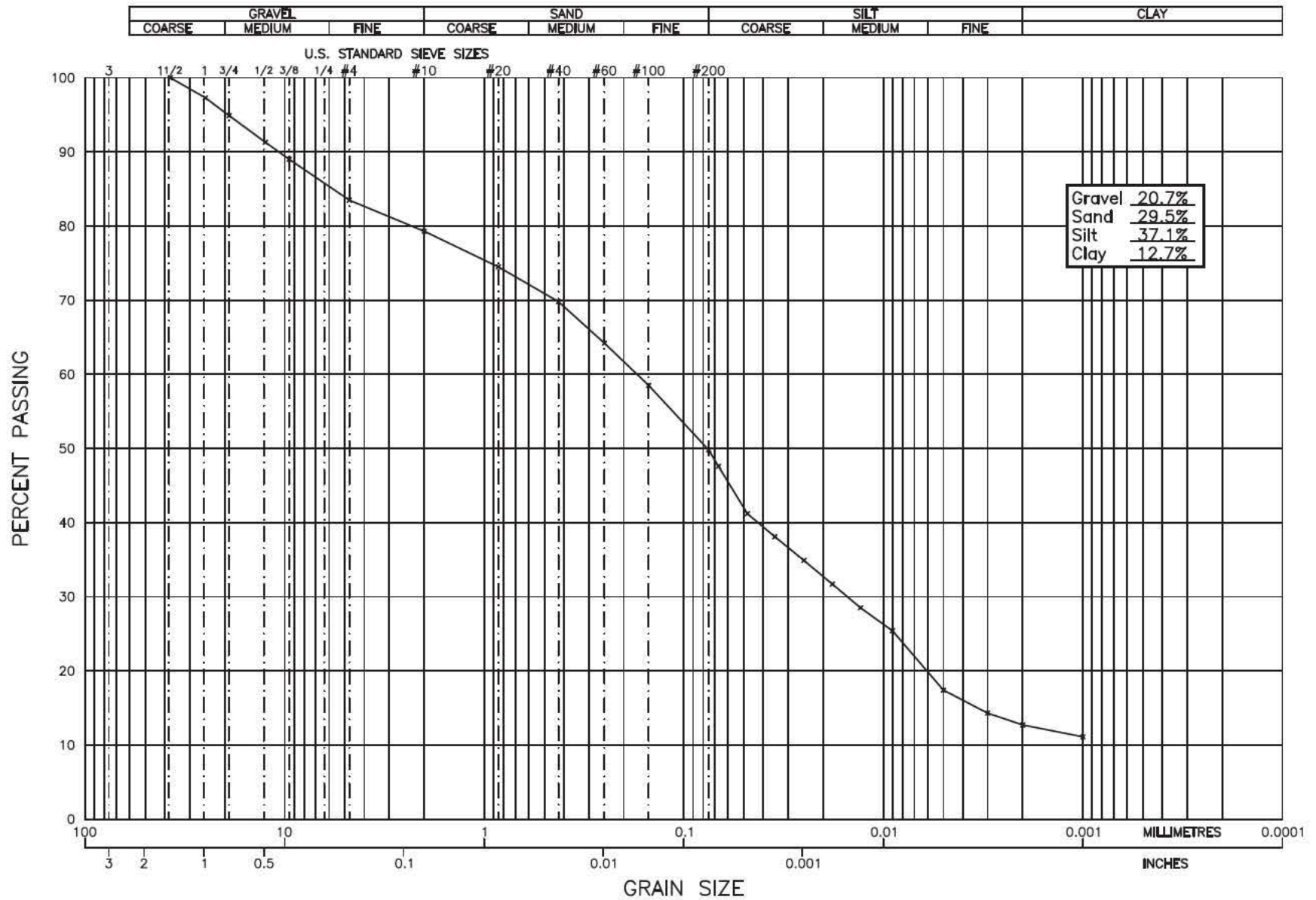
Client: Mount Polley Mining Corporation							Date: May 4, 2010				
Project Name: MPCP- Stage 6B							Project #: K- 2937				
Source/Location: R-S6B-ZS-04-2010							Type: Till				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: DJ				Checked By: NK			
Date Sampled: 04/27/2010				Date Received: 04/28/2010				Date Tested: 05/03/2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	79.3
Wet Wt. & Tare	732.2	25.4				20	3.0	47.0	94.0	74.5
Dry Wt. & Tare	679.4	19.0				40	3.0	44.0	88.0	69.8
Water Wt.	52.8	12.5				60	3.5	40.5	81.0	64.2
Tare Wt.	180.5	9.5				100	3.6	36.9	73.8	58.5
Wt. Of Dry Soil	498.9	4.75	Re: Sieve Test No. 29			200	5.5	31.4	62.8	49.8
Moisture Content %	10.6	10	Plate No. C10			Pan	31.4			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100xWet Soil Wt.)/(100 + Initial Moisture) =						Unwashed Wt.=				
		Total	498.9			Tare		Wt. Passing #200 = _____		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.793	0.5	38.0	18.0	0.01399	30.0	11.3	4.763	0.067	60.0	47.6
50.0	0.793	1	34.0	18.0	0.01399	26.0	12.0	3.465	0.048	52.0	41.2
50.0	0.793	2	32.0	18.0	0.01399	24.0	12.3	2.483	0.035	48.0	38.1
50.0	0.793	4	30.0	18.0	0.01399	22.0	12.7	1.779	0.025	44.0	34.9
50.0	0.793	8	28.0	18.0	0.01399	20.0	13.0	1.275	0.018	40.0	31.7
50.0	0.793	15	26.0	18.0	0.01399	18.0	13.3	0.943	0.013	36.0	28.5
50.0	0.793	30	24.0	18.0	0.01399	16.0	13.7	0.675	0.009	32.0	25.4
50.0	0.793	60	20.0	18.0	0.01399	12.0	14.3	0.488	0.007	24.0	19.0
50.0	0.793	120	19.0	19.0	0.01382	11.0	14.5	0.347	0.005	22.0	17.4
50.0	0.793	240	17.0	19.0	0.01382	9.0	14.8	0.248	0.003	18.0	14.3
50.0	0.793	480	16.0	18.0	0.01399	8.0	15.0	0.177	0.002	16.0	12.7
50.0	0.793	1440	15.0	20.0	0.01365	7.0	15.1	0.103	0.001	14.0	11.1

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZS-04-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C10

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 36 DATE RECEIVED 2010.Jun.03 DATE TESTED 2010.Jun.04 DATE SAMPLED 2010.May.31

SUPPLIER

SOURCE R-S6B-ZS-05-2010

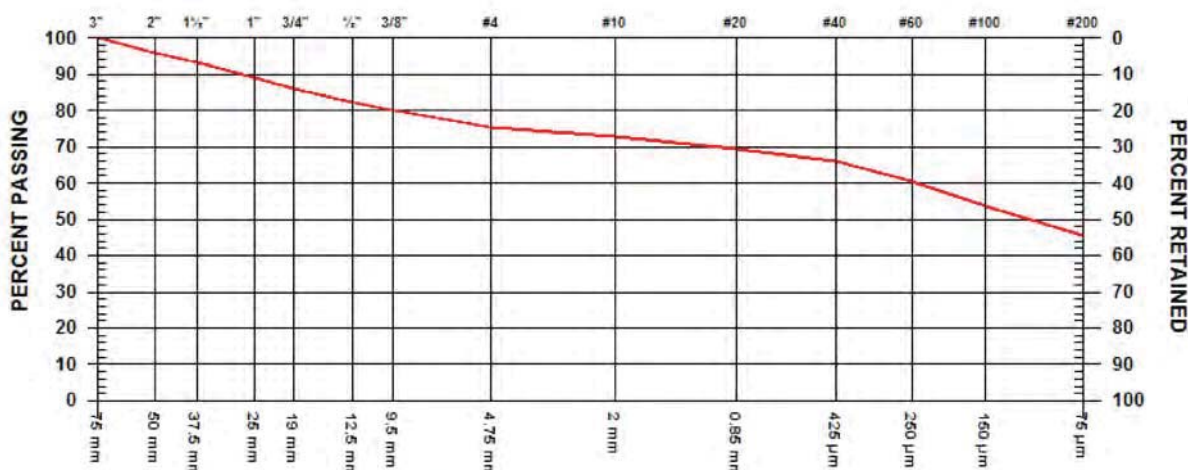
SPECIFICATION

MATERIAL TYPE Till

SAMPLED BY Client

TESTED BY JM

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	95.7	
1 1/2"	37.5	mm	93.1	
1"	25	mm	88.8	
3/4"	19	mm	86.1	
1/2"	12.5	mm	82.2	
3/8"	9.5	mm	80.0	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	75.5	
No. 10	2.00	mm	73.0	
No. 20	850	µm	69.3	
No. 40	425	µm	65.8	
No. 60	250	µm	60.3	
No. 100	150	µm	53.5	
No. 200	75	µm	45.7	

COMMENTS

Location: PE, Chainage: 2850, Elevation: 957.0 m.

Re: Plate No. 2937-C17 and Proctor No. 11

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 11

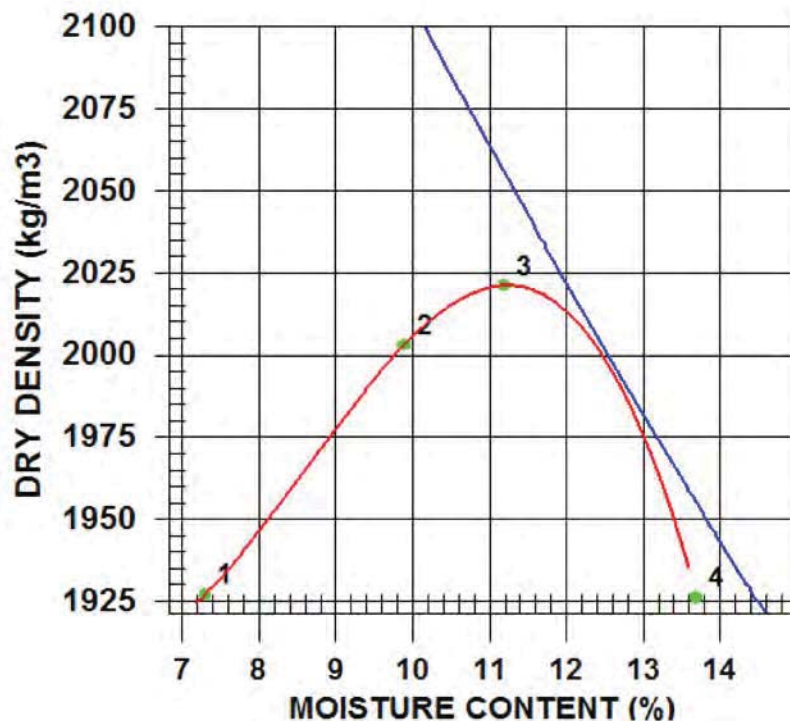
DATE TESTED 2010.Jun.04 DATE RECEIVED 2010.Jun.03 DATE SAMPLED 2010.May.31

INSITU MOISTURE N/A %
SAMPLED BY CLIENT
TESTED BY JM

SUPPLIER
SOURCE R-S6B-ZS-05-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT Till
SIZE 50mm
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 23.0 %
OVERSIZE SPECIFIC GRAVITY 2.67
TOTAL NUMBER OF TRIALS 4



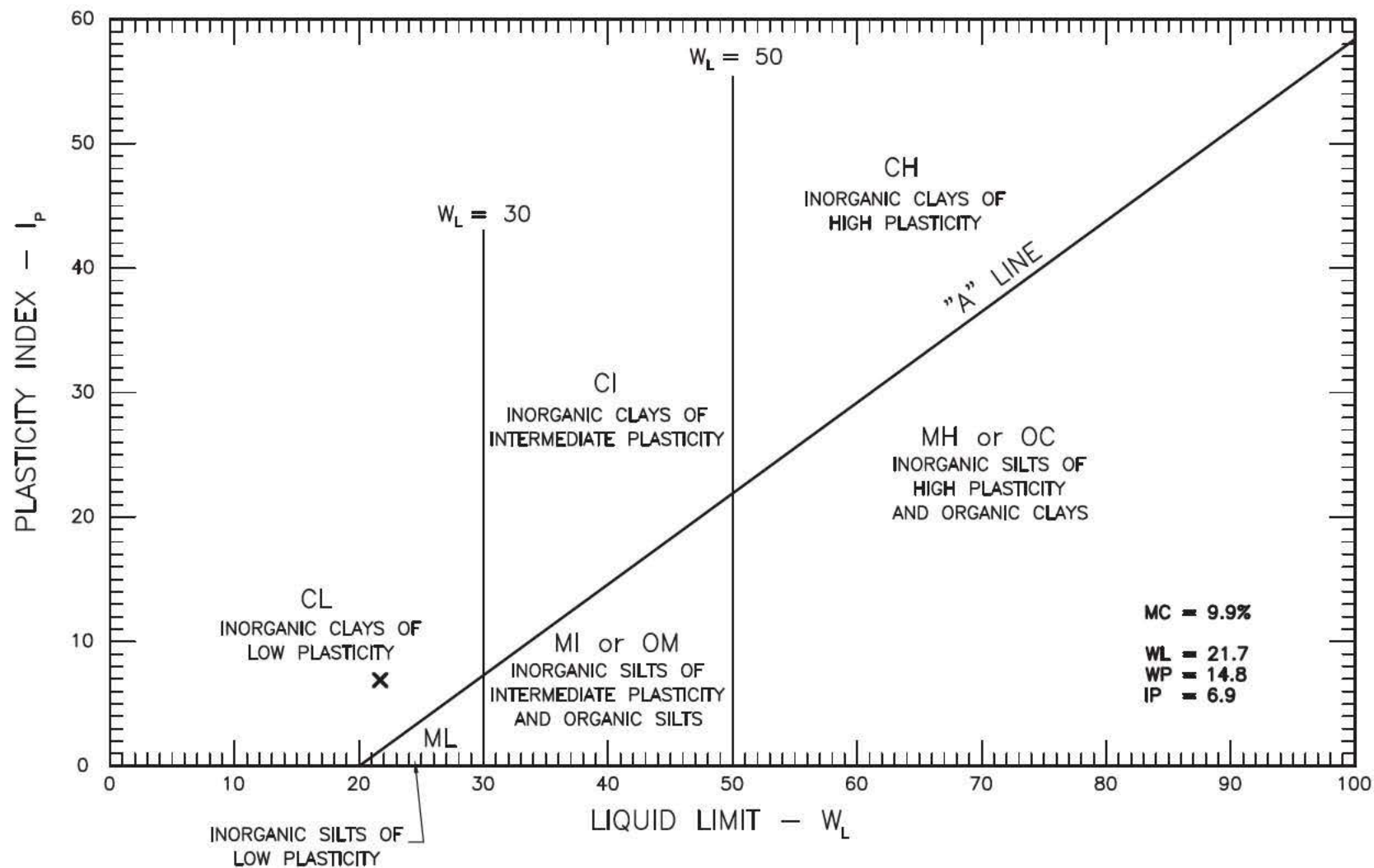
TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2068	1927	7.3
2	2201	2003	9.9
3	2247	2021	11.2
4	2190	1926	13.7

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.67	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2020	11.0
OVERSIZE CORRECTED	2140	8.5

COMMENTS

Location: PE, Chainage: 2850, Elevation: 957.0 m.

Re: Plate No. 2937-C17 and Sieve No. 36



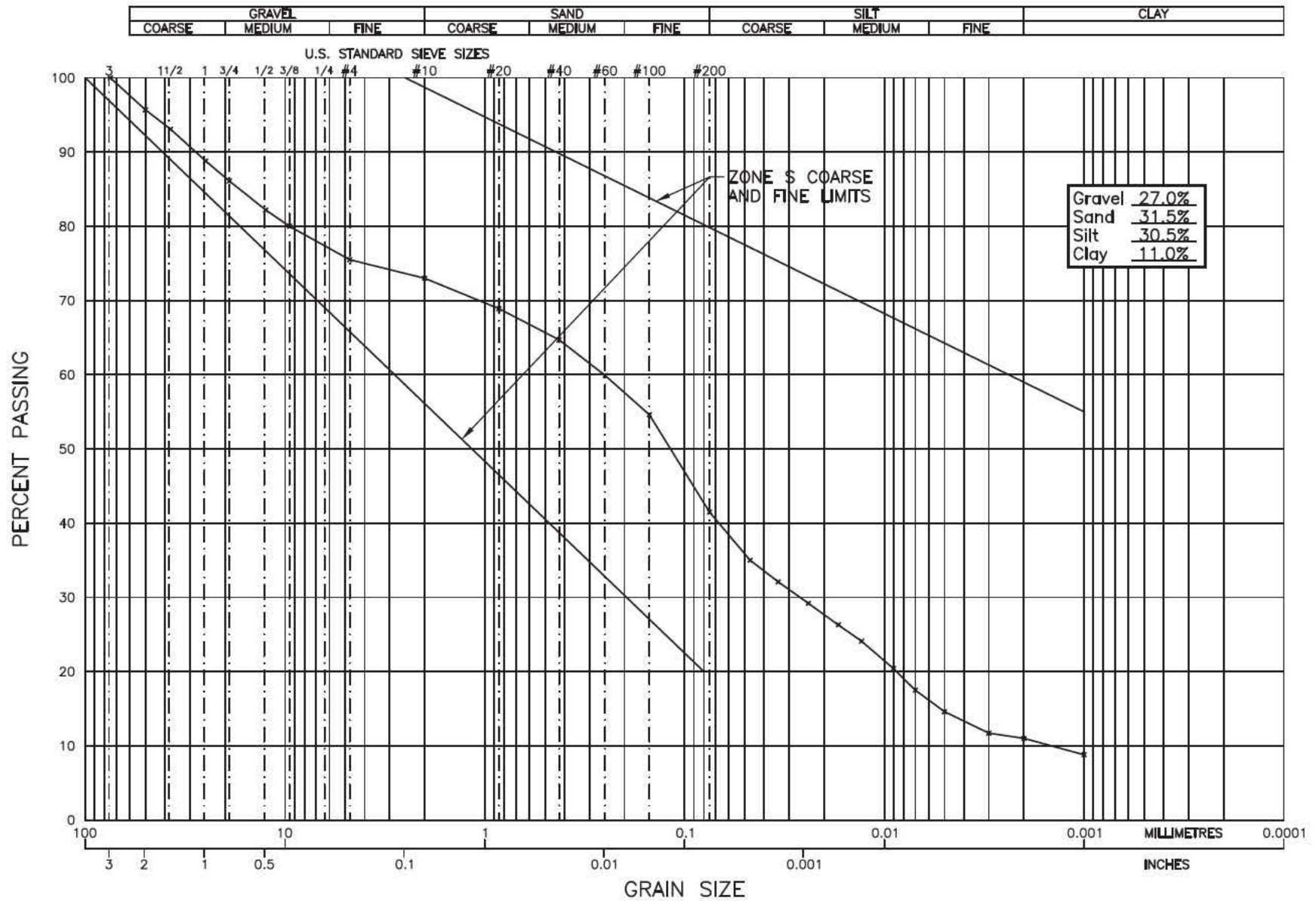
GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF R-S6B-ZS-05-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B7


GEO NORTH ENGINEERING LTD.

 3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

 MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF R-S6B-ZS-05-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C17

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corporation							Date: June 10, 2010				
Project Name: MPCP Stage 6B							Project #: K-2937				
Source/Location: PE, Chainage: 2850, Elevation: 957.0 m							Type: Till				
Sample #: R-S6B-ZS-05-2010			Test #:		Hole #:		Depth:		Time:		
Sampled By: Client				Tested By: DJ				Checked By: NK			
Date Sampled: May 31, 2010				Date Received: June 3, 2010				Date Tested: June 7, 2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	73.0
Wet Wt. & Tare	1005.9	25.4				20	2.8	47.2	94.4	68.9
Dry Wt. & Tare	931.4	19.0				40	2.9	44.3	88.6	64.7
Water Wt.	74.5	12.5				60	3.3	41.0	82.0	59.9
Tare Wt.	180.2	9.5	Re: Plate No. 2937-C17			100	3.6	37.4	74.8	54.6
Wt. Of Dry Soil	751.2	4.75	Re: Sieve Test No.36			200	9.0	28.4	56.8	41.5
Moisture Content %	9.9	10			73.0	Pan	28.4			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100xWet Soil Wt.)/(100 + Initial Moisture)						Unwashed Wt.=				
		Total	751.2			Tare		Wt. Passing #200 =		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.730	0.5	35.0	21.0	0.01348	27.0	11.8	4.866	0.066	54.0	39.4
50.0	0.730	1	32.0	21.0	0.01348	24.0	12.3	3.512	0.047	48.0	35.0
50.0	0.730	2	30.0	21.0	0.01348	22.0	12.7	2.516	0.034	44.0	32.1
50.0	0.730	4	28.0	21.0	0.01348	20.0	13.0	1.802	0.024	40.0	29.2
50.0	0.730	8	26.0	21.0	0.01348	18.0	13.3	1.291	0.017	36.0	26.3
50.0	0.730	15	24.5	21.0	0.01348	16.5	13.6	0.951	0.013	33.0	24.1
50.0	0.730	30	22.0	21.0	0.01348	14.0	14.0	0.683	0.009	28.0	20.4
50.0	0.730	60	20.0	21.0	0.01348	12.0	14.3	0.488	0.007	24.0	17.5
50.0	0.730	120	18.0	21.0	0.01348	10.0	14.6	0.349	0.005	20.0	14.6
50.0	0.730	240	16.0	20.0	0.01365	8.0	15.0	0.250	0.003	16.0	11.7
50.0	0.730	480	15.5	20.0	0.01365	7.5	15.1	0.177	0.002	15.0	11.0
50.0	0.730	1440	14.0	20.0	0.01365	6.0	15.3	0.103	0.001	12.0	8.8

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

Noelco

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 39 DATE RECEIVED 2010.Jun.23 DATE TESTED 2010.Jun.25 DATE SAMPLED 2010.Jun.16

SUPPLIER

SOURCE R-S6B-ZS-06-2010

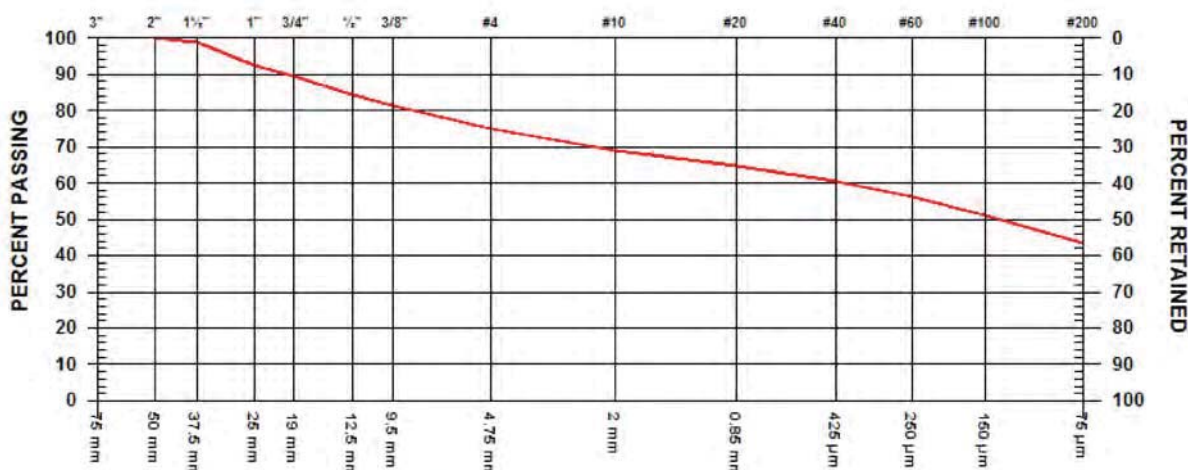
SPECIFICATION

MATERIAL TYPE Till

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm		
3/4"	19	mm		
1/2"	12.5	mm		
3/8"	9.5	mm	81.3	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	74.8	
No. 10	2.00	mm	69.1	
No. 20	850	µm	64.6	
No. 40	425	µm	60.5	
No. 60	250	µm	56.1	
No. 100	150	µm	51.3	
No. 200	75	µm	43.6	

COMMENTS

Location: PE, Chainage: 4750, Elevation: 957, Offset: Upstream edge

Re: Proctor No.12, Plate No.2937-C18 and 2937-B8

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 12

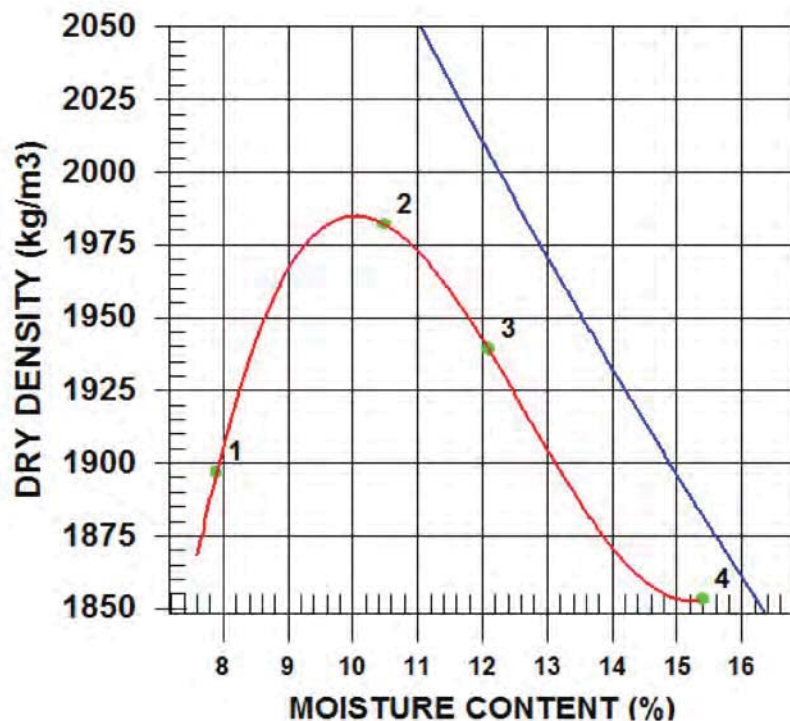
DATE TESTED 2010.Jun.25 DATE RECEIVED 2010.Jun.23 DATE SAMPLED 2010.Jun.16

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY JM

SUPPLIER
SOURCE R-S6B-ZS-06-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT Till
SIZE 50 mm
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 25.0 %
OVERSIZE SPECIFIC GRAVITY 2.65
TOTAL NUMBER OF TRIALS 4



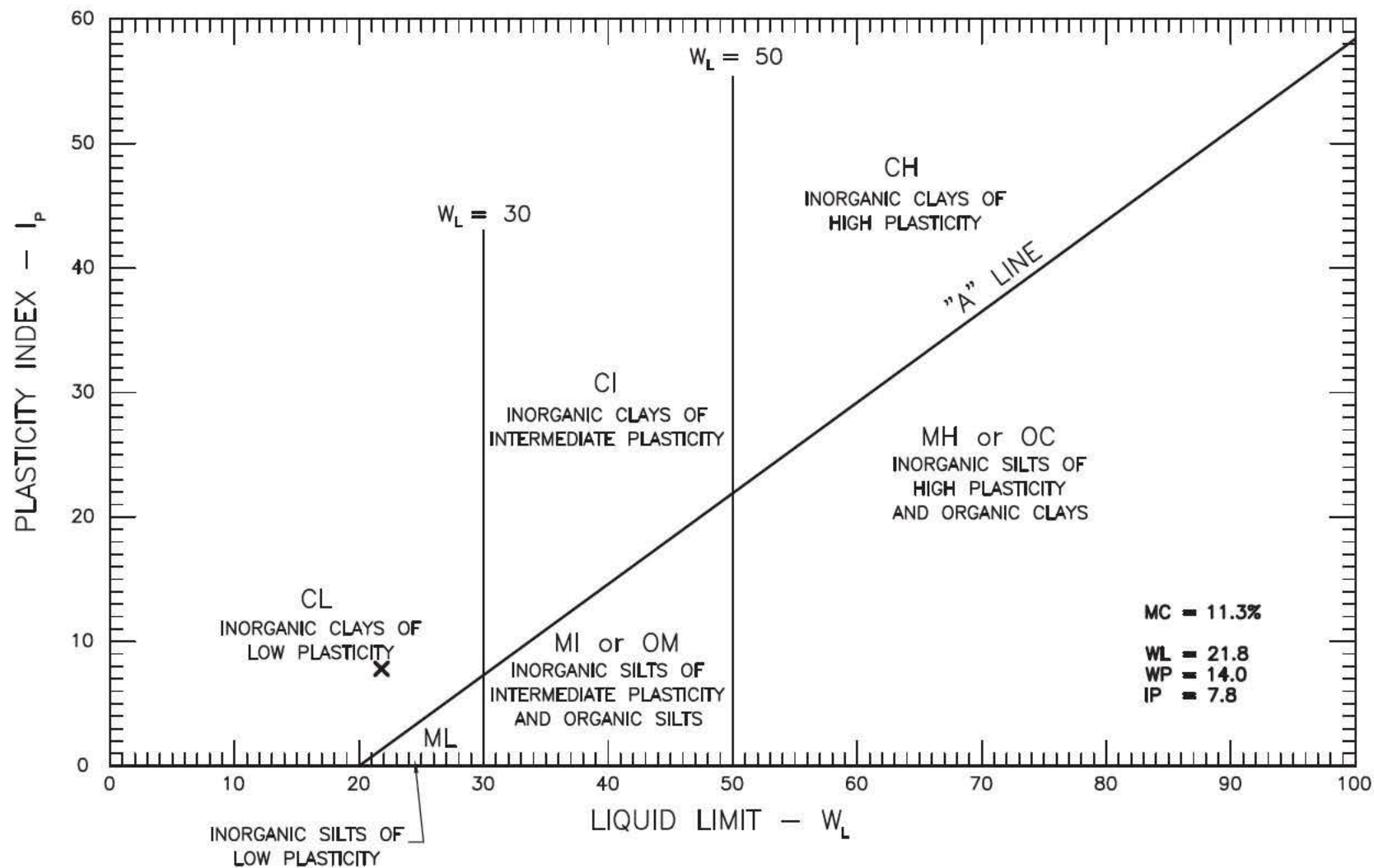
TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2047	1897	7.9
2	2190	1982	10.5
3	2174	1939	12.1
4	2138	1853	15.4

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.65	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1990	10.0
OVERSIZE CORRECTED	2120	8.0

COMMENTS

Re: Sieve Test No. 39, Plate C18 and B8

Specific Gravity Coarse = 2.657, Fine = 2.667



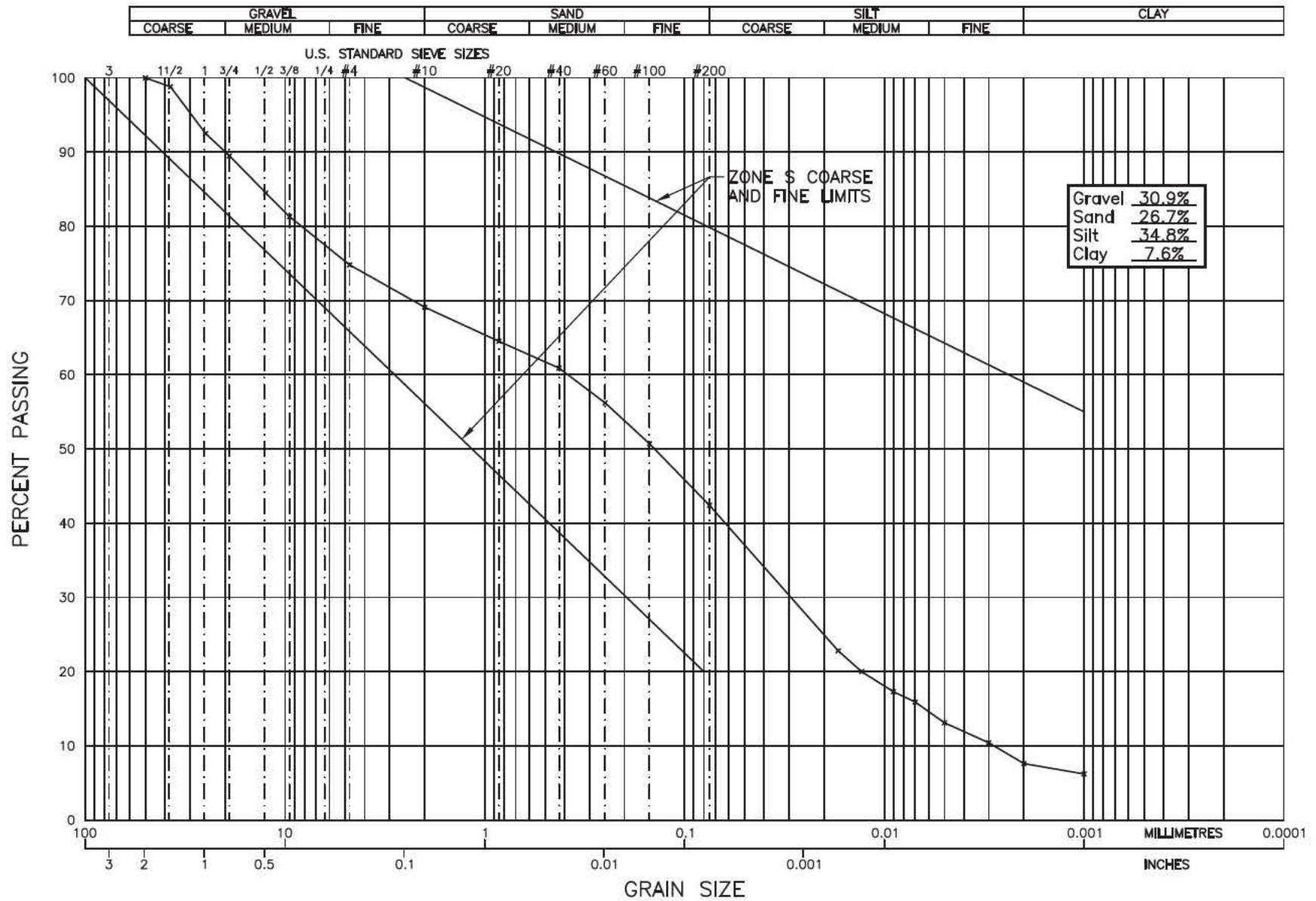
GEO NORTH ENGINEERING LTD.

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Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF R-S6B-ZS-06-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B8


GEO NORTH ENGINEERING LTD.

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 Tel. 250-564-4304 Fax 250-564-9323

 MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF R-S6B-ZS-06-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C18

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corporation							Date: June 28, 2010				
Project Name: MPCP Stage 6B							Project #: K-2937				
Source/Location: R-S6B-ZS-06-2010							Type: Till				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: DJ			Checked By: NK				
Date Sampled: 06/16/2010				Date Received: 06/23/2010				Date Tested: 06/25/2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	69.1
Wet Wt. & Tare	1180.3	25.4				20	3.3	46.7	93.4	64.5
Dry Wt. & Tare	1078.5	19.0				40	2.6	44.1	88.2	60.9
Water Wt.	101.8	12.5				60	3.4	40.7	81.4	56.2
Tare Wt.	179.4	9.5	See: Plate No. 2937-C18			100	4.0	36.7	73.4	50.7
Wt. Of Dry Soil	899.1	4.75	See: Sieve Test No. 39			200	6.0	30.7	61.4	42.4
Moisture Content %	11.3	10			69.1	Pan	30.7			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
(100xWet Soil Wt.)/(100 + Initial Moisture)						Unwashed Wt.=				
		Total	899.1			Tare		Wt. Passing #200 =		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.000	0.5	32.0	22.0	0.01332	24.5	12.3	4.950	0.066	49.0	33.9
50.0	0.000	1	28.0	22.0	0.01332	20.5	12.9	3.593	0.048	41.0	28.3
50.0	0.000	2	26.5	22.0	0.01332	19.0	13.2	2.565	0.034	38.0	26.3
50.0	0.000	4	25.0	22.0	0.01332	17.5	13.4	1.831	0.024	35.0	24.2
50.0	0.000	8	24.0	22.0	0.01332	16.5	13.6	1.303	0.017	33.0	22.8
50.0	0.000	15	22.0	22.0	0.01332	14.5	13.9	0.963	0.013	29.0	20.0
50.0	0.000	30	20.0	22.0	0.01332	12.5	14.2	0.689	0.009	25.0	17.3
50.0	0.000	60	19.0	22.0	0.01332	11.5	14.4	0.490	0.007	23.0	15.9
50.0	0.000	120	17.0	22.0	0.01332	9.5	14.7	0.350	0.005	19.0	13.1
50.0	0.000	240	15.0	22.0	0.01332	7.5	15.1	0.250	0.003	15.0	10.4
50.0	0.000	480	13.0	22.0	0.01332	5.5	15.4	0.179	0.002	11.0	7.6
50.0	0.000	1440	12.0	23.0	0.01317	4.5	15.6	0.104	0.001	9.0	6.2

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

Noelco

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 42 DATE RECEIVED 2010.Jul.14 DATE TESTED 2010.Jul.16 DATE SAMPLED 2010.Jul.07

SUPPLIER

SOURCE R-SGB-ZS-07-2010

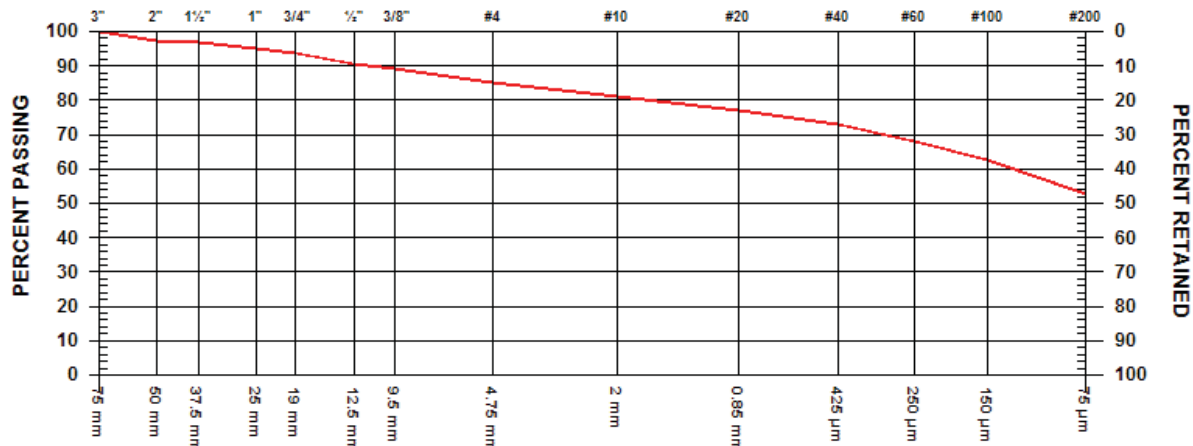
SPECIFICATION

MATERIAL TYPE Till

SAMPLED BY Client

TESTED BY JM

TEST METHOD WASHED

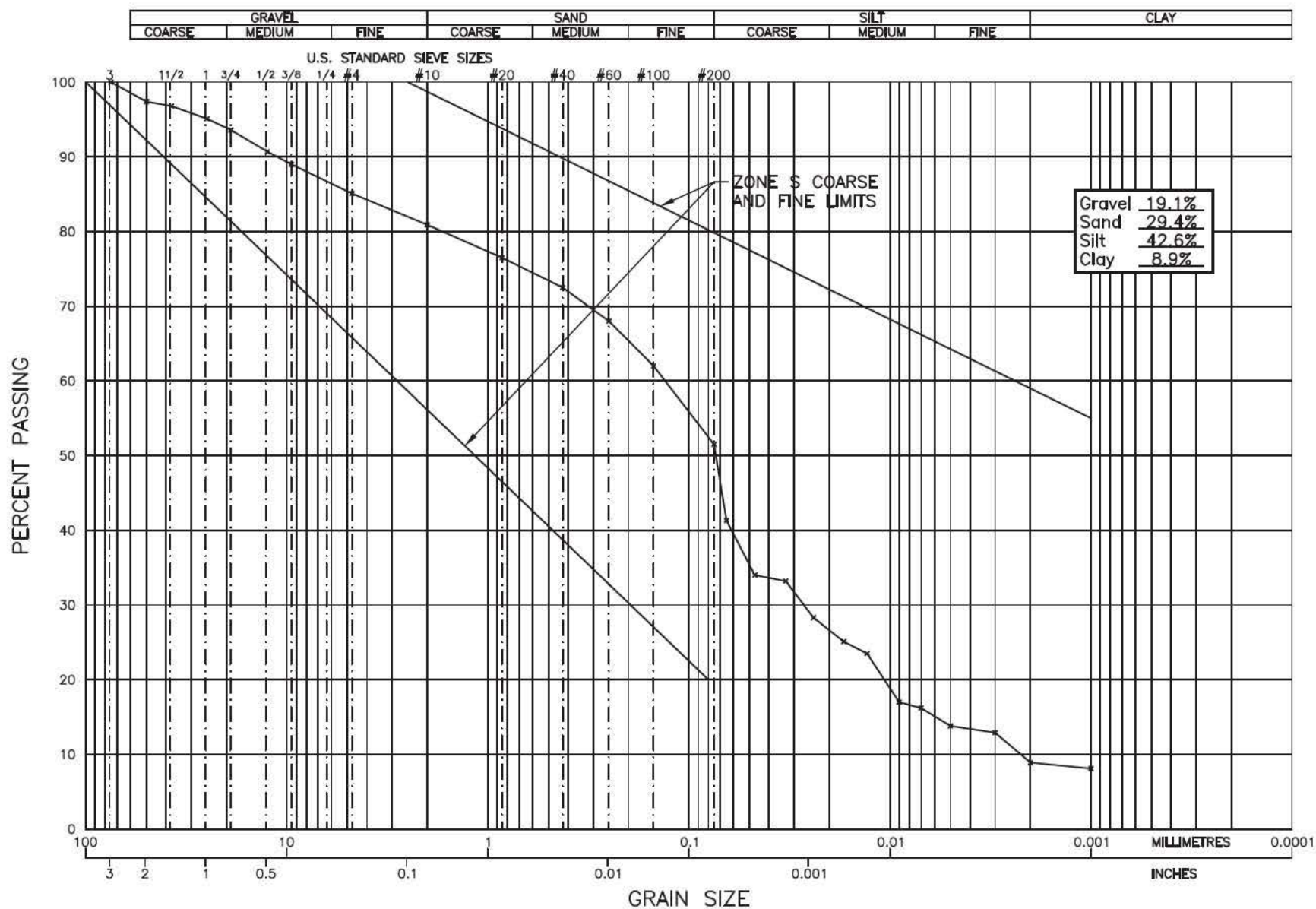


GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	97.4	
1 1/2"	37.5	mm	96.8	
1"	25	mm	95.1	
3/4"	19	mm	93.6	
1/2"	12.5	mm	90.7	
3/8"	9.5	mm	89.0	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	85.1	
No. 10	2.00	mm	80.9	
No. 20	850	µm	77.0	
No. 40	425	µm	73.0	
No. 60	250	µm	68.1	
No. 100	150	µm	62.7	
No. 200	75	µm	52.8	

COMMENTS

See Proctor Test #13


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3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

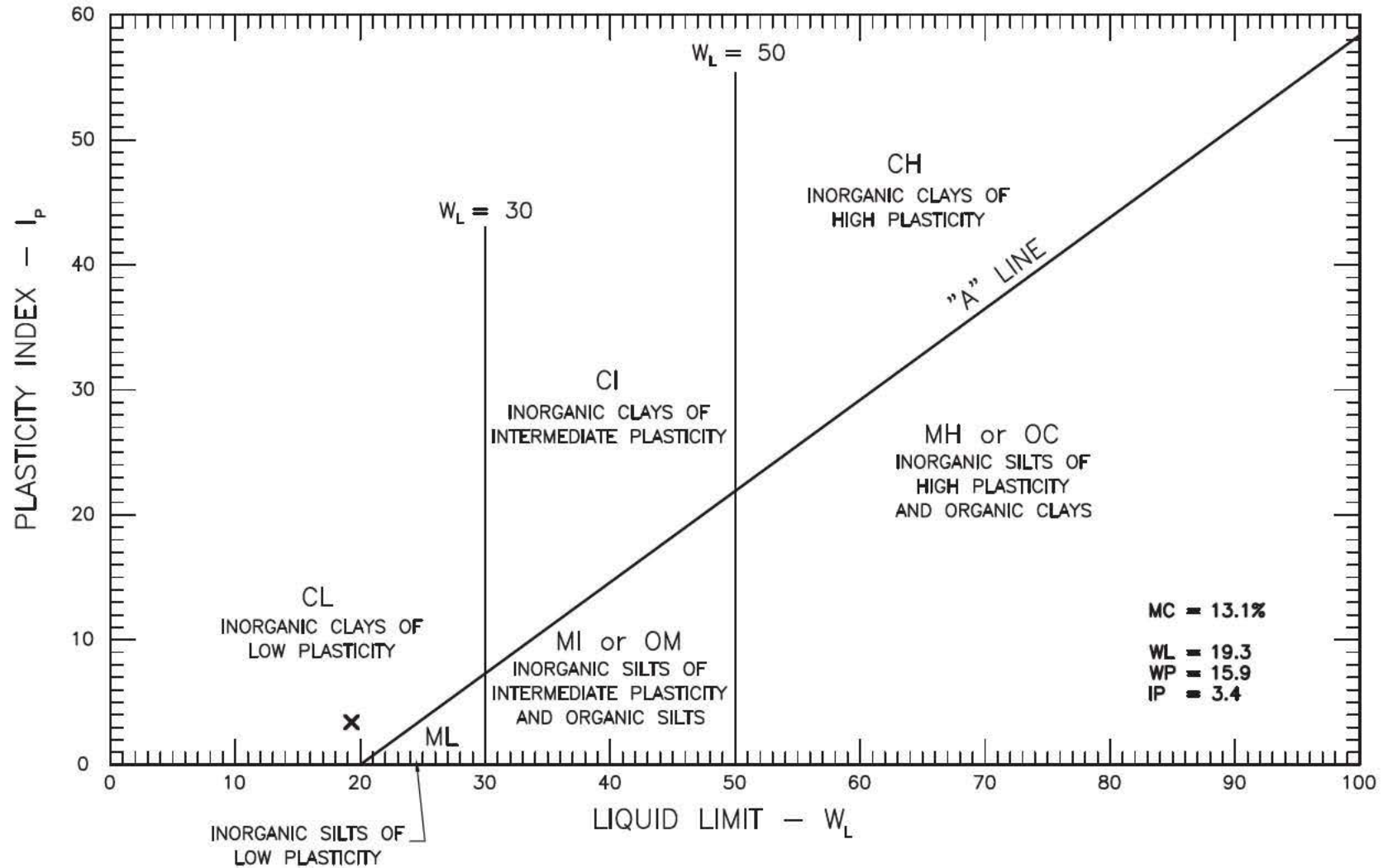
MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF R-S6B-ZS-07-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C22



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF R-S6B-ZS-07-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B9

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 13

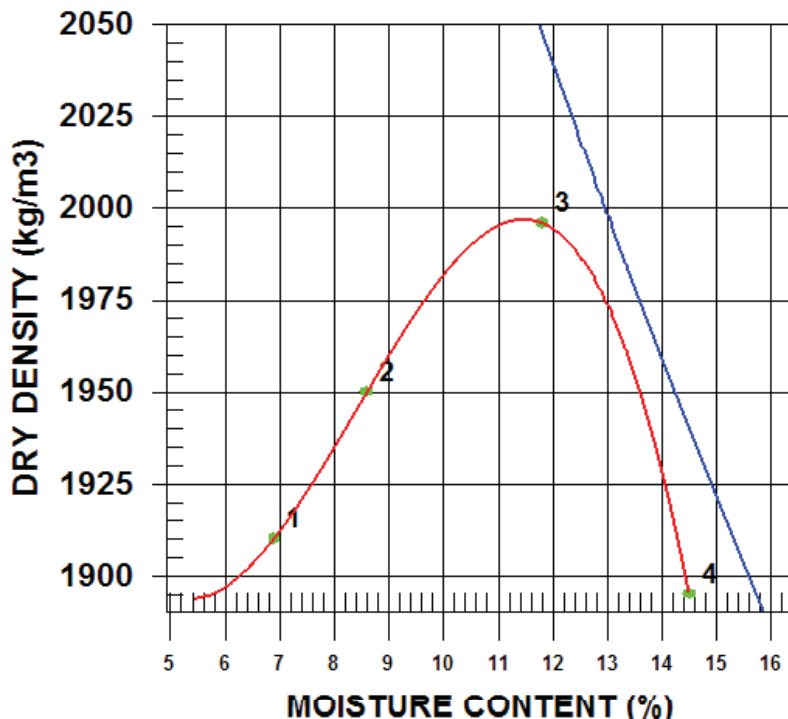
DATE TESTED 2010.Jul.19 DATE RECEIVED 2010.Jul.14 DATE SAMPLED 2010.Jul.07

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY JM

SUPPLIER
SOURCE R-S6B-ZS-07-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT Till
SIZE 50mm
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 14.4 %
OVERSIZE SPECIFIC GRAVITY 2.70
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2042	1910	6.9
2	2118	1950	8.6
3	2231	1996	11.8
4	2170	1895	14.5

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.70	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2000	11.5
OVERSIZE CORRECTED	2080	10.0

COMMENTS

Specific Gravity on oversize material is 2.70

See sieve test #42

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corporation							Date: July 20,2010				
Project Name: MPCP Stage 6B							Project #: K-2937				
Source/Location: R-S6B-ZS-07-2010							Type: Till				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: DJ				Checked By:			
Date Sampled: 07/07/2010				Date Received: 07/14/2010				Date Tested: 07/19/2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	80.9
Wet Wt. & Tare	990.2	25.4				20	2.7	47.3	94.6	76.5
Dry Wt. & Tare	898.4	19.0				40	2.5	44.8	89.6	72.5
Water Wt.	91.8	12.5				60	2.8	42.0	84.0	68.0
Tare Wt.	196.8	9.5	See Sieve test No 42			100	3.7	38.3	76.6	62.0
Wt. Of Dry Soil	701.6	4.75				200	6.5	31.8	63.6	51.5
Moisture Content %	13.1	10			80.9	Pan	31.8			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100xWet Soil Wt.)/(100 + Initial Moisture)		Total	701.6			Unwashed Wt.=				
						Tare		Wt. Passing #200 =		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.809	0.5	33.0	23.0	0.01317	25.5	12.1	4.917	0.065	51.0	41.3
50.0	0.809	1	28.5	23.0	0.01317	21.0	12.8	3.582	0.047	42.0	34.0
50.0	0.809	2	28.0	23.0	0.01317	20.5	12.9	2.541	0.033	41.0	33.2
50.0	0.809	4	25.0	23.0	0.01317	17.5	13.4	1.831	0.024	35.0	28.3
50.0	0.809	8	23.0	23.0	0.01317	15.5	13.7	1.310	0.017	31.0	25.1
50.0	0.809	15	22.0	23.0	0.01317	14.5	13.9	0.963	0.013	29.0	23.5
50.0	0.809	30	18.0	23.0	0.01317	10.5	14.6	0.697	0.009	21.0	17.0
50.0	0.809	60	17.5	23.0	0.01317	10.0	14.6	0.494	0.007	20.0	16.2
50.0	0.809	120	16.0	23.0	0.01317	8.5	14.9	0.352	0.005	17.0	13.8
50.0	0.809	240	15.5	23.0	0.01317	8.0	15.0	0.250	0.003	16.0	12.9
50.0	0.809	480	12.5	24.0	0.01301	5.5	15.4	0.179	0.002	11.0	8.9
50.0	0.809	1440	12.0	24.0	0.01301	5.0	15.5	0.104	0.001	10.0	8.1

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

Noelco

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 43 DATE RECEIVED 2010.Jul.20 DATE TESTED 2010.Jul.26 DATE SAMPLED 2010.Jul.17

SUPPLIER

SOURCE R-S6B-ZS-08-2010

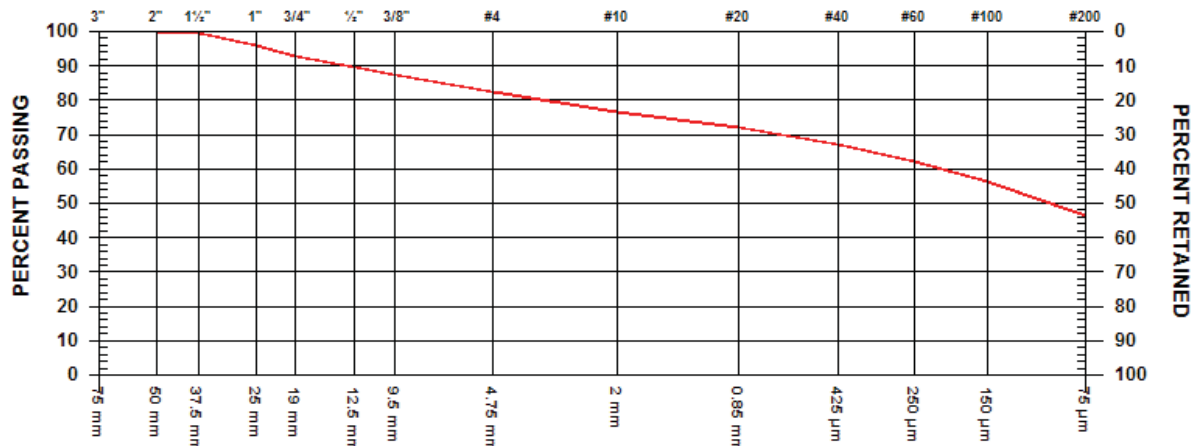
SPECIFICATION

MATERIAL TYPE Till

SAMPLED BY Client

TESTED BY BG

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm		
3/4"	19	mm		
1/2"	12.5	mm		
3/8"	9.5	mm	87.5	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	82.5	
No. 10	2.00	mm	76.6	
No. 20	850	µm	71.9	
No. 40	425	µm	67.3	
No. 60	250	µm	62.0	
No. 100	150	µm	56.4	
No. 200	75	µm	46.5	

MOISTURE CONTENT 6.5%

COMMENTS

Location:SE, Chainage:1400, Elevation:957.3

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corporation							Date: July 27,2010				
Project Name: MPCP Stage 6B							Project #: K-2937				
Source/Location: R-S6B-ZS-08-2010							Type: Till				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: DJ				Checked By:			
Date Sampled: July 17,2010				Date Received: July 20,2010				Date Tested: July 26,2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	76.6
Wet Wt. & Tare	845.7	25.4				20	0.1	49.9	99.8	76.4
Dry Wt. & Tare	787.8	19.0				40	0.1	49.8	99.6	76.3
Water Wt.	57.9	12.5				60	3.6	46.2	92.4	70.8
Tare Wt.	180.6	9.5	See Sieve Test #43			100	5.2	41.0	82.0	62.8
Wt. Of Dry Soil	607.2	4.75				200	7.3	33.7	67.4	51.6
Moisture Content %	9.5	10			76.6	Pan	33.7			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100xWet Soil Wt.)/(100 + Initial Moisture)		Total	607.2			Unwashed Wt.=				
						Tare		Wt. Passing #200 =		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.766	0.5	37.0	24.0	0.01301	30.0	11.3	4.763	0.062	60.0	46.0
50.0	0.766	1	32.5	24.0	0.01301	25.5	12.1	3.477	0.045	51.0	39.1
50.0	0.766	2	32.0	24.0	0.01301	25.0	12.2	2.467	0.032	50.0	38.3
50.0	0.766	4	29.5	24.0	0.01301	22.5	12.6	1.774	0.023	45.0	34.5
50.0	0.766	8	27.0	24.0	0.01301	20.0	13.0	1.275	0.017	40.0	30.6
50.0	0.766	15	25.0	24.0	0.01301	18.0	13.3	0.943	0.012	36.0	27.6
50.0	0.766	30	23.5	24.0	0.01301	16.5	13.6	0.673	0.009	33.0	25.3
50.0	0.766	60	21.5	24.0	0.01301	14.5	13.9	0.481	0.006	29.0	22.2
50.0	0.766	120	20.0	24.0	0.01301	13.0	14.2	0.343	0.004	26.0	19.9
50.0	0.766	240	18.0	24.0	0.01301	11.0	14.5	0.246	0.003	22.0	16.9
50.0	0.766	480	15.5	26.0	0.01272	9.0	14.8	0.176	0.002	18.0	13.8
50.0	0.766	1440	14.0	26.0	0.01272	7.5	15.1	0.102	0.001	15.0	11.5

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids: Specific gravity = 2.672			
Description of Sample:			

Noelco

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 14

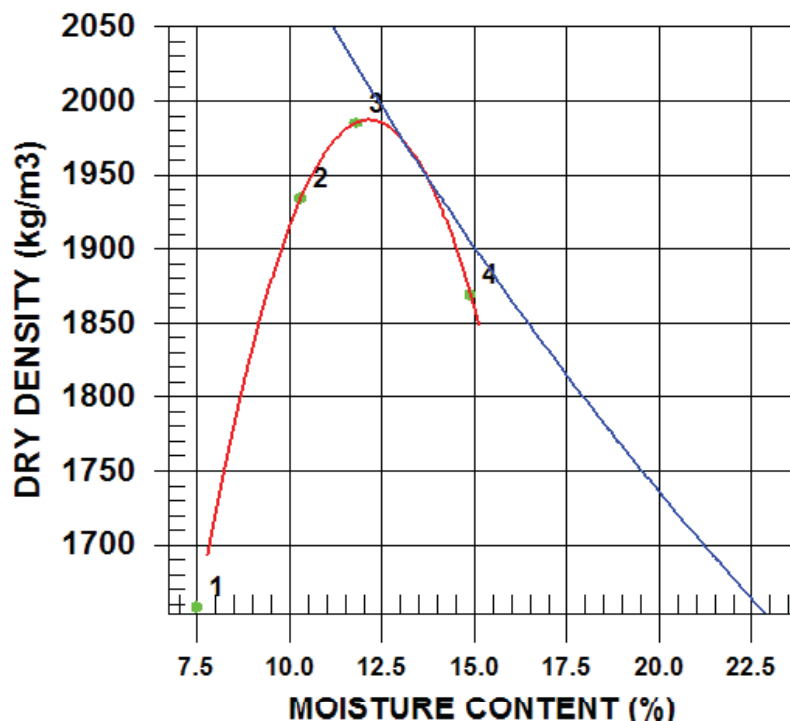
DATE TESTED 2010.Jul.26 DATE RECEIVED 2010.Jul.20 DATE SAMPLED 2010.Jul.17

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY DJ

SUPPLIER
SOURCE R-S6B-ZS-08-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT Till
SIZE 37.5mm
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 16.6 %
OVERSIZE SPECIFIC GRAVITY 2.66
TOTAL NUMBER OF TRIALS 4



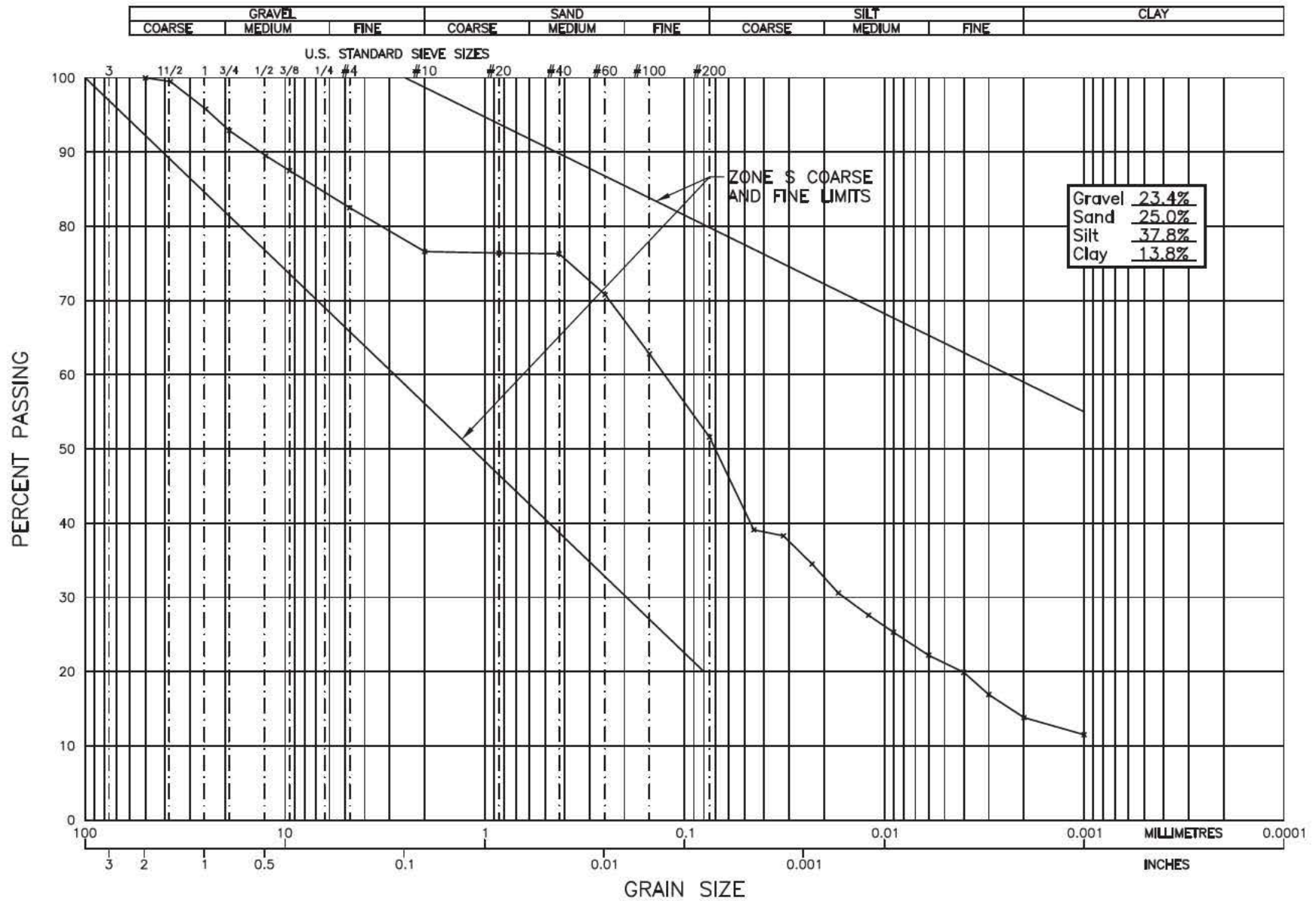
TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1782	1658	7.5
2	2133	1934	10.3
3	2219	1985	11.8
4	2148	1869	14.9

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.66	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1990	12.0
OVERSIZE CORRECTED	2080	10.0

COMMENTS

Location:SE, Chainage:1400, Elevation:957.3

See sieve test report #43


GEO NORTH ENGINEERING LTD.

 3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

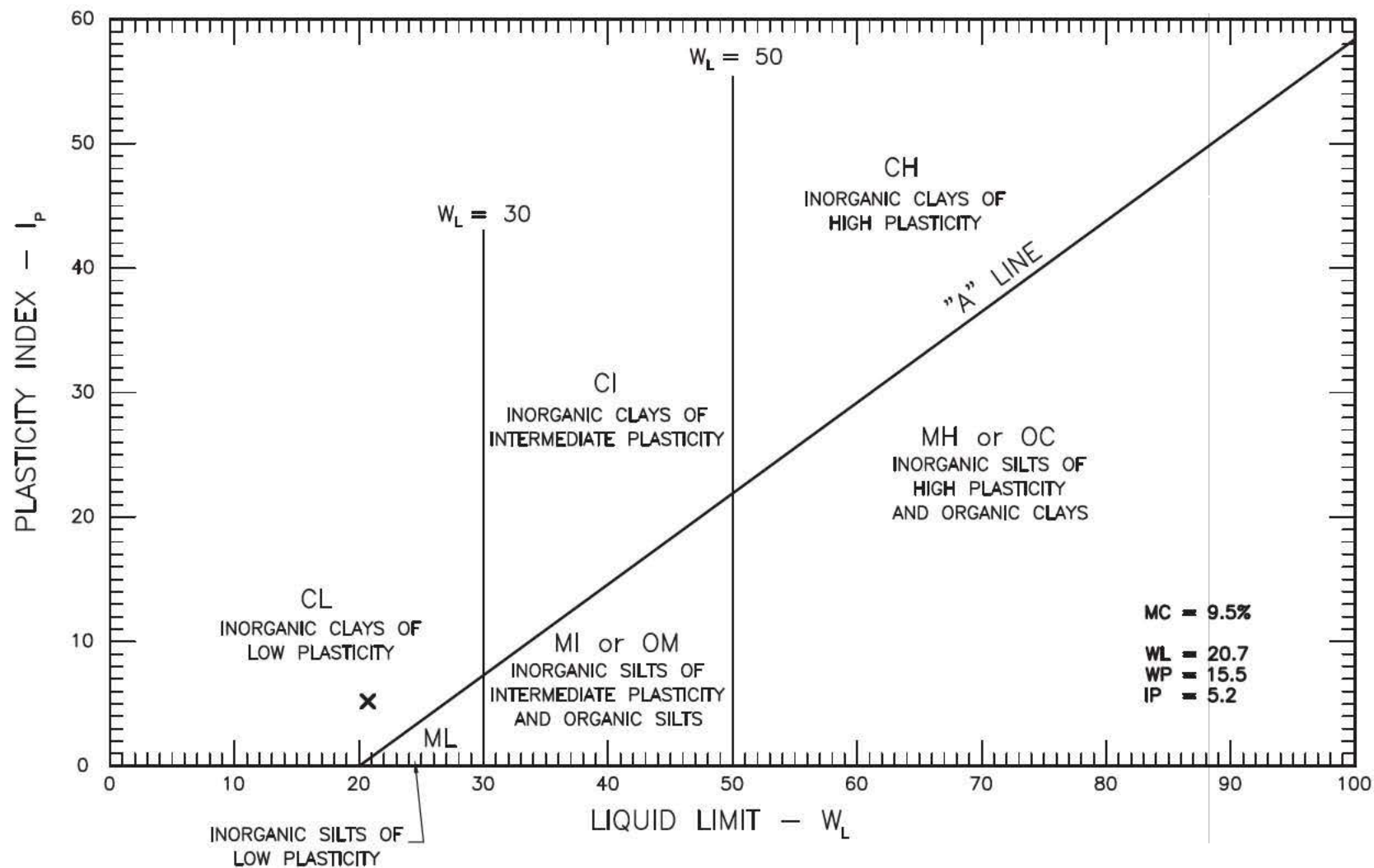
MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZS-08-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C24



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF R-S6B-ZS-08-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B10

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 44 DATE RECEIVED 2010.Jul.20 DATE TESTED 2010.Jul.26 DATE SAMPLED 2010.Jul.14

SUPPLIER

SOURCE R-S6B-ZS-09-2010

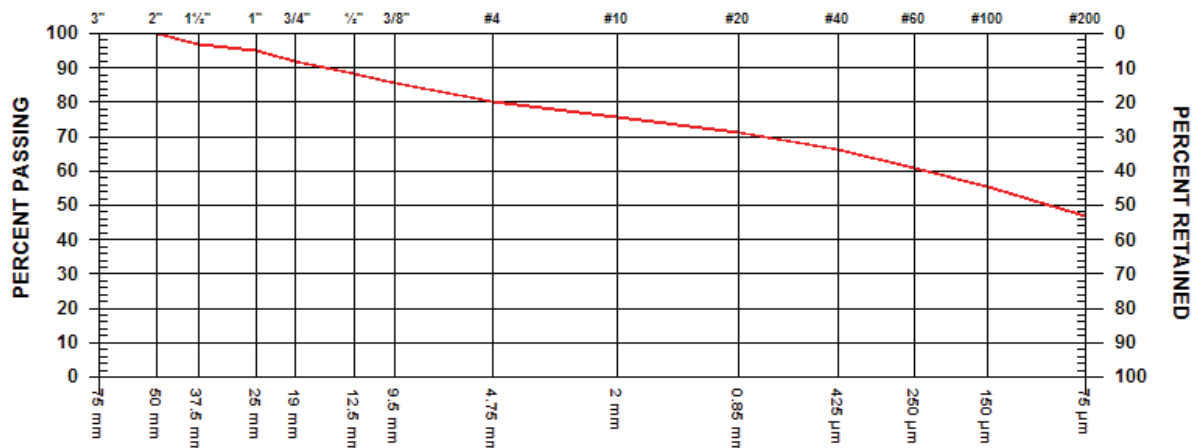
SPECIFICATION

MATERIAL TYPE Till

SAMPLED BY Client

TESTED BY BG

TEST METHOD WASHED



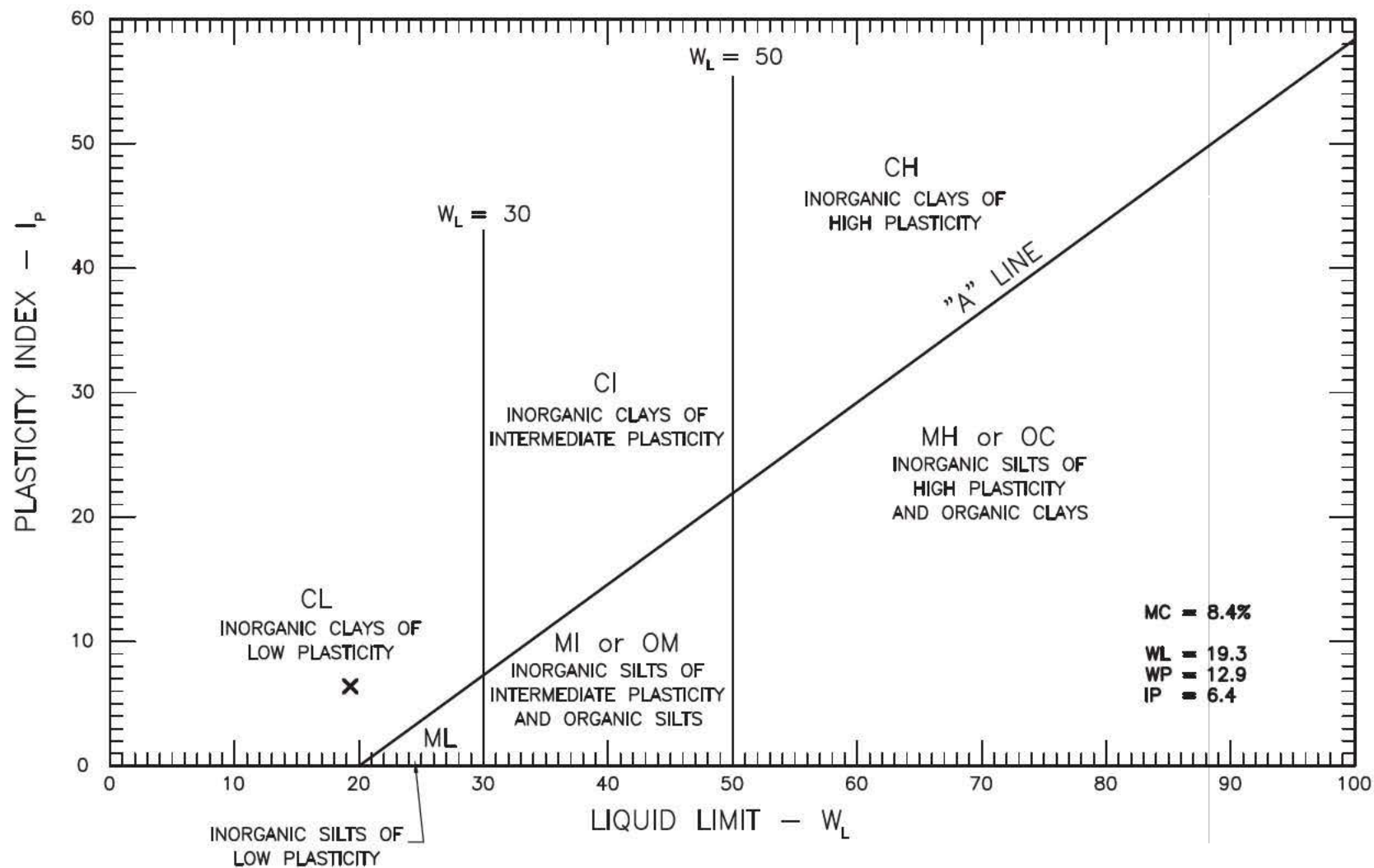
GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm		
3/4"	19	mm		
1/2"	12.5	mm		
3/8"	9.5	mm		

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	80.3	
No. 10	2.00	mm	75.5	
No. 20	850	µm	71.0	
No. 40	425	µm	66.3	
No. 60	250	µm	60.8	
No. 100	150	µm	55.2	
No. 200	75	µm	46.7	

MOISTURE CONTENT 4.1 %

COMMENTS

Location:ME, Chainage:1700, Elevation:957.3

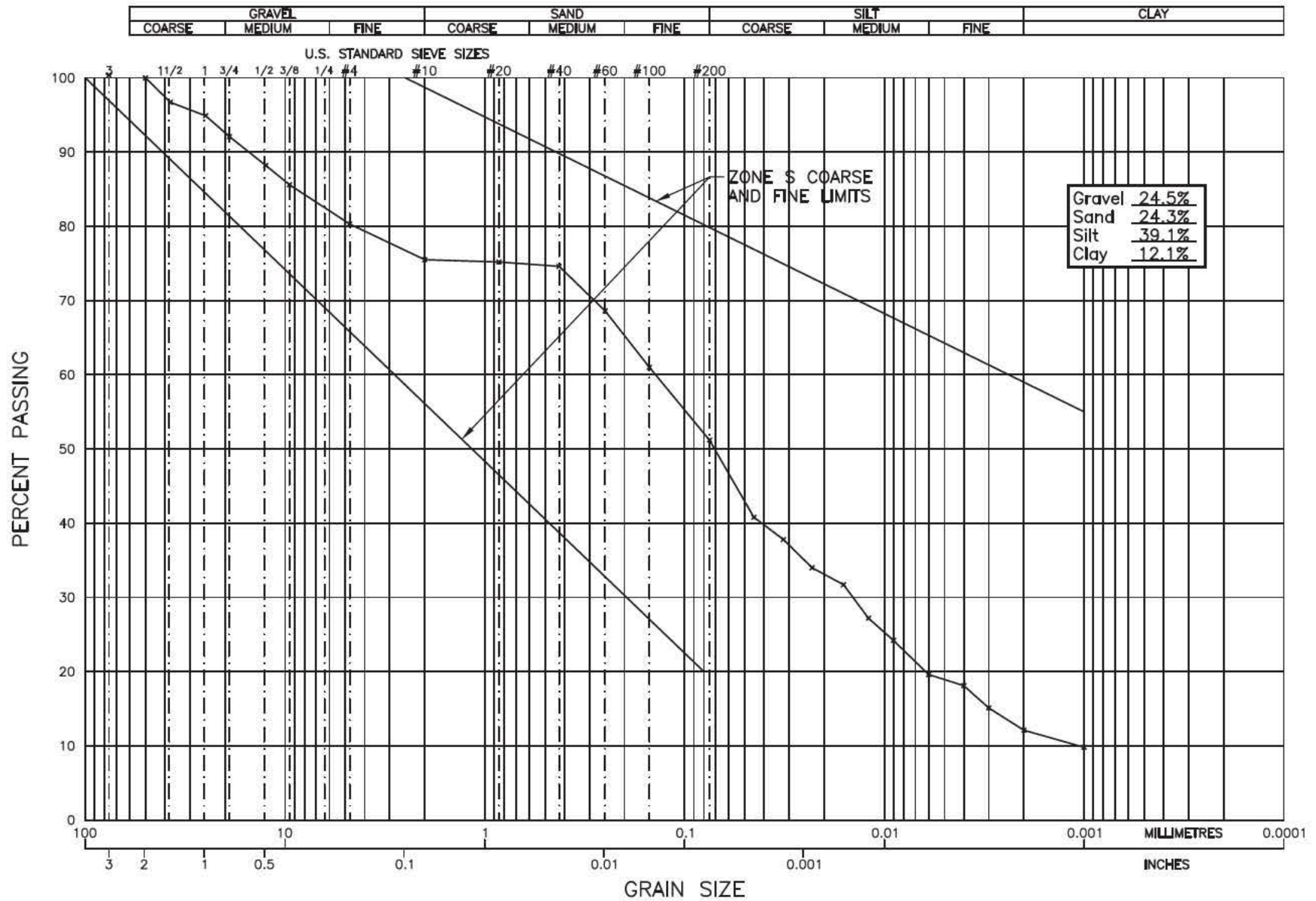

GEO NORTH ENGINEERING LTD.

3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 ATTERBERG LIMITS OF R-S6B-ZS-09-2010

PROJECT NO.
 K-2937

PLATE NO.
 2937-B11


GEO NORTH ENGINEERING LTD.

3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF R-S6B-ZS-09-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C25

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corporation							Date: July 27,2010				
Project Name: MPCP Stage 6B							Project #: K-2937				
Source/Location: R-S6B-ZS-09-2010							Type: Till				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: DJ				Checked By:			
Date Sampled: July 14,2010				Date Received: July 20,2010				Date Tested: July 26,2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	75.5
Wet Wt. & Tare	737.1	25.4				20	0.2	49.8	99.6	75.2
Dry Wt. & Tare	694.1	19.0				40	0.4	49.4	98.8	74.6
Water Wt.	43.0	12.5				60	4.0	45.4	90.8	68.6
Tare Wt.	179.4	9.5	See Sieve Test #44			100	5.0	40.4	80.8	61.0
Wt. Of Dry Soil	514.7	4.75				200	6.5	33.9	67.8	51.2
Moisture Content %	8.4	10			75.5	Pan	33.9			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100xWet Soil Wt.)/(100 + Initial Moisture)		Total	514.7			Unwashed Wt.=				
						Tare		Wt. Passing #200 =		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.755	0.5	38.0	24.0	0.01301	31.0	11.2	4.729	0.062	62.0	46.8
50.0	0.755	1	34.0	24.0	0.01301	27.0	11.8	3.441	0.045	54.0	40.8
50.0	0.755	2	32.0	24.0	0.01301	25.0	12.2	2.467	0.032	50.0	37.8
50.0	0.755	4	29.5	24.0	0.01301	22.5	12.6	1.774	0.023	45.0	34.0
50.0	0.755	8	28.0	24.0	0.01301	21.0	12.8	1.266	0.016	42.0	31.7
50.0	0.755	15	25.0	24.0	0.01301	18.0	13.3	0.943	0.012	36.0	27.2
50.0	0.755	30	23.0	24.0	0.01301	16.0	13.7	0.675	0.009	32.0	24.2
50.0	0.755	60	20.0	24.0	0.01301	13.0	14.2	0.486	0.006	26.0	19.6
50.0	0.755	120	19.0	24.0	0.01301	12.0	14.3	0.345	0.004	24.0	18.1
50.0	0.755	240	17.0	24.0	0.01301	10.0	14.6	0.247	0.003	20.0	15.1
50.0	0.755	480	14.5	26.0	0.01272	8.0	15.0	0.177	0.002	16.0	12.1
50.0	0.755	1440	13.0	26.0	0.01272	6.5	15.2	0.103	0.001	13.0	9.8

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids: Specific Gravity =2.667			
Description of Sample:			

Noelco

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 15

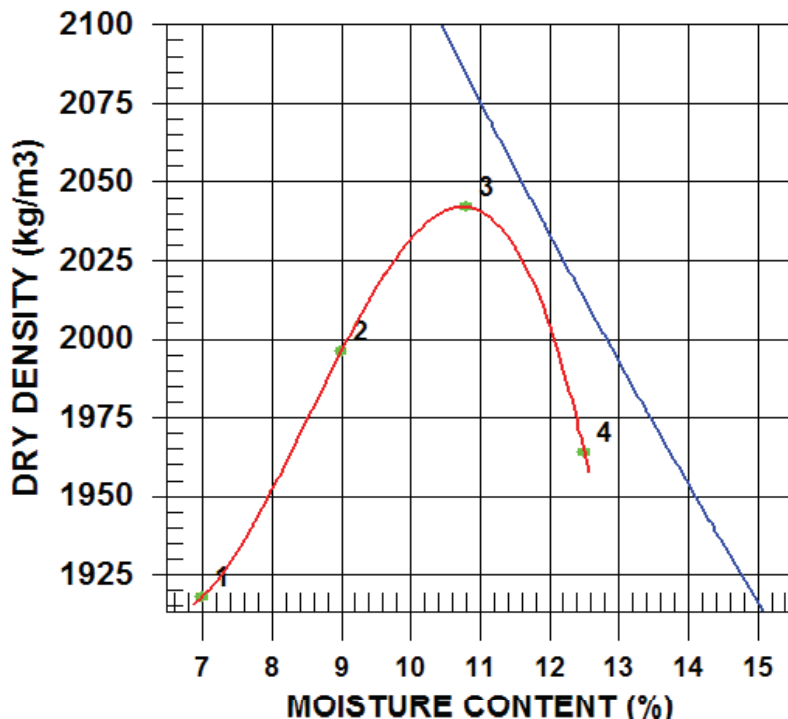
DATE TESTED 2010.Jul.26 DATE RECEIVED 2010.Jul.20 DATE SAMPLED 2010.Jul.14

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY DJ

SUPPLIER
SOURCE R-S6B-ZS-09-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT Till
SIZE 37.5mm
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 19.1 %
OVERSIZE SPECIFIC GRAVITY 2.69
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2052	1918	7.0
2	2176	1996	9.0
3	2263	2042	10.8
4	2209	1964	12.5

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.69	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2040	11.0
OVERSIZE CORRECTED	2140	9.0

COMMENTS

Location:ME, Chainage:1700, Elevation:957.3

See sieve test report #44. Previously labeled R-S6B-ZS-07-2010

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 45 DATE RECEIVED 2010.Jul.27 DATE TESTED 2010.Aug.03 DATE SAMPLED 2010.Jul.23

SUPPLIER

SOURCE R-S6B-ZS-10-2010

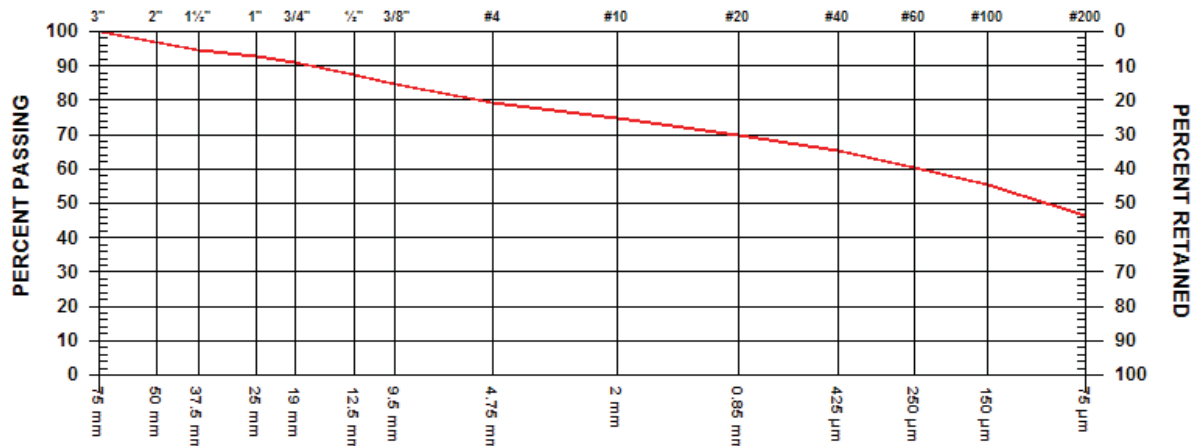
SPECIFICATION

MATERIAL TYPE Till Core Material

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED

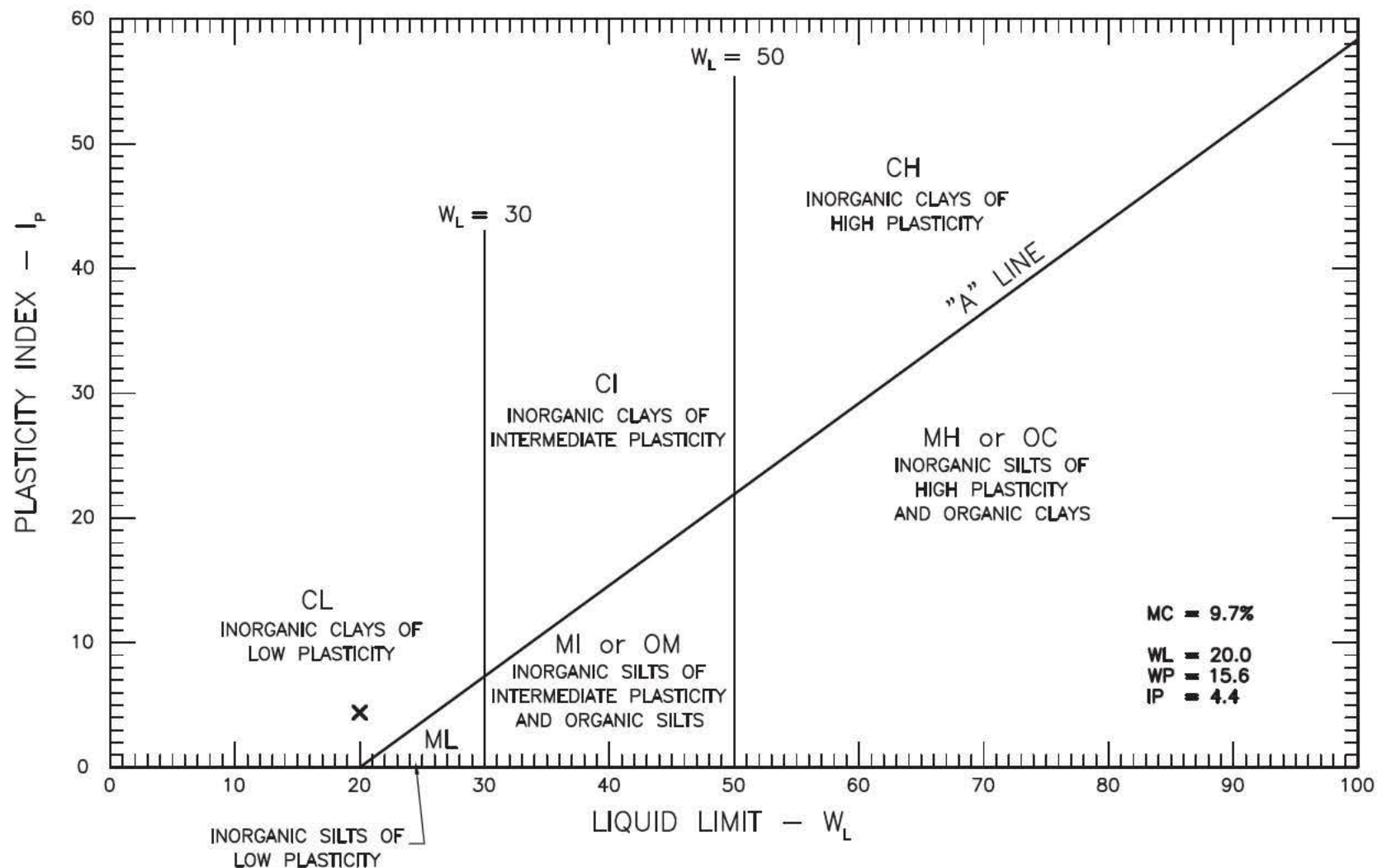


GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	96.8	
1 1/2"	37.5	mm	94.5	
1"	25	mm	92.9	
3/4"	19	mm	90.8	
1/2"	12.5	mm	87.3	
3/8"	9.5	mm	84.6	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	79.2	
No. 10	2.00	mm	75.0	
No. 20	850	µm	70.0	
No. 40	425	µm	65.4	
No. 60	250	µm	60.4	
No. 100	150	µm	55.2	
No. 200	75	µm	46.5	

COMMENTS

Note* This Sample ID# changed from 09 to 10
Location:PE, Chainage:3100, Elevation:958.00



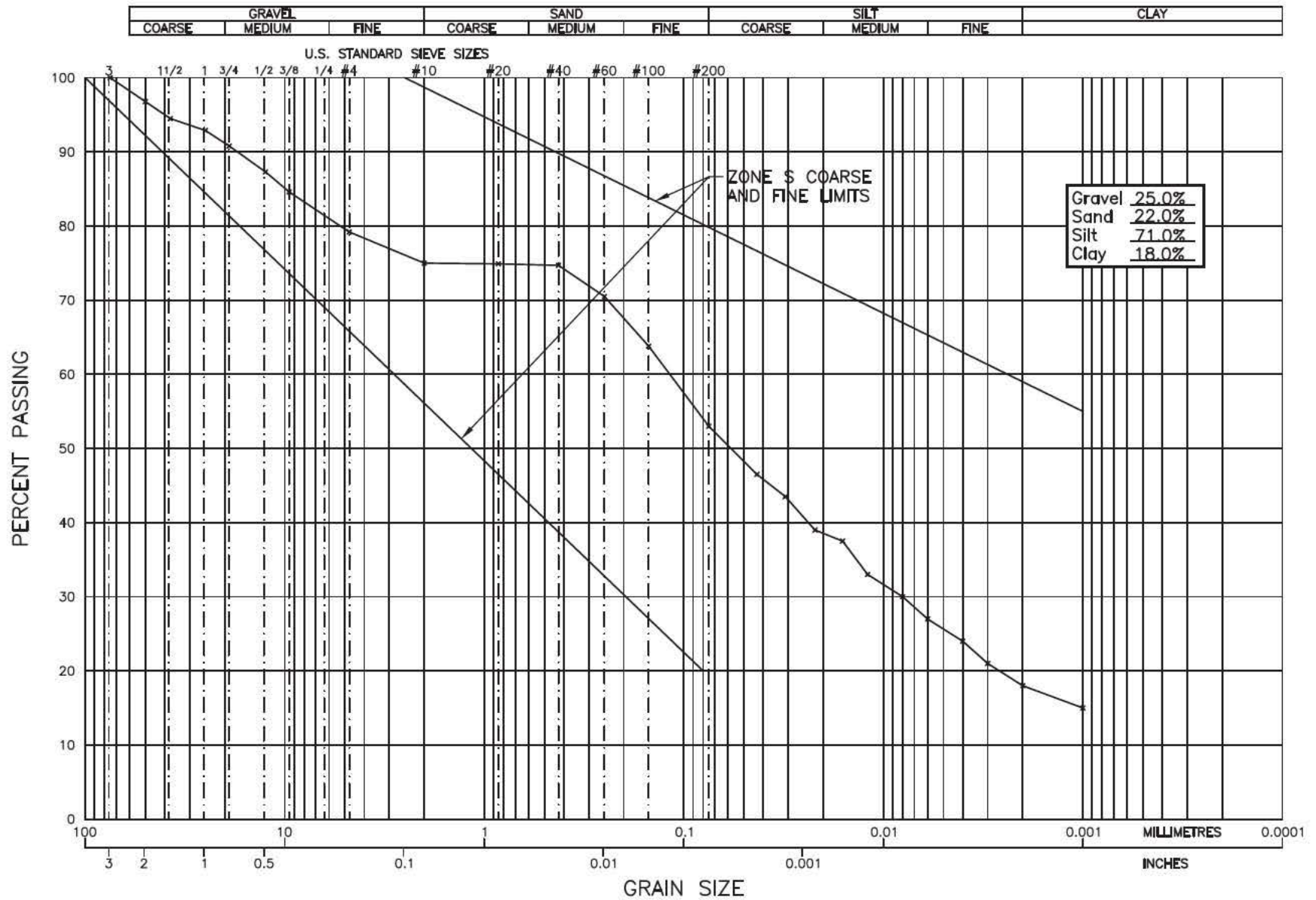
GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF R-S6B-ZS-10-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B12



GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corporation							Date: August 5, 2010				
Project Name: MPCP Stage 6B							Project #: K-2937				
Source/Location: R-S6B-ZS-10-2010							Type: Till Core Material				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: DJ				Checked By:			
Date Sampled: July 23, 2010				Date Received: July 27, 2010				Date Tested: August 4, 2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	75.0
Wet Wt. & Tare	781.9	25.4				20	0.1	49.9	99.8	74.9
Dry Wt. & Tare	728.9	19.0				40	0.1	49.8	99.6	74.7
Water Wt.	53.0	12.5				60	2.8	47.0	94.0	70.5
Tare Wt.	180.3	9.5	See Sieve Test No 45			100	4.5	42.5	85.0	63.8
Wt. Of Dry Soil	548.6	4.75				200	7.2	35.3	70.6	53.0
Moisture Content %	9.7	10			75.0	Pan	35.3			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100 x Wet Soil Wt.) / (100 + Initial Moisture)		Total	548.6			Unwashed Wt. =				
						Tare		Wt. Passing #200 =		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.750	0.5	38.0	25.0	0.01286	34.0	10.7	4.623	0.059	68.0	51.0
50.0	0.750	1	35.0	25.0	0.01286	31.0	11.2	3.344	0.043	62.0	46.5
50.0	0.750	2	33.0	25.0	0.01286	29.0	11.5	2.399	0.031	58.0	43.5
50.0	0.750	4	30.0	25.0	0.01286	26.0	12.0	1.732	0.022	52.0	39.0
50.0	0.750	8	29.0	25.0	0.01286	25.0	12.2	1.233	0.016	50.0	37.5
50.0	0.750	15	26.0	25.0	0.01286	22.0	12.7	0.919	0.012	44.0	33.0
50.0	0.750	30	24.0	25.0	0.01286	20.0	13.0	0.658	0.008	40.0	30.0
50.0	0.750	60	22.0	25.0	0.01286	18.0	13.3	0.471	0.006	36.0	27.0
50.0	0.750	120	20.0	25.0	0.01286	16.0	13.7	0.337	0.004	32.0	24.0
50.0	0.750	240	18.0	25.0	0.01286	14.0	14.0	0.241	0.003	28.0	21.0
50.0	0.750	480	16.0	25.0	0.01286	12.0	14.3	0.173	0.002	24.0	18.0
50.0	0.750	1440	14.0	25.0	0.01286	10.0	14.6	0.101	0.001	20.0	15.0

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

Noelco

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 16

DATE TESTED 2010.Jul.30

DATE RECEIVED 2010.Jul.27

DATE SAMPLED 2010.Jul.23

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY SR

SUPPLIER
SOURCE R-S6B-ZS-10-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT Till
SIZE 50mm
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD

COMPACTION PROCEDURE

RAMMER TYPE

PREPARATION

OVERSIZE CORRECTION METHOD

RETAINED 4.75mm SCREEN

OVERSIZE SPECIFIC GRAVITY

TOTAL NUMBER OF TRIALS

Standard Proctor,
ASTM D698

A: 101.6mm Mold,
Passing 4.75mm
Automatic

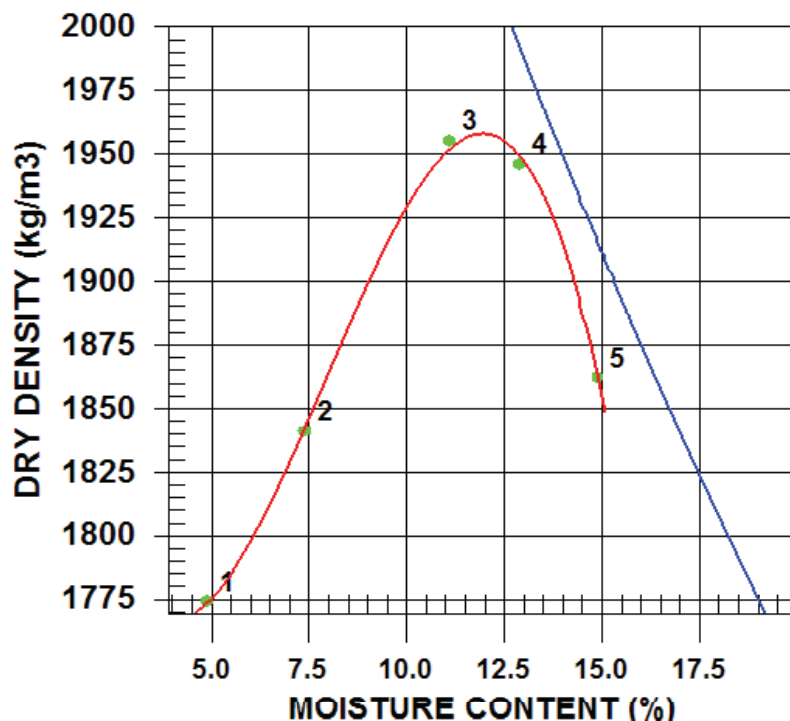
Moist

ASTM 4718

20.0 %

2.68

5



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1861	1774	4.9
2	1977	1841	7.4
3	2172	1955	11.1
4	2197	1946	12.9
5	2140	1862	14.9

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.68	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1960	12.0
OVERSIZE CORRECTED	2070	10.0

COMMENTS

Note* This sample ID# changed from 09 to 10.

Location:PE, Chainage:3100, Elevation:958.00

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 46 DATE RECEIVED 2010.Jul.29 DATE TESTED 2010.Aug.03 DATE SAMPLED 2010.Jul.27

SUPPLIER

SOURCE R-S6B-ZS-11-2010

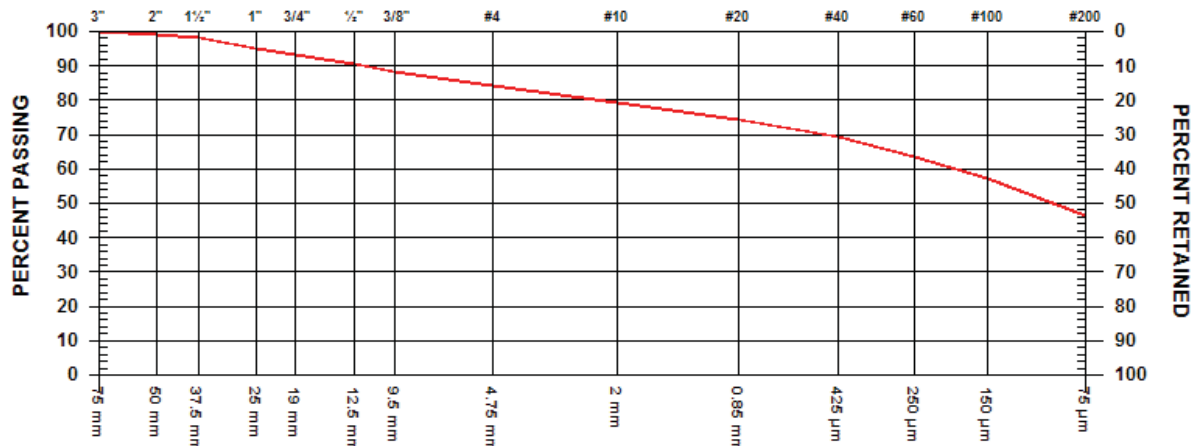
SPECIFICATION

MATERIAL TYPE Till core material, PE Borrow

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED

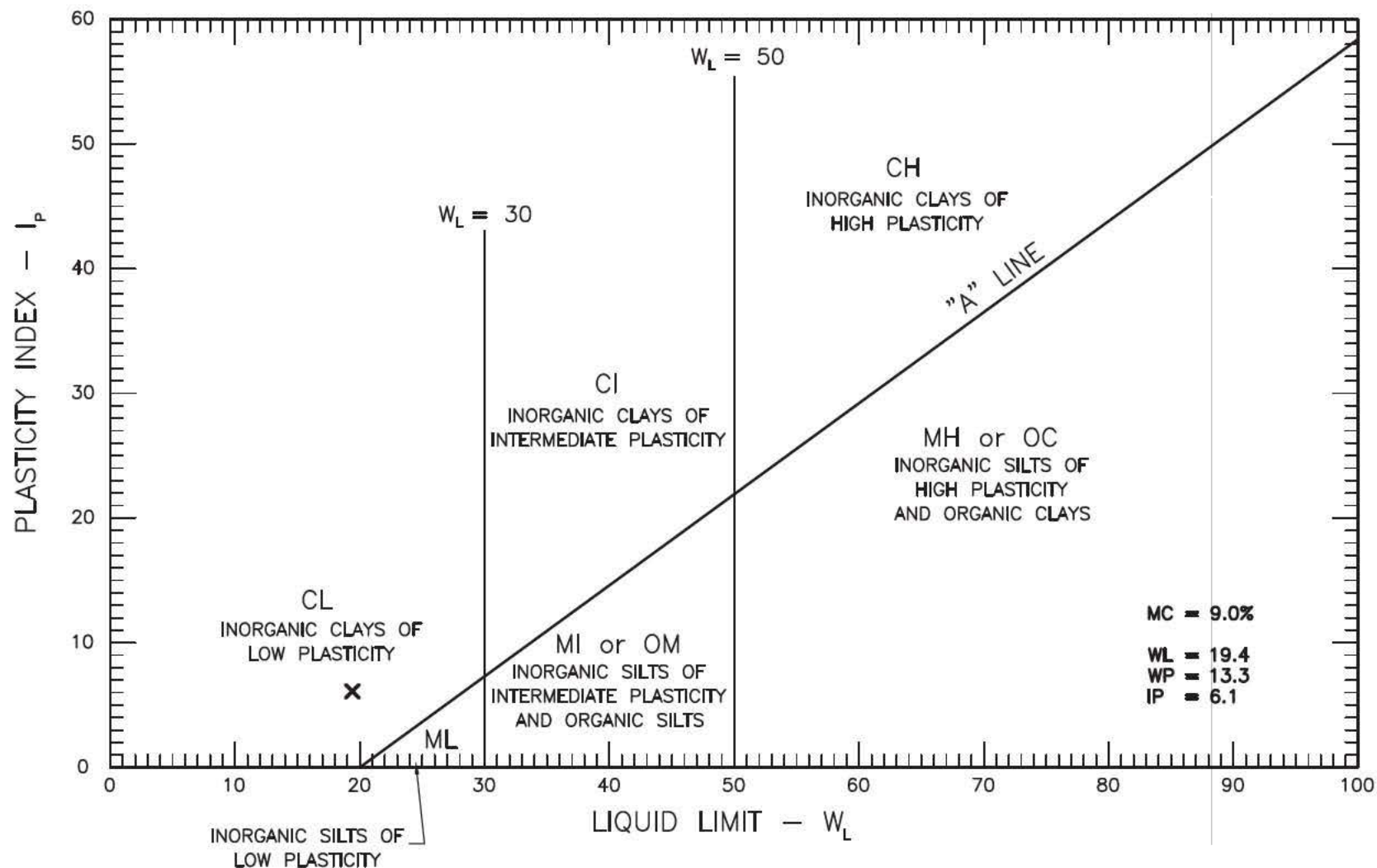


GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	99.2	
1 1/2"	37.5	mm	98.4	
1"	25	mm	95.2	
3/4"	19	mm	93.2	
1/2"	12.5	mm	90.4	
3/8"	9.5	mm	88.5	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	84.3	
No. 10	2.00	mm	79.5	
No. 20	850	µm	74.3	
No. 40	425	µm	69.3	
No. 60	250	µm	63.5	
No. 100	150	µm	57.0	
No. 200	75	µm	46.6	

COMMENTS

Location:ME, Chainage:1900, Elevation:958.0



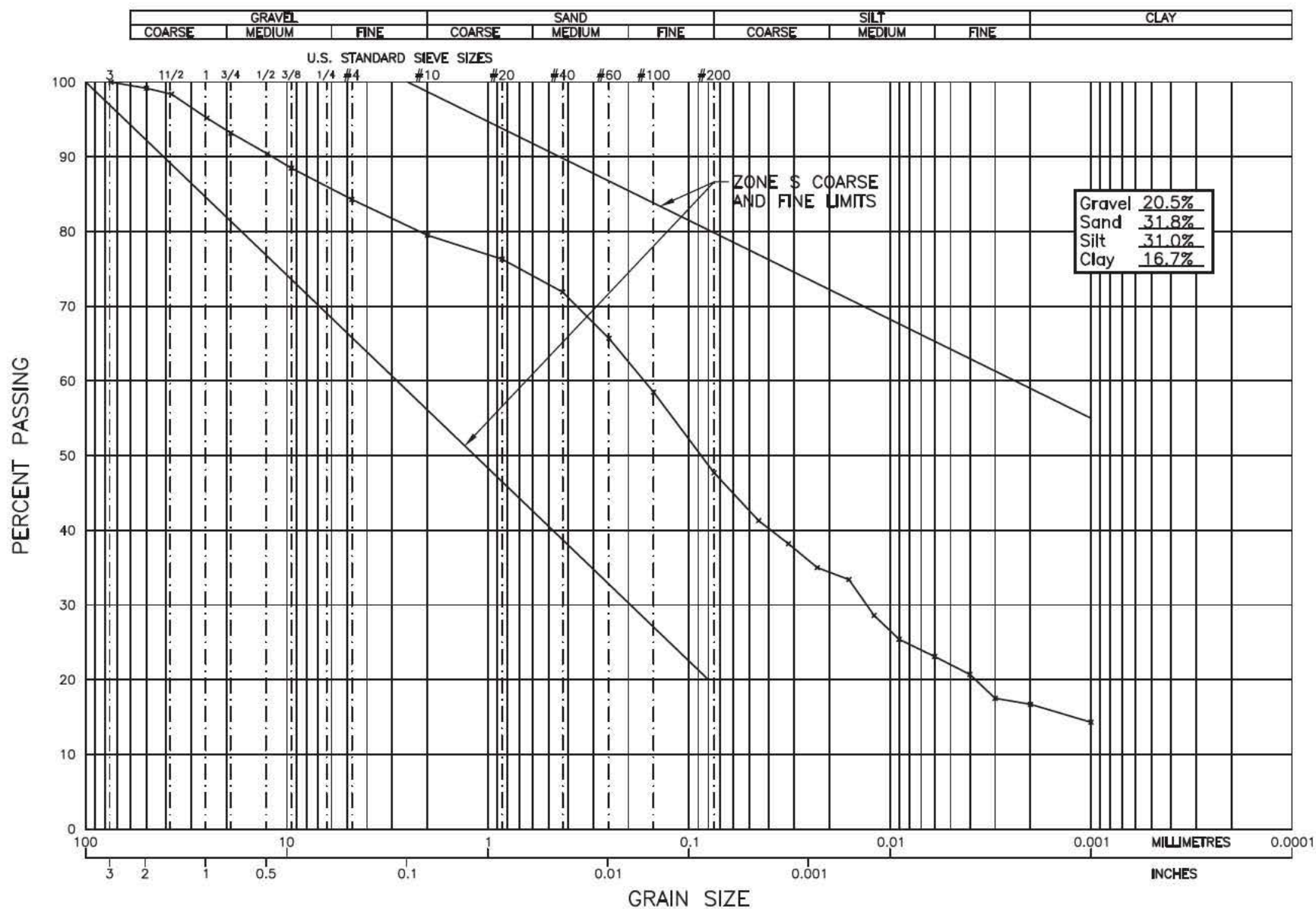
GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF R-S6B-ZS-11-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B13


GEO NORTH ENGINEERING LTD.

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 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

 MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF R-S6B-ZS-11-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C27

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corporation							Date Tested: August 5,2010				
Project Name: MPCP Stage 6B							Project #: K-2937				
Source/Location: R-S6B-ZS-11-2010							Type: Till Core / PE Borrow				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: DJ				Checked By:			
Date Sampled: July 27,2010				Date Received: July 29,2010				Date Tested: August 4,2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	79.5
Wet Wt. & Tare	944.0	25.4				20	2.0	48.0	96.0	76.3
Dry Wt. & Tare	880.9	19.0				40	2.8	45.2	90.4	71.9
Water Wt.	63.1	12.5				60	3.9	41.3	82.6	65.7
Tare Wt.	180.4	9.5	See Sieve Test No 46			100	4.5	36.8	73.6	58.5
Wt. Of Dry Soil	700.5	4.75				200	6.8	30.0	60.0	47.7
Moisture Content %	9.0	10			79.5	Pan	30.0			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100xWet Soil Wt.)/(100 + Initial Moisture)		Total	700.5			Unwashed Wt.=				
						Tare		Wt. Passing #200 =		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.795	0.5	33.0	25.0	0.01286	29.0	11.5	4.798	0.062	58.0	46.1
50.0	0.795	1	30.0	25.0	0.01286	26.0	12.0	3.465	0.045	52.0	41.3
50.0	0.795	2	28.0	25.0	0.01286	24.0	12.3	2.483	0.032	48.0	38.2
50.0	0.795	4	26.0	25.0	0.01286	22.0	12.7	1.779	0.023	44.0	35.0
50.0	0.795	8	25.0	25.0	0.01286	21.0	12.8	1.266	0.016	42.0	33.4
50.0	0.795	15	22.0	25.0	0.01286	18.0	13.3	0.943	0.012	36.0	28.6
50.0	0.795	30	20.0	25.0	0.01286	16.0	13.7	0.675	0.009	32.0	25.4
50.0	0.795	60	18.5	25.0	0.01286	14.5	13.9	0.481	0.006	29.0	23.1
50.0	0.795	120	17.0	25.0	0.01286	13.0	14.2	0.343	0.004	26.0	20.7
50.0	0.795	240	15.0	25.0	0.01286	11.0	14.5	0.246	0.003	22.0	17.5
50.0	0.795	480	14.5	25.0	0.01286	10.5	14.6	0.174	0.002	21.0	16.7
50.0	0.795	1440	13.0	25.0	0.01286	9.0	14.8	0.101	0.001	18.0	14.3

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

Noelco

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 17

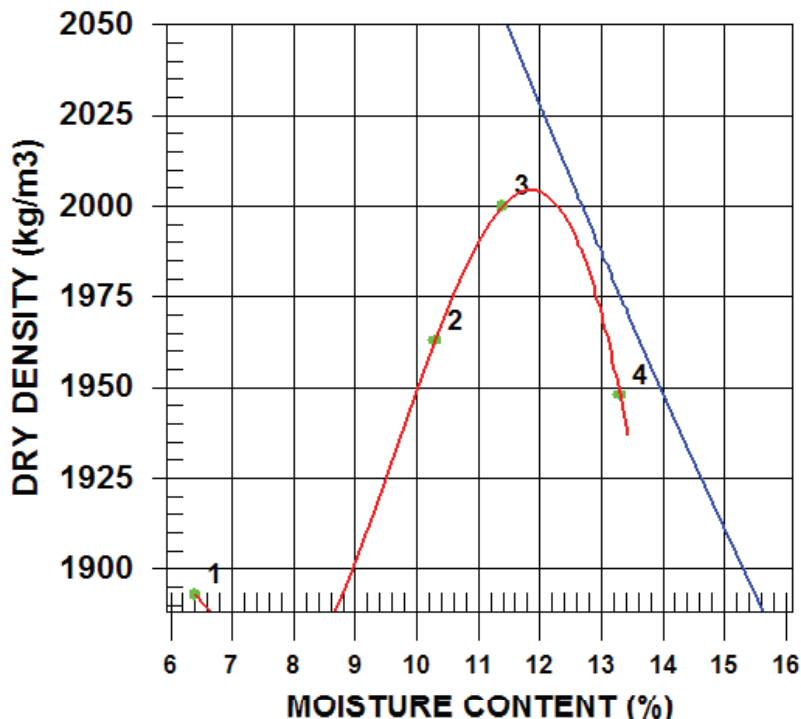
DATE TESTED 2010.Aug.04 DATE RECEIVED 2010.Jul.29 DATE SAMPLED 2010.Jul.27

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY JM

SUPPLIER
SOURCE R-S6B-ZS-11-2010

MATERIAL IDENTIFICATION
MAJOR COMPONENT Till
SIZE 50mm
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor,
ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold,
Passing 4.75mm
Automatic
RAMMER TYPE Moist
PREPARATION
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 20.0 %
OVERSIZE SPECIFIC GRAVITY 2.68
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2014	1893	6.4
2	2165	1963	10.3
3	2228	2000	11.4
4	2207	1948	13.3

ZERO AIR VOIDS CURVE FOR ESTIMATED SPECIFIC GRAVITY OF 2.68	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2000	12.0
OVERSIZE CORRECTED	2110	10.0

COMMENTS

Location:ME, Chainage:1900, Elevation:958.0.

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 47 DATE RECEIVED 2010.Aug.05 DATE TESTED 2010.Aug.09 DATE SAMPLED 2010.Jul.29

SUPPLIER

SOURCE R-S6B-ZS-12-2010

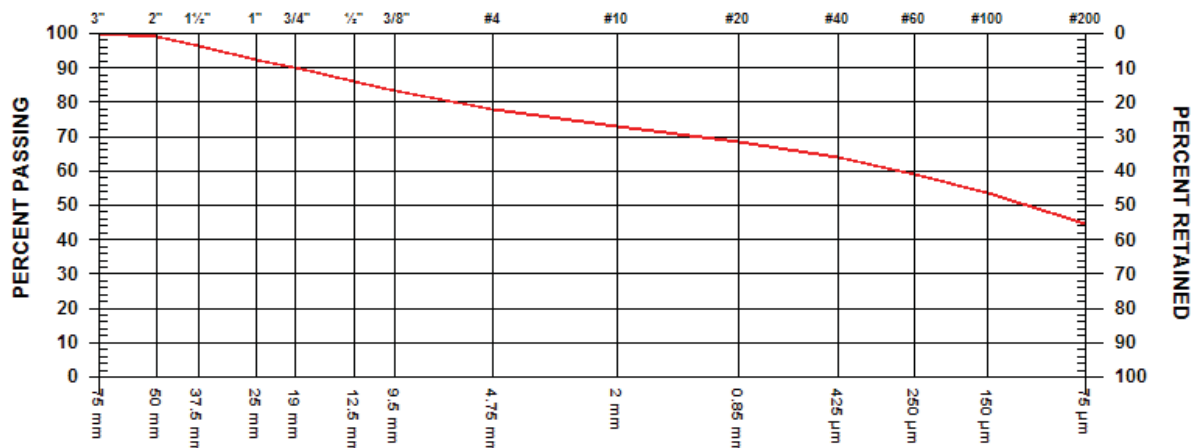
SPECIFICATION

MATERIAL TYPE Till

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



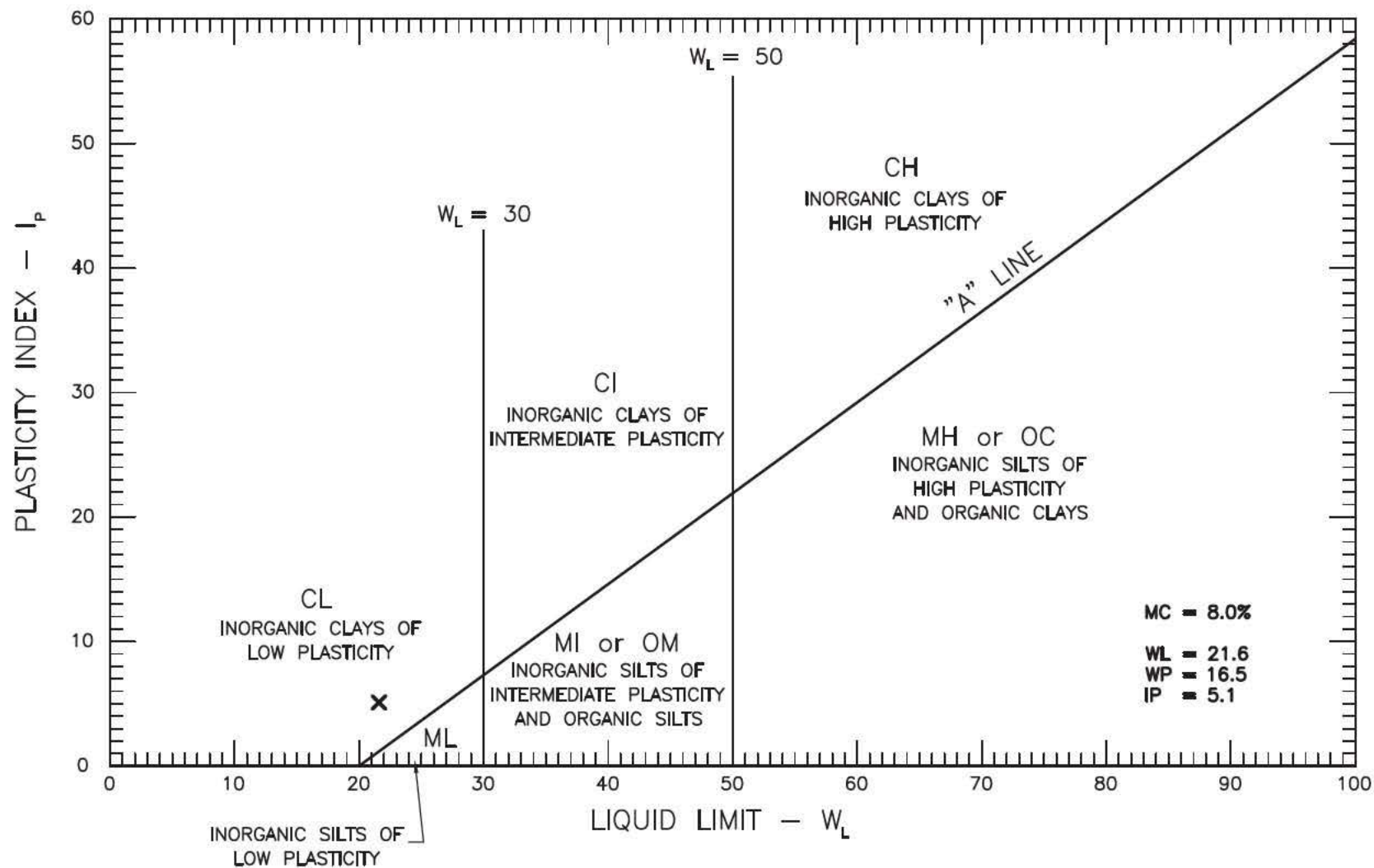
GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	99.0	
1 1/2"	37.5	mm	96.6	
1"	25	mm	92.3	
3/4"	19	mm	90.0	
1/2"	12.5	mm	86.2	
3/8"	9.5	mm	83.5	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	77.9	
No. 10	2.00	mm	72.8	
No. 20	850	µm	68.3	
No. 40	425	µm	63.9	
No. 60	250	µm	58.9	
No. 100	150	µm	53.5	
No. 200	75	µm	44.8	

COMMENTS

Location:SE, Chainage:1100, Elevation:958.0

Till Core Material, PE Borrow



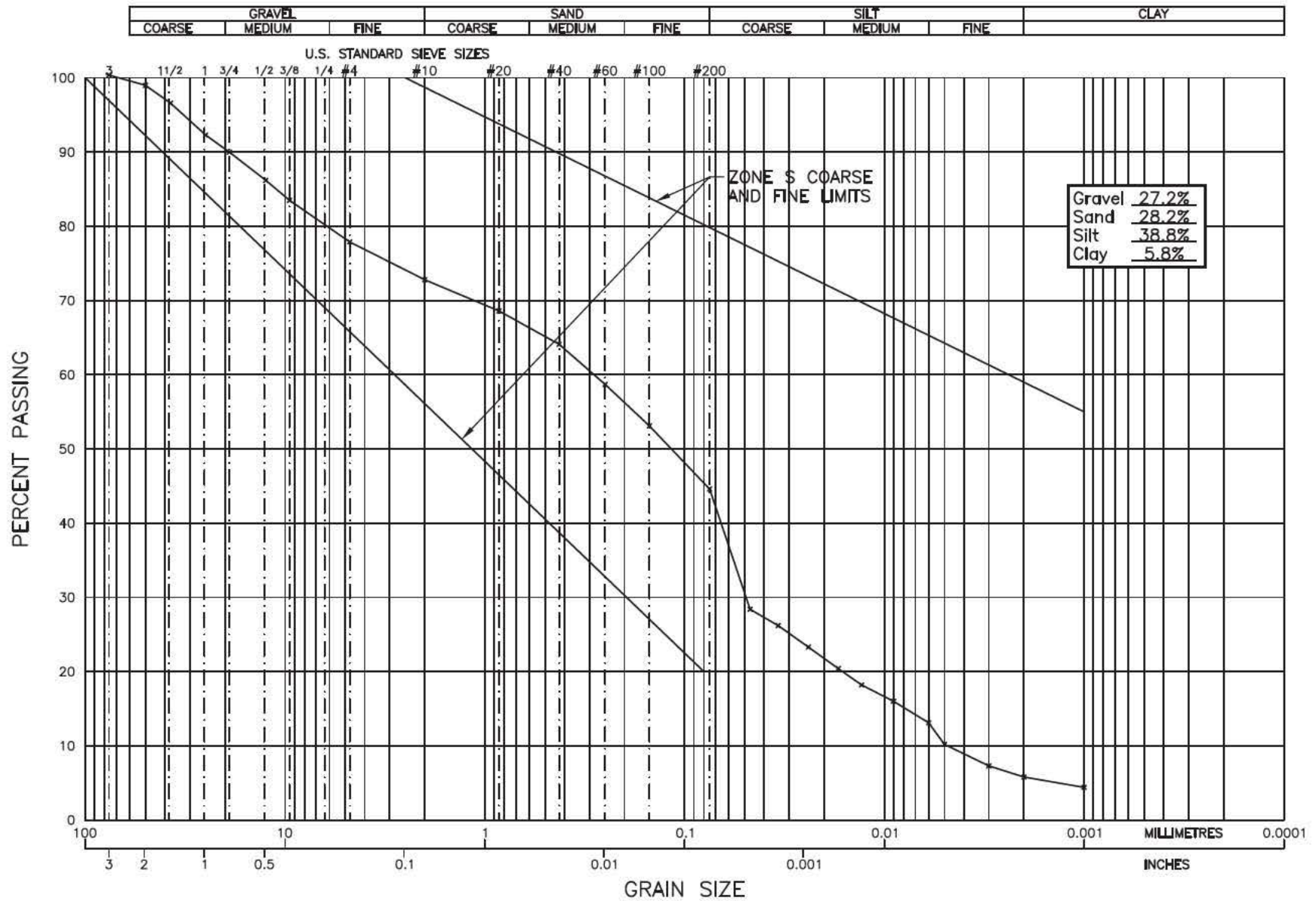
GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
ATTERBERG LIMITS OF R-S6B-ZS-12-2010

PROJECT NO.
K-2937

PLATE NO.
2937-B14



GEO NORTH ENGINEERING LTD.

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 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZS-12-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C28

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corporation							Date: August 10,2010				
Project Name: MPCP Stage 6B							Project #: K-2937				
Source/Location: R-S6B-ZS-12-2010							Type: Till				
Sample #:		Test #:		Hole #:		Depth:		Time:			
Sampled By: Client				Tested By: DJ				Checked By:			
Date Sampled: July 29,2010				Date Received: August 5,2010				Date Tested: August 9,2010			

Initial Moisture Content		Sieve Analysis				Hydrometer Sieve Analysis				
		Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.	Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
Tare No.		38.1				10		50.0	100.0	72.8
Wet Wt. & Tare	874.8	25.4				20	2.9	47.1	94.2	68.6
Dry Wt. & Tare	824.4	19.0				40	3.1	44.0	88.0	64.1
Water Wt.	50.4	12.5				60	3.7	40.3	80.6	58.7
Tare Wt.	194.6	9.5	See Sieve Test No 47			100	3.8	36.5	73.0	53.1
Wt. Of Dry Soil	629.8	4.75				200	5.9	30.6	61.2	44.6
Moisture Content %	8.0	10			72.8	Pan	30.6			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
= (100xWet Soil Wt.)/(100 + Initial Moisture)						Unwashed Wt.=				
		Total	629.8			Tare		Wt. Passing #200 =		

Starting Wt. (g)	% - #10	Elapsed Time (min)	Reading R	Temp (0C)	K	Corr. Reading R'	Zr (cm)	SQRT(Zr)/T (min)	D (mm)	N (%)	N*(%-#10)
50.0	0.728	0.5	30.0	24.0	0.01301	23.0	12.5	5.000	0.065	46.0	33.5
50.0	0.728	1	26.5	24.0	0.01301	19.5	13.1	3.616	0.047	39.0	28.4
50.0	0.728	2	25.0	24.0	0.01301	18.0	13.3	2.581	0.034	36.0	26.2
50.0	0.728	4	23.0	24.0	0.01301	16.0	13.7	1.848	0.024	32.0	23.3
50.0	0.728	8	21.0	24.0	0.01301	14.0	14.0	1.322	0.017	28.0	20.4
50.0	0.728	15	19.5	24.0	0.01301	12.5	14.2	0.974	0.013	25.0	18.2
50.0	0.728	30	18.0	24.0	0.01301	11.0	14.5	0.695	0.009	22.0	16.0
50.0	0.728	60	16.0	24.0	0.01301	9.0	14.8	0.497	0.006	18.0	13.1
50.0	0.728	120	14.0	24.0	0.01301	7.0	15.1	0.355	0.005	14.0	10.2
50.0	0.728	240	12.0	24.0	0.01301	5.0	15.5	0.254	0.003	10.0	7.3
50.0	0.728	480	11.0	24.0	0.01301	4.0	15.6	0.180	0.002	8.0	5.8
50.0	0.728	1440	10.0	24.0	0.01301	3.0	15.8	0.105	0.001	6.0	4.4

Hydrometer #: 790414	Graduate #:	Dispersing Agent: Sodium Hex		Amount: 125ml
Density of Solids: Specific Gravity = 2.67				
Description of Sample:				

Noelco

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 18

DATE TESTED 2010.Aug.09 DATE RECEIVED 2010.Aug.05 DATE SAMPLED 2010.Jul.29

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY DJ

SUPPLIER
SOURCE R-S6B-ZS-12-2010

MATERIAL IDENTIFICATION

MAJOR COMPONENT Till

SIZE 50mm

DESCRIPTION Sandy/Silty

ROCK TYPE

COMPACTION STANDARD

COMPACTION PROCEDURE

RAMMER TYPE

PREPARATION

OVERSIZE CORRECTION METHOD

RETAINED 4.75mm SCREEN

OVERSIZE SPECIFIC GRAVITY

TOTAL NUMBER OF TRIALS

Standard Proctor,
ASTM D698

A: 101.6mm Mold,
Passing 4.75mm
Automatic

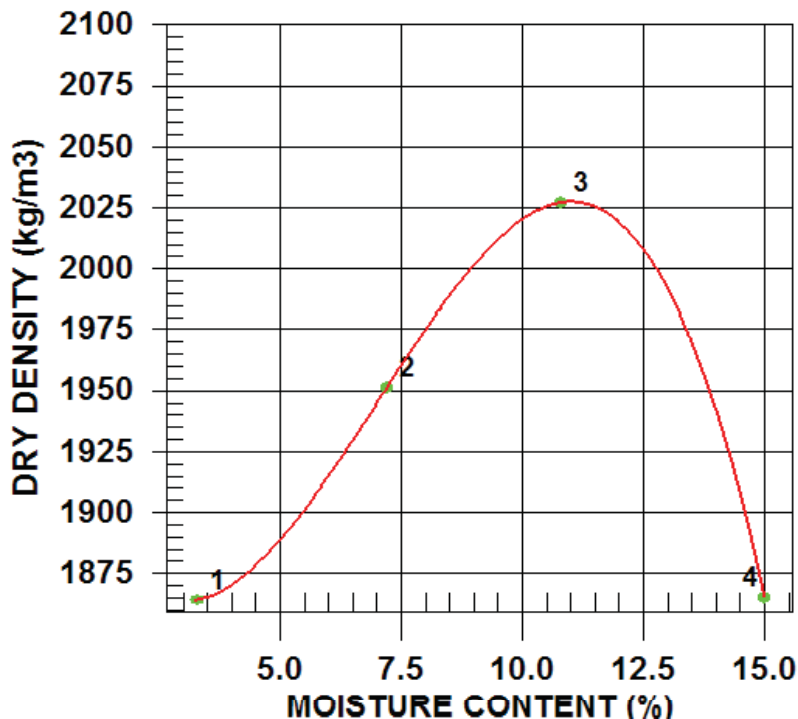
Moist

ASTM 4718

21.6 %

2.68

4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1926	1864	3.3
2	2091	1951	7.2
3	2246	2027	10.8
4	2145	1865	15.0

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2030	11.0
OVERSIZE CORRECTED	2140	9.0

COMMENTS

Location:SE, Chainage:1100, Elevation:958.0

Specific Gravity = 2.68

APPENDIX A3

ZONE F RECORD

(Pages A3-1 to A3-28)

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

8 16 30 50 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 10 DATE RECEIVED 2010.Mar.30 DATE TESTED 2010.Mar.30 DATE SAMPLED 2010.Mar.25

SUPPLIER R-S6b-ZF-02-2010

SOURCE ME

SPECIFICATION

MATERIAL TYPE

SAMPLED BY MS-Client

TESTED BY SR

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	94.2	
1/2"	12.5	mm	70.5	
3/8"	9.5	mm	55.1	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	30.9	
No. 8	2.36	mm	20.5	
No. 16	1.18	mm	15.1	
No. 30	600	µm	12.2	
No. 50	300	µm	10.0	
No. 100	150	µm	8.3	
No. 200	75	µm	6.6	

COMMENTS

Chainage: 2600, Elevation: 954.6

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

8 16 30 50 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 11 DATE RECEIVED 2010.Mar.30 DATE TESTED 2010.Mar.30 DATE SAMPLED 2010.Mar.25

SUPPLIER R-S6b-ZF-03-2010

SOURCE ME

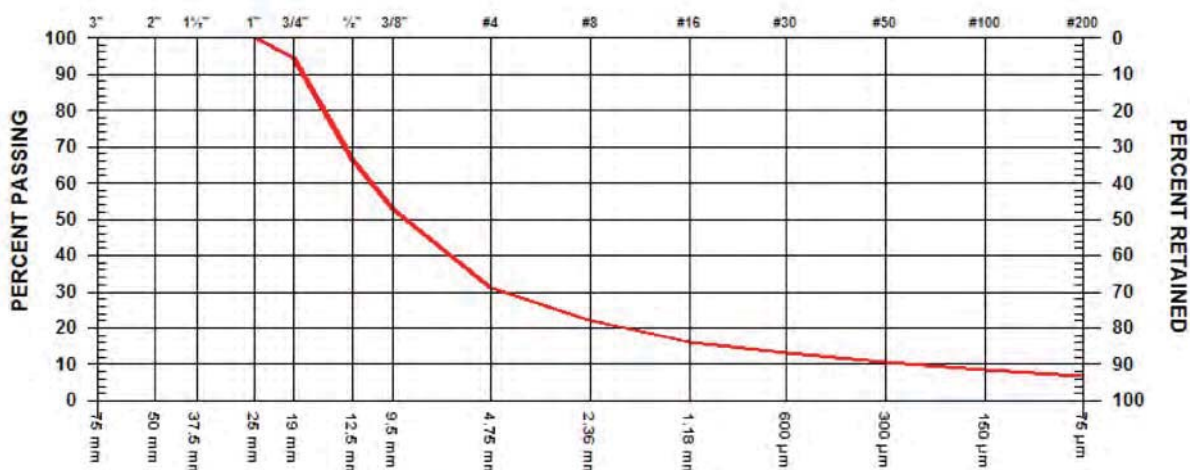
SPECIFICATION

MATERIAL TYPE

SAMPLED BY MS-Client

TESTED BY SR

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	94.5	
1/2"	12.5	mm	66.3	
3/8"	9.5	mm	52.7	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	31.1	
No. 8	2.36	mm	22.2	
No. 16	1.18	mm	16.0	
No. 30	600	µm	13.0	
No. 50	300	µm	10.5	
No. 100	150	µm	8.6	
No. 200	75	µm	6.7	

COMMENTS

Chainage: 2300, Elevation: 954.6, Offset: Filter

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

8 16 30 50 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.
c.c. Knight Piesold Ltd.

TO
Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

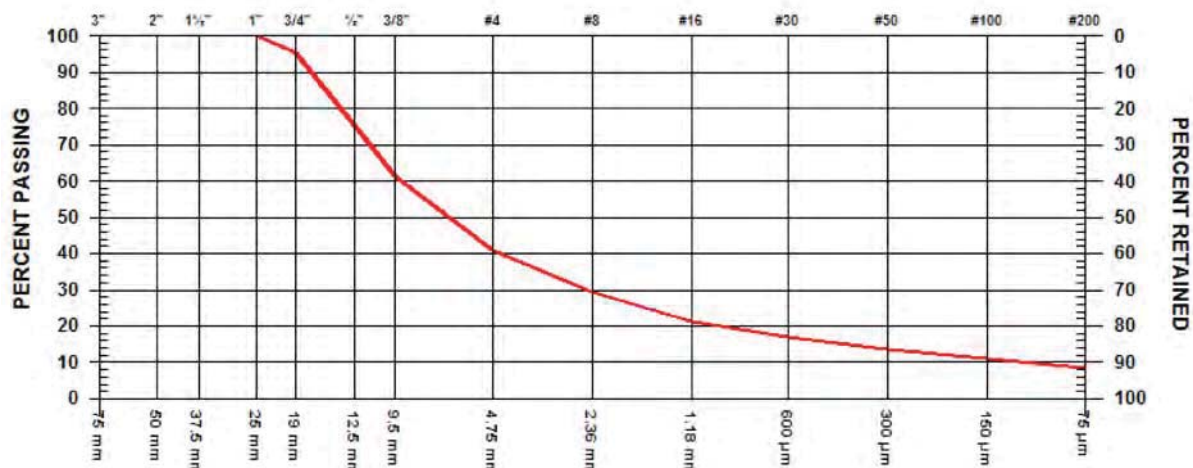
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 12 DATE RECEIVED 2010.Mar.30 DATE TESTED 2010.Mar.30 DATE SAMPLED 2010.Mar.24

SUPPLIER R-S6b-ZF-04-2010
SOURCE ME
SPECIFICATION
MATERIAL TYPE

SAMPLED BY MS-Client
TESTED BY SR
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	95.5	
1/2"	12.5	mm	75.2	
3/8"	9.5	mm	61.4	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	41.0	
No. 8	2.36	mm	29.2	
No. 16	1.18	mm	21.1	
No. 30	600	µm	16.9	
No. 50	300	µm	13.6	
No. 100	150	µm	11.1	
No. 200	75	µm	8.7	

COMMENTS

Chainage: 2100, Elevation: 954.6, Offset: Filter

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

8 16 30 50 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 13 DATE RECEIVED 2010.Mar.30 DATE TESTED 2010.Mar.30 DATE SAMPLED 2010.Mar.25

SUPPLIER R-S6b-ZF-05-2010

SOURCE ME

SPECIFICATION

MATERIAL TYPE

SAMPLED BY MS-Client

TESTED BY SR

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	95.4	
1/2"	12.5	mm	71.8	
3/8"	9.5	mm	59.4	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	37.5	
No. 8	2.36	mm	26.9	
No. 16	1.18	mm	19.7	
No. 30	600	µm	15.8	
No. 50	300	µm	12.7	
No. 100	150	µm	10.3	
No. 200	75	µm	8.0	

COMMENTS

Chainage: 1900, Elevation: 954.6, Offset: Filter

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 19 DATE RECEIVED 2010.Apr.16 DATE TESTED 2010.Apr.16 DATE SAMPLED 2010.Apr.14

SUPPLIER

SOURCE R-S6B-07-2010

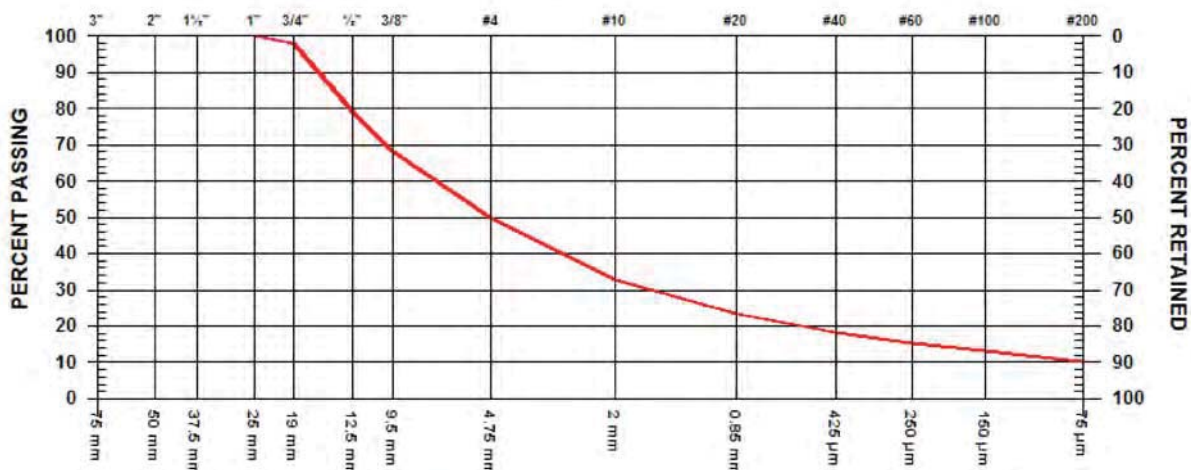
SPECIFICATION

MATERIAL TYPE Filter - PE-S6B-ZF

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	98.0	
1/2"	12.5	mm	79.3	
3/8"	9.5	mm	68.3	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	49.7	
No. 10	2.00	mm	33.0	
No. 20	850	µm	23.3	
No. 40	425	µm	18.4	
No. 60	250	µm	15.3	
No. 100	150	µm	13.1	
No. 200	75	µm	10.4	

COMMENTS

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 20 DATE RECEIVED 2010.Apr.16 DATE TESTED 2010.Apr.16 DATE SAMPLED 2010.Apr.14

SUPPLIER

SOURCE R-S6B-08-2010

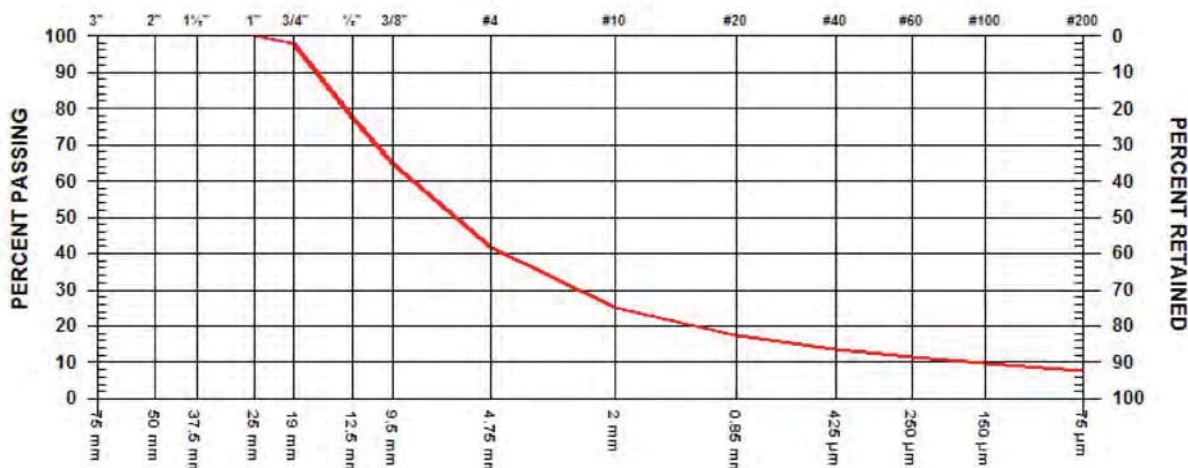
SPECIFICATION

MATERIAL TYPE Filter - PE-S6B-ZF

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	98.1	
1/2"	12.5	mm	77.5	
3/8"	9.5	mm	64.8	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	41.7	
No. 10	2.00	mm	25.3	
No. 20	850	µm	17.4	
No. 40	425	µm	13.6	
No. 60	250	µm	11.3	
No. 100	150	µm	9.6	
No. 200	75	µm	7.5	

COMMENTS

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 21 DATE RECEIVED 2010.Apr.16 DATE TESTED 2010.Apr.19 DATE SAMPLED 2010.Apr.14

SUPPLIER

SOURCE R-S6B-09-2010

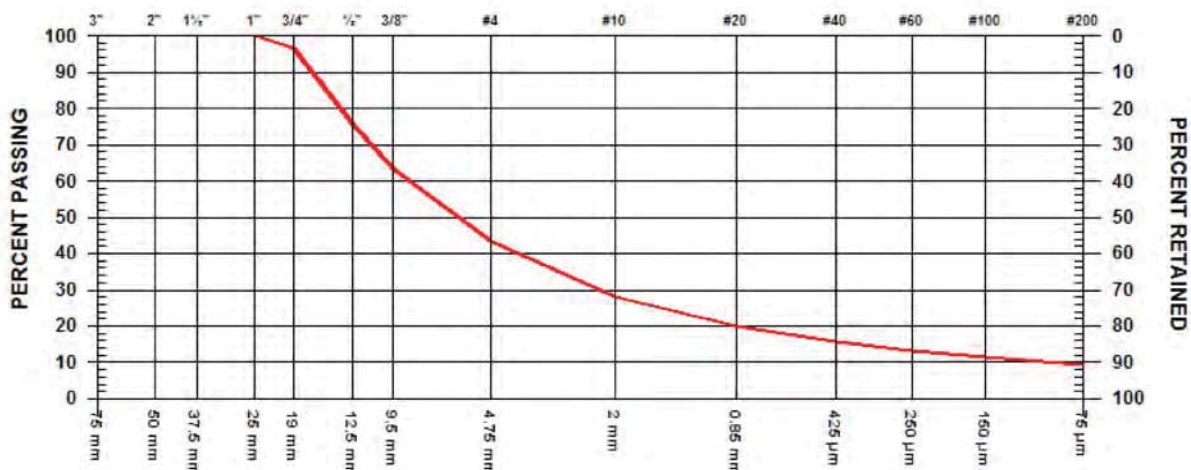
SPECIFICATION

MATERIAL TYPE Filter - PE-S6B-ZF

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	96.7	
1/2"	12.5	mm	76.0	
3/8"	9.5	mm	63.3	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	43.6	
No. 10	2.00	mm	28.1	
No. 20	850	µm	19.9	
No. 40	425	µm	15.9	
No. 60	250	µm	13.4	
No. 100	150	µm	11.5	
No. 200	75	µm	9.3	

COMMENTS

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 22 DATE RECEIVED 2010.Apr.16 DATE TESTED 2010.Apr.19 DATE SAMPLED 2010.Apr.14

SUPPLIER

SOURCE R-S6B-10-2010

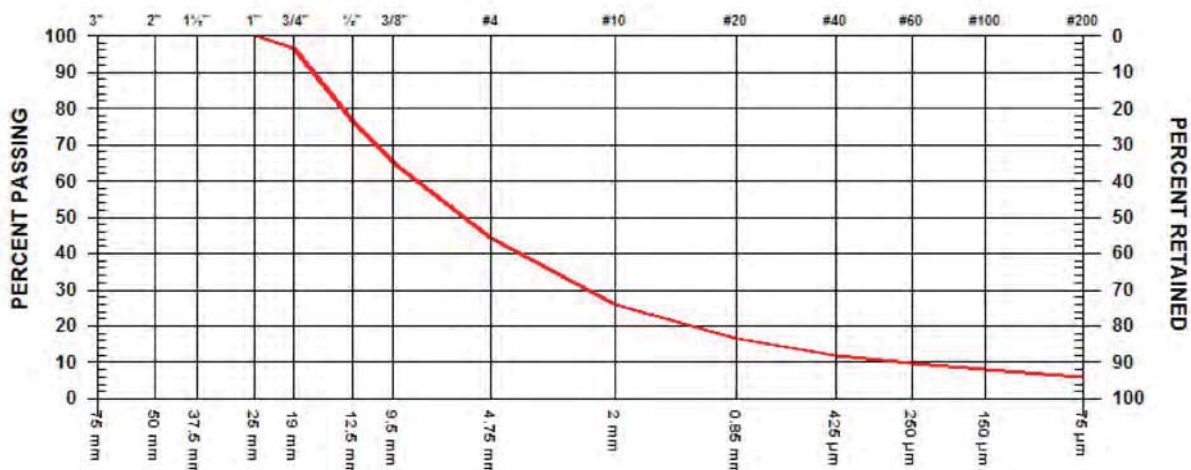
SPECIFICATION

MATERIAL TYPE Filter - PE-S6B-ZF

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	96.7	
1/2"	12.5	mm	76.6	
3/8"	9.5	mm	65.2	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	44.3	
No. 10	2.00	mm	26.0	
No. 20	850	µm	16.4	
No. 40	425	µm	12.1	
No. 60	250	µm	9.7	
No. 100	150	µm	7.9	
No. 200	75	µm	5.8	

COMMENTS

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 27 DATE RECEIVED 2010.Apr.28 DATE TESTED 2010.Apr.30 DATE SAMPLED 2010.Apr.27

SUPPLIER

SOURCE R-S6B-ZF-08-2010

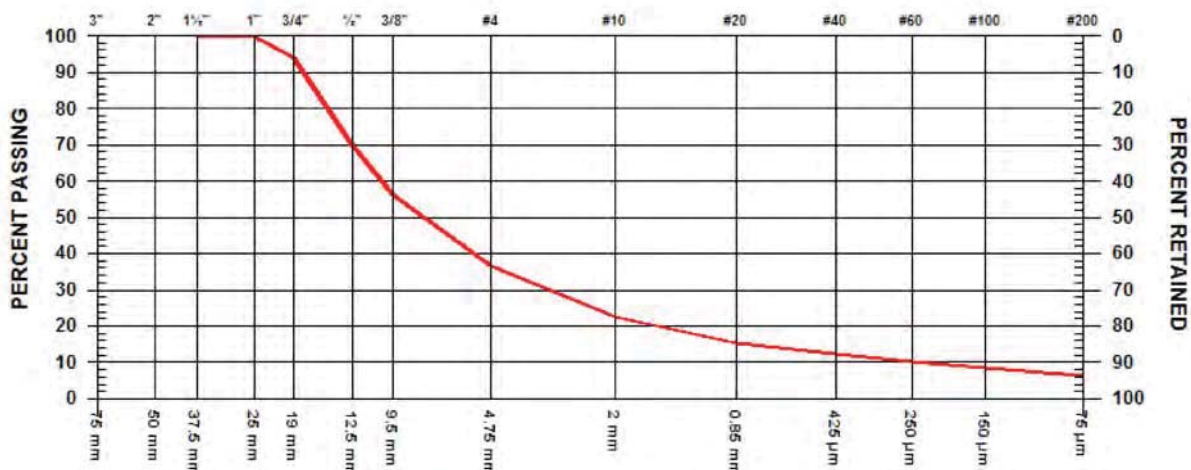
SPECIFICATION

MATERIAL TYPE Filter

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm	100.0	
1"	25	mm	99.8	
3/4"	19	mm	94.1	
1/2"	12.5	mm	70.0	
3/8"	9.5	mm	56.3	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	36.5	
No. 10	2.00	mm	22.5	
No. 20	850	µm	15.4	
No. 40	425	µm	12.2	
No. 60	250	µm	10.2	
No. 100	150	µm	8.7	
No. 200	75	µm	6.6	

COMMENTS

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.
 c.c. Knight Piesold Ltd.

TO
 Mount Polley Mining Corp.
 P.O. Box 12
 Likely, BC
 VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
 Stage 6B
 CONTRACTOR

Mount Polley Mine
 Likely

SIEVE TEST NO. 32 DATE RECEIVED 2010.Jun.01 DATE TESTED 2010.Jun.01 DATE SAMPLED 2010.May.27

SUPPLIER
 SOURCE R-S6B-ZF-12b-2010
 SPECIFICATION
 MATERIAL TYPE Dam Filter

SAMPLED BY Client
 TESTED BY SR
 TEST METHOD WASHED

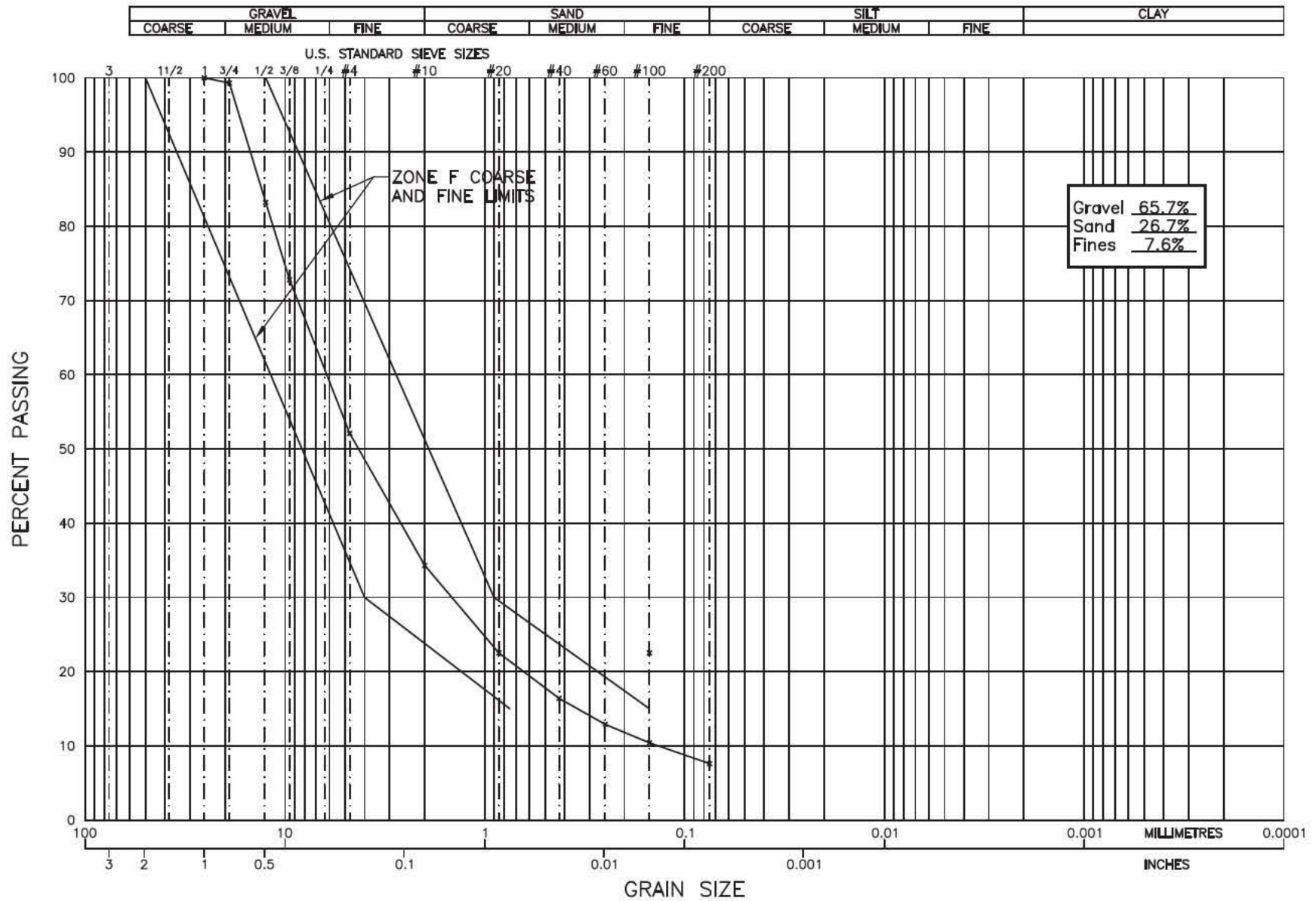


GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	99.3	
1/2"	12.5	mm	83.2	
3/8"	9.5	mm	72.8	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	52.1	
No. 10	2.00	mm	34.3	
No. 20	850	µm	22.5	
No. 40	425	µm	16.4	
No. 60	250	µm	12.9	
No. 100	150	µm	10.4	
No. 200	75	µm	7.6	

COMMENTS

Location:ME, Chainage:2250, Elevation:956.1, offset:1st Lift



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM – STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZF-12(b)-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C13

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 28 DATE RECEIVED 2010.Apr.28 DATE TESTED 2010.Apr.30 DATE SAMPLED 2010.Apr.27

SUPPLIER

SOURCE R-S6B-ZF-09-2010

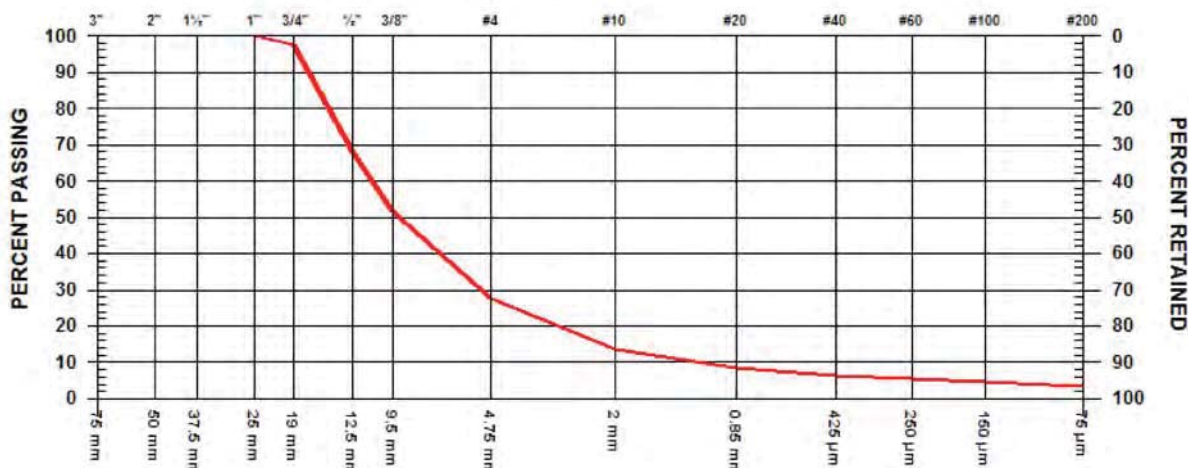
SPECIFICATION

MATERIAL TYPE Filter

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	97.3	
1/2"	12.5	mm	68.1	
3/8"	9.5	mm	51.5	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	27.6	
No. 10	2.00	mm	13.7	
No. 20	850	µm	8.7	
No. 40	425	µm	6.6	
No. 60	250	µm	5.4	
No. 100	150	µm	4.5	
No. 200	75	µm	3.4	

COMMENTS

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 30 DATE RECEIVED 2010.May.28 DATE TESTED 2010.May.28 DATE SAMPLED 2010.May.14

SUPPLIER

SOURCE R-S6B-ZF-14-2010

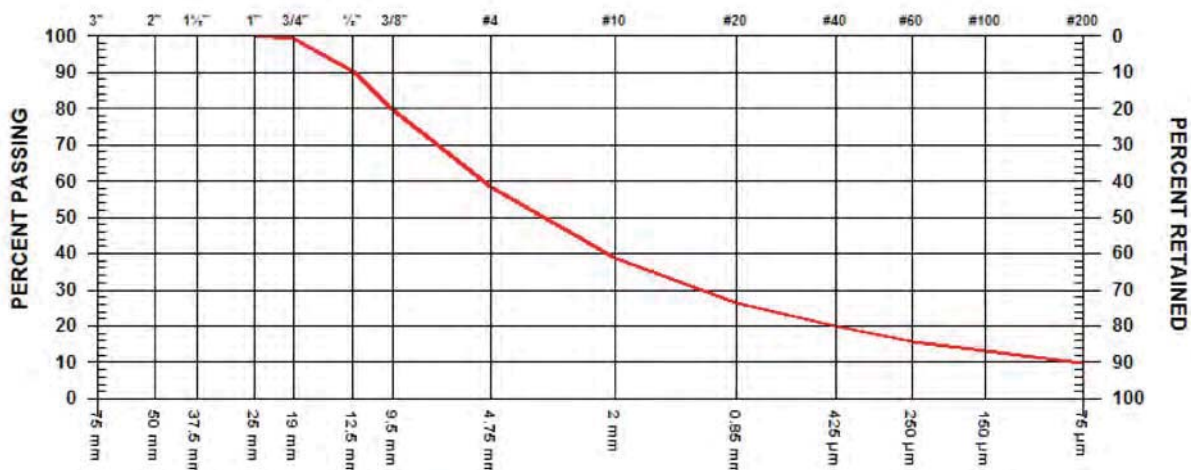
SPECIFICATION

MATERIAL TYPE In Dam Filter

SAMPLED BY Client

TESTED BY SR

TEST METHOD WASHED



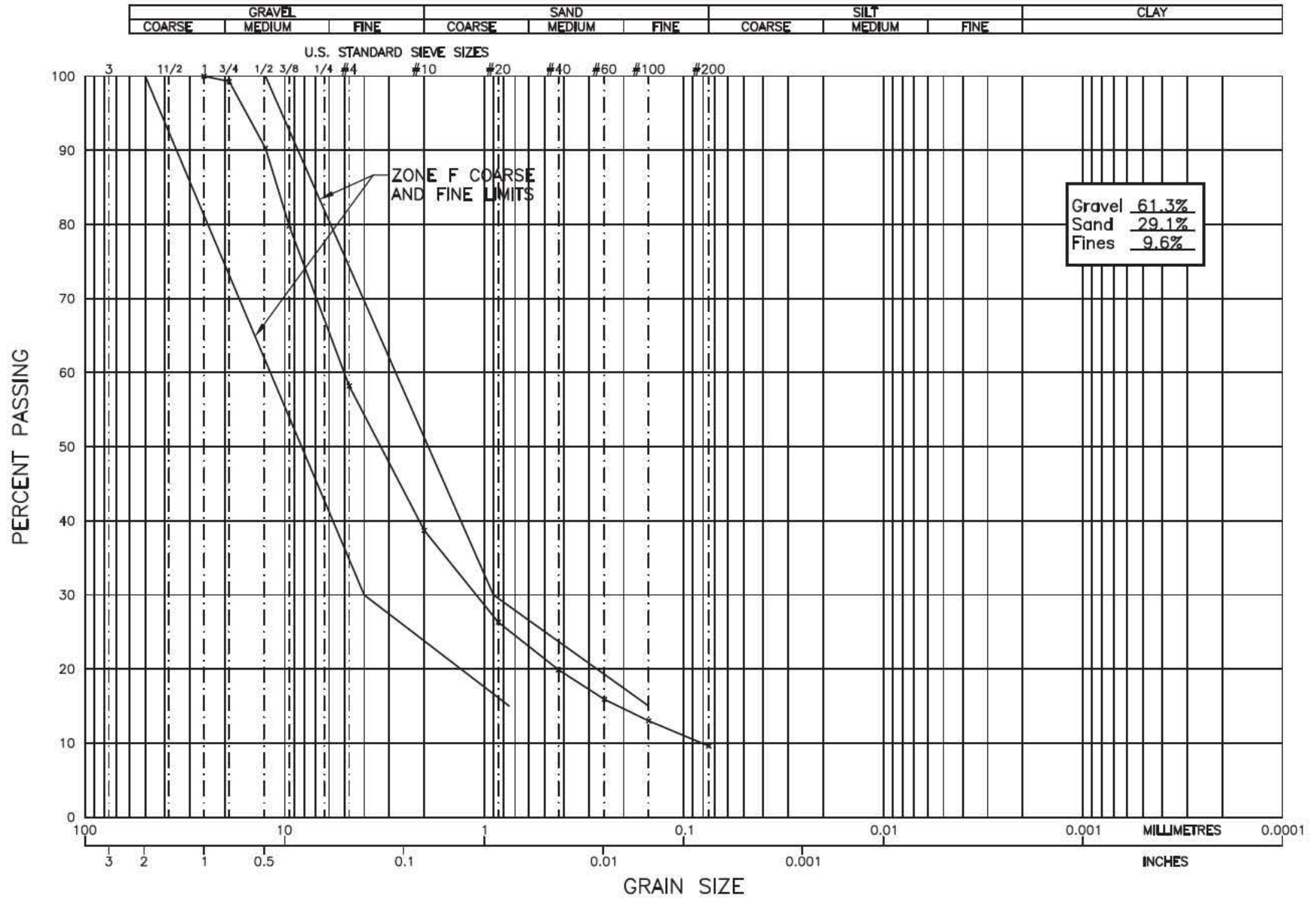
GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	99.3	
1/2"	12.5	mm	90.3	
3/8"	9.5	mm	79.8	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	58.2	
No. 10	2.00	mm	38.7	
No. 20	850	µm	26.3	
No. 40	425	µm	19.9	
No. 60	250	µm	15.9	
No. 100	150	µm	13.0	
No. 200	75	µm	9.6	

COMMENTS

See Plate No. 2937-C11

Location: SE, Chainage: 1300, Elevation: 956.1, Offset: 2nd Lift



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZF-14-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C11

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 31 DATE RECEIVED 2010.May.28 DATE TESTED 2010.May.28 DATE SAMPLED 2010.May.20

SUPPLIER

SOURCE R-S6B-ZF-18-2010

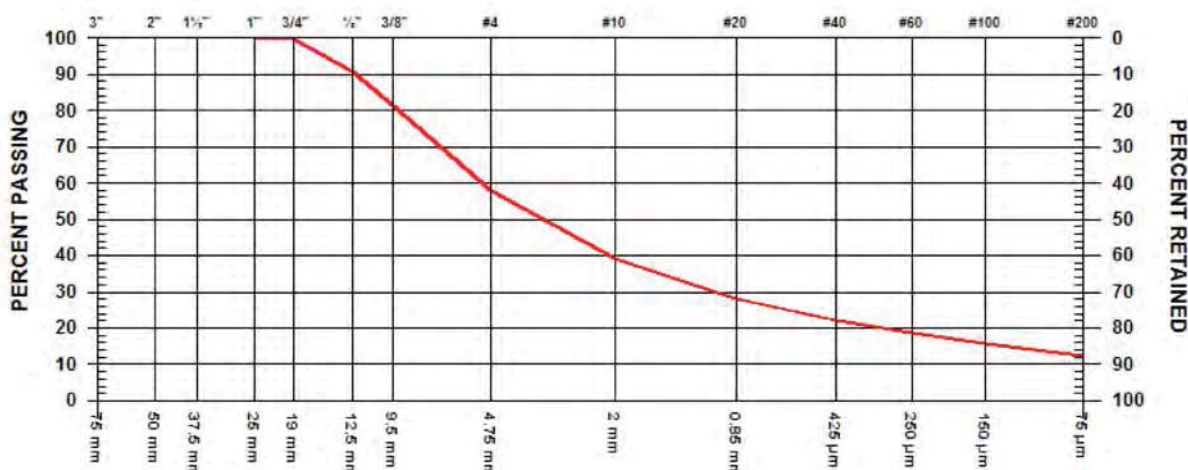
SPECIFICATION

MATERIAL TYPE Dam Filter

SAMPLED BY Client

TESTED BY SR

TEST METHOD WASHED



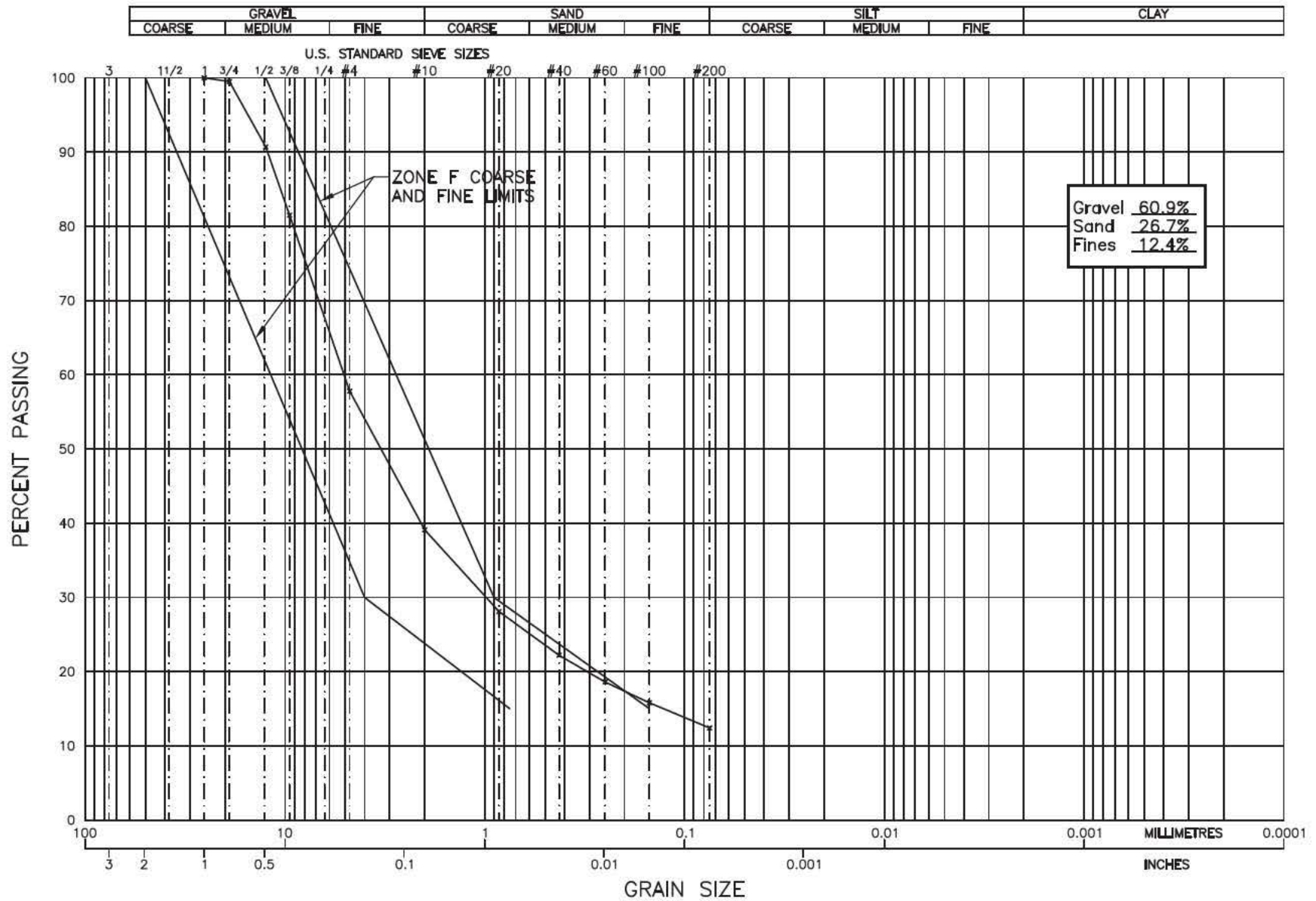
GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	99.5	
1/2"	12.5	mm	90.7	
3/8"	9.5	mm	81.5	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	57.8	
No. 10	2.00	mm	39.1	
No. 20	850	µm	28.1	
No. 40	425	µm	22.2	
No. 60	250	µm	18.6	
No. 100	150	µm	15.8	
No. 200	75	µm	12.4	

COMMENTS

See Plate No.2937-C12

Location: PE, Chainage: 4100, Elevation: 957.4, Offset: 1st Lift


GEO NORTH ENGINEERING LTD.

 3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM – STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZF-18-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C12

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 33 DATE RECEIVED 2010.Jun.01 DATE TESTED 2010.Jun.01 DATE SAMPLED 2010.May.28

SUPPLIER

SOURCE R-S6B-ZF-22-2010

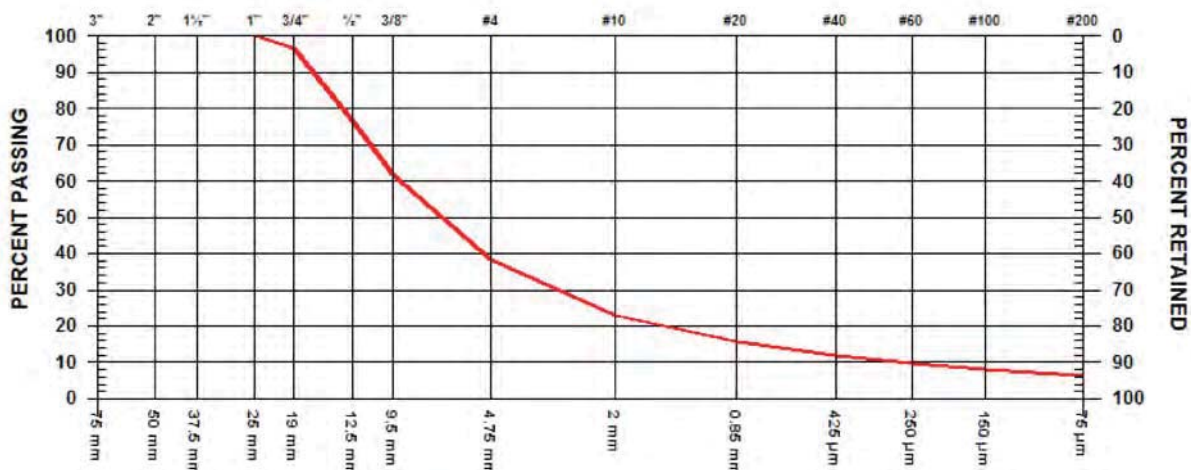
SPECIFICATION

MATERIAL TYPE Dam Filter

SAMPLED BY Client

TESTED BY SR

TEST METHOD WASHED

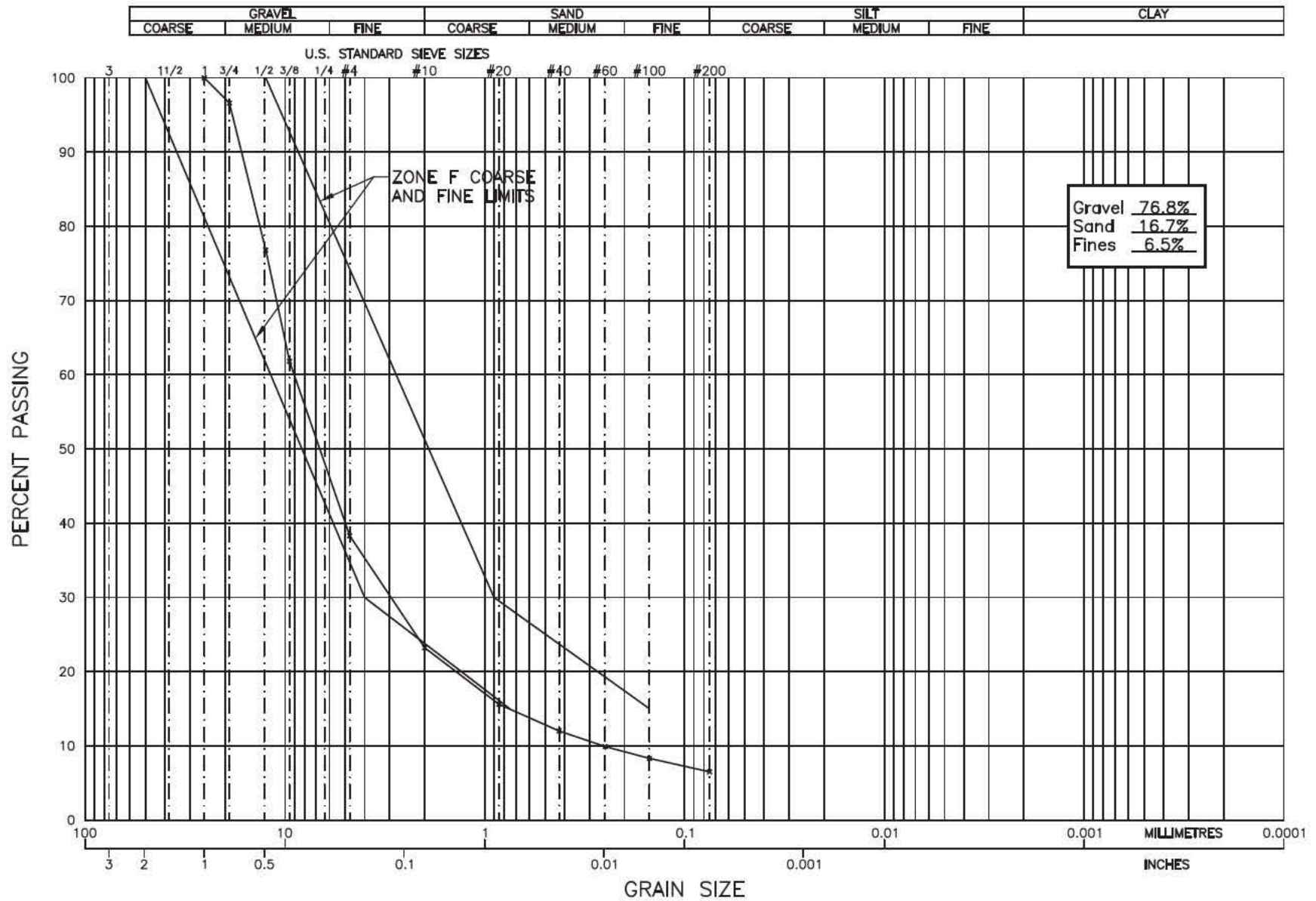


GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	96.6	
1/2"	12.5	mm	76.8	
3/8"	9.5	mm	61.8	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	38.3	
No. 10	2.00	mm	23.2	
No. 20	850	µm	15.6	
No. 40	425	µm	12.0	
No. 60	250	µm	9.9	
No. 100	150	µm	8.3	
No. 200	75	µm	6.5	

COMMENTS

Location:PE, Chainage:2850, Elevation:957.5, Offset:2nd Lift


GEO NORTH ENGINEERING LTD.

 3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZF-22-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C14

TO
 Mount Polley Mining Corp.
 P.O. Box 12
 Likely, BC
 VOL -1N0

PROJECT NO. K 2937
 CLIENT Mount Polley Mining Corp.
 c.c. Knight Piesold Ltd.

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
 Stage 6B
 CONTRACTOR

Mount Polley Mine
 Likely

SIEVE TEST NO. 37 DATE RECEIVED 2010.Jun.23 DATE TESTED 2010.Jun.24 DATE SAMPLED 2010.May.28

SUPPLIER
 SOURCE R-S6B-ZF-23-2010
 SPECIFICATION
 MATERIAL TYPE Filter

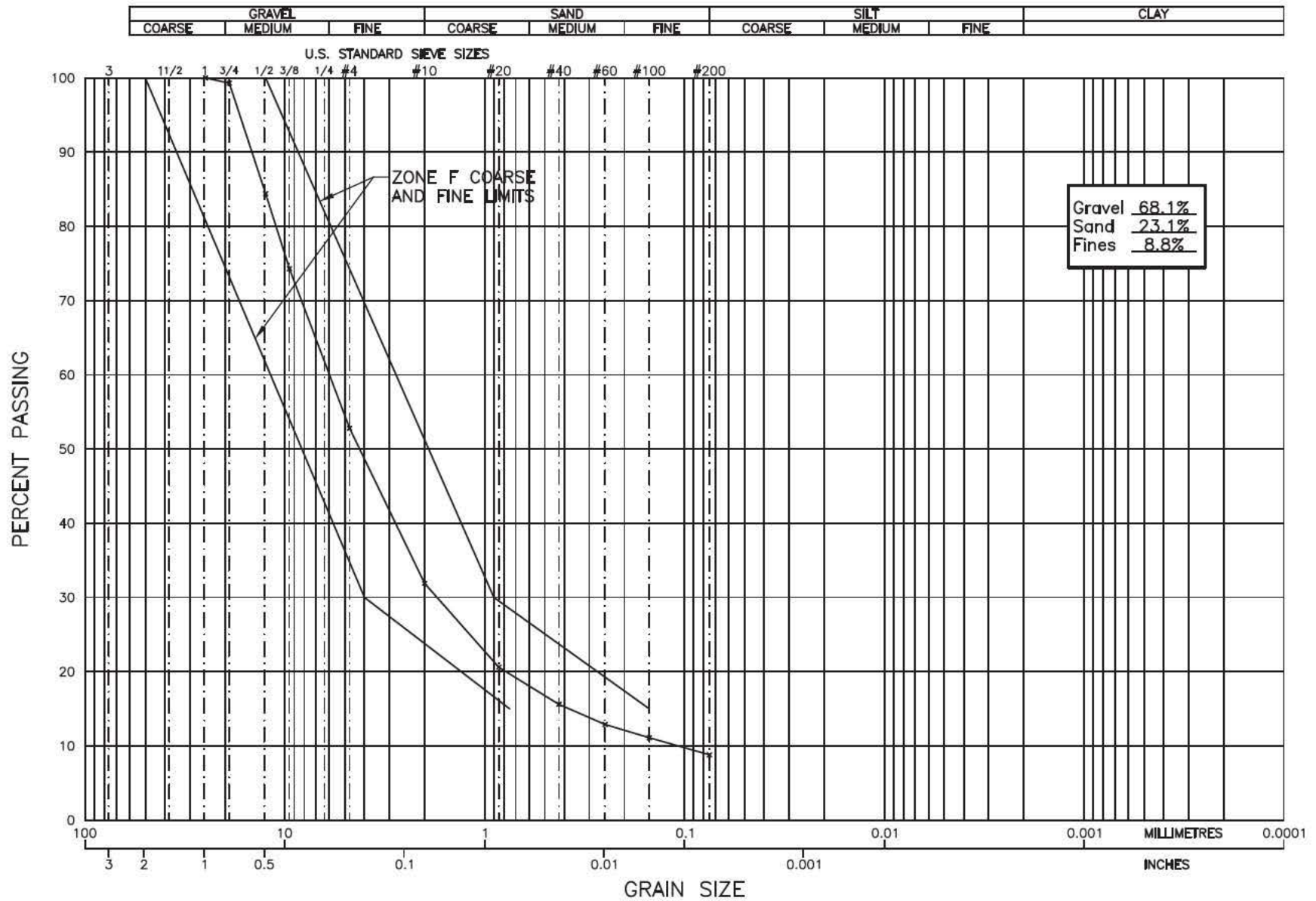
SAMPLED BY Client
 TESTED BY DJ
 TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75 mm			
2"	50 mm			
1 1/2"	37.5 mm			
1"	25 mm	100.0		
3/4"	19 mm	99.3		
1/2"	12.5 mm	84.4		
3/8"	9.5 mm	74.3		

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	52.8	
No. 10	2.00 mm	31.9	
No. 20	850 µm	20.6	
No. 40	425 µm	15.6	
No. 60	250 µm	12.9	
No. 100	150 µm	11.1	
No. 200	75 µm	8.8	

COMMENTS
 Location: PE, Chainage: 3400, Elevation: 957.3
 Re: Plate No. 2937-C20


GEO NORTH ENGINEERING LTD.

 3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM – STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZF-23-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C20

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 38 DATE RECEIVED 2010.Jun.23 DATE TESTED 2010.Jun.24 DATE SAMPLED 2010.Jun.20

SUPPLIER

SOURCE R-S6B-ZF-26-2010

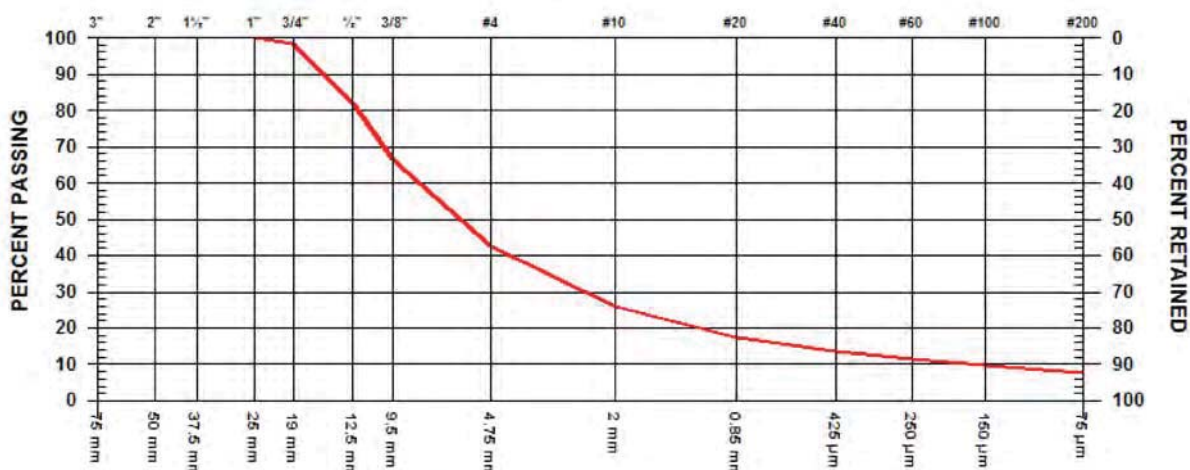
SPECIFICATION

MATERIAL TYPE Filter

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



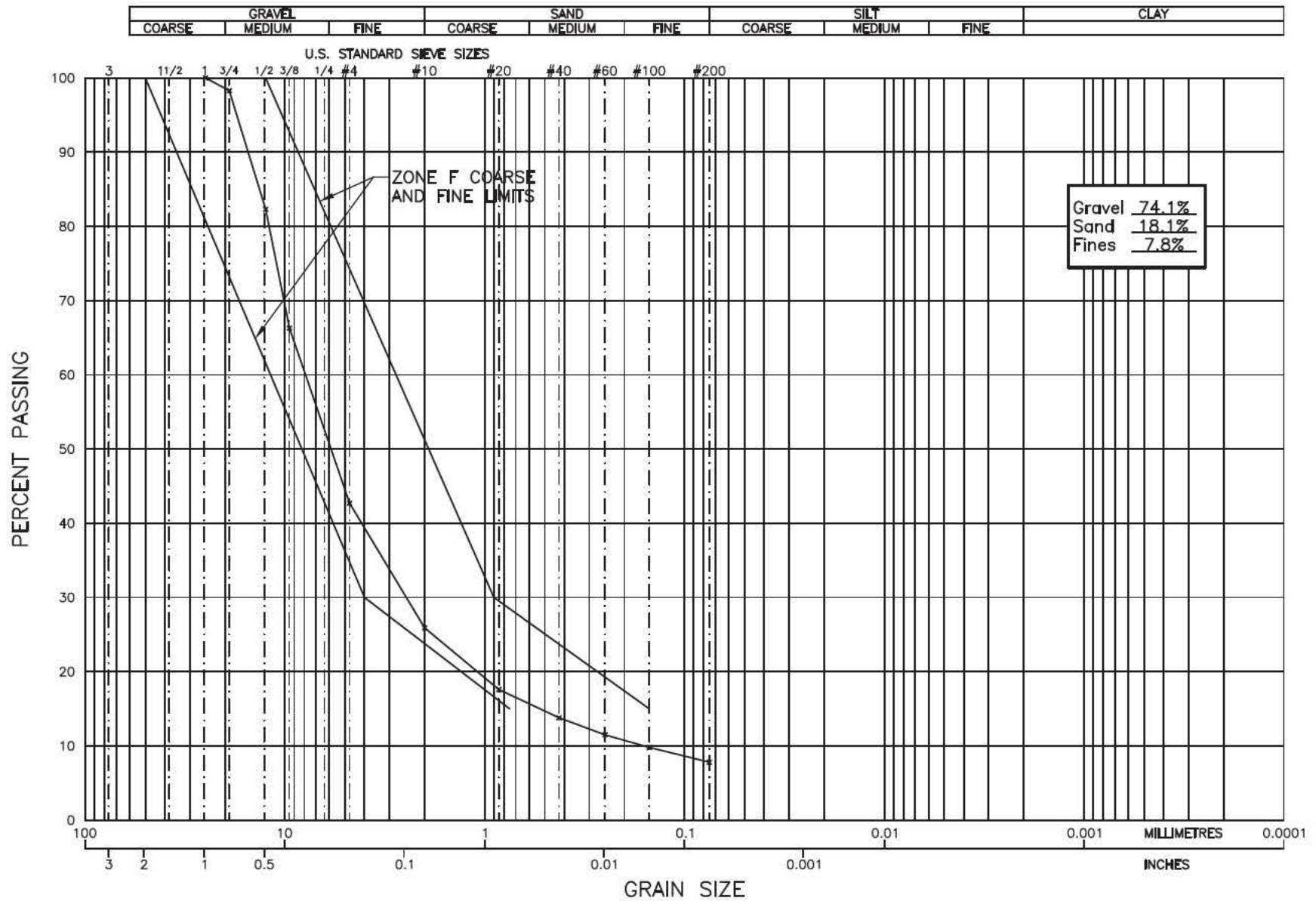
GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	98.3	
1/2"	12.5	mm	82.3	
3/8"	9.5	mm	66.3	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	42.7	
No. 10	2.00	mm	25.9	
No. 20	850	µm	17.6	
No. 40	425	µm	13.8	
No. 60	250	µm	11.5	
No. 100	150	µm	9.8	
No. 200	75	µm	7.8	

COMMENTS

Location: ME, Chainage: 2500, Elevation: 957.3, Offset: 2nd Lift

Re: Plate No. 2937-C19



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM – STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF R-S6B-ZF-26-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C19

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

8 16 30 50 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 41 DATE RECEIVED 2010.Jul.14 DATE TESTED 2010.Jul.14 DATE SAMPLED 2010.Jun.20

SUPPLIER

SOURCE R-S6B-ZF-27-2010

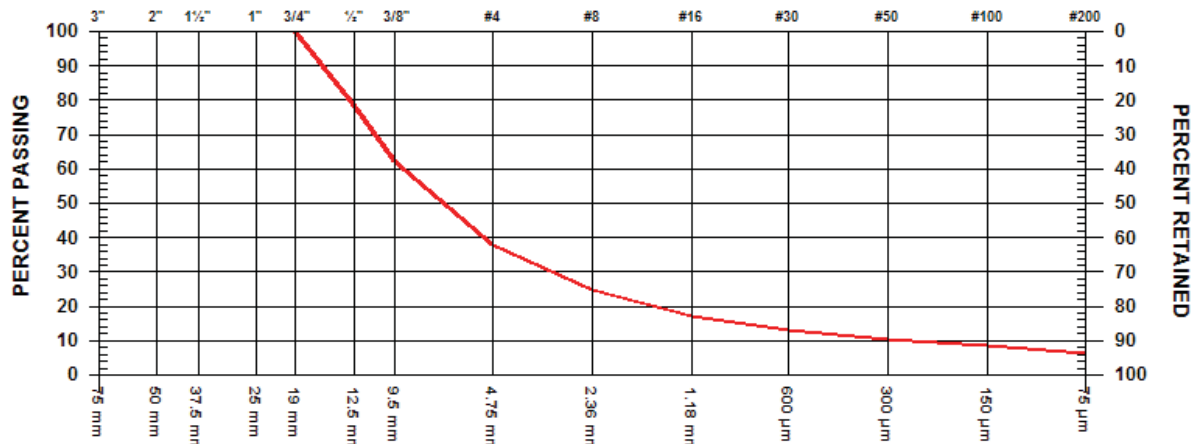
SPECIFICATION

MATERIAL TYPE Dam Filter

SAMPLED BY Client

TESTED BY Bg

TEST METHOD WASHED

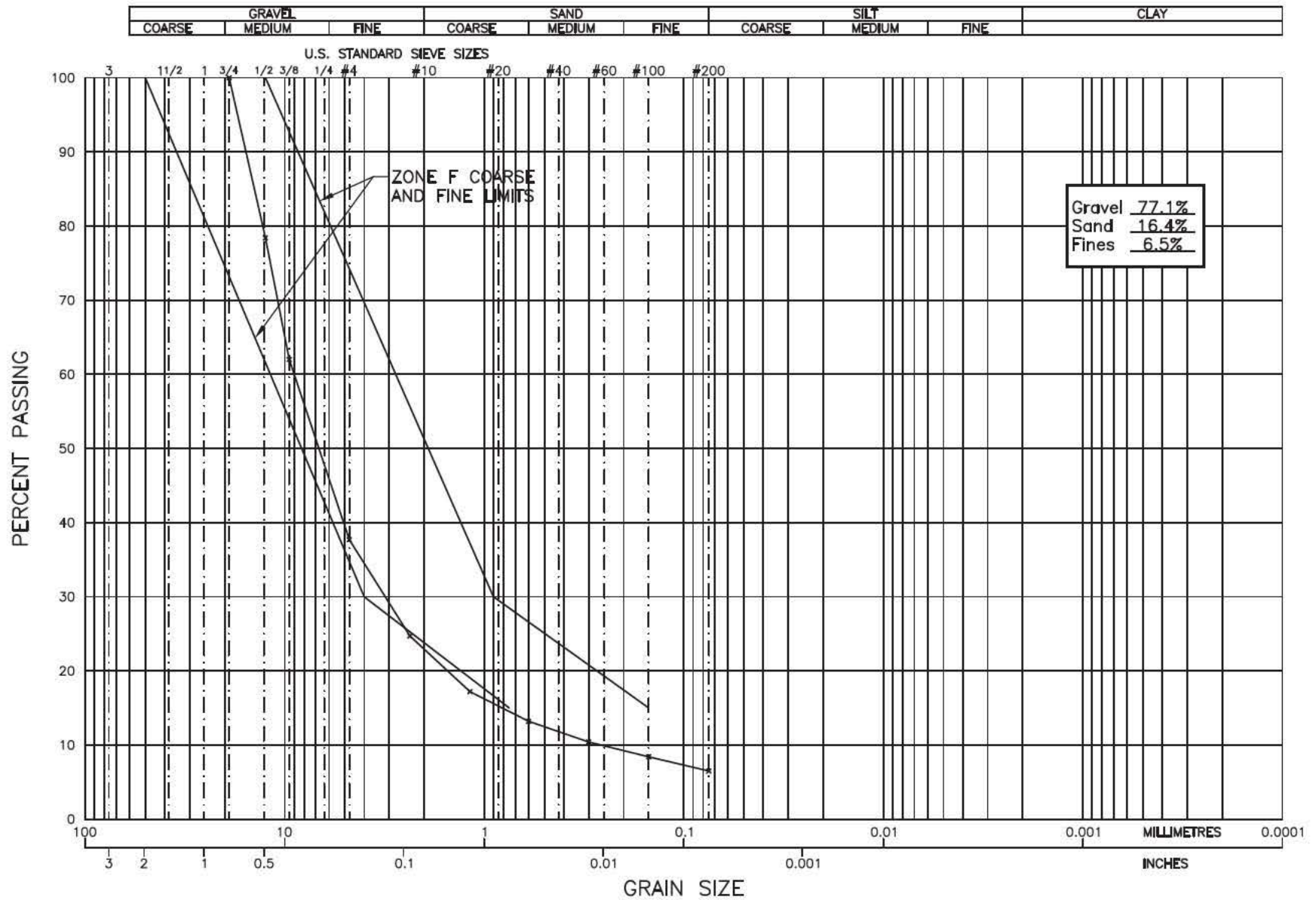


GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm		
3/4"	19	mm	100.0	
1/2"	12.5	mm	78.4	
3/8"	9.5	mm	62.0	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	37.7	
No. 8	2.36	mm	24.7	
No. 16	1.18	mm	17.2	
No. 30	600	µm	13.2	
No. 50	300	µm	10.4	
No. 100	150	µm	8.4	
No. 200	75	µm	6.5	

COMMENTS

Location:ME, Chainage:2050, Elevation:957.3



GEO NORTH ENGINEERING LTD.

3975 18th Avenue
Prince George, B.C. V2N 1B2
Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZF-27-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C23

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 40 DATE RECEIVED 2010.Jul.05 DATE TESTED 2010.Jul.05 DATE SAMPLED 2010.Jun.28

SUPPLIER

SOURCE R-S6B-ZF-30-2010

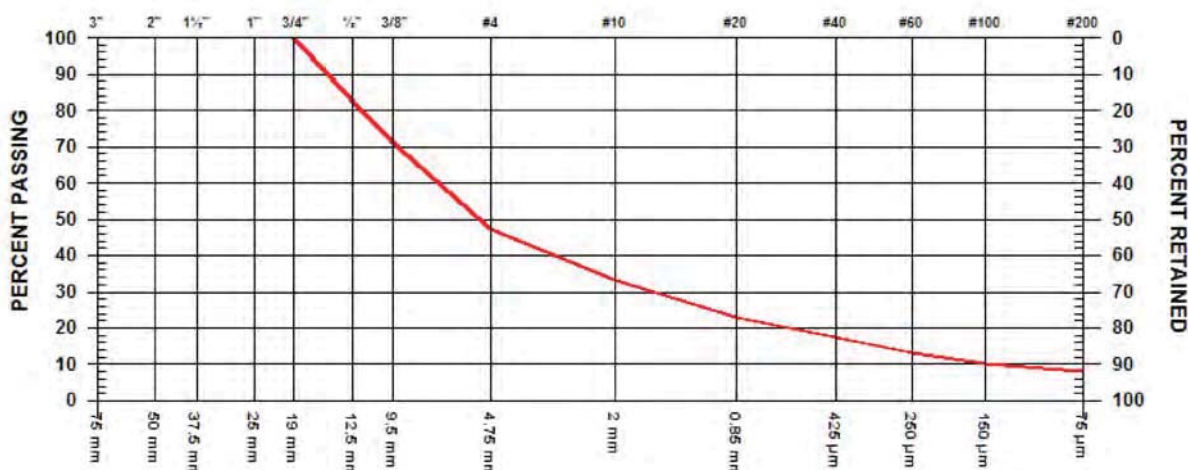
SPECIFICATION

MATERIAL TYPE Filter Material

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



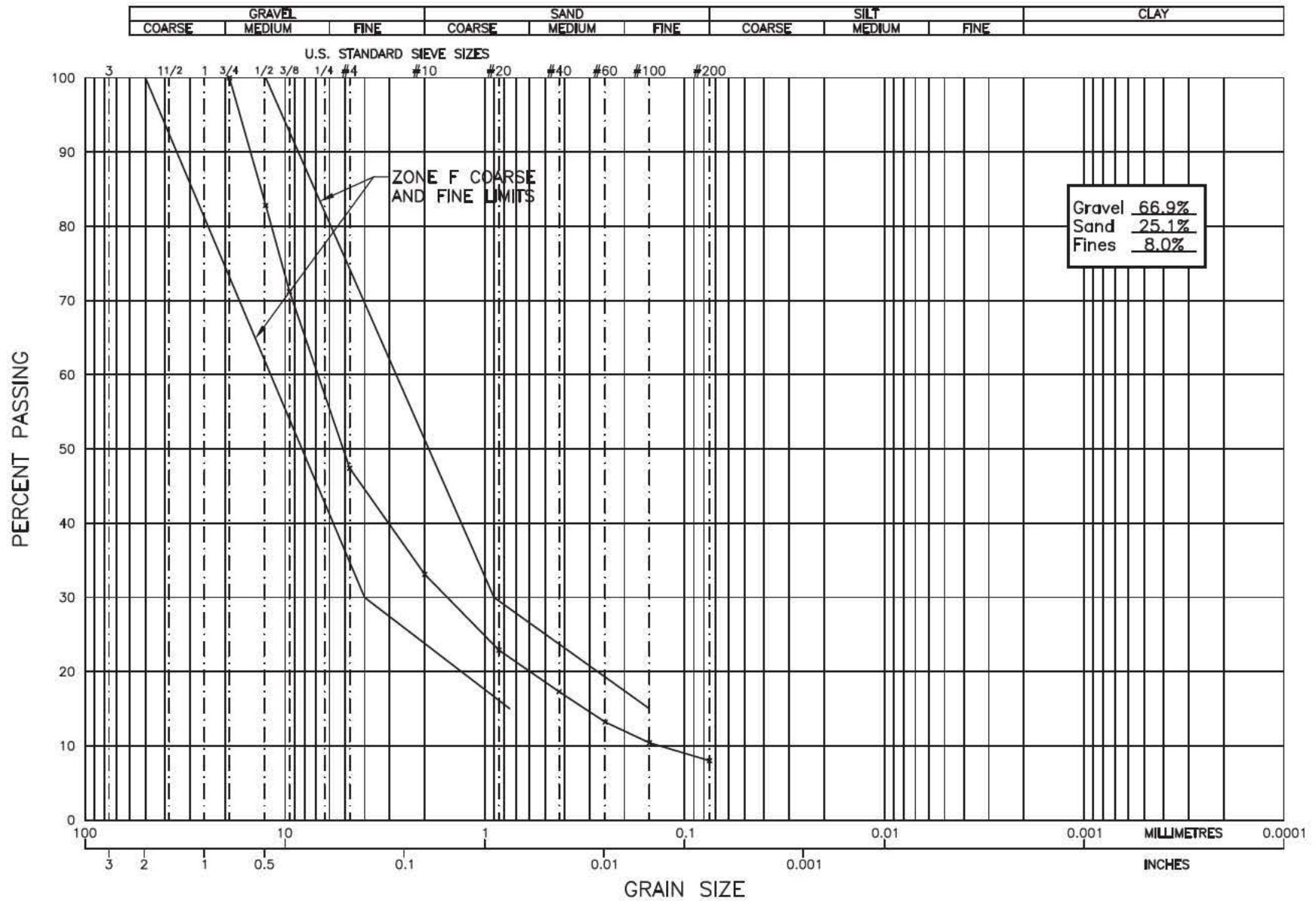
GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm		
3/4"	19	mm	100.0	
1/2"	12.5	mm	82.8	
3/8"	9.5	mm	71.2	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	47.4	
No. 10	2.00	mm	33.1	
No. 20	850	µm	22.9	
No. 40	425	µm	17.3	
No. 60	250	µm	13.2	
No. 100	150	µm	10.4	
No. 200	75	µm	8.0	

COMMENTS

Location: SE, Chainage: 1100, Elevation: 957.3, Offset: Second lift

RE: PLATE No. 2937-C21


GEO NORTH ENGINEERING LTD.

 3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY CONSTRUCTION PROGRAM – STAGE 6B
MOUNT POLLEY MINE, LIKELY, B.C.
GRAIN SIZE ANALYSIS OF R-S6B-ZF-30-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C21

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

8 16 30 50 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 48 DATE RECEIVED 2010.Aug.12 DATE TESTED 2010.Aug.12 DATE SAMPLED 2010.Aug.10

SUPPLIER

SOURCE R-S6B-ZF-34-2010

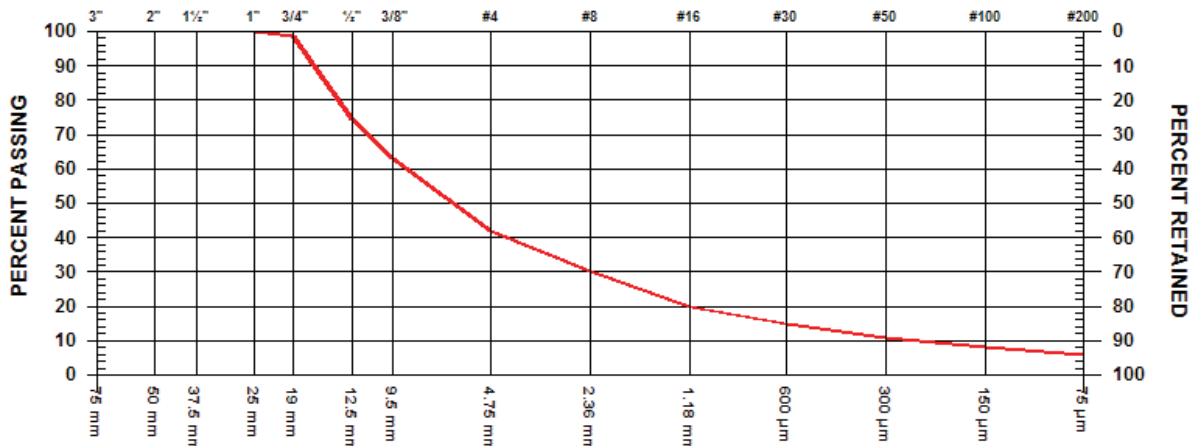
SPECIFICATION

MATERIAL TYPE Filter

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED

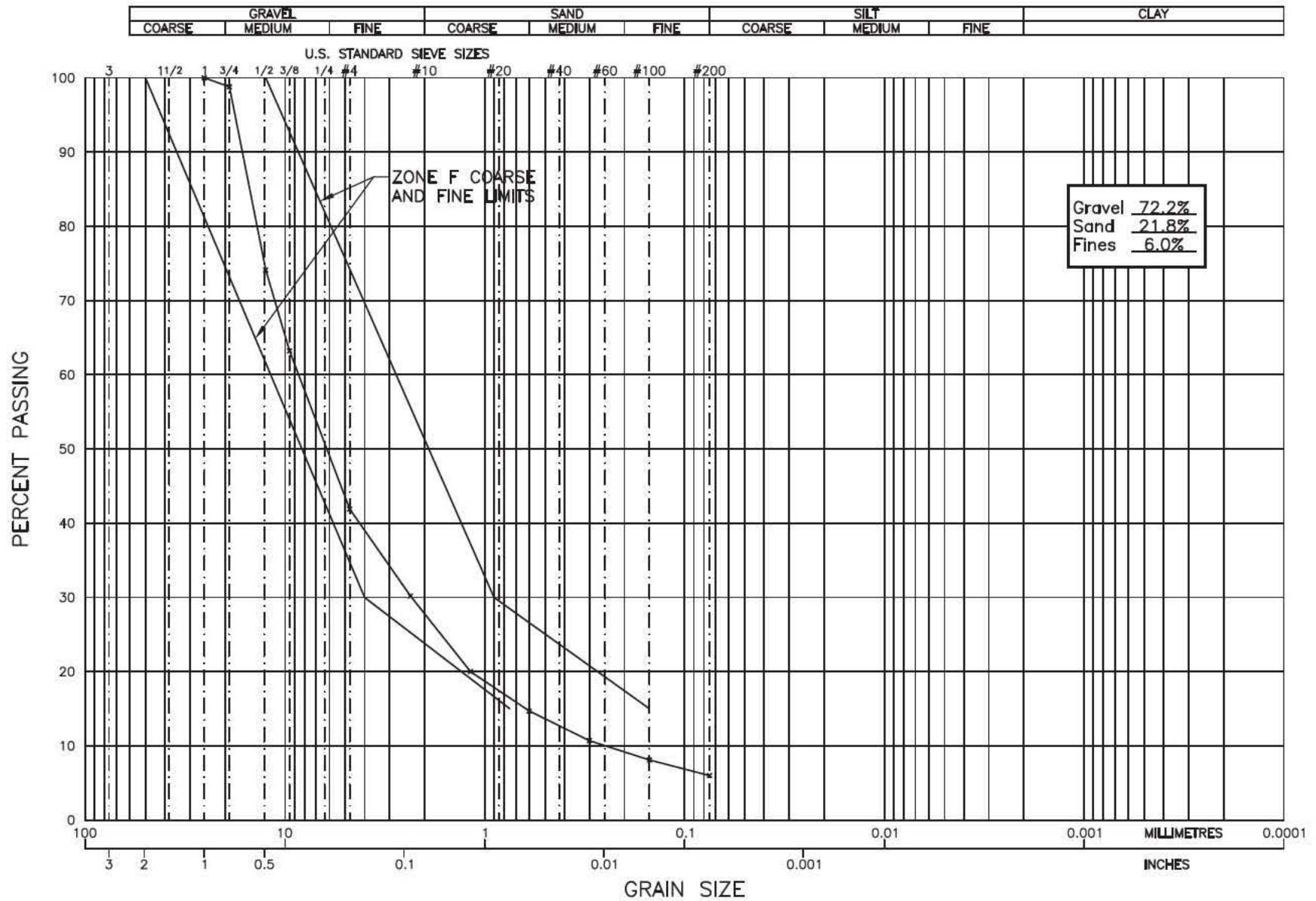


GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm		
1 1/2"	37.5	mm		
1"	25	mm	100.0	
3/4"	19	mm	98.8	
1/2"	12.5	mm	74.1	
3/8"	9.5	mm	63.2	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	41.9	
No. 8	2.36	mm	30.2	
No. 16	1.18	mm	20.0	
No. 30	600	µm	14.7	
No. 50	300	µm	10.7	
No. 100	150	µm	8.1	
No. 200	75	µm	6.0	

COMMENTS

Location:SE, Chainage:1500, Elevation:958.0, Offset:First Lift


GEO NORTH ENGINEERING LTD.

 3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

 MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF R-S6B-ZF-34-2010

PROJECT NO.

K-2937

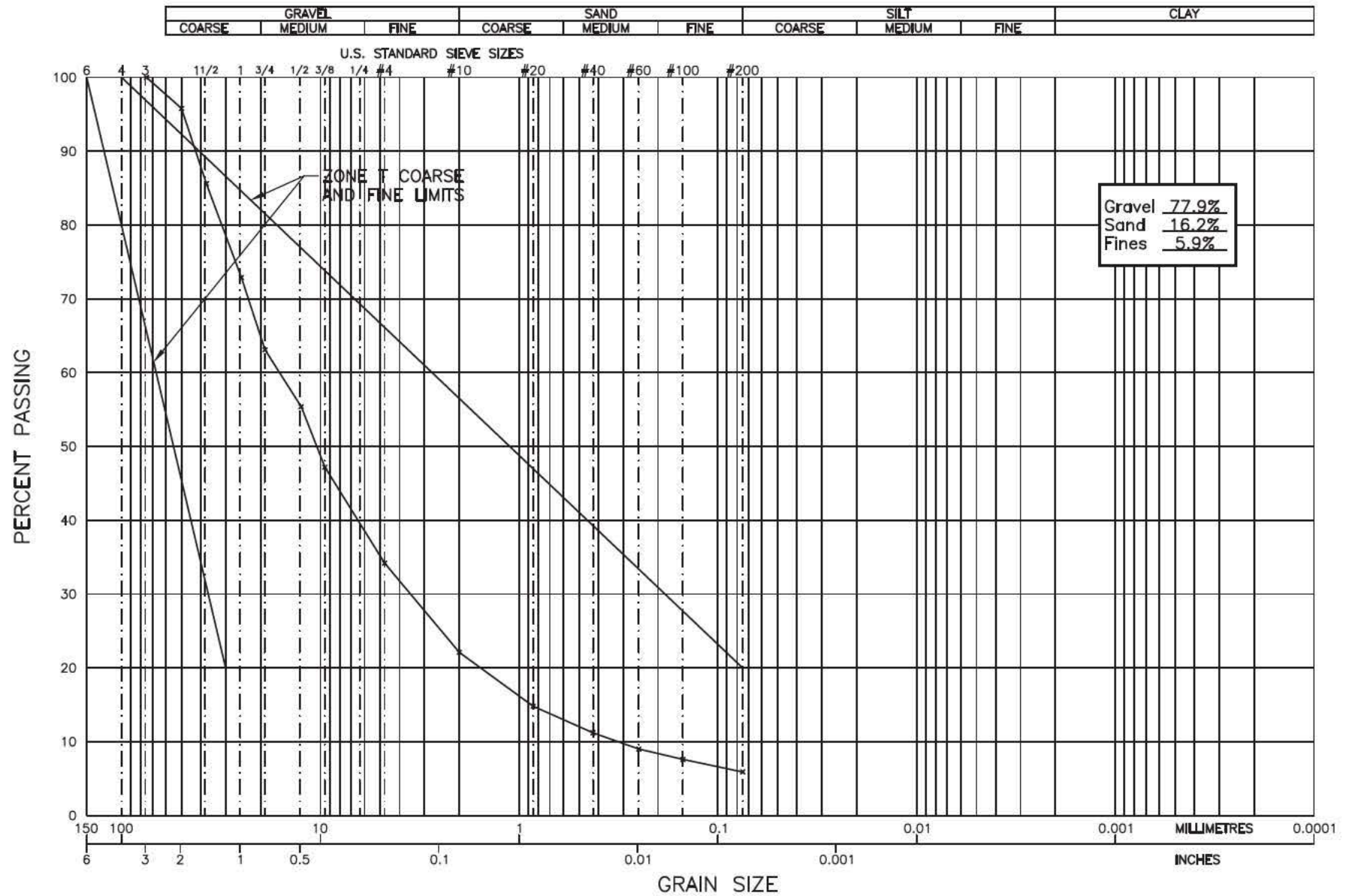
PLATE NO.

2937-C29

APPENDIX A4

ZONE T RECORD

(Pages A4-1 to A4-7)


GEO NORTH ENGINEERING LTD.

 3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

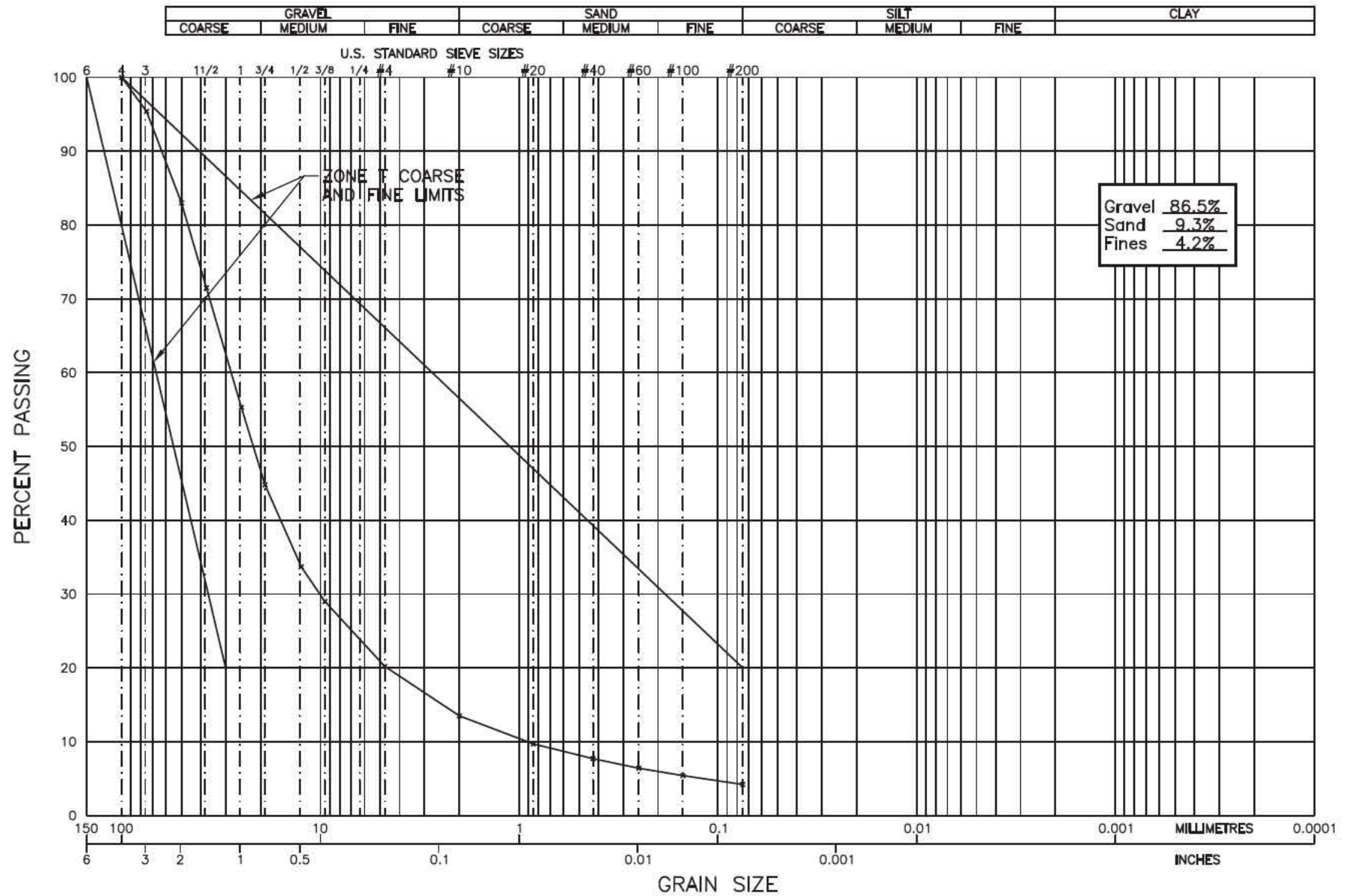
 MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF R-S6B-ZT-01-2010

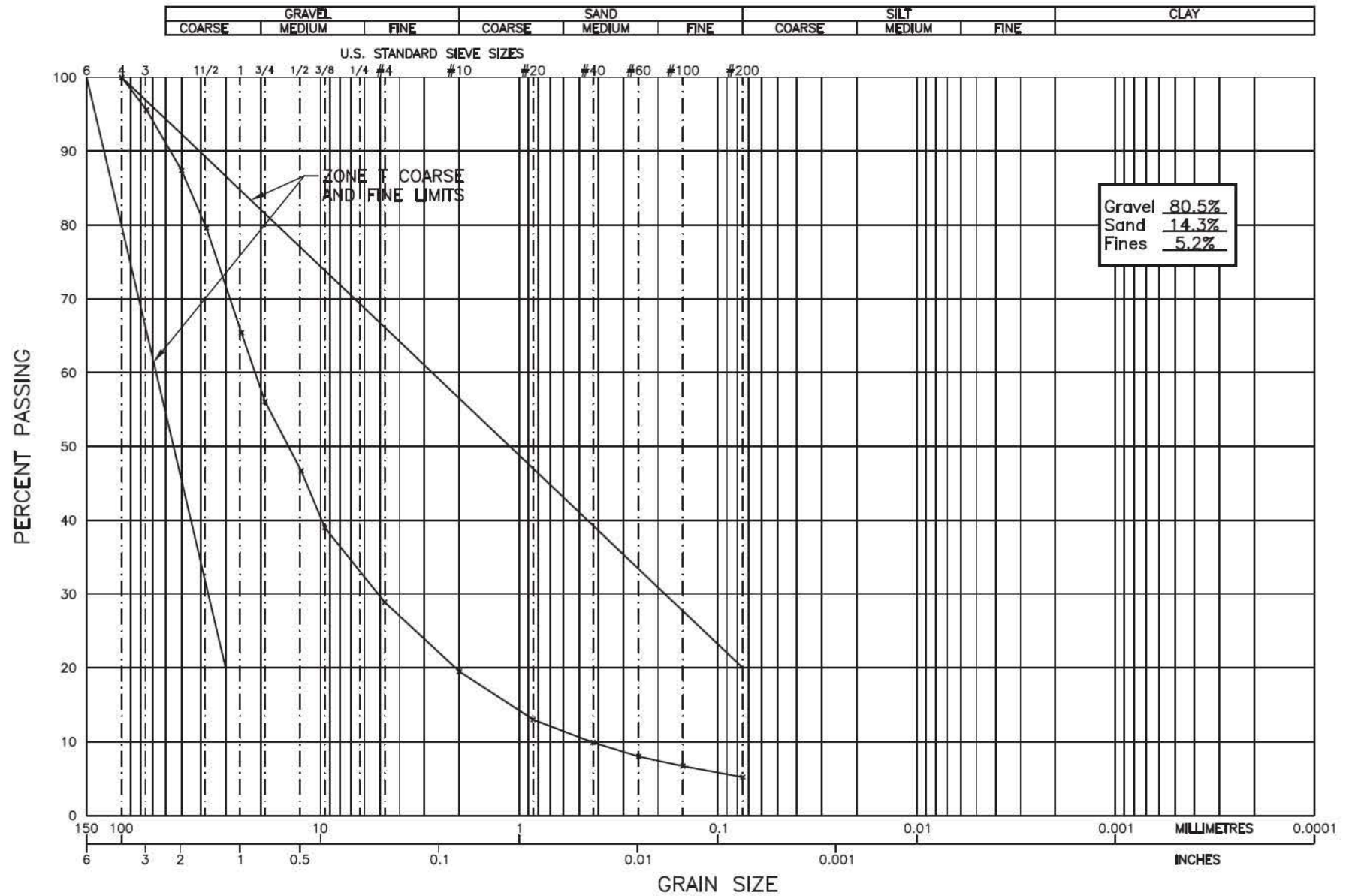
PROJECT NO.

K-2937

PLATE NO.

2937-C2





GEO NORTH ENGINEERING LTD.

3975 18th Avenue
 Prince George, B.C. V2N 1B2
 Tel. 250-564-4304 Fax 250-564-9323

MOUNT POLLEY MINING CORPORATION
 MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6B
 MOUNT POLLEY MINE, LIKELY, B.C.
 GRAIN SIZE ANALYSIS OF R-S6B-ZT-03-2010

PROJECT NO.

K-2937

PLATE NO.

2937-C4

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 23 DATE RECEIVED 2010.Apr.28 DATE TESTED 2010.Apr.29 DATE SAMPLED 2010.Apr.27

SUPPLIER

SOURCE R-S6B-ZT-04-2010

SPECIFICATION

MATERIAL TYPE Coarse Rock

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	90.3	
1 1/2"	37.5	mm	79.7	
1"	25	mm	65.6	
3/4"	19	mm	54.4	
1/2"	12.5	mm	35.7	
3/8"	9.5	mm	28.4	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	16.5	
No. 10	2.00	mm	9.2	
No. 20	850	µm	6.2	
No. 40	425	µm	4.8	
No. 60	250	µm	4.0	
No. 100	150	µm	3.4	
No. 200	75	µm	2.7	

COMMENTS

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 24 DATE RECEIVED 2010.Apr.28 DATE TESTED 2010.Apr.29 DATE SAMPLED 2010.Apr.27

SUPPLIER

SOURCE R-S6B-ZT-05-2010

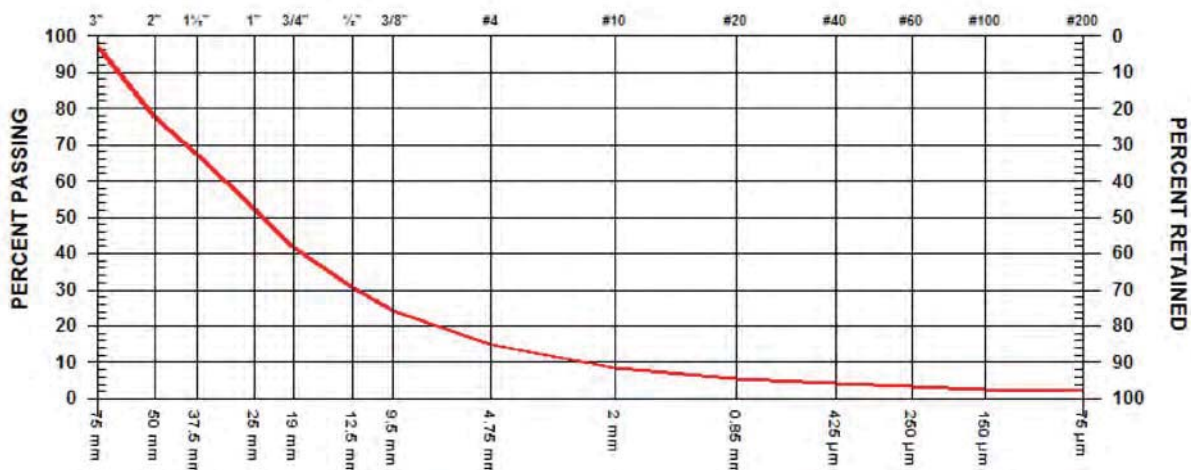
SPECIFICATION

MATERIAL TYPE Coarse Rock

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	97.1	
2"	50	mm	77.6	
1 1/2"	37.5	mm	67.4	
1"	25	mm	52.2	
3/4"	19	mm	41.7	
1/2"	12.5	mm	30.8	
3/8"	9.5	mm	24.3	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	14.8	
No. 10	2.00	mm	8.6	
No. 20	850	µm	5.5	
No. 40	425	µm	4.1	
No. 60	250	µm	3.3	
No. 100	150	µm	2.7	
No. 200	75	µm	2.1	

COMMENTS

100% passing the 4"

GeoNorth Engineering Ltd.

3975 18th Avenue Prince George, BC V2N 1B2

Phone (250)564-4304; Fax (250)564-9323

SIEVE ANALYSIS REPORT

10 20 40 60 SERIES

PROJECT NO. K 2937

CLIENT Mount Polley Mining Corp.

c.c. Knight Piesold Ltd.

TO

Mount Polley Mining Corp.
P.O. Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ E-mail

PROJECT Mount Polley Construction Program
Stage 6B

Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 25 DATE RECEIVED 2010.Apr.28 DATE TESTED 2010.Apr.30 DATE SAMPLED 2010.Apr.27

SUPPLIER

SOURCE R-S6B-ZT-06-2010

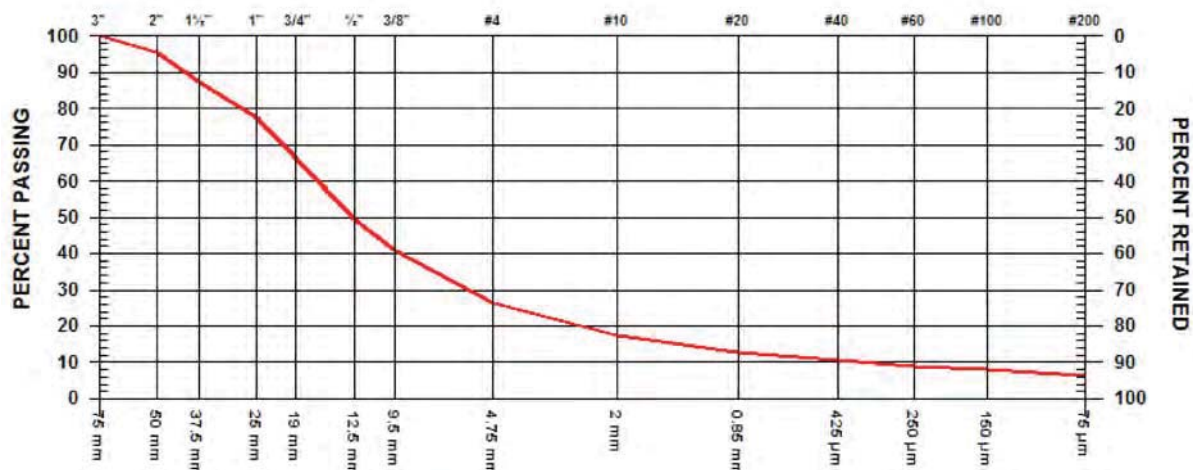
SPECIFICATION

MATERIAL TYPE Coarse Gravel

SAMPLED BY Client

TESTED BY DJ

TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	95.4	
1 1/2"	37.5	mm	87.4	
1"	25	mm	77.6	
3/4"	19	mm	66.6	
1/2"	12.5	mm	49.4	
3/8"	9.5	mm	40.8	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	26.4	
No. 10	2.00	mm	17.4	
No. 20	850	µm	12.9	
No. 40	425	µm	10.6	
No. 60	250	µm	9.1	
No. 100	150	µm	7.9	
No. 200	75	µm	6.2	

COMMENTS

TO
 Mount Polley Mining Corp.
 P.O Box 12
 Likely, BC
 VOL -1N0

PROJECT NO. K 2937
 CLIENT Mount Polley Mining Corp.
 c.c. Knight Piesold Ltd.

ATTN: Ron Martel @ E-mail

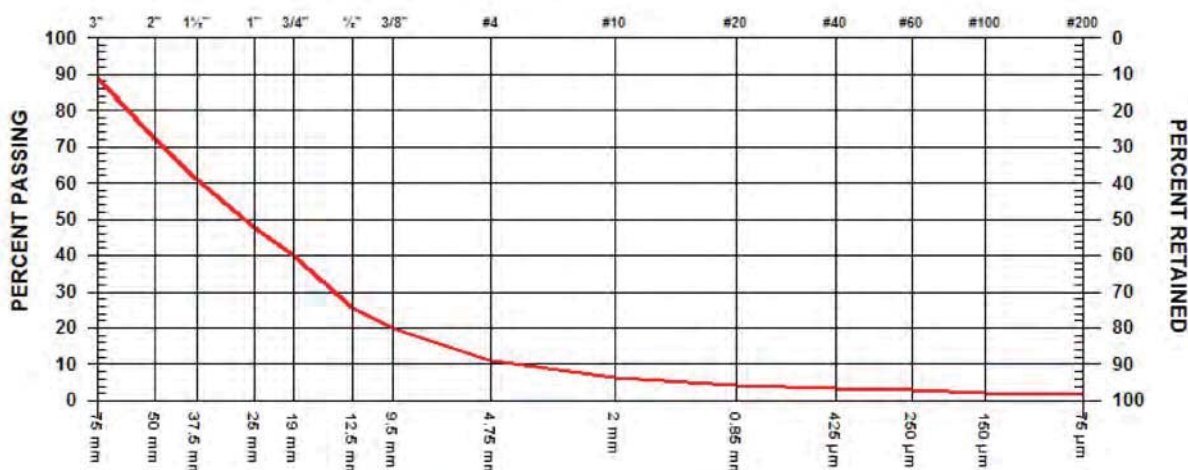
PROJECT Mount Polley Construction Program
 Stage 6B
 CONTRACTOR

Mount Polley Mine
 Likely

SIEVE TEST NO. 26 DATE RECEIVED 2010.Apr.28 DATE TESTED 2010.Apr.30 DATE SAMPLED 2010.Apr.27

SUPPLIER
 SOURCE R-S6B-ZT-07-2010
 SPECIFICATION
 MATERIAL TYPE Coarse Rock

SAMPLED BY Client
 TESTED BY DJ
 TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75 mm		89.0	
2"	50 mm		72.1	
1 1/2"	37.5 mm		61.0	
1"	25 mm		47.6	
3/4"	19 mm		40.0	
1/2"	12.5 mm		25.4	
3/8"	9.5 mm		20.0	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm		11.2	
No. 10	2.00 mm		6.4	
No. 20	850 µm		4.4	
No. 40	425 µm		3.5	
No. 60	250 µm		2.8	
No. 100	150 µm		2.3	
No. 200	75 µm		1.7	

COMMENTS
 100% passing the 4"

APPENDIX B

NUCLEAR DENSOMETER RESULTS –
ZONE S RECORD

(Pages B-1 to B-9)

FIELD COMPACTION TESTS (Metric)									PROJECT NO.		101-01/29	
NUCLEAR GAUGE									DATE		February to August 2010	
TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	LABORATORY							
					Max. Dry Density (kg/m ³)	Optimum Moisture (%)	Dry Density (kg/m ³)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or Fail	
1	SE 6+50	954.6	S	0.2	2080	9.0	2093	9.17	100.6	95.0	Pass	
2	SE 7+25	954.3	S	0.2	2080	9.0	2087	8.97	100.3	95.0	Pass	
3	SE7+50	954.3	S	0.2	2080	9.0	2123	9.20	102.1	95.0	Pass	
4	SE 8+00	954.3	S	0.2	2080	9.0	2030	9.46	97.6	95.0	Pass	
5	SE7+75	954.6	S	0.2	2080	9.0	2125	7.95	102.2	95.0	Pass	
6	SE8+25	954.6	S	0.2	2080	9.0	2073	8.96	99.7	95.0	Pass	
7	SE8+75	954.6	S	0.2	2080	9.0	2044	10.15	98.3	95.0	Pass	
8	SE9+25	954.6	S	0.2	2080	9.0	2031	10.15	97.6	95.0	Pass	
9	SE9+75	954.6	S	0.2	2080	9.0	2063	8.91	99.2	95.0	Pass	
10	SE10+75	954.3	S	0.2	2080	9.0	2077	9.95	99.9	95.0	Pass	
11	SE11+50	954.3	S	0.2	2080	9.0	2049	10.31	98.5	95.0	Pass	
12	SE12+00	954.3	S	0.2	2080	9.0	2029	10.08	97.5	95.0	Pass	
13	SE12+00	954.6	S	0.2	2080	9.0	1985	9.92	95.4	95.0	Pass	
14	SE12+50	954.3	S	0.2	2080	9.0	2043	9.66	98.2	95.0	Pass	
15	SE13+00	954.3	S	0.2	2080	9.0	2014	9.62	96.8	95.0	Pass	
16	SE11+00	954.6	S	0.2	2080	9.0	2033	9.93	97.7	95.0	Pass	
17	SE12+50	954.6	S	0.2	2080	9.0	1978	11.02	95.1	95.0	Pass	
18	SE12+00	954.6	S	0.2	2080	9.0	2124	8.17	102.1	95.0	Pass	
19	SE11+50	954.6	S	0.2	2080	9.0	2024	9.89	97.3	95.0	Pass	
20	SE12+75	954.6	S	0.2	2080	9.0	2038	10.85	98.0	95.0	Pass	
21	SE13+40	954.6	S	0.2	2080	9.0	2098	8.65	100.9	95.0	Pass	
22	SE14+00	954.3	S	0.2	2080	9.0	2062	9.21	99.1	95.0	Pass	
23	SE15+00	954.3	S	0.2	2080	9.0	2085	9.50	100.2	95.0	Pass	
24	SE13+75	954.9	S	0.2	2080	9.0	2009	10.04	96.6	95.0	Pass	
25	SE Abutment	955.0	S	0.2	2080	9.0	2075	9.43	99.8	95.0	Pass	
26	SE Abutment	954.3	S	0.2	2080	9.0	2077	9.38	99.9	95.0	Pass	
27	SE15+00	954.8	S	0.2	2080	9.0	2049	9.22	98.5	95.0	Pass	
28	SE14+50	954.9	S	0.2	2080	9.0	2031	9.04	97.6	95.0	Pass	
29	SE14+00	954.9	S	0.2	2080	9.0	2078	9.86	99.9	95.0	Pass	
30	SE Abutment	954.8	S	0.2	2080	9.0	2073	9.46	99.7	95.0	Pass	
31	PE44+00	954.3	S	0.2	2080	9.0	2084	9.88	100.2	95.0	Pass	
32	PE44+50	954.3	S	0.2	2080	9.0	2084	9.88	100.2	95.0	Pass	
33	PE43+00	954.3	S	0.2	2080	9.0	2028	9.89	97.5	95.0	Pass	
34	PE42+25	954.3	S	0.2	2080	9.0	2040	8.71	98.1	95.0	Pass	
35	PE41+75	954.3	S	0.2	2080	9.0	2133	8.61	102.5	95.0	Pass	
36	PE42+50	954.6	S	0.2	2080	9.0	2013	9.70	96.8	95.0	Pass	
37	PE42+00	954.6	S	0.2	2080	9.0	2097	9.65	100.8	95.0	Pass	
38	PE41+00	954.3	S	0.2	2080	9.0	2212	7.85	106.3	95.0	Pass	
39	PE40+00	954.3	S	0.2	2080	9.0	2063	9.83	99.2	95.0	Pass	
40	PE41+50	954.6	S	0.2	2080	9.0	2094	8.93	100.7	95.0	Pass	
41	PE41+00	954.6	S	0.2	2080	9.0	2018	8.24	97.0	95.0	Pass	
42	PE40+50	954.6	S	0.2	2080	9.0	2049	9.93	98.5	95.0	Pass	
43	PE39+25	954.3	S	0.2	2080	9.0	2108	9.71	101.3	95.0	Pass	
44	PE39+50	954.3	S	0.2	2080	9.0	2035	12.51	97.8	95.0	Pass	
45	PE38+50	954.3	S	0.2	2080	9.0	2006	12.14	96.4	95.0	Pass	
46	PE38+00	954.3	S	0.2	2080	9.0	2008	12.01	96.5	95.0	Pass	
47	PE38+25	954.6	S	0.2	2080	9.0	1971	12.01	94.8	95.0	Fail	
48	PE39+25	954.6	S	0.2	2080	9.0	2004	11.83	96.3	95.0	Pass	
49	PE44+00	954.3	S	0.2	2080	9.0	2105	10.04	101.2	95.0	Pass	
50	PE44+50	954.3	S	0.2	2080	9.0	2090	9.39	100.5	95.0	Pass	
51	PE44+50	954.3	S	0.2	2080	9.0	2060	9.34	99.0	95.0	Pass	
52	PE45+55	954.6	S	0.2	2080	9.0	1997	10.20	96.0	95.0	Pass	
53	PE44+25	954.6	S	0.2	2080	9.0	2087	8.50	100.3	95.0	Pass	
54	PE44+75	954.6	S	0.2	2080	9.0	2039	9.48	98.0	95.0	Pass	
55	PE44+25	954.6	S	0.2	2080	9.0	2138	8.44	102.8	95.0	Pass	
56	PE44+25	954.9	S	0.2	2080	9.0	2101	9.77	101.0	95.0	Pass	
57	PE45+10	955.5	S	0.2	2080	9.0	2070	9.30	99.5	95.0	Pass	
58	PE45+45	954.3	S	0.2	2080	9.0	2140	8.19	102.9	95.0	Pass	
59	PE46+10	954.3	S	0.2	2080	9.0	2101	9.71	101.0	95.0	Pass	
60	PE46+50	954.3	S	0.2	2080	9.0	2136	9.36	102.7	95.0	Pass	
61	PE46+00	954.6	S	0.2	2080	9.0	2032	11.41	97.7	95.0	Pass	
62	PE46+25	954.6	S	0.2	2080	9.0	2034	9.83	97.8	95.0	Pass	
63	PE45+20	955.2	S	0.2	2080	9.0	2086	9.91	100.3	95.0	Pass	
64	PE44+75	955.2	S	0.2	2080	9.0	2127	8.67	102.3	95.0	Pass	
65	PE47+10	954.0	S	0.2	2080	9.0	2109	8.69	101.4	95.0	Pass	
66	PE46+90	954.3	S	0.2	2080	9.0	2163	8.24	104.0	95.0	Pass	
67	PE47+20	954.3	S	0.2	2080	9.0	2073	8.73	99.7	95.0	Pass	
68	PE47+50	955.1	S	0.2	2080	9.0	2169	8.41	104.3	95.0	Pass	
69	PE37+75	954.0	S	0.2	2080	9.0	2112	11.19	101.5	95.0	Pass	
70	PE38+25	954.0	S	0.2	2080	9.0	2033	11.05	97.7	95.0	Pass	
71	PE39+50	954.0	S	0.2	2080	9.0	2009	11.43	96.6	95.0	Pass	
72	PE39+40	954.0	S	0.2	2080	9.0	1929	12.70	92.7	95.0	Fail	
73	PE40+15	954.0	S	0.2	2080	9.0	2160	8.08	103.8	95.0	Pass	
74	PE40+00	954.6	S	0.2	2080	9.0	2131	8.66	102.5	95.0	Pass	

75	PE35+50	954.0	S	0.2	2080	9.0	2118	8.39	101.8	95.0	Pass
76	PE36+00	954.0	S	0.2	2080	9.0	2084	10.11	100.2	95.0	Pass
77	PE35+00	954.0	S	0.2	2080	9.0	2630	5.68	126.4	95.0	Pass
78	PE36+00	954.0	S	0.2	2080	9.0	2535	7.98	121.9	95.0	Pass
79	PE36+50	954.3	S	0.2	2080	9.0	2065	8.54	99.3	95.0	Pass
80	PE34+50	954.0	S	0.2	2080	9.0	2083	8.67	100.1	95.0	Pass
81	PE36+25	954.3	S	0.2	2080	9.0	2093	8.78	100.6	95.0	Pass
82	PE35+00	954.3	S	0.2	2080	9.0	2480	7.33	119.2	95.0	Pass
83	PE34+40	954.3	S	0.2	2080	9.0	2464	8.19	118.5	95.0	Pass
84	PE34+00	954.0	S	0.2	2080	9.0	1979	8.72	95.1	95.0	Pass
85	PE33+70	954.0	S	0.2	2080	9.0	2541	7.64	122.2	95.0	Pass
86	PE33+25	954.0	S	0.2	2080	9.0	2003	10.71	96.3	95.0	Pass
87	PE32+50	954.0	S	0.2	2080	9.0	2492	7.75	119.8	95.0	Pass
88											
89	PE33+00	954.0	S	0.2	2080	9.0	2108	9.06	101.3	95.0	Pass
90	PE34+50	954.3	S	0.2	2080	9.0	2039	9.56	98.0	95.0	Pass
91	PE33+25	954.3	S	0.2	2080	9.0	2033	9.41	97.7	95.0	Pass
92	PE34+00	954.3	S	0.2	2080	9.0	1996	8.99	96.0	95.0	Pass
93	PE32+75	954.0	S	0.2	2080	9.0	2027	9.92	97.5	95.0	Pass
94	PE42+75	954.6	S	0.2	2080	9.0	2055	9.07	98.8	95.0	Pass
95	PE42+00	954.6	S	0.2	2080	9.0	2141	9.23	102.9	95.0	Pass
96	PE41+50	954.6	S	0.2	2080	9.0	2287	5.51	110.0	95.0	Pass
97	PE40+25	954.6	S	0.2	2080	9.0	2073	8.74	99.7	95.0	Pass
98											
99	PE40+75	954.6	S	0.2	2080	9.0	2242	8.34	107.8	95.0	Pass
100	PE39+50	954.6	S	0.2	2080	9.0	1825	10.03	87.7	95.0	Fail
101	PE38+75	954.6	S	0.2	2080	9.0	2207	7.83	106.1	95.0	Pass
102	PE38+25	954.6	S	0.2	2080	9.0	2077	10.60	99.9	95.0	Pass
103	PE37+75	954.6	S	0.2	2080	9.0	2058	8.88	98.9	95.0	Pass
104	PE37+00	954.6	S	0.2	2080	9.0	2137	9.02	102.7	95.0	Pass
105	PE37+25	954.6	S	0.2	2080	9.0	2671	7.34	128.4	95.0	Pass
106	PE39+25	954.6	S	0.2	2080	9.0	2433	8.08	117.0	95.0	Pass
107	PE40+00	954.6	S	0.2	2080	9.0	2426	7.91	116.6	95.0	Pass
108	PE34+50	954.6	S	0.2	2080	9.0	2270	7.08	109.1	95.0	Pass
109	PE33+75	954.6	S	0.2	2080	9.0	2439	7.66	117.3	95.0	Pass
110	PE32+75	954.6	S	0.2	2080	9.0	2020	9.02	97.1	95.0	Pass
111	PE32+25	954.3	S	0.2	2080	9.0	2160	8.56	103.8	95.0	Pass
112	PE31+50	954.3	S	0.2	2080	9.0	2125	8.84	102.2	95.0	Pass
113	PE31+00	954.3	S	0.2	2080	9.0	2176	9.08	104.6	95.0	Pass
114	PE30+75	954.3	S	0.2	2080	9.0	2123	9.43	102.1	95.0	Pass
115	PE30+00	954.3	S	0.2	2080	9.0	2138	9.07	102.8	95.0	Pass
116	PE30+50	954.6	S	0.2	2080	9.0	2130	8.93	102.4	95.0	Pass
117	PE30+00	954.6	S	0.2	2080	9.0	2085	8.90	100.2	95.0	Pass
118	PE31+00	954.6	S	0.2	2080	9.0	2093	8.77	100.6	95.0	Pass
119	PE31+50	954.6	S	0.2	2080	9.0	2120	8.92	101.9	95.0	Pass
120	PE29+50	954.6	S	0.2	2080	9.0	2093	8.23	100.6	95.0	Pass
121	PE29+00	954.6	S	0.2	2080	9.0	2133	8.51	102.5	95.0	Pass
122	ME18+50	954.3	S	0.2	2080	9.0	2192	6.73	105.4	95.0	Pass
123	ME19+00	954.3	S	0.2	2080	9.0	2144	8.23	103.1	95.0	Pass
124	ME17+75	954.3	S	0.2	2080	9.0	2135	9.69	102.6	95.0	Pass
125	ME17+00	954.3	S	0.2	2080	9.0	2113	10.20	101.6	95.0	Pass
126	ME16+50	954.3	S	0.2	2080	9.0	2139	9.26	102.8	95.0	Pass
127	ME19+00	954.6	S	0.2	2080	9.0	2059	8.16	99.0	95.0	Pass
128	ME18+50	954.6	S	0.2	2080	9.0	2123	8.67	102.1	95.0	Pass
129	ME18+00	954.6	S	0.2	2080	9.0	2137	8.53	102.7	95.0	Pass
130	ME17+50	954.6	S	0.2	2080	9.0	2146	9.02	103.2	95.0	Pass
131	ME 1625	954.3	S	0.2	2080	9.0	2190	8.01	105.3	95.0	Pass
132	ME1550	954.6	S	0.2	2080	9.0	2160	8.43	103.8	95.0	Pass
133	ME1595	954.6	S	0.2	2080	9.0	2198	8.01	105.7	95.0	Pass
134	ME 1950	954.3	S	0.2	2080	9.0	2174	7.33	104.5	95.0	Pass
135	ME 1995	954.3	S	0.2	2080	9.0	2235	8.56	107.5	95.0	Pass
136	ME 1995	945.6	S	0.2	2080	9.0	2010	10.01	96.6	95.0	Pass
137	ME 2100	954.3	S	0.2	2080	9.0	2130	9.01	102.4	95.0	Pass
138	ME 2150	954.3	S	0.2	2080	9.0	2132	8.70	102.5	95.0	Pass
139	ME 2075	954.3	S	0.2	2080	9.0	2140	9.90	102.9	95.0	Pass
140	ME 2150	954.6	S	0.2	2080	9.0	2150	9.17	103.4	95.0	Pass
141	ME 2400	954.3	S	0.2	2080	9.0	2136	8.61	102.7	95.0	Pass
142	ME 2475	954.6	S	0.2	2080	9.0	2186	8.61	105.1	95.0	Pass
143	ME 2175	954.3	S	0.2	2080	9.0	2204	8.21	106.0	95.0	Pass
144	ME 2275	954.6	S	0.2	2080	9.0	2069	8.86	99.5	95.0	Pass
145	ME 2150	954.6	S	0.2	2080	9.0	2154	7.45	103.6	95.0	Pass
146	ME 2450	954.6	S	0.2	2080	9.0	2116	9.23	101.7	95.0	Pass
147	ME 2650	954.3	S	0.2	2080	9.0	2022	9.05	97.2	95.0	Pass
148	ME 2700	954.3	S	0.2	2080	9.0	2094	9.15	100.7	95.0	Pass
149	ME 2575	954.9	S	0.2	2080	9.0	2169	9.46	104.3	95.0	Pass
150	ME 2875	954.6	S	0.2	2080	9.0	2102	9.70	101.1	95.0	Pass
151	ME 2500	954.6	S	0.2	2080	9.0	2119	10.63	101.9	95.0	Pass
152	ME2700	954.9	S	0.2	2080	9.0	2081	9.83	100.0	95.0	Pass
153	ME 1925	954.9	S	0.2	2080	9.0	2056	10.95	98.8	95.0	Pass
154	ME 1800	954.9	S	0.2	2080	9.0	2091	10.06	100.5	95.0	Pass
155	ME1725	954.9	S	0.2	2080	9.0	2150	10.48	103.4	95.0	Pass
156	ME 1675	954.9	S	0.2	2080	9.0	2120	10.42	101.9	95.0	Pass
157	ME 2400	955.2	S	0.2	2080	9.0	2094	10.75	100.7	95.0	Pass

158	ME2200	955.2	S	0.2	2080	9.0	2007	10.45	96.5	95 0	Pass
159	ME 1675	955.2	S	0.2	2080	9.0	2076	10 03	99.8	95 0	Pass
160	ME 2725	954.9	S	0.2	2080	9.0	2014	10 61	96.8	95 0	Pass
161	ME 2650	954.9	S	0.2	2080	9.0	2034	10 84	97.8	95 0	Pass
162	ME 2600	955.2	S	0.2	2080	9.0	1999	11.74	96.1	95.0	Pass
163	ME2475	955.2	S	0.2	2080	9.0	2048	11 22	98.5	95.0	Pass
164	ME2525	955.2	S	0.2	2080	9.0	2054	11 51	98.8	95.0	Pass
165	ME2450	955.2	S	0.2	2080	9.0	2101	9.90	101 0	95.0	Pass
166	ME2175	955.2	S	0.2	2080	9.0	2153	10 83	103 5	95.0	Pass
167	ME2075	955.2	S	0.2	2080	9.0	2069	10.41	99.5	95.0	Pass
168	ME 2125	955.2	S	0.2	2080	9.0	2005	11 83	96.4	95.0	Pass
169	ME 2000	955.2	S	0.2	2080	9.0	2085	10.18	100 2	95.0	Pass
170	ME 2000	955.2	S	0.2	2080	9.0	2077	10.47	99.9	95.0	Pass
171	ME 1950	955.2	S	0.2	2080	9.0	2079	10 00	100 0	95.0	Pass
172	ME 1800	955.2	S	0.2	2080	9.0	2077	9.83	99.9	95.0	Pass
173	ME 1750	955.2	S	0.2	2080	9.0	2045	10 68	98.3	95.0	Pass
174	ME 1750	955.2	S	0.2	2080	9.0	2131	9.88	102 5	95.0	Pass
175	ME1600	955.5	S	0.2	2080	9.0	2089	9.94	100.4	95.0	Pass
176	ME1650	955.5	S	0.2	2080	9.0	2092	9.69	100 6	95.0	Pass
177	ME1700	955.5	S	0.2	2080	9.0	2072	10.75	99.6	95.0	Pass
178	PE4025	954.8	S	0.2	2080	9.0	2131	9.53	102 5	95.0	Pass
179	PE4075	954.8	S	0.2	2080	9.0	2092	9.40	100 6	95.0	Pass
180	PE4125	954.8	S	0.2	2080	9.0	2124	9.88	102.1	95.0	Pass
181	PE4175	954.8	S	0.2	2080	9.0	2098	10 82	100 9	95.0	Pass
182	PE4350	954.8	S	0.2	2080	9.0	2096	10 55	100 8	95.0	Pass
183	PE4300	954.8	S	0.2	2080	9.0	2113	9.66	101 6	95.0	Pass
184	PE4050	955.2	S	0.2	2080	9.0	2119	9.93	101 9	95.0	Pass
185	PE4100	955.2	S	0.2	2080	9.0	2043	10.18	98.2	95.0	Pass
186	PE4150	955.2	S	0.2	2080	9.0	2173	9.52	104 5	95.0	Pass
187	PE4200	955.2	S	0.2	2080	9.0	2147	8.87	103 2	95.0	Pass
188	ME2750	955.2	S	0.2	2080	9.0	2140	9.53	102 9	95.0	Pass
189	ME2625	955.5	S	0.2	2080	9.0	2120	9.62	101 9	95.0	Pass
190	ME2675	955.5	S	0.2	2080	9.0	2185	8.86	105 0	95.0	Pass
191	ME2725	955.5	S	0.2	2080	9.0	2202	8.55	105 9	95.0	Pass
192	PE2800	954.9	S	0.2	2080	9.0	2131	9.86	102 5	95.0	Pass
193	PE2850	954.9	S	0.2	2080	9.0	2125	10.49	102 2	95.0	Pass
194	PE2900	954.9	S	0.2	2080	9.0	2172	9.29	104.4	95.0	Pass
195	PE2950	954.9	S	0.2	2080	9.0	2163	9.65	104 0	95.0	Pass
196	PE3000	954.9	S	0.2	2080	9.0	2131	9.47	102 5	95.0	Pass
197	PE3050	954.9	S	0.2	2080	9.0	2116	9.19	101.7	95.0	Pass
198	PE3100	954.9	S	0.2	2080	9.0	2131	10 28	102 5	95.0	Pass
199	PE3150	954.9	S	0.2	2080	9.0	2060	10.74	99.0	95.0	Pass
200	PE3200	954.9	S	0.2	2080	9.0	2199	8.99	105.7	95.0	Pass
201	PE3250	954.9	S	0.2	2080	9.0	2102	10.73	101.1	95.0	Pass
202	PE3300	954.9	S	0.2	2080	9.0	2166	11.10	104.1	95 0	Pass
203	PE2068	954.9	S	0.2	2080	9.0	2068	11.40	99.4	95 0	Pass
204	PE3400	954.9	S	0.2	2080	9.0	2187	9.31	105.1	95.0	Pass
205	PE3450	954.9	S	0.2	2080	9.0	2061	11 07	99.1	95.0	Pass
206	PE3500	954.9	S	0.2	2080	9.0	2157	9.94	103.7	95.0	Pass
207	PE3550	954.9	S	0.2	2080	9.0	2150	9.99	103.4	95.0	Pass
208	PE3600	954.9	S	0.2	2080	9.0	2132	10.24	102 5	95.0	Pass
209	PE3650	954.9	S	0.2	2080	9.0	2116	10 26	101.7	95.0	Pass
210	PE3700	954.9	S	0.2	2080	9.0	2106	10 50	101 3	95.0	Pass
211	PE3750	954.9	S	0.2	2080	9.0	2112	10 01	101 5	95.0	Pass
212	PE3800	954.9	S	0.2	2080	9.0	2094	10 90	100.7	95.0	Pass
213	PE3850	955.2	S	0.2	2080	9.0	2170	9.94	104 3	95.0	Pass
214	PE3900	955.2	S	0.2	2080	9.0	2154	9.56	103 6	95.0	Pass
215	PE2775	955.2	S	0.2	2080	9.0	2159	8.89	103 8	95.0	Pass
216	PE2825	955.2	S	0.2	2080	9.0	2113	10.16	101 6	95.0	Pass
217	PE 2875	955.2	S	0.2	2080	9.0	2096	9.97	100 8	95.0	Pass
218	PE2925	955.2	S	0.2	2080	9.0	2101	9.98	101 0	95.0	Pass
219	PE 2975	955.2	S	0.2	2080	9.0	2077	9.90	99.9	95.0	Pass
220	PE 2325	955.2	S	0.2	2080	9.0	2199	8.05	105.7	95.0	Pass
221	PE 3075	955.2	S	0.2	2080	9.0	2232	8.08	107 3	95.0	Pass
222	PE 3125	955.2	S	0.2	2080	9.0	2271	6.58	109 2	95.0	Pass
223	PE 3175	955.2	S	0.2	2080	9.0	2220	7.42	106.7	95.0	Pass
224	PE 3225	955.2	S	0.2	2080	9.0	2222	6.65	106 8	95.0	Pass
225	PE3275	955.2	S	0.2	2080	9.0	2158	8.27	103 8	95.0	Pass
226	PE 3325	955.2	S	0.2	2080	9.0	2148	9.46	103 3	95.0	Pass
227	PE 3375	955.2	S	0.2	2080	9.0	2103	10.11	101.1	95.0	Pass
228	PE 3425	955.2	S	0.2	2080	9.0	2127	9.81	102 3	95.0	Pass
229	PE 3475	955.2	S	0.2	2080	9.0	2121	9.15	102 0	95.0	Pass
230	PE 3525	955.2	S	0.2	2080	9.0	2173	8.47	104 5	95.0	Pass
231	PE3575	955.2	S	0.2	2080	9.0	2096	9.27	100 8	95.0	Pass
232	PE3625	955.2	S	0.2	2080	9.0	2190	9.11	105 3	95.0	Pass
233	PE 3675	955.2	S	0.2	2080	9.0	2178	8.84	104.7	95.0	Pass
234	PE3725	955.2	S	0.2	2080	9.0	2120	9.61	101 9	95.0	Pass
235	PE Abutment	958	S	0.2	2080	9.0	2152	7.84	103 5	95 0	Pass
236	PE Abutment	956	S	0.2	2080	9.0	2124	8.23	102.1	95 0	Pass
237	PE3775	955.5	S	0.2	2080	9.0	2199	7.37	105.7	95 0	Pass
238	PE3825	955.2	S	0.2	2080	9.0	2192	8.88	105.4	95 0	Pass
239	PE3875	955.5	S	0.2	2080	9.0	2134	6.93	102 6	95.0	Pass
240	PE2800	955.5	S	0.2	2080	9.0	2207	7.38	106.1	95.0	Pass
241	PE2850	955.5	S	0.2	2080	9.0	2137	7.16	102.7	95.0	Pass
242	PE2900	955.5	S	0.2	2080	9.0	2253	6.53	108 3	95.0	Pass
243	PE2950	955.5	S	0.2	2080	9.0	2068	10.47	99.4	95.0	Pass
244	PE3000	955.5	S	0.2	2080	9.0	2190	8.31	105 3	95.0	Pass
245	PE3050	955.5	S	0.2	2080	9.0	2115	8.87	101.7	95.0	Pass
246	PE3100	955.5	S	0.2	2080	9.0	2036	11 03	97.9	95.0	Pass
247	PE3150	955.5	S	0.2	2080	9.0	2172	9.62	104.4	95.0	Pass

248	PE3200	955.5	S	0.2	2080	9.0	1974	10.86	94.9	95.0	Fail
249	PE3200	955.5	S	0.2	2080	9.0	2079	9.60	100.0	95.0	Pass
250	PE3250	955.5	S	0.2	2080	9.0	2202	8.20	105.9	95.0	Pass
251	PE3300	955.5	S	0.2	2080	9.0	2097	9.36	100.8	95.0	Pass
252	PE3350	955.5	S	0.2	2080	9.0	2219	8.17	106.7	95.0	Pass
253	PE3400	955.5	S	0.2	2080	9.0	2135	9.08	102.6	95.0	Pass
254	PE3450	955.5	S	0.2	2080	9.0	2184	8.49	105.0	95.0	Pass
255	PE3500	955.5	S	0.2	2080	9.0	2199	8.54	105.7	95.0	Pass
256	PE3550	955.5	S	0.2	2080	9.0	2117	9.79	101.8	95.0	Pass
257	PE3600	955.5	S	0.2	2080	9.0	2167	10.26	104.2	95.0	Pass
258	PE3650	955.8	S	0.2	2080	9.0	2141	8.89	102.9	95.0	Pass
260	PE3700	955.8	S	0.2	2080	9.0	2064	10.96	99.2	95.0	Pass
261	PE3750	955.8	S	0.2	2080	9.0	2234	8.83	107.4	95.0	Pass
262	PE3800	955.8	S	0.2	2080	9.0	2118	10.92	101.8	95.0	Pass
263	PE3850	955.8	S	0.2	2080	9.0	2044	11.53	98.3	95.0	Pass
264	PE4075	955.5	S	0.2	2080	9.0	2054	11.48	98.8	95.0	Pass
265	PE4125	955.5	S	0.2	2080	9.0	2111	10.44	101.5	95.0	Pass
266	PE4175	955.5	S	0.2	2080	9.0	2027	11.39	97.5	95.0	Pass
267	PE4225	955.5	S	0.2	2080	9.0	2057	10.98	98.9	95.0	Pass
268	PE4275	955.5	S	0.2	2080	9.0	2077	11.43	99.9	95.0	Pass
269	PE4325	955.5	S	0.2	2080	9.0	2067	10.43	99.4	95.0	Pass
270	PE4375	955.5	S	0.2	2080	9.0	2039	11.18	98.0	95.0	Pass
271	PE2775	955.8	S	0.2	2080	9.0	2077	8.82	99.9	95.0	Pass
272	PE2850	955.8	S	0.2	2080	9.0	2208	8.48	106.2	95.0	Pass
273	PE2900	955.8	S	0.2	2080	9.0	2155	8.99	103.6	95.0	Pass
274	PE2950	955.8	S	0.2	2080	9.0	2089	9.01	100.4	95.0	Pass
275	PE3000	955.8	S	0.2	2080	9.0	2238	8.10	107.6	95.0	Pass
276	PE3050	955.8	S	0.2	2080	9.0	2167	7.09	104.2	95.0	Pass
277	PE3100	955.8	S	0.2	2080	9.0	2139	8.39	102.8	95.0	Pass
278	PE4400	955.2	S	0.2	2080	9.0	2168	9.83	104.2	95.0	Pass
279	PE4450	955.2	S	0.2	2080	9.0	2029	9.61	97.5	95.0	Pass
280	PE3125	955.8	S	0.2	2080	9.0	2139	8.13	102.8	95.0	Pass
281	PE3175	955.8	S	0.2	2080	9.0	2114	8.68	101.6	95.0	Pass
282	PE3225	955.8	S	0.2	2080	9.0	2208	8.52	106.2	95.0	Pass
283	PE3275	955.8	S	0.2	2080	9.0	2065	11.20	99.3	95.0	Pass
284	PE3225	955.8	S	0.2	2080	9.0	2163	9.91	104.0	95.0	Pass
285	PE3375	955.8	S	0.2	2080	9.0	2239	7.65	107.6	95.0	Pass
286	PE3425	955.8	S	0.2	2080	9.0	2171	9.19	104.4	95.0	Pass
287	PE3475	955.8	S	0.2	2080	9.0	2101	11.36	101.0	95.0	Pass
288	PE3525	955.8	S	0.2	2080	9.0	2146	10.16	103.2	95.0	Pass
289	PE3575	955.8	S	0.2	2080	9.0	2054	9.45	98.8	95.0	Pass
290	PE3625	955.8	S	0.2	2080	9.0	2119	9.35	101.9	95.0	Pass
291	PE3675	955.8	S	0.2	2080	9.0	2119	9.38	101.9	95.0	Pass
292	PE3725	955.8	S	0.2	2080	9.0	2158	9.13	103.8	95.0	Pass
293	PE3775	955.8	S	0.2	2080	9.0	2098	9.20	100.9	95.0	Pass
294	PE3825	956.1	S	0.2	2080	9.0	2033	10.58	97.7	95.0	Pass
295	PE3850	956.1	S	0.2	2080	9.0	2132	9.73	102.5	95.0	Pass
296	PE3900	956.1	S	0.2	2080	9.0	2109	10.88	101.4	95.0	Pass
297	PE4000	955.2	S	0.2	2080	9.0	2063	9.70	99.2	95.0	Pass
298	PE4050	955.6	S	0.2	2080	9.0	2065	9.70	99.3	95.0	Pass
299	PE4100	955.9	S	0.2	2080	9.0	2174	9.03	104.5	95.0	Pass
300	PE4150	955.9	S	0.2	2080	9.0	2094	8.65	100.7	95.0	Pass
301	PE4200	955.9	S	0.2	2080	9.0	2119	8.95	101.9	95.0	Pass
302	PE4250	955.9	S	0.2	2080	9.0	2233	8.60	107.4	95.0	Pass
303	PE4175	956.1	S	0.2	2080	9.0	2166	9.92	104.1	95.0	Pass
304	PE4125	956.1	S	0.2	2080	9.0	2170	9.37	104.3	95.0	Pass
305	PE4075	956.1	S	0.2	2080	9.0	2045	9.77	98.3	95.0	Pass
306	PE4025	956.1	S	0.2	2080	9.0	2173	9.25	104.5	95.0	Pass
307	PE4200	956.1	S	0.2	2080	9.0	2092	9.40	100.6	95.0	Pass
308	PE4300	955.8	S	0.2	2080	9.0	2069	10.38	99.5	95.0	Pass
309	PE4325	955.8	S	0.2	2080	9.0	2086	10.82	100.3	95.0	Pass
310	PE4375	955.8	S	0.2	2080	9.0	2153	9.38	103.5	95.0	Pass
311	PE4400	955.8	S	0.2	2080	9.0	2024	12.00	97.3	95.0	Pass
312	PE4450	955.6	S	0.2	2080	9.0	2038	12.11	98.0	95.0	Pass
313	ME2550	955.8	S	0.2	2080	9.0	2169	9.11	104.3	95.0	Pass
314	ME2525	955.8	S	0.2	2080	9.0	2067	10.54	99.4	95.0	Pass
315	ME2475	955.8	S	0.2	2080	9.0	2140	8.51	102.9	95.0	Pass
316	ME2425	955.8	S	0.2	2080	9.0	2141	9.07	102.9	95.0	Pass
317	ME2375	955.8	S	0.2	2080	9.0	2108	10.18	101.3	95.0	Pass
318	ME2325	955.8	S	0.2	2080	9.0	2129	9.93	102.4	95.0	Pass
319	ME2275	955.8	S	0.2	2080	9.0	2191	8.45	105.3	95.0	Pass
320	ME2225	955.8	S	0.2	2080	9.0	2148	9.03	103.3	95.0	Pass
321	ME2171	955.6	S	0.2	2080	9.0	2143	9.72	103.0	95.0	Pass
322	ME2125	955.6	S	0.2	2080	9.0	2152	8.92	103.5	95.0	Pass
323	ME2075	955.6	S	0.2	2080	9.0	2146	9.72	103.2	95.0	Pass
324	ME2025	955.5	S	0.2	2080	9.0	2191	8.74	105.3	95.0	Pass
325	PE4650	955.5	S	0.2	2080	9.0	2150	10.20	103.4	95.0	Pass
326	PE4600	955.5	S	0.2	2080	9.0	2113	9.27	101.6	95.0	Pass
327	PE4500	955.5	S	0.2	2080	9.0	2125	9.87	102.2	95.0	Pass
328	PE4700	955.8	S	0.2	2080	9.0	2100	10.22	101.0	95.0	Pass
329	PE4400	956.1	S	0.2	2080	9.0	2082	10.52	100.1	95.0	Pass
330	PE4450	955.8	S	0.2	2080	9.0	2186	8.88	105.1	95.0	Pass
331	PE4500	955.8	S	0.2	2080	9.0	2107	8.69	101.3	95.0	Pass
332	PE4550	955.8	S	0.2	2080	9.0	2153	9.54	103.5	95.0	Pass
333	PE4600	955.5	S	0.2	2080	9.0	2123	10.51	102.1	95.0	Pass
334	PE4700	955.8	S	0.2	2080	9.0	2122	2.69	102.0	95.0	Pass
335	PE4650	955.5	S	0.2	2080	9.0	2128	9.08	102.3	95.0	Pass
336	PE4550	955.8	S	0.2	2080	9.0	2091	10.51	100.5	95.0	Pass
337	PE4600	955.8	S	0.2	2080	9.0	2141	9.39	102.9	95.0	Pass
338	PE4550	955.8	S	0.2	2080	9.0	2119	8.93	101.9	95.0	Pass
339	ME1975	955.8	S	0.2	2080	9.0	2170	7.95	104.3	95.0	Pass
340	ME1925	955.8	S	0.2	2080	9.0	2143	7.77	103.0	95.0	Pass
341	ME1875	955.8	S	0.2	2080	9.0	2206	7.54	106.1	95.0	Pass
342	ME1825	955.9	S	0.2	2080	9.0	2170	8.22	104.3	95.0	Pass
343	ME1775	955.8	S	0.2	2080	9.0	2181	8.02	104.9	95.0	Pass
344	ME1725	955.8	S	0.2	2080	9.0	2196	7.97	105.6	95.0	Pass
345	ME1675	955.8	S	0.2	2080	9.0	2142	8.62	103.0	95.0	Pass
346	ME1625	955.8	S	0.2	2080	9.0	2143	8.05	103.0	95.0	Pass
347	ME1575	955.5	S	0.2	2080	9.0	2130	8.24	102.4	95.0	Pass

348	ME2550	956.1	S	0.2	2080	9.0	2097	7.64	100.8	95.0	Pass
349	ME2500	956.1	S	0.2	2080	9.0	2180	7.88	104.8	95.0	Pass
350	ME2450	956.1	S	0.2	2080	9.0	2180	7.41	104.8	95.0	Pass
351	ME2400	956.1	S	0.2	2080	9.0	2177	8.15	104.7	95.0	Pass
352	ME2350	956.1	S	0.2	2080	9.0	2026	8.66	97.4	95.0	Pass
353	ME2300	955.8	S	0.2	2080	9.0	2174	8.55	104.5	95.0	Pass
354	ME2250	955.8	S	0.2	2080	9.0	2178	8.65	104.7	95.0	Pass
355	ME2600	955.8	S	0.2	2080	9.0	2123	8.79	102.1	95.0	Pass
356	ME2650	955.8	S	0.2	2080	9.0	2116	9.47	101.7	95.0	Pass
357	ME2750	955.8	S	0.2	2080	9.0	2123	10.11	102.1	95.0	Pass
358	PE3975	955.2	S	0.2	2080	9.0	2097	10.44	100.8	95.0	Pass
359	PE3925	955.2	S	0.2	2080	9.0	2107	9.88	101.3	95.0	Pass
360	PE3975	955.5	S	0.2	2080	9.0	2131	9.54	102.5	95.0	Pass
361	PE3925	955.5	S	0.2	2080	9.0	2064	10.88	99.2	95.0	Pass
362	PE3975	955.8	S	0.2	2080	9.0	2005	11.10	96.4	95.0	Pass
363	PE3925	955.8	S	0.2	2080	9.0	2114	10.32	101.6	95.0	Pass
368	PE4600	956.1	S	0.2	2080	9.0	2204	6.22	106.0	95.0	Pass
369	PE4550	956.1	S	0.2	2080	9.0	2064	7.41	99.2	95.0	Pass
370	PE4500	956.1	S	0.2	2080	9.0	2118	7.19	101.8	95.0	Pass
371	PE4450	956.1	S	0.2	2080	9.0	2090	5.90	100.5	95.0	Pass
372	PE4375	956.1	S	0.2	2080	9.0	2154	7.02	103.6	95.0	Pass
373	PE4650	956.1	S	0.2	2080	9.0	2127	7.31	102.3	95.0	Pass
374	PE4325	956.1	S	0.2	2080	9.0	2148	7.13	103.3	95.0	Pass
375	PE4275	956.1	S	0.2	2080	9.0	2117	7.54	101.8	95.0	Pass
376	PE4225	956.1	S	0.2	2080	9.0	2150	6.93	103.4	95.0	Pass
377	PE3975	956.1	S	0.2	2080	9.0	2177	6.70	104.7	95.0	Pass
378	PE3925	956.1	S	0.2	2080	9.0	2206	7.30	106.1	95.0	Pass
379	PE3875	956.1	S	0.2	2080	9.0	2093	8.17	100.6	95.0	Pass
380	PE3825	956.1	S	0.2	2080	9.0	2198	8.10	105.7	95.0	Pass
381	PE3775	956.1	S	0.2	2080	9.0	2228	7.52	107.1	95.0	Pass
382	PE3725	956.1	S	0.2	2080	9.0	2171	6.53	104.4	95.0	Pass
383	PE3675	956.1	S	0.2	2080	9.0	2242	6.82	107.8	95.0	Pass
384	PE3625	956.1	S	0.2	2080	9.0	2173	6.48	104.5	95.0	Pass
385	PE3575	956.1	S	0.2	2080	9.0	2168	8.43	104.2	95.0	Pass
386	PE3525	956.1	S	0.2	2080	9.0	2093	9.23	100.6	95.0	Pass
387	PE3475	956.1	S	0.2	2080	9.0	2195	7.63	105.5	95.0	Pass
388	PE3425	956.1	S	0.2	2080	9.0	2132	8.77	102.5	95.0	Pass
389	PE3375	956.1	S	0.2	2080	9.0	2169	7.67	104.3	95.0	Pass
390	PE3325	956.1	S	0.2	2080	9.0	2093	8.46	100.6	95.0	Pass
391	PE3275	956.1	S	0.2	2080	9.0	2158	7.72	103.8	95.0	Pass
392	PE3975	956.1	S	0.2	2080	9.0	2159	7.58	103.8	95.0	Pass
393	PE3225	956.1	S	0.2	2080	9.0	2215	6.95	106.5	95.0	Pass
394	PE3175	956.1	S	0.2	2080	9.0	2208	7.36	106.2	95.0	Pass
395	PE3125	956.1	S	0.2	2080	9.0	2122	6.72	102.0	95.0	Pass
396	PE3075	956.1	S	0.2	2080	9.0	2083	8.33	100.1	95.0	Pass
397	PE3025	956.1	S	0.2	2080	9.0	2233	6.31	107.4	95.0	Pass
398	PE2975	956.1	S	0.2	2080	9.0	2169	7.04	104.3	95.0	Pass
399	PE2925	956.1	S	0.2	2080	9.0	2146	6.53	103.2	95.0	Pass
400	PE2875	956.1	S	0.2	2080	9.0	2147	6.76	103.2	95.0	Pass
401	PE2825	956.1	S	0.2	2080	9.0	2193	7.28	105.4	95.0	Pass
402	PE2775	956.1	S	0.2	2080	9.0	2115	7.61	101.7	95.0	Pass
403	ME2725	956.1	S	0.2	2080	9.0	2099	7.67	100.9	95.0	Pass
404	ME2675	956.1	S	0.2	2080	9.0	2181	6.32	104.9	95.0	Pass
405	ME2625	956.1	S	0.2	2080	9.0	2128	6.00	102.3	95.0	Pass
406	ME2375	956.1	S	0.2	2080	9.0	2010	6.52	96.6	95.0	Pass
407	ME2325	956.1	S	0.2	2080	9.0	2036	6.55	97.9	95.0	Pass
408	ME2275	956.1	S	0.2	2080	9.0	2047	5.84	98.4	95.0	Pass
409	ME2225	956.1	S	0.2	2080	9.0	2109	7.62	101.4	95.0	Pass
410	ME2175	956.1	S	0.2	2080	9.0	2133	7.75	102.5	95.0	Pass
411	ME2125	956.1	S	0.2	2080	9.0	2163	7.98	104.0	95.0	Pass
412	ME2075	956.1	S	0.2	2080	9.0	2105	8.36	101.2	95.0	Pass
413	ME1575	956.1	S	0.2	2080	9.0	2146	5.74	103.2	95.0	Pass
414	ME1625	956.1	S	0.2	2080	9.0	2100	7.37	101.0	95.0	Pass
415	ME1675	956.1	S	0.2	2080	9.0	2066	7.86	99.3	95.0	Pass
416	ME1725	956.1	S	0.2	2080	9.0	2119	7.53	101.9	95.0	Pass
417	ME1775	956.1	S	0.2	2080	9.0	2080	6.91	100.0	95.0	Pass
418	ME1825	956.1	S	0.2	2080	9.0	2150	7.15	103.4	95.0	Pass
419	ME1875	956.1	S	0.2	2080	9.0	2071	6.45	99.6	95.0	Pass
420	ME1925	956.1	S	0.2	2080	9.0	2046	5.81	98.4	95.0	Pass
421	ME1975	956.1	S	0.2	2080	9.0	2117	7.21	101.8	95.0	Pass
422	SE1425	955.5	S	0.2	2080	9.0	2032	11.21	97.7	95.0	Pass
423	SE1550	955.8	S	0.2	2080	9.0	2017	10.57	97.0	95.0	Pass
424	SE1250	955.5	S	0.2	2080	9.0	2080	9.96	100.0	95.0	Pass
425	SE1200	955.8	S	0.2	2080	9.0	2149	8.97	103.3	95.0	Pass
426	SE1275	955.5	S	0.2	2080	9.0	2101	9.41	101.0	95.0	Pass
427	SE1375	955.8	S	0.2	2080	9.0	2156	9.10	103.7	95.0	Pass
428	SE1450	955.8	S	0.2	2080	9.0	2130	9.32	102.4	95.0	Pass
429	SE0900	955.5	S	0.2	2080	9.0	2084	10.33	100.2	95.0	Pass
430	SE1500	956.1	S	0.2	2080	9.0	2037	9.67	97.9	95.0	Pass
431	SE1350	956.1	S	0.2	2080	9.0	2032	11.82	97.7	95.0	Pass
432	SE1200	956.1	S	0.2	2080	9.0	2046	9.62	98.4	95.0	Pass
433	SE0900	956.1	S	0.2	2080	9.0	2042	10.87	98.2	95.0	Pass
434	SE0850	955.3	S	0.2	2080	9.0	2108	8.28	101.3	95.0	Pass
435	SE0750	955.3	S	0.2	2080	9.0	2061	11.22	99.1	95.0	Pass
436	SE0900	955.3	S	0.2	2080	9.0	2137	8.98	102.7	95.0	Pass
437	SE0800	955.3	S	0.2	2080	9.0	2138	9.49	102.8	95.0	Pass
438	SE0700	955.3	S	0.2	2080	9.0	2169	9.06	104.3	95.0	Pass
439	SE0650	955.8	S	0.2	2080	9.0	2078	11.01	99.9	95.0	Pass
440	SE0600	955.8	S	0.2	2080	9.0	2070	10.86	99.5	95.0	Pass
441	SE0700	956.1	S	0.2	2080	9.0	2059	11.37	99.0	95.0	Pass
442	SE0625	956.1	S	0.2	2080	9.0	2203	6.38	105.9	95.0	Pass
443	SE0675	956.1	S	0.2	2080	9.0	2190	6.98	105.3	95.0	Pass
444	SE0625	956.1	S	0.2	2080	9.0	2203	6.38	105.9	95.0	Pass
445	SE0675	956.1	S	0.2	2080	9.0	2190	6.98	105.3	95.0	Pass
446	PE2800	956.4	S	0.2	2080	9.0	2128	10.35	102.3	95.0	Pass
447	PE2850	956.4	S	0.2	2080	9.0	2047	10.08	98.4	95.0	Pass
448	PE2900	956.4	S	0.2	2080	9.0	2166	8.75	104.1	95.0	Pass
449	PE2950	956.4	S	0.2	2080	9.0	2076	11.56	99.8	95.0	Pass
450	PE3000	956.4	S	0.2	2080	9.0	2123	9.15	102.1	95.0	Pass

451	PE3050	956.4	S	0.2	2080	9.0	2095	10.67	100.7	95.0	Pass
452	PE3100	956.4	S	0.2	2080	9.0	2128	10.88	102.3	95.0	Pass
453	PE2800	956.7	S	0.2	2080	9.0	2179	7.91	104.8	95.0	Pass
454	PE2850	956.7	S	0.2	2080	9.0	2160	7.04	103.8	95.0	Pass
455	PE2900	956.7	S	0.2	2080	9.0	2119	8.93	101.9	95.0	Pass
456	PE2950	956.7	S	0.2	2080	9.0	2094	9.66	100.7	95.0	Pass
457	PE3000	956.7	S	0.2	2080	9.0	2066	10.40	99.3	95.0	Pass
458	PE3050	956.7	S	0.2	2080	9.0	2070	11.04	99.5	95.0	Pass
459	PE3100	956.7	S	0.2	2080	9.0	2049	9.89	98.5	95.0	Pass
460	PE3150	956.7	S	0.2	2080	9.0	2074	10.87	99.7	95.0	Pass
461	PE3200	956.7	S	0.2	2080	9.0	2137	9.43	102.7	95.0	Pass
462	PE3250	956.7	S	0.2	2080	9.0	2114	9.80	101.6	95.0	Pass
463	PE3300	956.4	S	0.2	2080	9.0	2083	10.62	100.1	95.0	Pass
464	PE3350	956.4	S	0.2	2080	9.0	2114	9.98	101.6	95.0	Pass
465	PE3400	956.4	S	0.2	2080	9.0	2096	10.66	100.8	95.0	Pass
466	PE3450	956.4	S	0.2	2080	9.0	2119	10.16	101.9	95.0	Pass
467	PE 2800	957.0	S	0.2	2080	9.0	2114	8.03	101.6	95.0	Pass
468	PE 2850	957.0	S	0.2	2080	9.0	2153	8.25	103.5	95.0	Pass
469	PE 2875	957.0	S	0.2	2080	9.0	2116	9.08	101.7	95.0	Pass
470	PE 2900	957.0	S	0.2	2080	9.0	2086	8.93	100.3	95.0	Pass
471	PE 2950	957.0	S	0.2	2080	9.0	2135	8.91	102.6	95.0	Pass
472	PE 3000	957.0	S	0.2	2080	9.0	2096	9.01	100.8	95.0	Pass
473	PE 3050	957.0	S	0.2	2080	9.0	2050	9.99	98.6	95.0	Pass
474	PE 3100	957.0	S	0.2	2080	9.0	1996	10.54	96.0	95.0	Pass
475	PE 3150	957.0	S	0.2	2080	9.0	2162	8.53	103.9	95.0	Pass
476	PE 3200	957.0	S	0.2	2080	9.0	2074	9.49	99.7	95.0	Pass
477	PE 3250	957.0	S	0.2	2080	9.0	2135	8.25	102.6	95.0	Pass
478	PE 3325	956.7	S	0.2	2080	9.0	2135	7.92	102.6	95.0	Pass
479	PE 3350	956.7	S	0.2	2080	9.0	2168	8.26	104.2	95.0	Pass
480	PE 3400	956.7	S	0.2	2080	9.0	2172	7.80	104.4	95.0	Pass
481	PE 3450	956.7	S	0.2	2080	9.0	2168	7.81	104.2	95.0	Pass
482	PE 3500	956.4	S	0.2	2080	9.0	2186	7.78	105.1	95.0	Pass
483	PE 3550	956.4	S	0.2	2080	9.0	2179	8.26	104.8	95.0	Pass
484	PE 3600	956.4	S	0.2	2080	9.0	2098	8.46	100.9	95.0	Pass
485	PE 3750	956.4	S	0.2	2080	9.0	2073	8.89	99.7	95.0	Pass
486	PE 3800	956.4	S	0.2	2080	9.0	2125	9.53	102.2	95.0	Pass
487	PE 3850	956.4	S	0.2	2080	9.0	2135	9.67	102.6	95.0	Pass
488	PE 3900	956.4	S	0.2	2080	9.0	2126	9.51	102.2	95.0	Pass
489	PE 4000	956.4	S	0.2	2080	9.0	2156	9.38	103.7	95.0	Pass
490	PE 4050	956.4	S	0.2	2080	9.0	2127	9.69	102.3	95.0	Pass
491	PE 4100	956.4	S	0.2	2080	9.0	2106	20.24	101.3	95.0	Pass
492	PE 4150	956.4	S	0.2	2080	9.0	2073	10.30	99.7	95.0	Pass
493	PE 4200	956.4	S	0.2	2080	9.0	2080	10.30	100.0	95.0	Pass
494	PE 4250	956.4	S	0.2	2080	9.0	2106	9.76	101.3	95.0	Pass
495	PE 4300	956.4	S	0.2	2080	9.0	2084	10.70	100.2	95.0	Pass
496	PE 4350	956.4	S	0.2	2080	9.0	2090	9.59	100.5	95.0	Pass
497	PE 2800	957.3	S	0.2	2080	9.0	2120	8.05	101.9	95.0	Pass
498	PE 2850	957.3	S	0.2	2080	9.0	2060	6.43	99.0	95.0	Pass
499	PE 2900	957.3	S	0.2	2080	9.0	2117	6.45	101.8	95.0	Pass
500	PE 2950	957.3	S	0.2	2080	9.0	2057	8.27	98.9	95.0	Pass
501	PE 3000	957.3	S	0.2	2080	9.0	2114	8.85	101.6	95.0	Pass
502	PE 3050	957.3	S	0.2	2080	9.0	2121	10.75	102.0	95.0	Pass
503	PE 3100	957.3	S	0.2	2080	9.0	2079	9.76	100.0	95.0	Pass
504	PE 3150	957.3	S	0.2	2080	9.0	2146	9.94	103.2	95.0	Pass
505	PE 4400	956.4	S	0.2	2080	9.0	2089	9.13	100.4	95.0	Pass
506	PE 4450	956.4	S	0.2	2080	9.0	2093	9.09	100.6	95.0	Pass
507	PE 4500	956.4	S	0.2	2080	9.0	2063	9.56	99.2	95.0	Pass
508	PE 4550	956.4	S	0.2	2080	9.0	2065	10.11	99.3	95.0	Pass
509	PE 4600	956.4	S	0.2	2080	9.0	2073	10.81	99.7	95.0	Pass
510	PE 4650	956.4	S	0.2	2080	9.0	2084	9.59	100.2	95.0	Pass
511	PE 4700	956.4	S	0.2	2080	9.0	2147	8.41	103.2	95.0	Pass
512	PE 4750	956.7	S	0.2	2080	9.0	2079	9.53	100.0	95.0	Pass
513	PE 3200	957.0	S	0.2	2080	9.0	2060	11.06	99.0	95.0	Pass
514	PE 3250	957.0	S	0.2	2080	9.0	2071	11.71	99.6	95.0	Pass
515	PE 3300	957.0	S	0.2	2080	9.0	2077	12.18	99.9	95.0	Pass
516	PE 3350	957.0	S	0.2	2080	9.0	2085	11.13	100.2	95.0	Pass
517	PE 3400	956.7	S	0.2	2080	9.0	2017	13.84	97.0	95.0	Pass
518	PE 3450	957.0	S	0.2	2080	9.0	2088	11.25	100.4	95.0	Pass
519	PE 3500	956.7	S	0.2	2080	9.0	2000	11.21	96.2	95.0	Pass
520	PE 3550	956.6	S	0.2	2080	9.0	1979	11.92	95.1	95.0	Pass
521	PE 3600	956.6	S	0.2	2080	9.0	2069	11.80	99.5	95.0	Pass
522	PE 3650	956.7	S	0.2	2080	9.0	2091	10.67	100.5	95.0	Pass
523	PE 3700	956.7	S	0.2	2080	9.0	2087	10.38	100.3	95.0	Pass
524	PE 3750	956.7	S	0.2	2080	9.0	2115	11.07	101.7	95.0	Pass
525	PE 3800	956.6	S	0.2	2080	9.0	2157	10.41	103.7	95.0	Pass
526	PE 3850	956.7	S	0.2	2080	9.0	2109	10.76	101.4	95.0	Pass
527	PE 3900	956.7	S	0.2	2080	9.0	2118	10.91	101.8	95.0	Pass
528	PE 4000	956.7	S	0.2	2080	9.0	2101	11.42	101.0	95.0	Pass
529	PE 4050	956.7	S	0.2	2080	9.0	2098	10.10	100.9	95.0	Pass
530	PE 4100	956.7	S	0.2	2080	9.0	2121	9.83	102.0	95.0	Pass
531	PE 4150	956.7	S	0.2	2080	9.0	2211	7.91	106.3	95.0	Pass
532	PE 4200	956.7	S	0.2	2080	9.0	2186	7.81	105.1	95.0	Pass
533	PE 4250	956.7	S	0.2	2080	9.0	2111	9.06	101.5	95.0	Pass
534	PE 4300	956.7	S	0.2	2080	9.0	2063	9.02	99.2	95.0	Pass
535	PE 4350	956.7	S	0.2	2080	9.0	2137	10.12	102.7	95.0	Pass
536	PE 4400	956.7	S	0.2	2080	9.0	2155	9.12	103.6	95.0	Pass
537	PE 4450	956.7	S	0.2	2080	9.0	2143	9.92	103.0	95.0	Pass
538	PE 4500	956.7	S	0.2	2080	9.0	2137	9.53	102.7	95.0	Pass
539	PE 4550	956.7	S	0.2	2080	9.0	2098	9.91	100.9	95.0	Pass
540	PE 4600	956.7	S	0.2	2080	9.0	2065	10.61	99.3	95.0	Pass
541	PE 4650	956.7	S	0.2	2080	9.0	2129	9.76	102.4	95.0	Pass
542	PE 4700	956.7	S	0.2	2080	9.0	2116	10.57	101.7	95.0	Pass
543	PE 4750	956.7	S	0.2	2080	9.0	2127	10.31	102.3	95.0	Pass
544	PE 3200	957.3	S	0.2	2080	9.0	2153	8.71	103.5	95.0	Pass
545	PE 3250	957.3	S	0.2	2080	9.0	2055	12.23	98.8	95.0	Pass
546	PE 3300	957.3	S	0.2	2080	9.0	2075	11.83	99.8	95.0	Pass
547	PE 3350	957.3	S	0.2	2080	9.0	2157	11.14	103.7	95.0	Pass
548	PE 3400	957.3	S	0.2	2080	9.0	2177	8.49	104.7	95.0	Pass
549	PE 3450	957.3	S	0.2	2080	9.0	2150	9.01	103.4	95.0	Pass

550	PE 3500	957.0	S	0.2	2080	9.0	2207	7.96	106.1	95.0	Pass
551	PE 3550	957.0	S	0.2	2080	9.0	2204	7.02	106.0	95.0	Pass
552	PE 3600	957.0	S	0.2	2080	9.0	2174	8.96	104.5	95.0	Pass
553	PE 3650	957.0	S	0.2	2080	9.0	2132	9.91	102.5	95.0	Pass
554	PE 3700	957.0	S	0.2	2080	9.0	2111	13.90	101.5	95.0	Pass
555	PE 3750	957.0	S	0.2	2080	9.0	2010	13.95	96.6	95.0	Pass
556	PE 3800	957.0	S	0.2	2080	9.0	1996	14.02	96.0	95.0	Pass
557	PE 3850	957.0	S	0.2	2080	9.0	2028	14.37	97.5	95.0	Pass
558	PE 3700	957.3	S	0.2	2080	9.0	2167	6.67	104.2	95.0	Pass
559	PE 3750	957.3	S	0.2	2080	9.0	2134	9.89	102.6	95.0	Pass
560	PE 3800	957.3	S	0.2	2080	9.0	2179	7.23	104.8	95.0	Pass
561	PE 3850	957.3	S	0.2	2080	9.0	2125	9.67	102.2	95.0	Pass
562	PE 3900	957.3	S	0.2	2080	9.0	2102	9.58	101.1	95.0	Pass
563	PE 4000	957.0	S	0.2	2080	9.0	2100	9.25	101.0	95.0	Pass
564	PE 4050	956.7	S	0.2	2080	9.0	2094	8.79	100.7	95.0	Pass
565	PE 4100	957.0	S	0.2	2080	9.0	2209	7.08	106.2	95.0	Pass
566	PE 4150	957.0	S	0.2	2080	9.0	2192	6.79	105.4	95.0	Pass
567	PE 4200	957.0	S	0.2	2080	9.0	2177	7.41	104.7	95.0	Pass
568	PE 4250	957.0	S	0.2	2080	9.0	2175	7.71	104.6	95.0	Pass
569	PE 4300	957.0	S	0.2	2080	9.0	2232	6.69	107.3	95.0	Pass
570	PE 4350	957.0	S	0.2	2080	9.0	2200	8.32	105.8	95.0	Pass
571	PE 4400	957.0	S	0.2	2080	9.0	2184	7.83	105.0	95.0	Pass
572	PE 4450	957.0	S	0.2	2080	9.0	2177	8.44	104.7	95.0	Pass
573	PE 4500	957.0	S	0.2	2080	9.0	2136	8.80	102.7	95.0	Pass
574	PE 4550	957.0	S	0.2	2080	9.0	2113	9.26	101.6	95.0	Pass
575	PE 4600	957.0	S	0.2	2080	9.0	2123	9.19	102.1	95.0	Pass
576	SE 500	957.0	S	0.2	2080	9.0	2074	10.51	99.7	95.0	Pass
577	PE 4650	957.0	S	0.2	2080	9.0	2102	10.01	101.1	95.0	Pass
578	PE 4700	957.0	S	0.2	2080	9.0	2185	9.63	105.0	95.0	Pass
579	PE 4750	957.0	S	0.2	2080	9.0	2168	8.53	104.2	95.0	Pass
580	PE 4000	957.3	S	0.2	2080	9.0	2152	8.29	103.5	95.0	Pass
581	PE 4050	957.0	S	0.2	2080	9.0	2170	8.75	104.3	95.0	Pass
582	PE 4100	957.3	S	0.2	2080	9.0	2158	9.22	103.8	95.0	Pass
583	PE 4150	957.3	S	0.2	2080	9.0	2141	9.49	102.9	95.0	Pass
584	PE 4200	957.3	S	0.2	2080	9.0	2133	9.87	102.5	95.0	Pass
585	PE 4250	957.3	S	0.2	2080	9.0	2119	9.17	101.9	95.0	Pass
586	PE 4300	957.3	S	0.2	2080	9.0	2111	9.24	101.5	95.0	Pass
587	PE 4350	957.3	S	0.2	2080	9.0	2123	9.72	102.1	95.0	Pass
588	PE 4400	957.3	S	0.2	2080	9.0	2123	9.80	102.1	95.0	Pass
589	PE 4450	956.7	S	0.2	2080	9.0	2184	7.23	105.0	95.0	Pass
590	PE 4500	956.7	S	0.2	2080	9.0	2154	6.83	103.6	95.0	Pass
591	PE 4550	956.7	S	0.2	2080	9.0	2215	6.61	106.5	95.0	Pass
592	PE 4600	956.7	S	0.2	2080	9.0	2143	7.29	103.0	95.0	Pass
593	PE 4650	956.7	S	0.2	2080	9.0	2159	7.49	103.8	95.0	Pass
594	PE 4700	956.7	S	0.2	2080	9.0	2195	6.81	105.5	95.0	Pass
595	PE 4750	956.7	S	0.2	2080	9.0	2133	7.40	102.5	95.0	Pass
596	ME 2350	956.7	S	0.2	2080	9.0	2131	8.07	102.5	95.0	Pass
597	ME 2400	956.7	S	0.2	2080	9.0	2200	7.65	105.8	95.0	Pass
598	ME 2450	956.7	S	0.2	2080	9.0	2159	7.83	103.8	95.0	Pass
599	ME 2500	956.7	S	0.2	2080	9.0	2074	8.33	99.7	95.0	Pass
600	ME 2550	956.7	S	0.2	2080	9.0	2159	7.73	103.8	95.0	Pass
601	ME 2600	956.7	S	0.2	2080	9.0	2191	6.90	105.3	95.0	Pass
602	ME 2650	956.7	S	0.2	2080	9.0	2139	8.08	102.8	95.0	Pass
603	ME 2700	956.7	S	0.2	2080	9.0	2101	6.93	101.0	95.0	Pass
604	ME 2350	957.0	S	0.2	2080	9.0	2118	9.76	101.8	95.0	Pass
605	ME 2400	957.0	S	0.2	2080	9.0	2123	8.46	102.1	95.0	Pass
606	ME 2450	957.0	S	0.2	2080	9.0	2126	9.14	102.2	95.0	Pass
607	ME 2500	957.0	S	0.2	2080	9.0	2272	7.23	109.2	95.0	Pass
608	ME 2550	957.0	S	0.2	2080	9.0	2131	8.06	102.5	95.0	Pass
609	ME 2600	957.0	S	0.2	2080	9.0	2119	7.62	101.9	95.0	Pass
610	ME 2650	957.0	S	0.2	2080	9.0	2179	8.01	104.8	95.0	Pass
611	ME 2700	957.0	S	0.2	2080	9.0	2191	8.25	105.3	95.0	Pass
612	ME 2350	957.3	S	0.2	2080	9.0	2071	8.57	99.6	95.0	Pass
613	ME 2400	957.3	S	0.2	2080	9.0	2019	8.66	97.1	95.0	Pass
614	ME 2450	957.3	S	0.2	2080	9.0	2066	9.16	99.3	95.0	Pass
615	ME 2500	957.3	S	0.2	2080	9.0	2133	9.87	102.5	95.0	Pass
616	ME 2550	957.3	S	0.2	2080	9.0	2035	9.51	97.8	95.0	Pass
617	ME 2600	957.3	S	0.2	2080	9.0	2087	9.83	100.3	95.0	Pass
618	ME 2650	957.3	S	0.2	2080	9.0	2150	7.55	103.4	95.0	Pass
619	ME 1700	956.7	S	0.2	2080	9.0	2155	7.61	103.6	95.0	Pass
620	ME 1750	956.7	S	0.2	2080	9.0	2086	8.74	100.3	95.0	Pass
621	ME 1800	956.7	S	0.2	2080	9.0	2069	9.07	99.5	95.0	Pass
622	ME 1850	956.7	S	0.2	2080	9.0	2130	8.11	102.4	95.0	Pass
623	ME 1900	956.7	S	0.2	2080	9.0	2153	7.41	103.5	95.0	Pass
624	ME 2000	956.7	S	0.2	2080	9.0	2094	7.86	100.7	95.0	Pass
625	ME 2050	956.7	S	0.2	2080	9.0	2011	7.43	96.7	95.0	Pass
626	ME 2100	956.7	S	0.2	2080	9.0	2088	8.26	100.4	95.0	Pass
627	ME 1925	957.0	S	0.2	2080	9.0	2084	10.82	100.2	95.0	Pass
628	ME 1975	957.0	S	0.2	2080	9.0	2107	9.17	101.3	95.0	Pass
629	ME 2000	957.3	S	0.2	2080	9.0	2069	10.65	99.5	95.0	Pass
630	ME 2025	956.7	S	0.2	2080	9.0	2138	8.46	102.8	95.0	Pass
631	ME 2050	957.0	S	0.2	2080	9.0	2164	7.90	104.0	95.0	Pass
632	ME 2100	957.0	S	0.2	2080	9.0	2172	8.72	104.4	95.0	Pass
633	ME 2150	957.0	S	0.2	2080	9.0	2209	8.70	106.2	95.0	Pass
634	ME 1850	957.0	S	0.2	2080	9.0	2124	8.35	102.1	95.0	Pass
635	ME 1800	957.0	S	0.2	2080	9.0	2144	8.84	103.1	95.0	Pass
636	ME 1750	957.0	S	0.2	2080	9.0	2125	6.94	102.2	95.0	Pass
637	ME 1700	957.0	S	0.2	2080	9.0	2158	8.38	103.8	95.0	Pass
638	ME 1650	957.0	S	0.2	2080	9.0	2129	9.02	102.4	95.0	Pass
639	ME 1600	957.0	S	0.2	2080	9.0	2045	10.00	98.3	95.0	Pass
640	SE 1550	956.7	S	0.2	2080	9.0	2130	9.50	102.4	95.0	Pass
641	SE 1500	956.7	S	0.2	2080	9.0	2103	9.19	101.1	95.0	Pass
642	SE 1450	956.7	S	0.2	2080	9.0	2123	9.86	102.1	95.0	Pass
643	SE 1400	956.7	S	0.2	2080	9.0	2093	10.98	100.6	95.0	Pass
644	SE 1350	956.7	S	0.2	2080	9.0	2098	10.07	100.9	95.0	Pass
645	SE 1300	956.7	S	0.2	2080	9.0	2105	10.22	101.2	95.0	Pass
646	SE 1250	956.7	S	0.2	2080	9.0	2124	10.14	102.1	95.0	Pass
647	SE 1200	956.7	S	0.2	2080	9.0	2147	7.20	103.2	95.0	Pass
648	SE 1150	956.7	S	0.2	2080	9.0	2192	6.51	105.4	95.0	Pass

649	SE 1100	956.7	S	0.2	2080	9.0	2244	6.83	107.9	95.0	Pass
650	SE 1050	956.7	S	0.2	2080	9.0	2189	6.74	105.2	95.0	Pass
651	SE 1000	956.7	S	0.2	2080	9.0	2031	3.83	97.6	95.0	Pass
652	SE 950	956.7	S	0.2	2080	9.0	2139	4.56	102.8	95.0	Pass
653	SE 900	956.7	S	0.2	2080	9.0	2148	5.97	103.3	95.0	Pass
654	SE 850	956.7	S	0.2	2080	9.0	2244	6.83	107.9	95.0	Pass
655	SE 800	956.7	S	0.2	2080	9.0	2091	6.13	100.5	95.0	Pass
656	SE 750	956.7	S	0.2	2080	9.0	2204	6.26	106.0	95.0	Pass
657	SE 700	956.7	S	0.2	2080	9.0	2218	6.32	106.6	95.0	Pass
658	SE 650	956.7	S	0.2	2080	9.0	2178	6.13	104.7	95.0	Pass
659	ME 1600	956.7	S	0.2	2080	9.0	2033	8.25	97.7	95.0	Pass
660	ME 1650	956.7	S	0.2	2080	9.0	1993	9.34	95.8	95.0	Pass
661	ME 1700	956.7	S	0.2	2080	9.0	2196	4.74	105.6	95.0	Pass
662	ME 1750	956.7	S	0.2	2080	9.0	2053	5.93	98.7	95.0	Pass
663	ME 1800	956.7	S	0.2	2080	9.0	2103	6.97	101.1	95.0	Pass
664	ME 1850	956.7	S	0.2	2080	9.0	2075	7.14	99.8	95.0	Pass
665	ME 1900	956.7	S	0.2	2080	9.0	2078	60.50	99.9	95.0	Pass
666	ME 1950	956.7	S	0.2	2080	9.0	2136	7.28	102.7	95.0	Pass
667	ME 2000	956.7	S	0.2	2080	9.0	2003	9.35	96.3	95.0	Pass
668	ME 2050	956.7	S	0.2	2080	9.0	2197	4.78	105.6	95.0	Pass
669	ME 2100	956.7	S	0.2	2080	9.0	2053	5.96	98.7	95.0	Pass
670	ME 2150	956.7	S	0.2	2080	9.0	2105	6.99	101.2	95.0	Pass
671	ME 2200	956.7	S	0.2	2080	9.0	2045	7.01	98.3	95.0	Pass
672	ME 2250	956.7	S	0.2	2080	9.0	2079	6.06	100.0	95.0	Pass
673	ME 2300	956.7	S	0.2	2080	9.0	2133	7.24	102.5	95.0	Pass
674	ME 2350	956.7	S	0.2	2080	9.0	2031	8.21	97.6	95.0	Pass
675	ME 2400	956.7	S	0.2	2080	9.0	2199	5.25	105.7	95.0	Pass
676	ME 2450	956.7	S	0.2	2080	9.0	2196	5.28	105.6	95.0	Pass
677	ME 2500	956.7	S	0.2	2080	9.0	2107	7.02	101.3	95.0	Pass
678	ME 2550	956.7	S	0.2	2080	9.0	2046	7.05	98.4	95.0	Pass
679	ME 2600	956.7	S	0.2	2080	9.0	2080	60.90	100.0	95.0	Pass
680	ME 2650	956.7	S	0.2	2080	9.0	2131	7.21	102.5	95.0	Pass
681	ME 2700	956.7	S	0.2	2080	9.0	2028	8.18	97.5	95.0	Pass
682	SE 600	956.7	S	0.2	2080	9.0	2110	5.71	101.4	95.0	Pass
683	SE 550	956.7	S	0.2	2080	9.0	1980	10.23	95.2	95.0	Pass
684	SE 500	956.7	S	0.2	2080	9.0	2067	9.57	99.4	95.0	Pass
685	SE 450	956.7	S	0.2	2080	9.0	2012	11.94	96.7	95.0	Pass
686	SE 1500	956.7	S	0.2	2080	9.0	2108	6.22	101.3	95.0	Pass
687	SE 1450	956.7	S	0.2	2080	9.0	2076	7.82	99.8	95.0	Pass
688	SE 1400	956.7	S	0.2	2080	9.0	2044	7.42	98.3	95.0	Pass
689	SE 1350	956.7	S	0.2	2080	9.0	2073	6.20	99.7	95.0	Pass
690	SE 1300	956.7	S	0.2	2080	9.0	2114	7.21	101.6	95.0	Pass
691	SE 1250	956.7	S	0.2	2080	9.0	2186	6.34	105.1	95.0	Pass
692	SE 1200	956.7	S	0.2	2080	9.0	2243	5.66	107.8	95.0	Pass
693	SE 1100	956.7	S	0.2	2080	9.0	2146	7.57	103.2	95.0	Pass
694	SE 1050	956.7	S	0.2	2080	9.0	1980	6.96	95.2	95.0	Pass
695	SE 1000	956.7	S	0.2	2080	9.0	2093	6.67	100.6	95.0	Pass
696	SE 950	956.7	S	0.2	2080	9.0	2127	5.89	102.3	95.0	Pass
697	SE 900	956.7	S	0.2	2080	9.0	2185	6.99	105.0	95.0	Pass
698	SE 850	956.7	S	0.2	2080	9.0	2047	9.71	98.4	95.0	Pass
699	SE 800	956.7	S	0.2	2080	9.0	2080	6.76	100.0	95.0	Pass
700	SE 750	956.7	S	0.2	2080	9.0	2075	8.55	99.8	95.0	Pass
701	SE 700	956.7	S	0.2	2080	9.0	2111	7.24	101.5	95.0	Pass
702	PE 3200	958.0	S	0.2	2080	9.0	2078	9.32	99.9	95.0	Pass
703	PE 3250	958.0	S	0.2	2080	9.0	2111	7.62	101.5	95.0	Pass
704	PE 3300	958.0	S	0.2	2080	9.0	2002	6.98	96.3	95.0	Pass
705	PE 3350	958.0	S	0.2	2080	9.0	2142	6.25	103.0	95.0	Pass
706	PE 3400	958.0	S	0.2	2080	9.0	2099	7.18	100.9	95.0	Pass
707	PE 3450	958.0	S	0.2	2080	9.0	2042	8.23	98.2	95.0	Pass
708	PE 3500	958.0	S	0.2	2080	9.0	2146	7.44	103.2	95.0	Pass
709	PE 3500	958.0	S	0.2	2080	9.0	2068	7.15	99.4	95.0	Pass
710	PE 3600	958.0	S	0.2	2080	9.0	2201	7.26	105.8	95.0	Pass
711	PE 3650	958.0	S	0.2	2080	9.0	2111	7.62	101.5	95.0	Pass
712	PE 3700	958.0	S	0.2	2080	9.0	2002	6.98	96.3	95.0	Pass
713	PE 3750	958.0	S	0.2	2080	9.0	2142	6.25	103.0	95.0	Pass
714	PE 3800	958.0	S	0.2	2080	9.0	2099	7.18	100.9	95.0	Pass
715	PE 3850	958.0	S	0.2	2080	9.0	2042	8.23	98.2	95.0	Pass
716	PE 3900	958.0	S	0.2	2080	9.0	2146	7.44	103.2	95.0	Pass
717	PE 3950	958.0	S	0.2	2080	9.0	2068	7.15	99.4	95.0	Pass
718	PE 3150	958.0	S	0.2	2080	9.0	1987	10.47	95.5	95.0	Pass
719	PE 3100	958.0	S	0.2	2080	9.0	2025	9.11	97.4	95.0	Pass
720	PE 3050	958.0	S	0.2	2080	9.0	2022	9.76	97.2	95.0	Pass
721	PE 3000	958.0	S	0.2	2080	9.0	2036	9.50	97.9	95.0	Pass
722	PE 2950	958.0	S	0.2	2080	9.0	2062	10.35	99.1	95.0	Pass
723	PE 2900	958.0	S	0.2	2080	9.0	1998	7.50	96.1	95.0	Pass
724	PE 2850	958.0	S	0.2	2080	9.0	1978	9.21	95.1	95.0	Pass
725	PE 2800	958.0	S	0.2	2080	9.0	1976	12.01	95.0	95.0	Pass
726	PE 4020	958.0	S	0.2	2080	9.0	2031	9.57	97.6	95.0	Pass
727	PE 4000	958.0	S	0.2	2080	9.0	2049	8.78	98.5	95.0	Pass
728	ME 2000	958.0	S	0.2	2080	9.0	1986	10.75	95.5	95.0	Pass
729	ME 2050	958.0	S	0.2	2080	9.0	1982	10.72	95.3	95.0	Pass
730	ME 2100	958.0	S	0.2	2080	9.0	2022	6.02	97.2	95.0	Pass
731	ME 2200	958.0	S	0.2	2080	9.0	2002	7.12	96.3	95.0	Pass
732	ME 2250	958.0	S	0.2	2080	9.0	2044	7.64	98.3	95.0	Pass
733	ME 2300	958.0	S	0.2	2080	9.0	1989	7.62	95.6	95.0	Pass
734	ME 23050	958.0	S	0.2	2080	9.0	2011	8.25	96.7	95.0	Pass
735	ME 2400	958.0	S	0.2	2080	9.0	2001	6.98	96.2	95.0	Pass
736	ME 2450	958.0	S	0.2	2080	9.0	2126	7.21	102.2	95.0	Pass
737	ME 2500	958.0	S	0.2	2080	9.0	2045	7.68	98.3	95.0	Pass
738	ME 2550	958.0	S	0.2	2080	9.0	2006	7.92	96.4	95.0	Pass
739	ME 2600	958.0	S	0.2	2080	9.0	2162	7.85	103.9	95.0	Pass
740	ME 2650	958.0	S	0.2	2080	9.0	2062	8.05	99.1	95.0	Pass
741	ME 2700	958.0	S	0.2	2080	9.0	2144	8.62	103.1	95.0	Pass
742	ME 1950	958.0	S	0.2	2080	9.0	2064	9.44	99.2	95.0	Pass
743	ME 1900	958.0	S	0.2	2080	9.0	1995	9.10	95.9	95.0	Pass
744	ME 1850	958.0	S	0.2	2080	9.0	2018	9.59	97.0	95.0	Pass
745	ME 1800	958.0	S	0.2	2080	9.0	2036	9.44	97.9	95.0	Pass
746	ME 1750	958.0	S	0.2	2080	9.0	2032	8.93	97.7	95.0	Pass
747	ME 1700	958.0	S	0.2	2080	9.0	2101	8.80	101.0	95.0	Pass

748	ME 1650	958.0	S	0.2	2080	9.0	1992	8.02	95.8	95.0	Pass
749	ME 1600	958.0	S	0.2	2080	9.0	2023	9.62	97.3	95.0	Pass
750	SE 1550	958.0	S	0.2	2080	9.0	1977	10.44	95.0	95.0	Pass
751	SE 1580	958.0	S	0.2	2080	9.0	1992	10.92	95.8	95.0	Pass
752	SE 1500	958.0	S	0.2	2080	9.0	1985	8.69	95.4	95.0	Pass
753	SE 1450	958.0	S	0.2	2080	9.0	2056	7.51	98.8	95.0	Pass
754	SE 1400	958.0	S	0.2	2080	9.0	2069	7.63	99.5	95.0	Pass
755	SE 1350	958.0	S	0.2	2080	9.0	2133	8.61	102.5	95.0	Pass
756	SE 1300	958.0	S	0.2	2080	9.0	2088	6.65	100.4	95.0	Pass
757	SE 1250	958.0	S	0.2	2080	9.0	2161	5.96	103.9	95.0	Pass
758	SE 1200	958.0	S	0.2	2080	9.0	2017	9.09	97.0	95.0	Pass
759	SE 1150	958.0	S	0.2	2080	9.0	2011	8.88	96.7	95.0	Pass
760	SE 1100	958.0	S	0.2	2080	9.0	2030	7.81	97.6	95.0	Pass
761	SE 1050	958.0	S	0.2	2080	9.0	2061	7.62	99.1	95.0	Pass
762	SE 1000	958.0	S	0.2	2080	9.0	2131	8.66	102.5	95.0	Pass
763	SE 0950	958.0	S	0.2	2080	9.0	2086	5.95	100.3	95.0	Pass
764	SE 0900	958.0	S	0.2	2080	9.0	1995	8.68	95.9	95.0	Pass
765	SE 0850	958.0	S	0.2	2080	9.0	2031	9.61	97.6	95.0	Pass
766	SE 0800	958.0	S	0.2	2080	9.0	2044	8.66	98.3	95.0	Pass
767	SE 0750	958.0	S	0.2	2080	9.0	2125	8.86	102.2	95.0	Pass
768	SE 0700	958.0	S	0.2	2080	9.0	2112	8.86	101.5	95.0	Pass
769	SE 0650	958.0	S	0.2	2080	9.0	2011	8.62	96.7	95.0	Pass
770	SE 0600	958.0	S	0.2	2080	9.0	2321	8.12	111.6	95.0	Pass
771	SE 0550	958.0	S	0.2	2080	9.0	2018	7.92	97.0	95.0	Pass
772	SE 0500	958.0	S	0.2	2080	9.0	2125	8.25	102.2	95.0	Pass
773	SE 0450	958.0	S	0.2	2080	9.0	2014	9.02	96.8	95.0	Pass
							Minimum	1825.0	2.7	87.7	
							Maximum	2671.0	60.9	128.4	
							Median	2114.0	9.0	101.6	
							Standard Deviation	77.0	3.1	3.7	
							Average	2114.5	9.1	101.7	
Comments		Proctor No.				Proctor Description					
Number of Tests:						Kg/m³	M.C.	95%			
766		R-S6b-ZS-01-2010				2030	11.0	1929			
		R-S6b-ZS-02-2010				2190	7.0	2081			
		R-S6b-ZS-2(b)-2010				2170	8.0	2062			
		R-S6b-ZS-04-2010				2130	9.0	2024			
		R-S6b-ZS-05-2010				2140	8.5	2033			
		R-S6b-ZS-06-2010				2120	8.0	2014			
		R-S6b-ZS-07-2010				2080	10.0	1976			
		R-S6b-ZS-08-2010				2080	10.0	1976			
		R-S6b-ZS-09-2010				2140	9.0	2033			
		R-S6b-ZS-10-2010				2070	10.0	1967			
		R-S6b-ZS-11-2010				2110	10.0	2005			
		R-S6b-ZS-12-2010				2140	9.0	2033			
Technician _____		DS _____				MS _____		Gauge No _____		MD70208639 _____	
								Daily Rep.# _____			

APPENDIX C

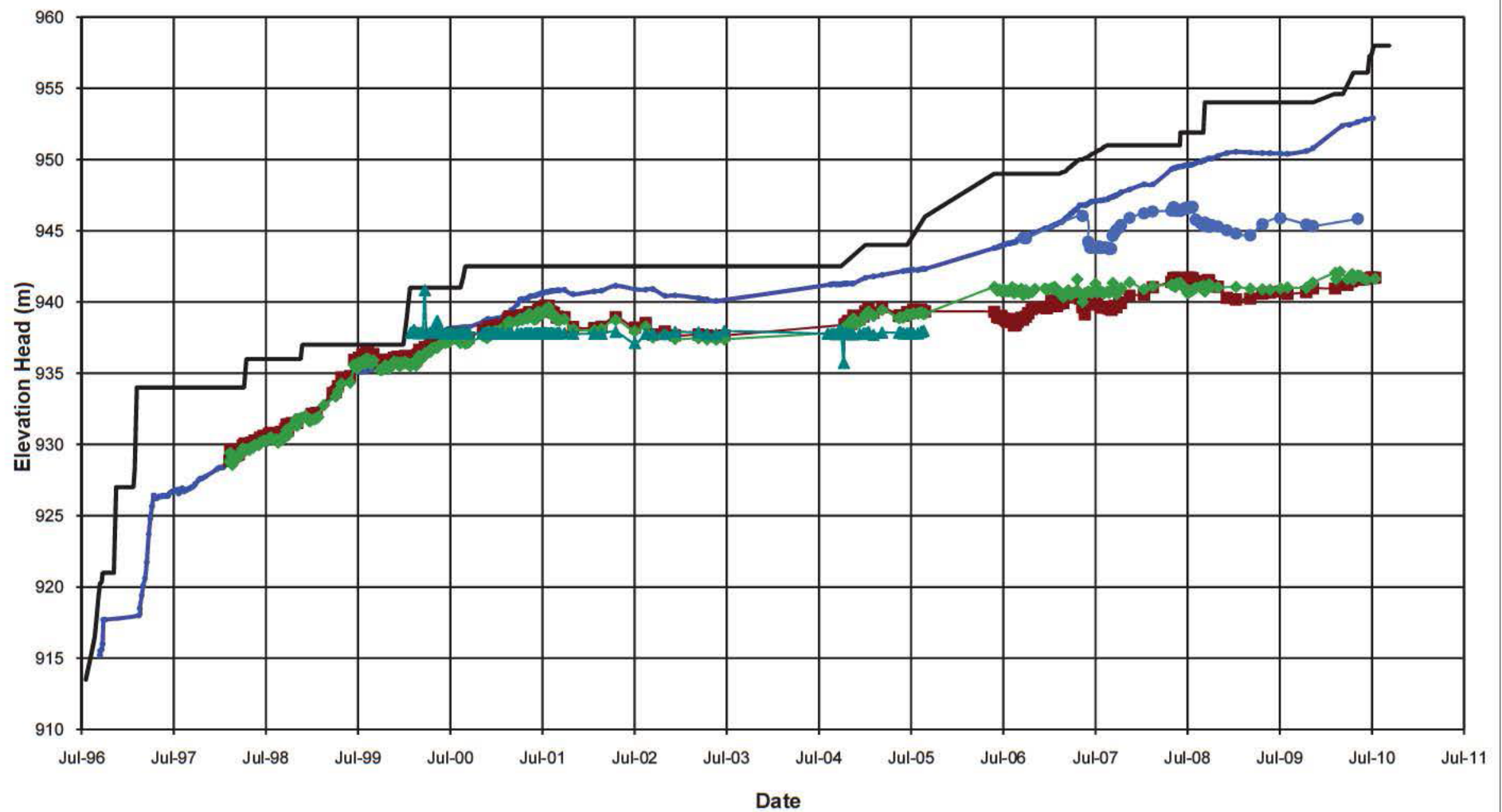
PIEZOMETER FIGURES

Appendix C1	Tailings Piezometers
Appendix C2	Foundation Piezometers
Appendix C3	Fill Piezometers
Appendix C4	Drain Piezometers

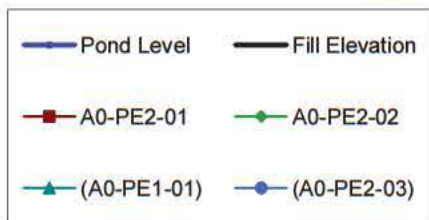
APPENDIX C1

TAILINGS PIEZOMETERS

(Pages C1-1 to C1-9)

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE A TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

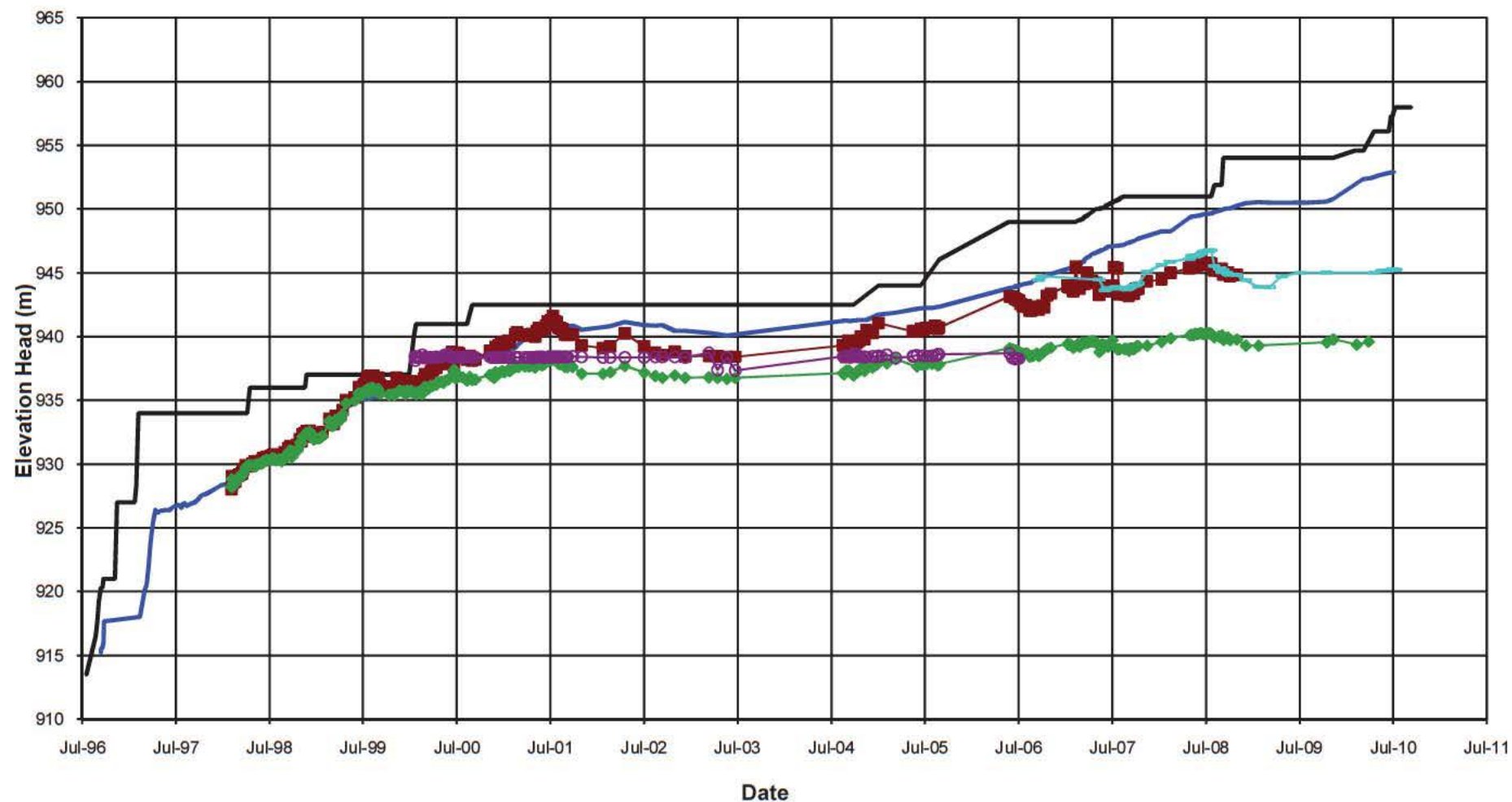
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

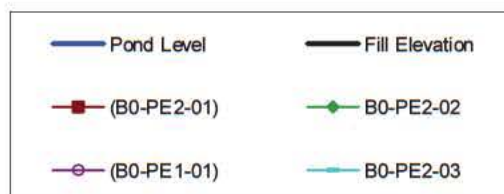
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FIGURE C1.1

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE B TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

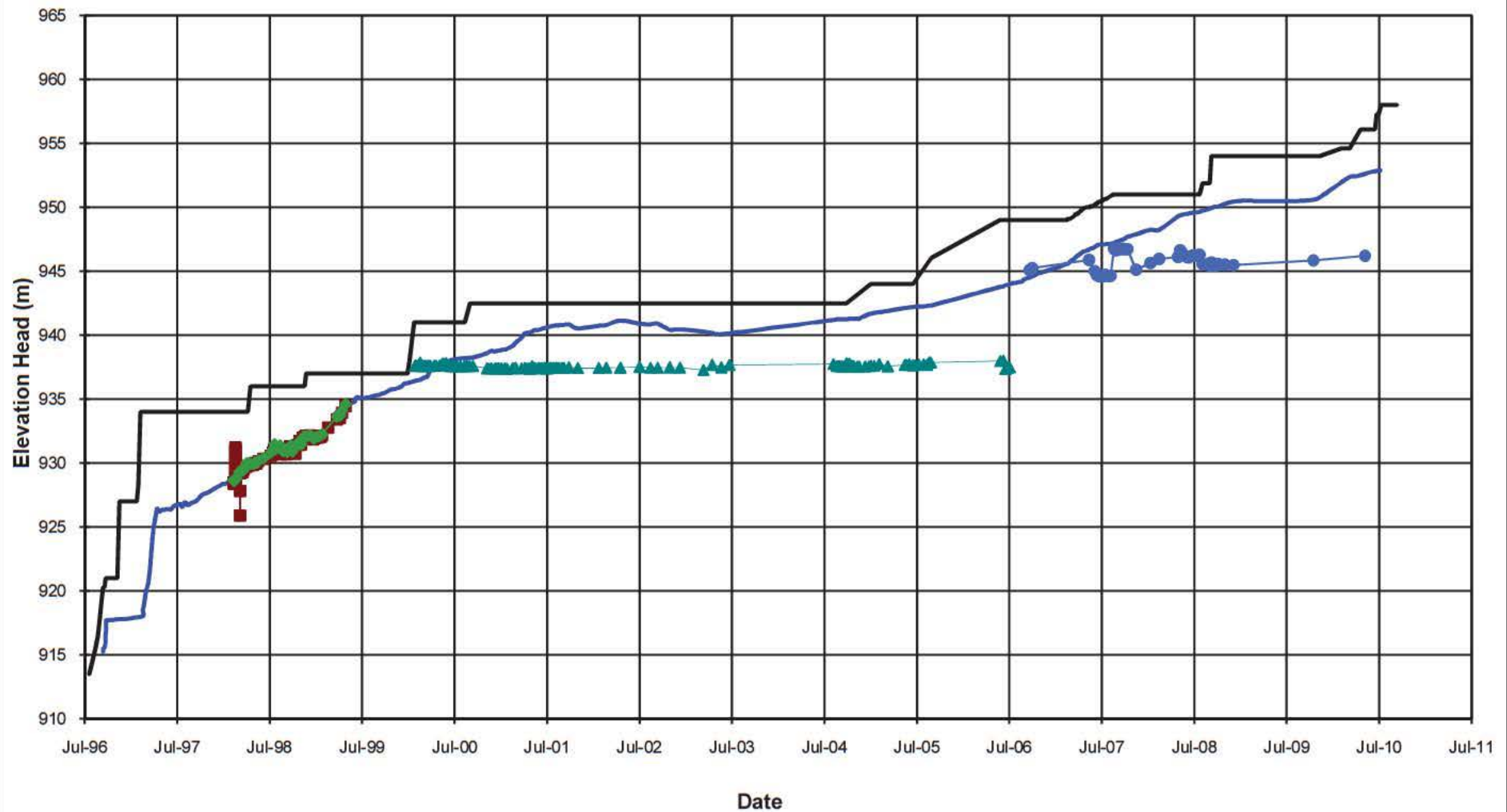
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

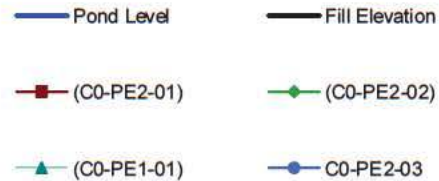
REF NO.
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FIGURE C1.2

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE C TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

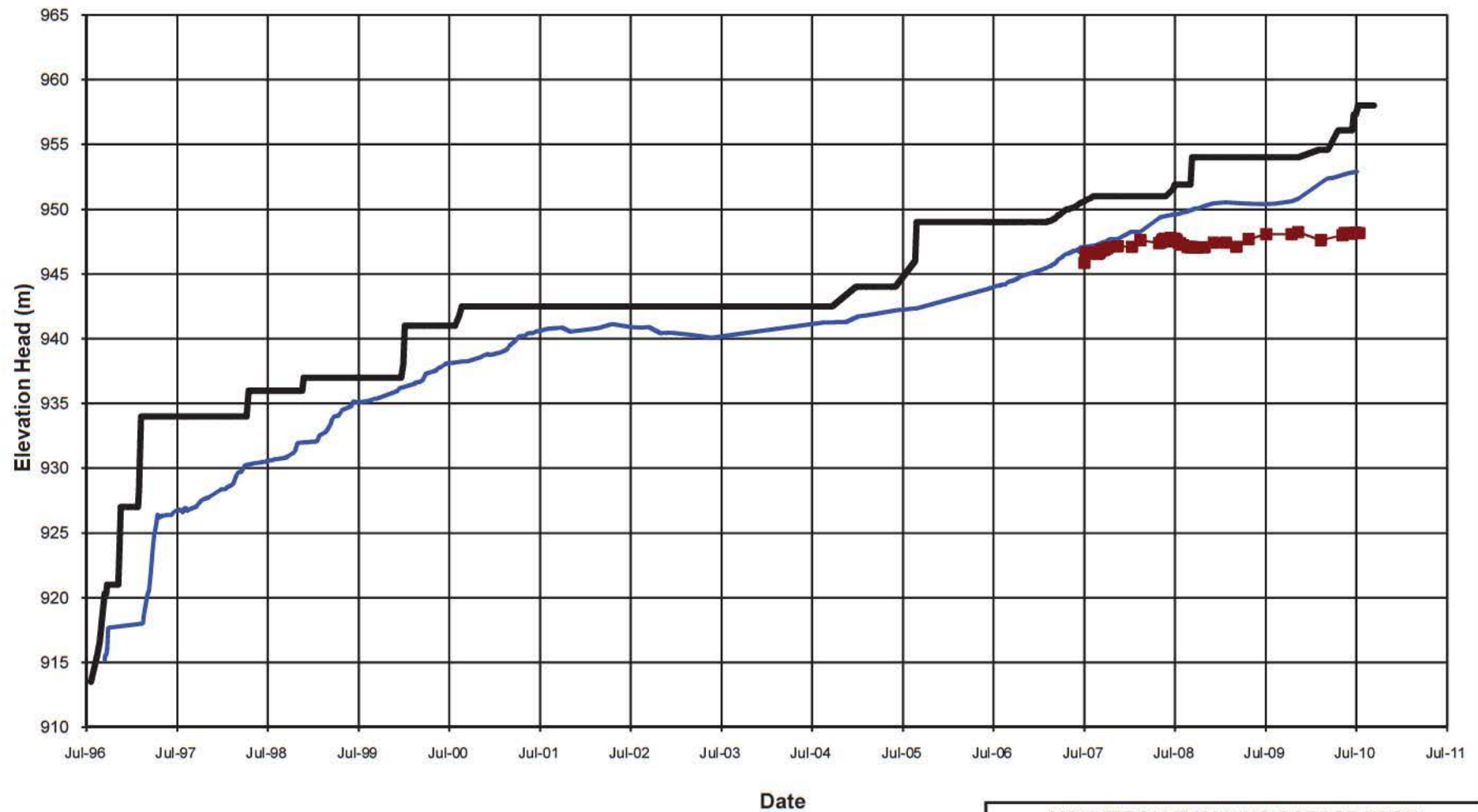
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
1

FIGURE C1.3

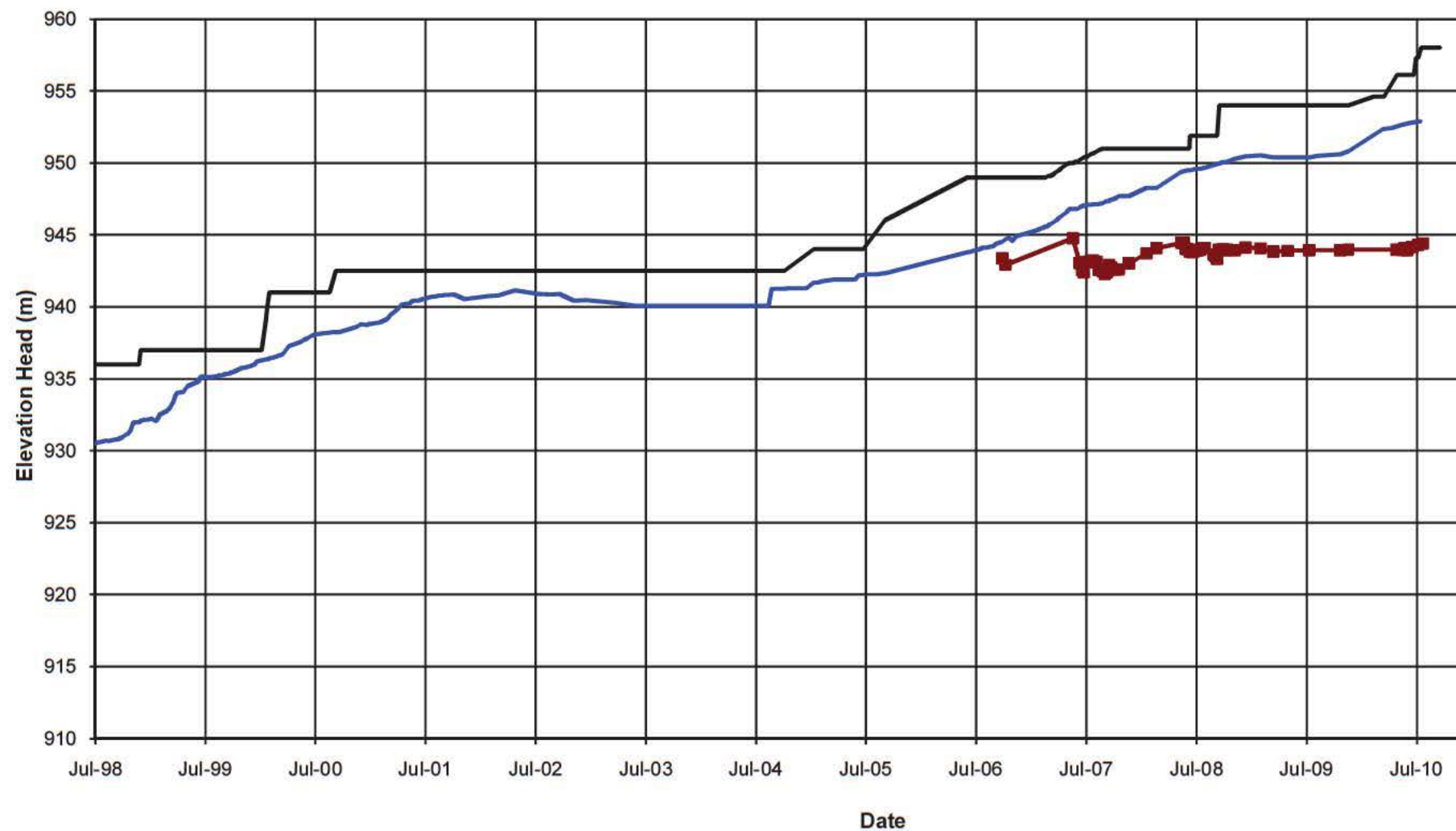
REV
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**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
PLANE D TAILINGS PIEZOMETERS ELEVATION HEAD vs. TIME		
<i>Knight Piésold</i> CONSULTING	P/A NO. VA101-1/29	REF NO. 1
	FIGURE C1.4	
		REV 0

0	05OCT10	ISSUED WITH REPORT	GL	GLJ	KJB
REV	DATE	DESCR PTION	PREP'D	CHK'D	APP'D



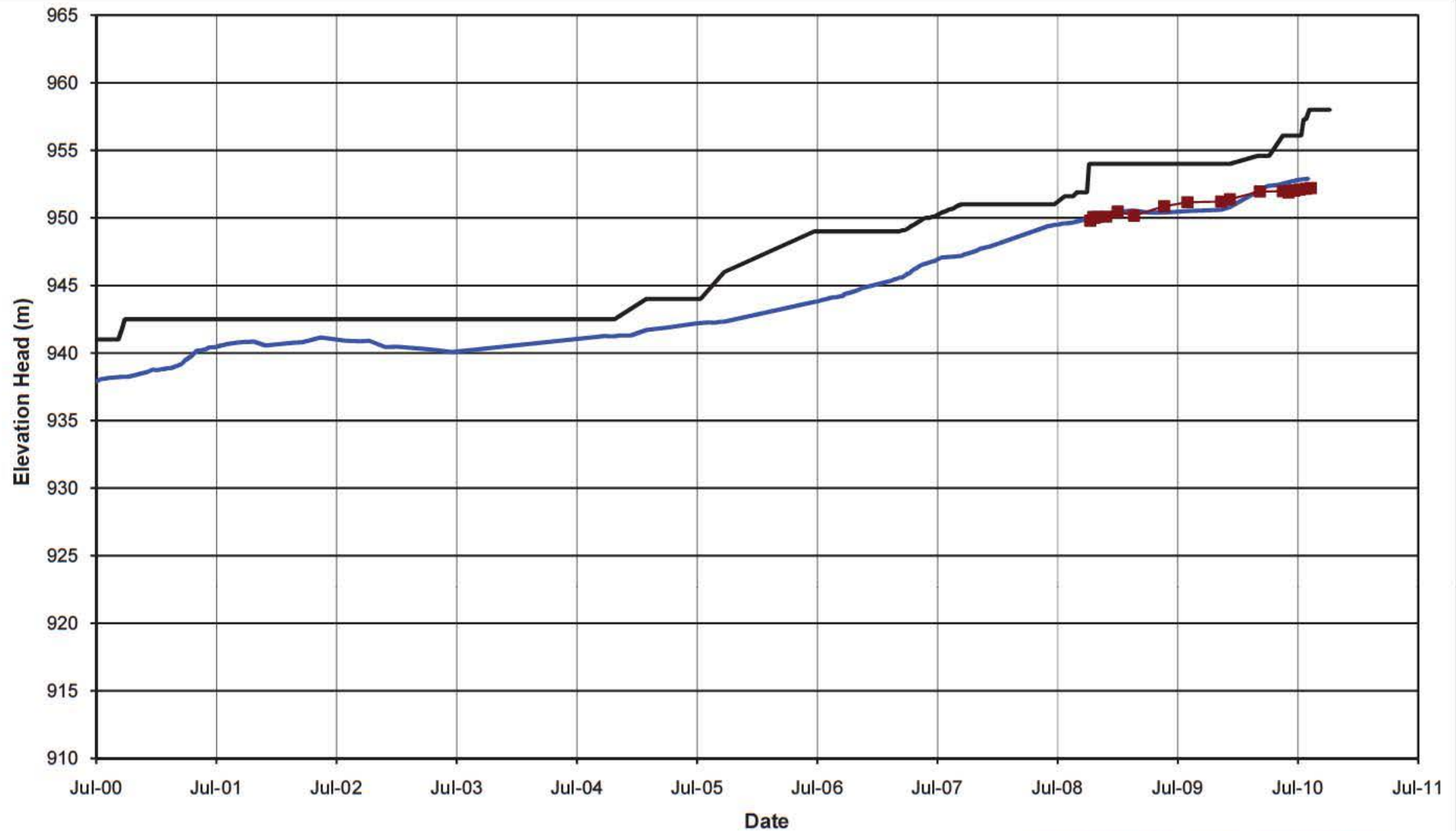
MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE E TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME*Knight Piésold*
CONSULTINGP/A NO.
VA101-1/29REF NO.
1

FIGURE C1.5

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

Pond Level F0-PE2-01 Fill El. (m)

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE F TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

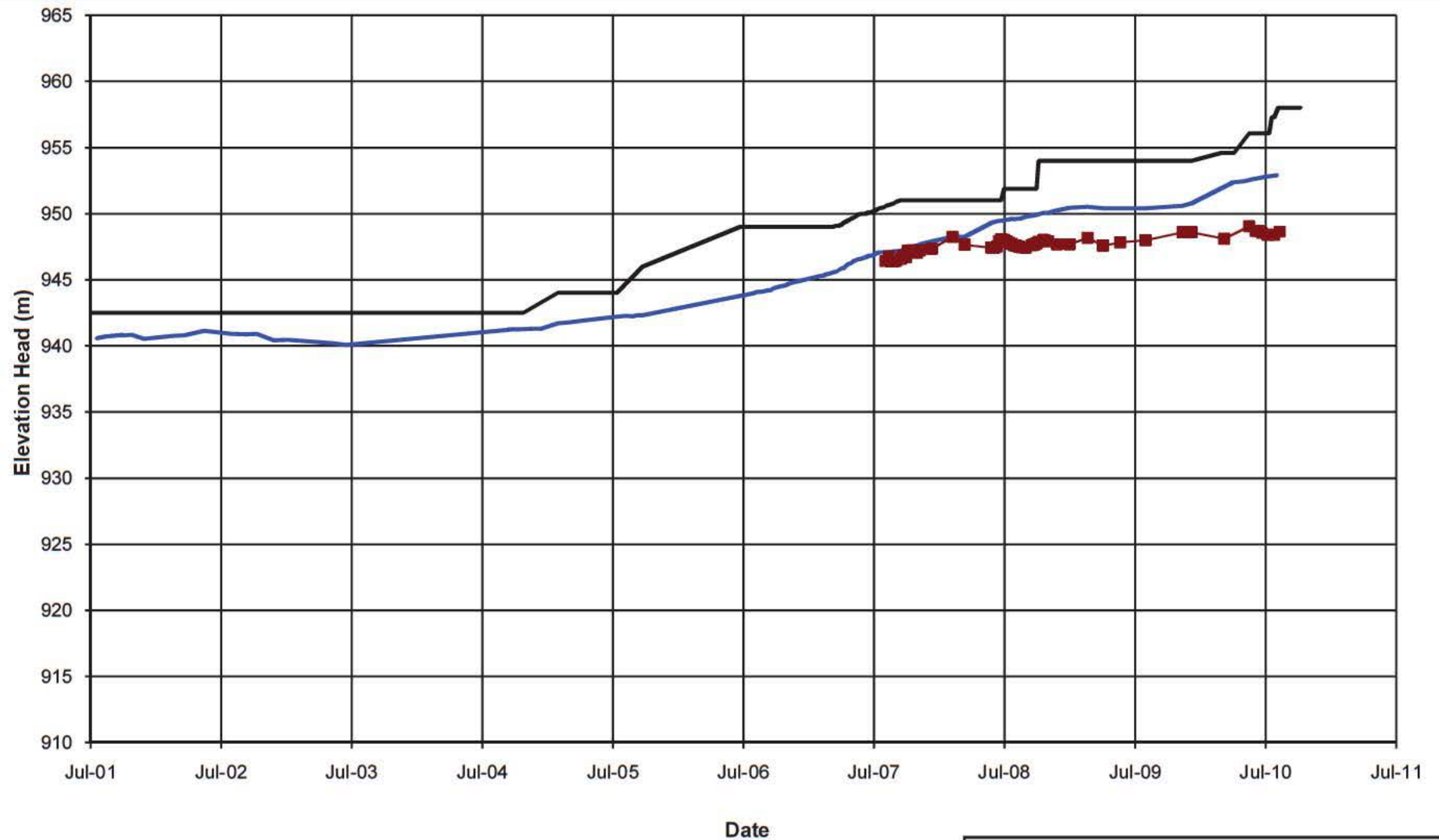
P/A NO.
VA101-1/29

REF NO.
1

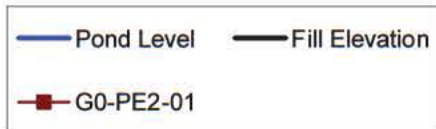
FIGURE C1.6

REV
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REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

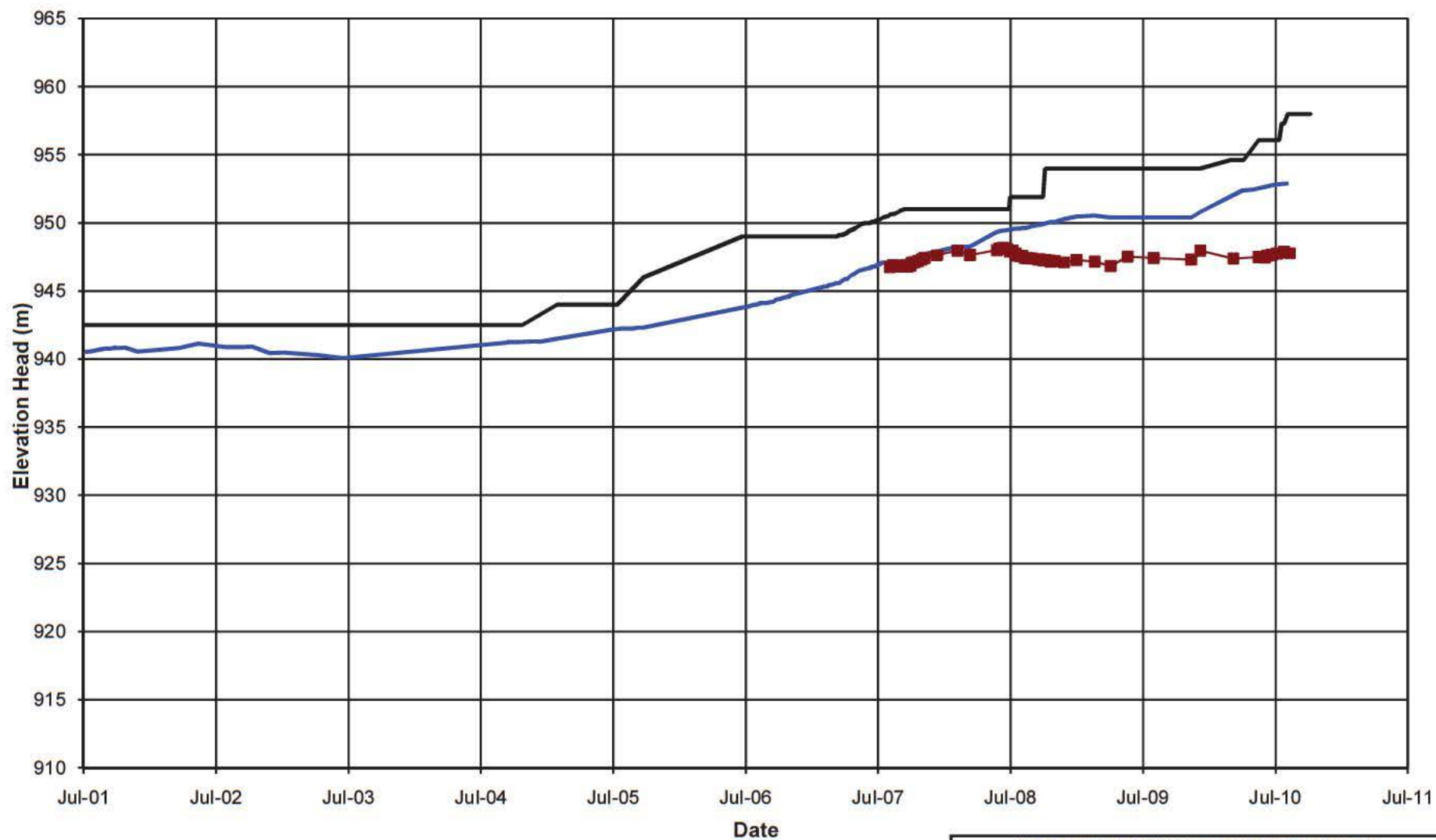
**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



0	05OCT10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

MOUNT POLLEY MINING CORPORATION		
MOUNT POLLEY MINE		
PLANE G TAILINGS PIEZOMETERS ELEVATION HEAD vs. TIME		
Knight Piésold CONSULTING	P/ANO. VA 101-1/29	REF NO. 1
	FIGURE C1.7	
		REV 0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level — Fill Elevation
 ■ H0-PE2-01

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE H TAILINGS PIEZOMETERS
 ELEVATION HEAD vs. TIME

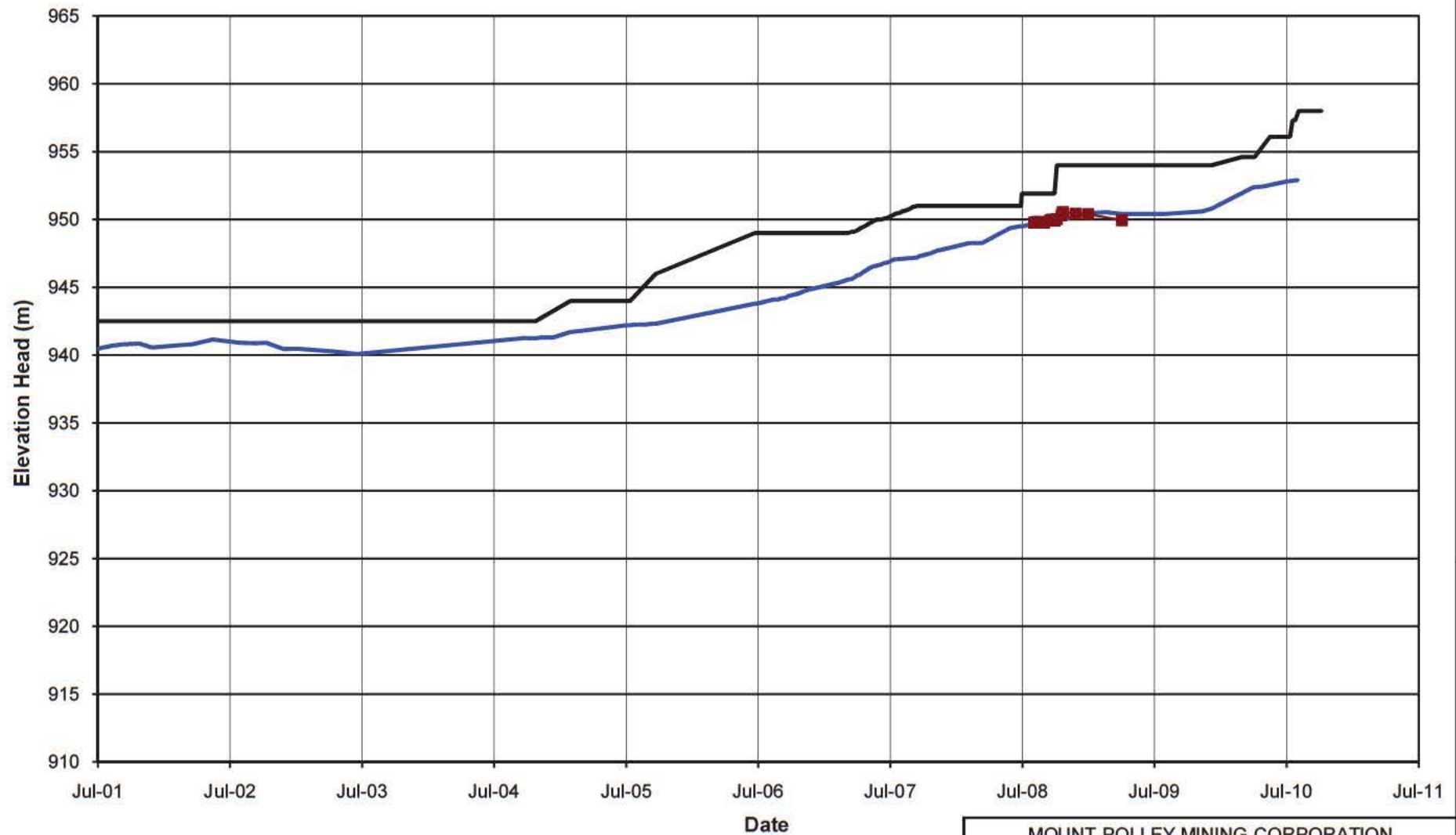
Knight Piésold
 CONSULTING

P/ANO.
 VA101-1/29

REF NO.
 1

FIGURE C1.8

REV
 0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE I TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
1

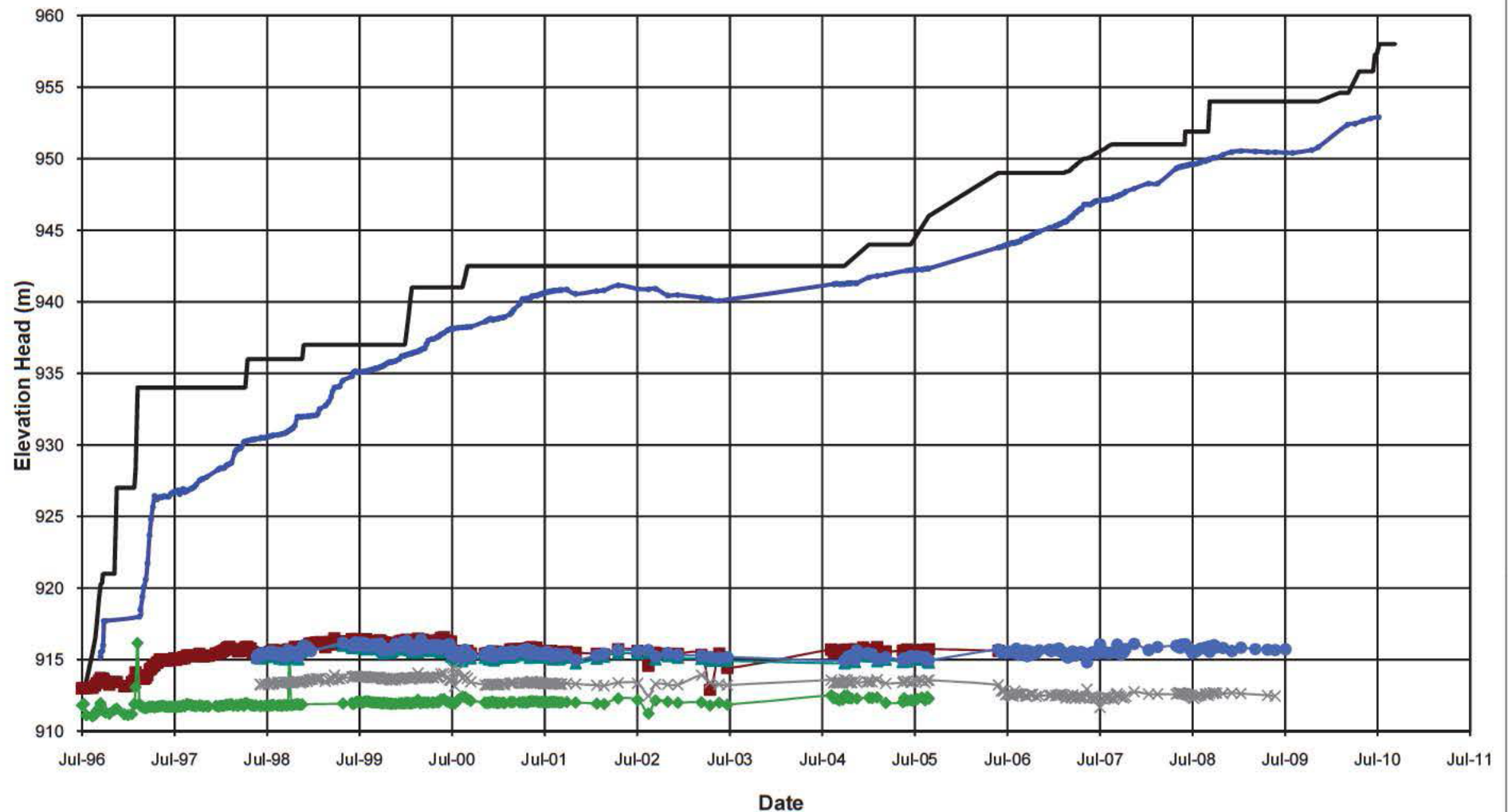
FIGURE C1.9

REV
0

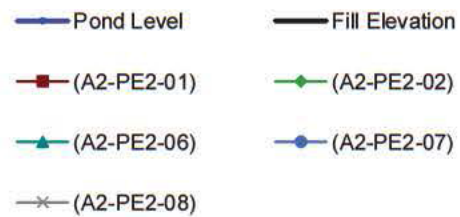
APPENDIX C2

FOUNDATION PIEZOMETERS

(Pages C2-1 to C2-7)

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE A FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

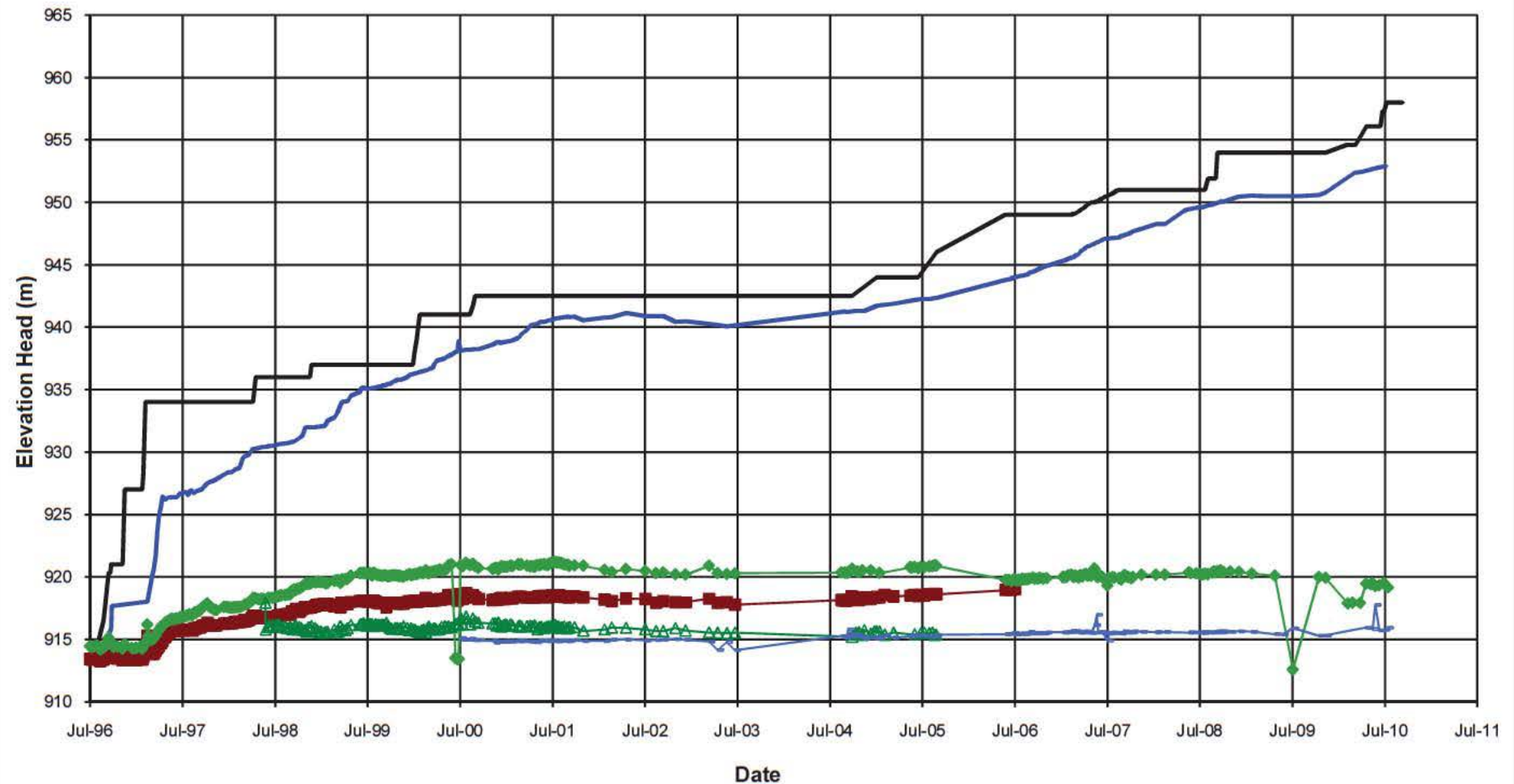
P/A NO.
VA101-1/29

REF NO.
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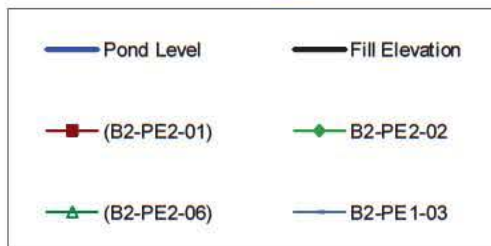
FIGURE C2.1

REV
0

0	05OCT'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE B FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

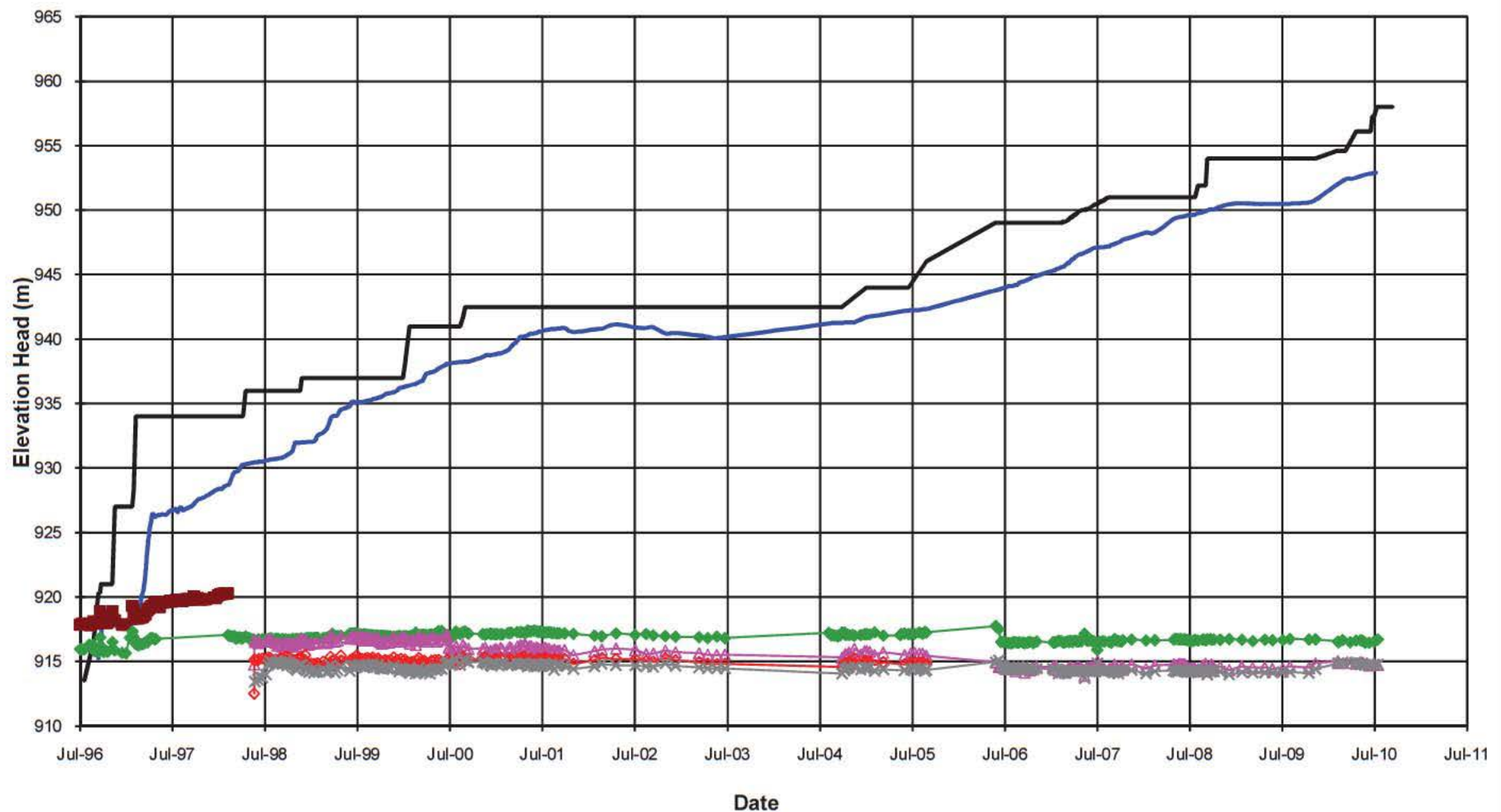
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VA101-1/29

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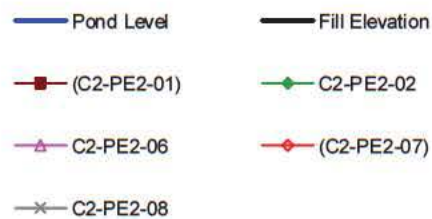
FIGURE C2.2

REV
0

0	05OCT'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE C FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

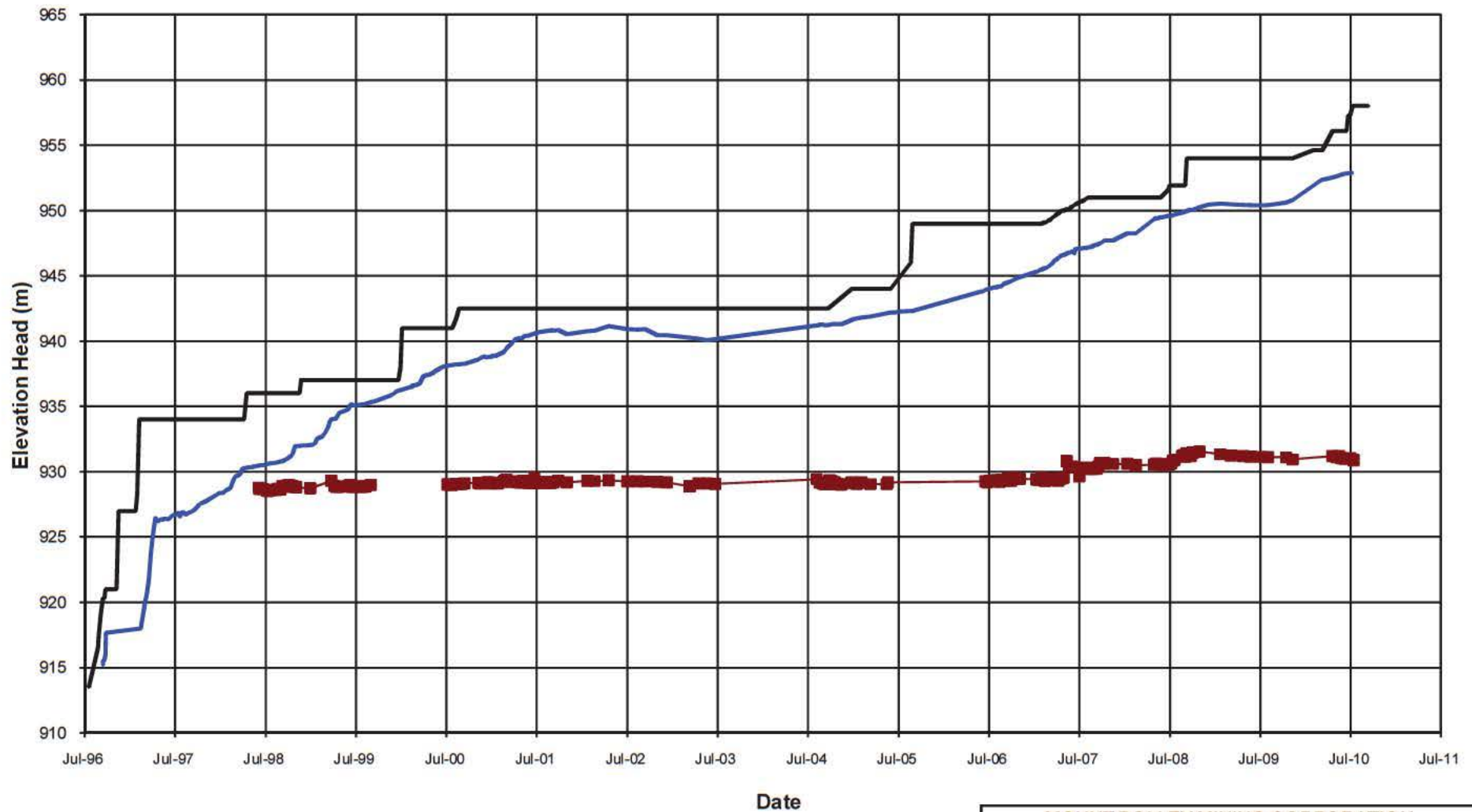
Knight Piésold
CONSULTING

P/ANO.
VA101-1/29

REF NO.
1

FIGURE C2.3

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE D FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

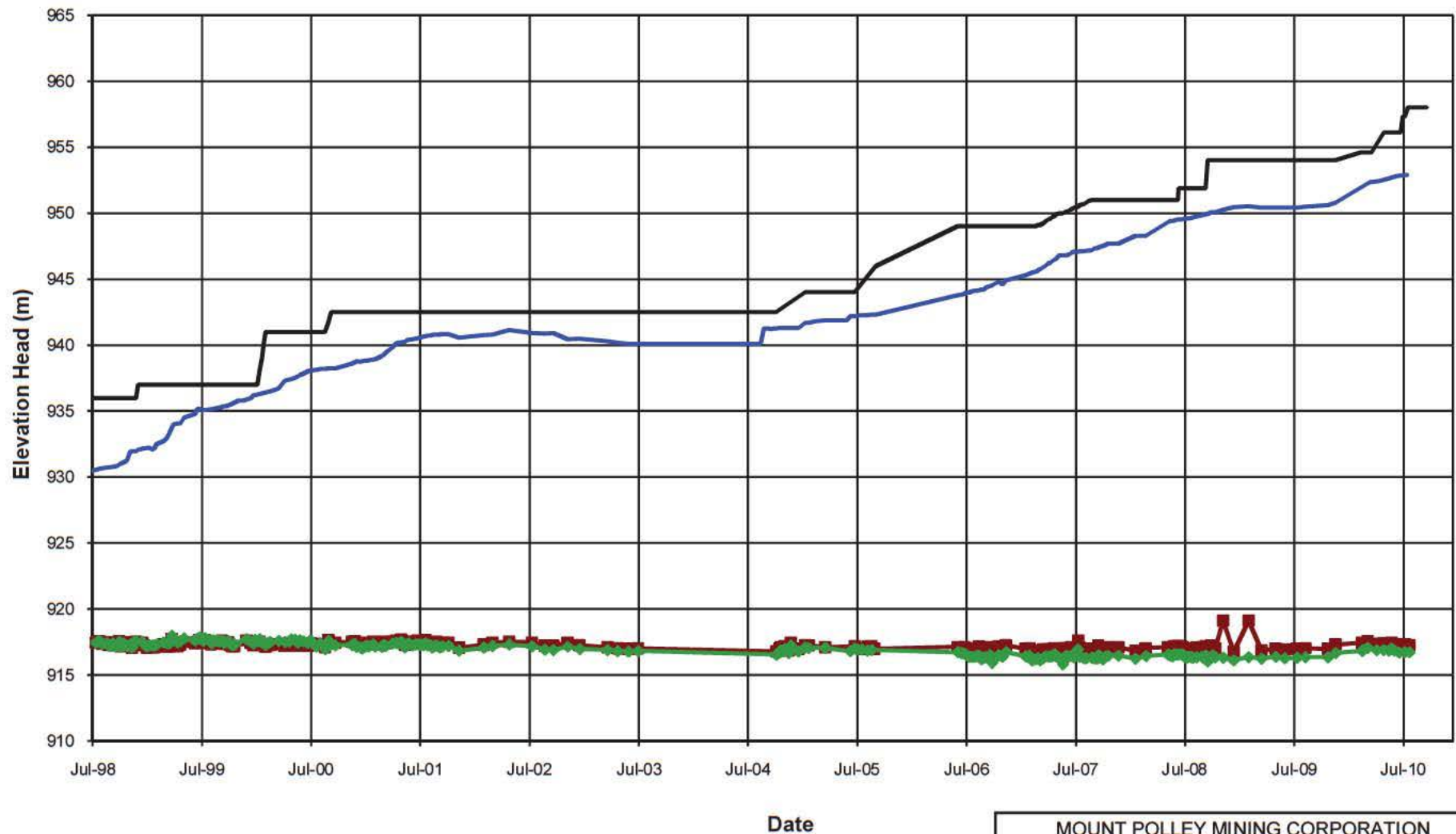
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
1

FIGURE C2.4

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level — Fill Elevation
 ■ E2-PE2-01 ◆ E2-PE2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE E FOUNDATION PIEZOMETERS
 ELEVATION HEAD vs. TIME

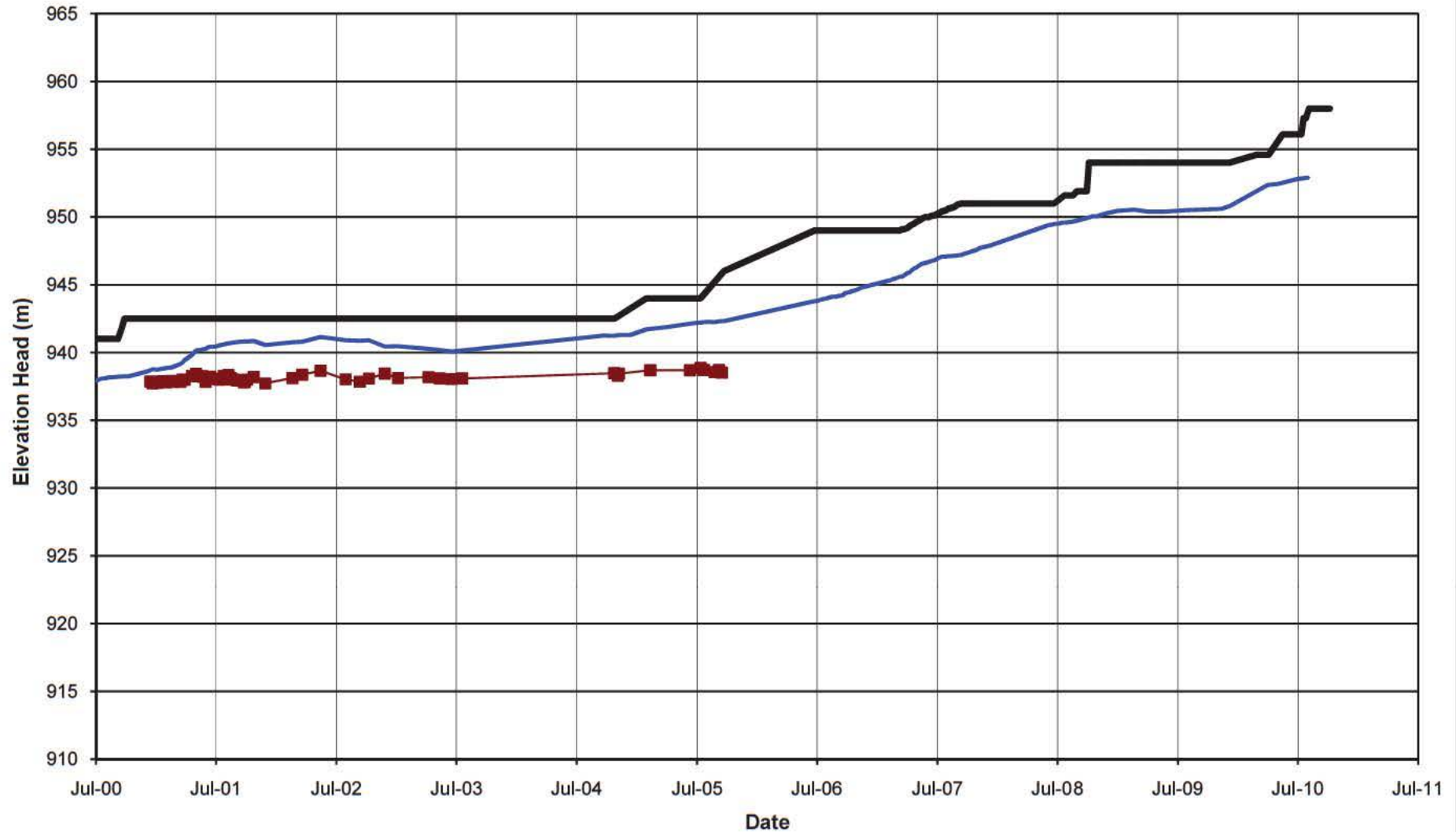
Knight Piésold
 CONSULTING

P/ANO.
 VA101-1/29

REF NO.
 1

FIGURE C2.5

REV
 0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

Pond Level Fill Elevation (F2-PE2-01)

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

**PLANE F FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME**

Knight Piesold
CONSULTING

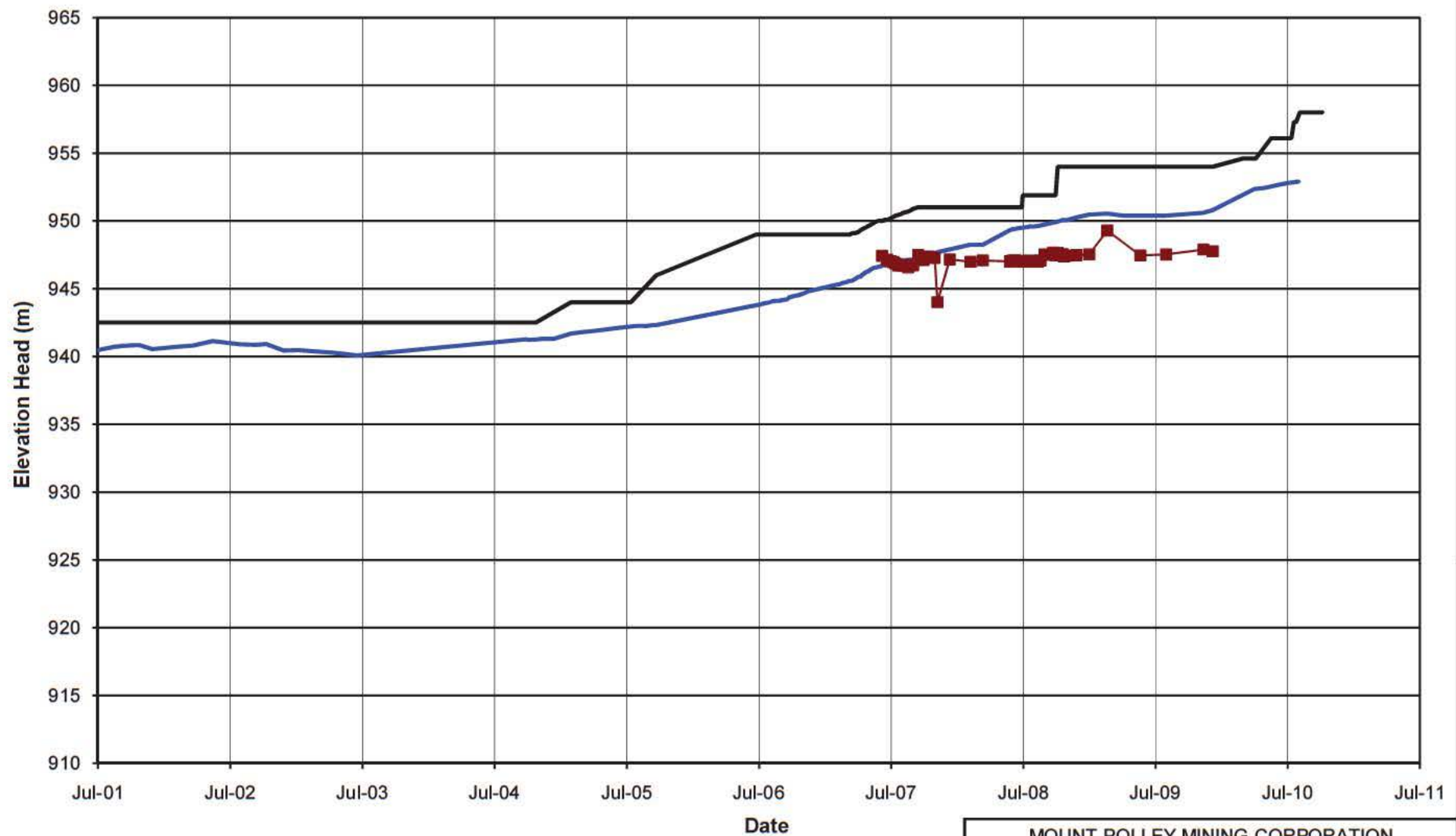
P/A NO.
VA101-1/29

REF NO.
1

FIGURE C2.6

REV
0

0	05OCT10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE I FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
1

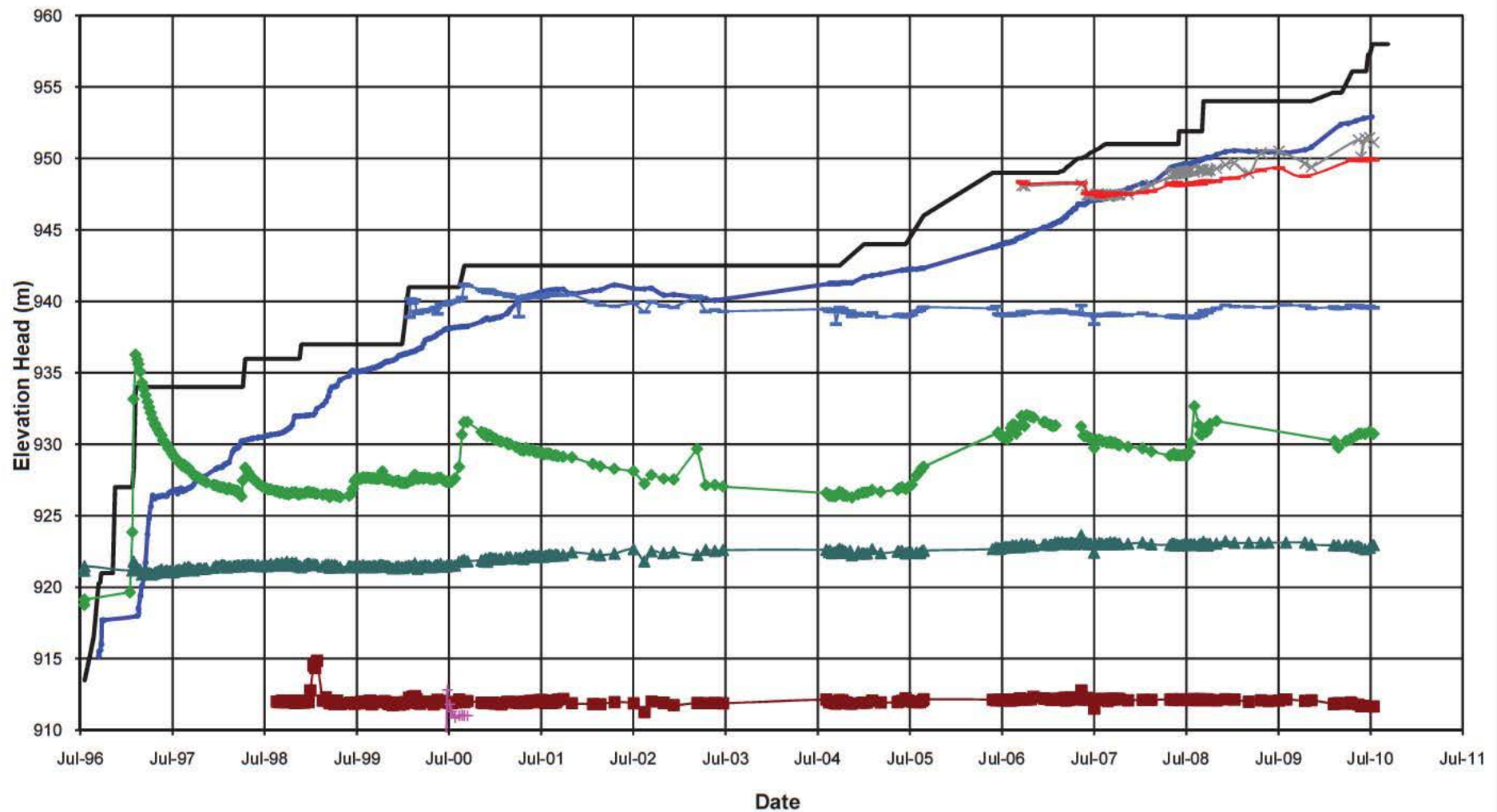
FIGURE C2.7

REV
0

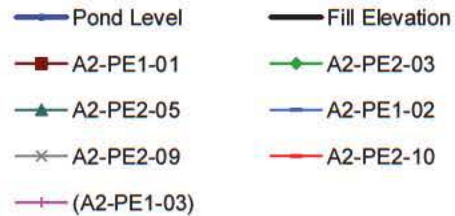
APPENDIX C3

FILL PIEZOMETERS

(Pages C3-1 to C3-9)

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE A FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

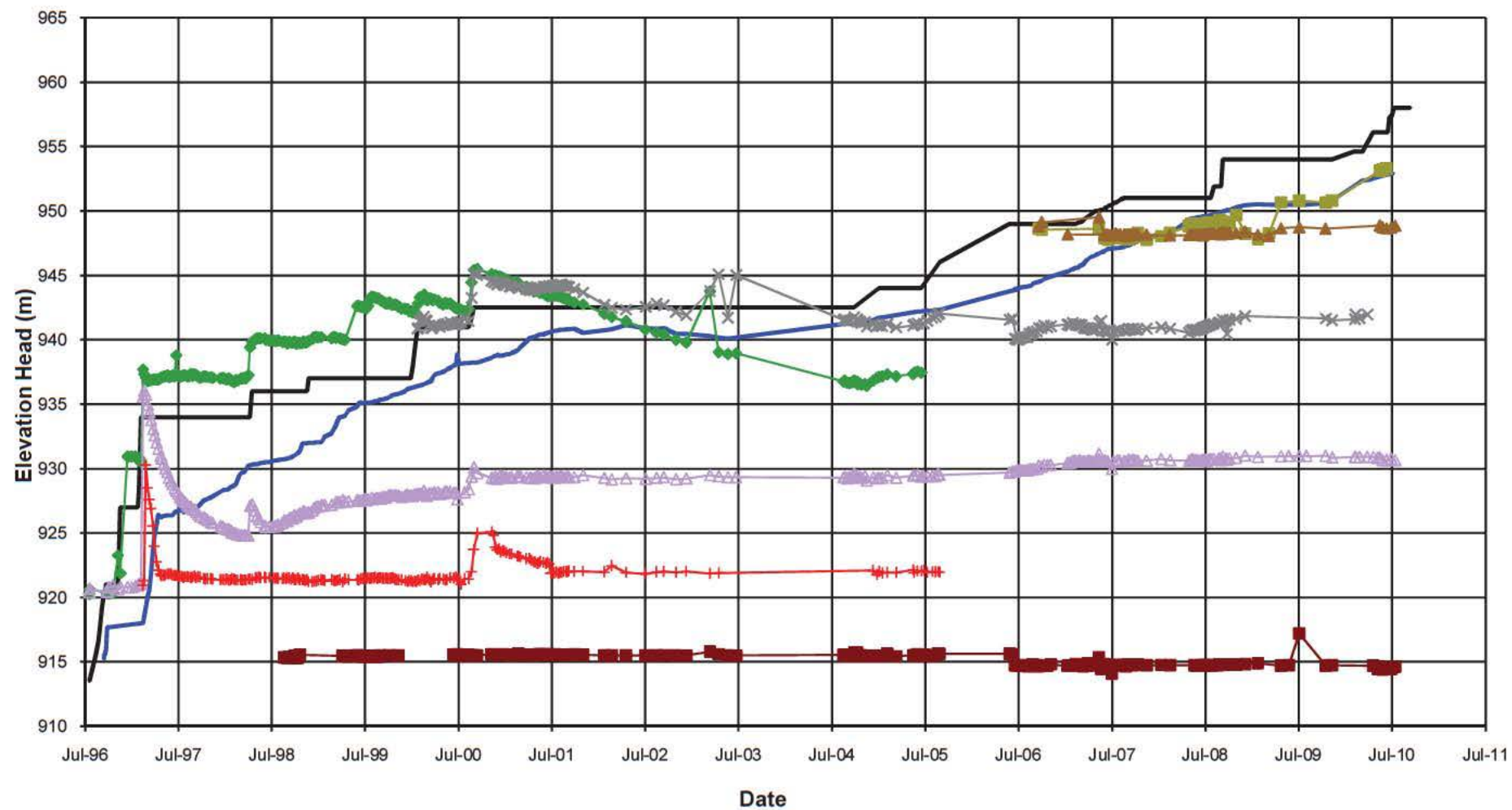
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
1

FIGURE C3.1

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level	— Fill Elevation	■ B2-PE1-01
◆ (B2-PE2-03)	△ B2-PE2-04	+ (B2-PE2-05)
× (B2-PE1-02)	■ (B2-PE2-07)	▲ B2-PE2-08

0	05OCT'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE B FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

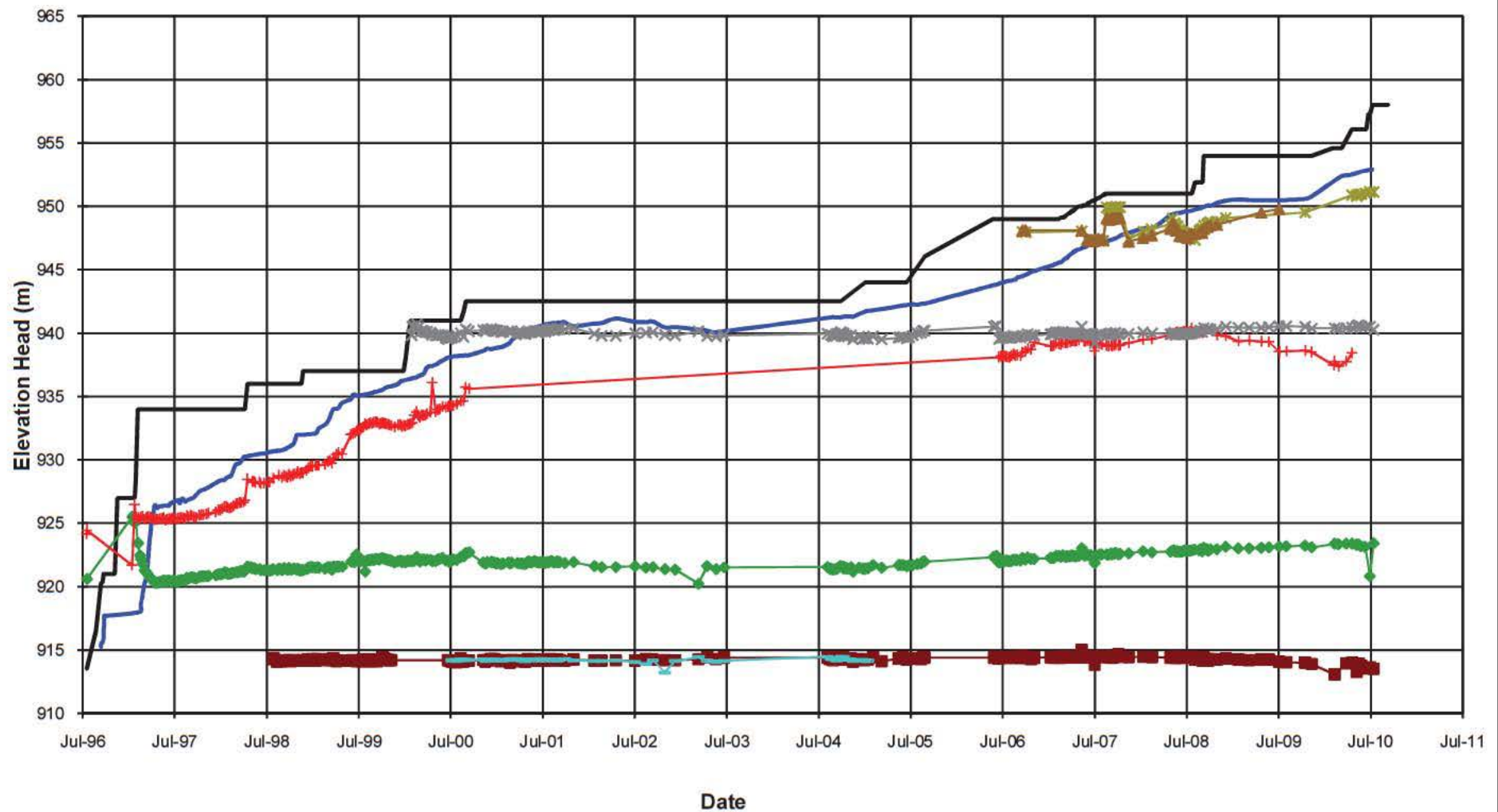
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
1

FIGURE C3.2

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level	— Fill Elevation	■ C2-PE1-01
◆ C2-PE2-03	+ C2-PE2-05	× C2-PE1-02
— (C2-PE1-03)	* C2-PE2-09	▲ (C2-PE2-10)

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE C FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

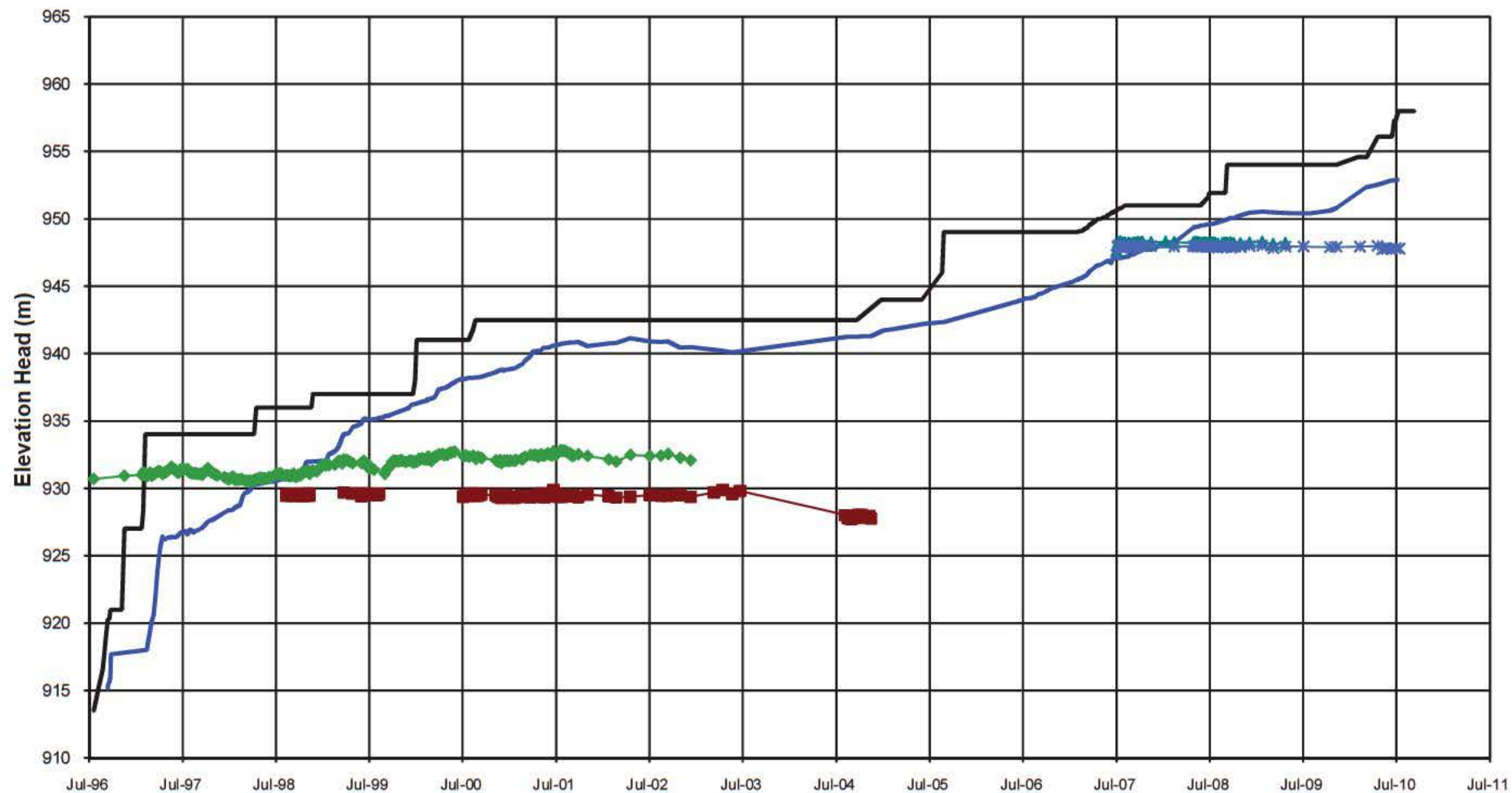
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

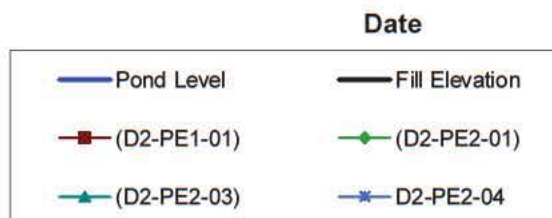
REF NO.
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FIGURE C3.3

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING



MOUNT POLLEY MINING CORPORATION

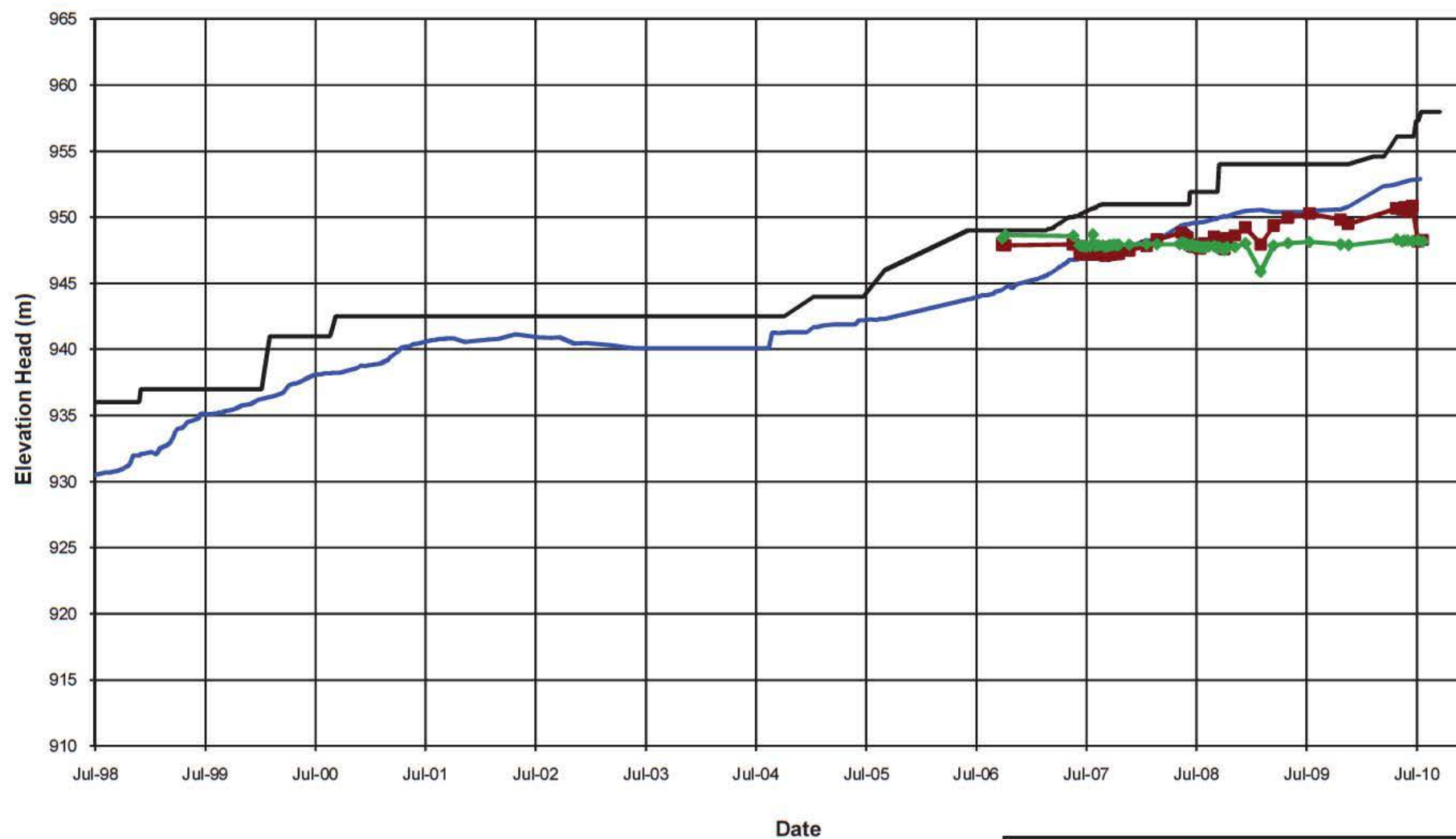
MOUNT POLLEY MINE

**PLANE D FILL PIEZOMETERS
ELEVATION HEAD vs. TIME**

Knight Piésold
CONSULTING

 P/ANO.
VA101-1/29

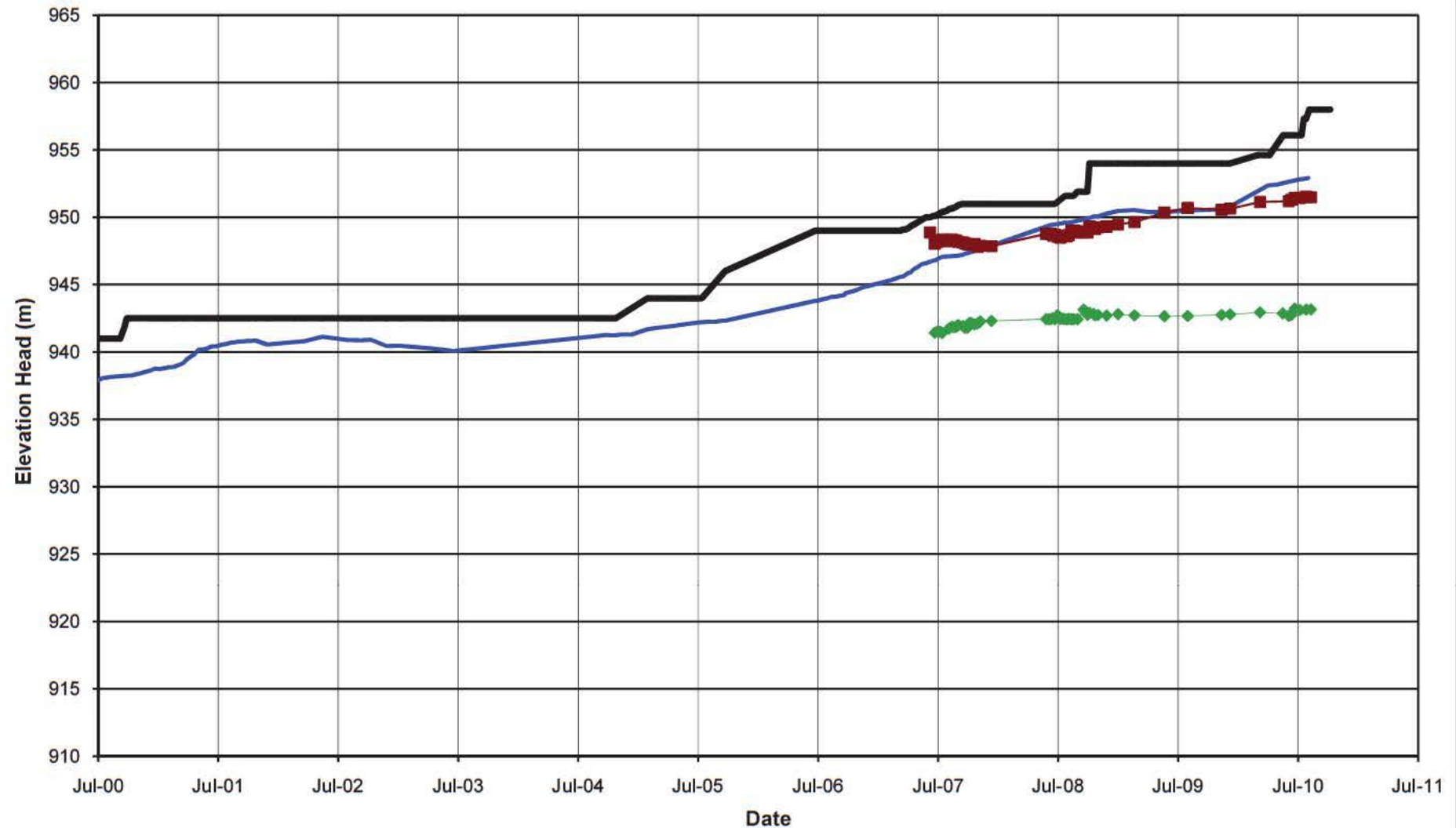
 REF NO.
1
FIGURE C3.4
 REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
PLANE E FILL PIEZOMETERS ELEVATION HEAD vs. TIME			
<i>Knight Piésold</i> CONSULTING		P/A NO. VA101-1/29	REF NO. 1
		FIGURE C3.5	
			REV 0

0	05OCT'10	ISSUED WITH REPORT	GL	GU	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE F FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

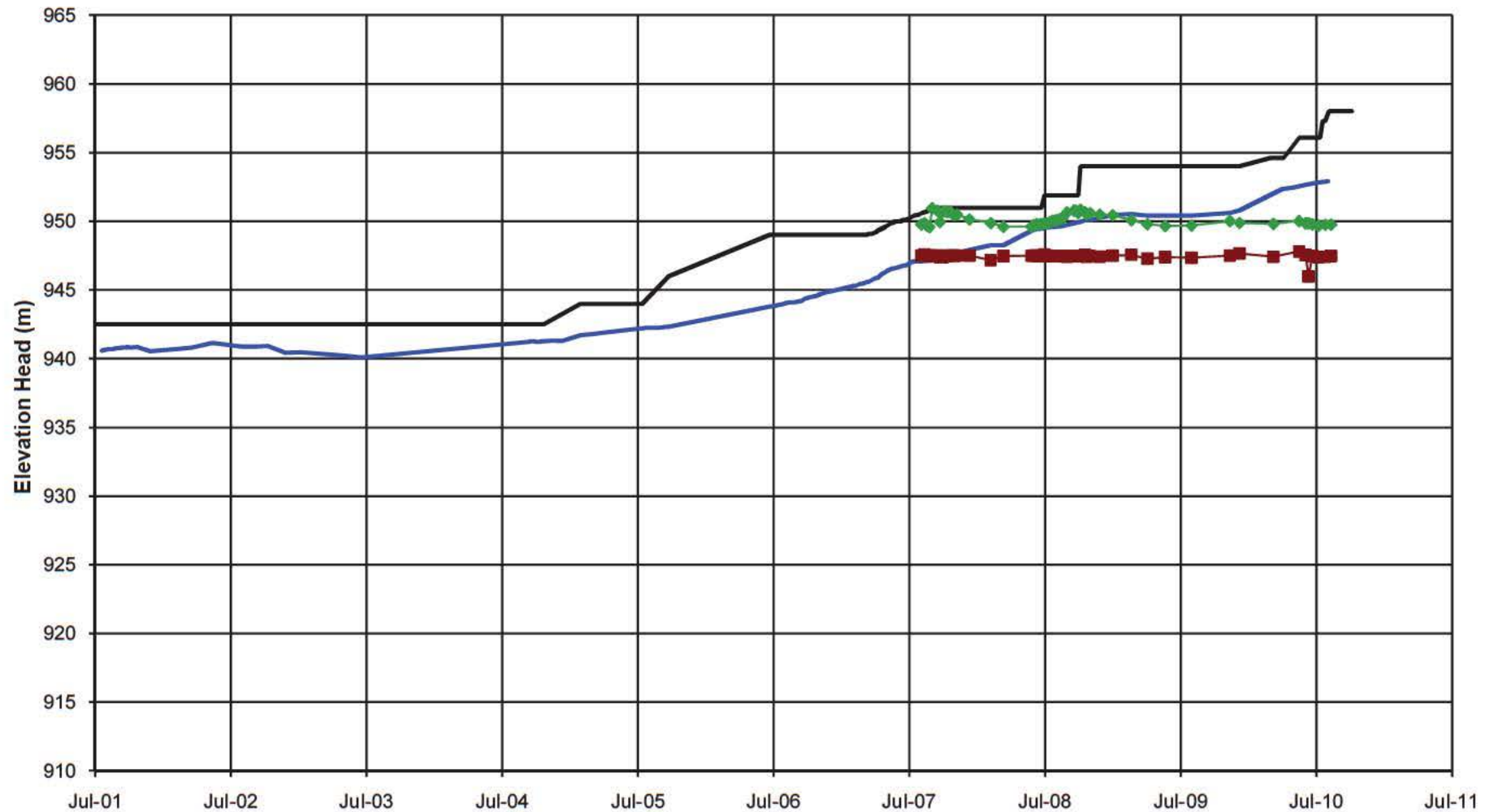
P/A NO.
VA101-1/29

REF NO.
1

FIGURE C3.6

REV
0

0	05OCT'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D


NOTE:

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level — Fill Elevation
 ■ G2-PE2-01 ◆ G2-PE2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE G FILL PIEZOMETERS
 ELEVATION HEAD vs. TIME

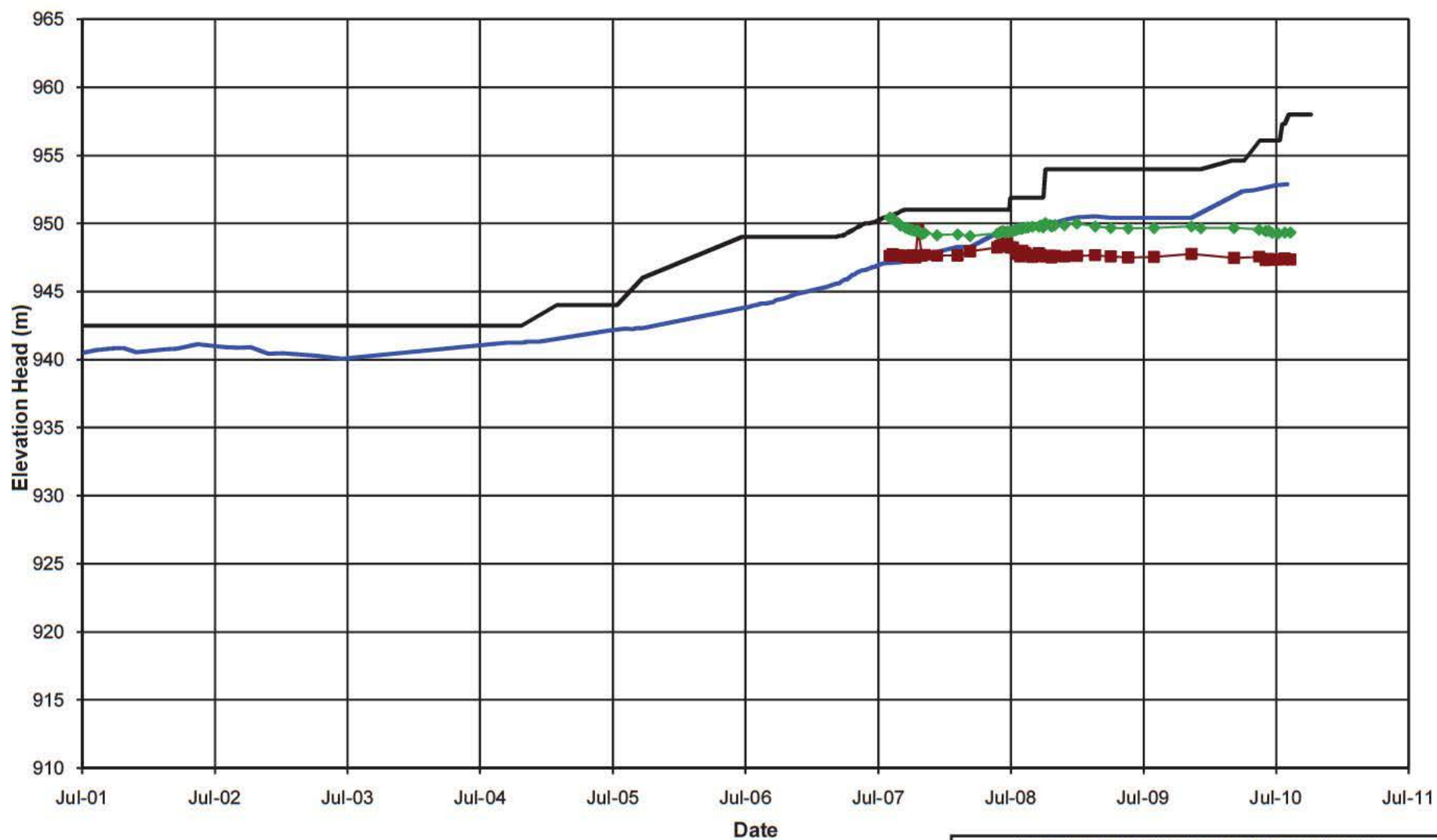
Knight Piésold
 CONSULTING

P/A NO.
VA101-1/29

REF NO.
1

FIGURE C3.7

REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

— Pond Level — Fill Elevation
 ■ H2-PE2-01 ◆ H2-PE2-02

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE H FILL PIEZOMETERS
 ELEVATION HEAD vs. TIME

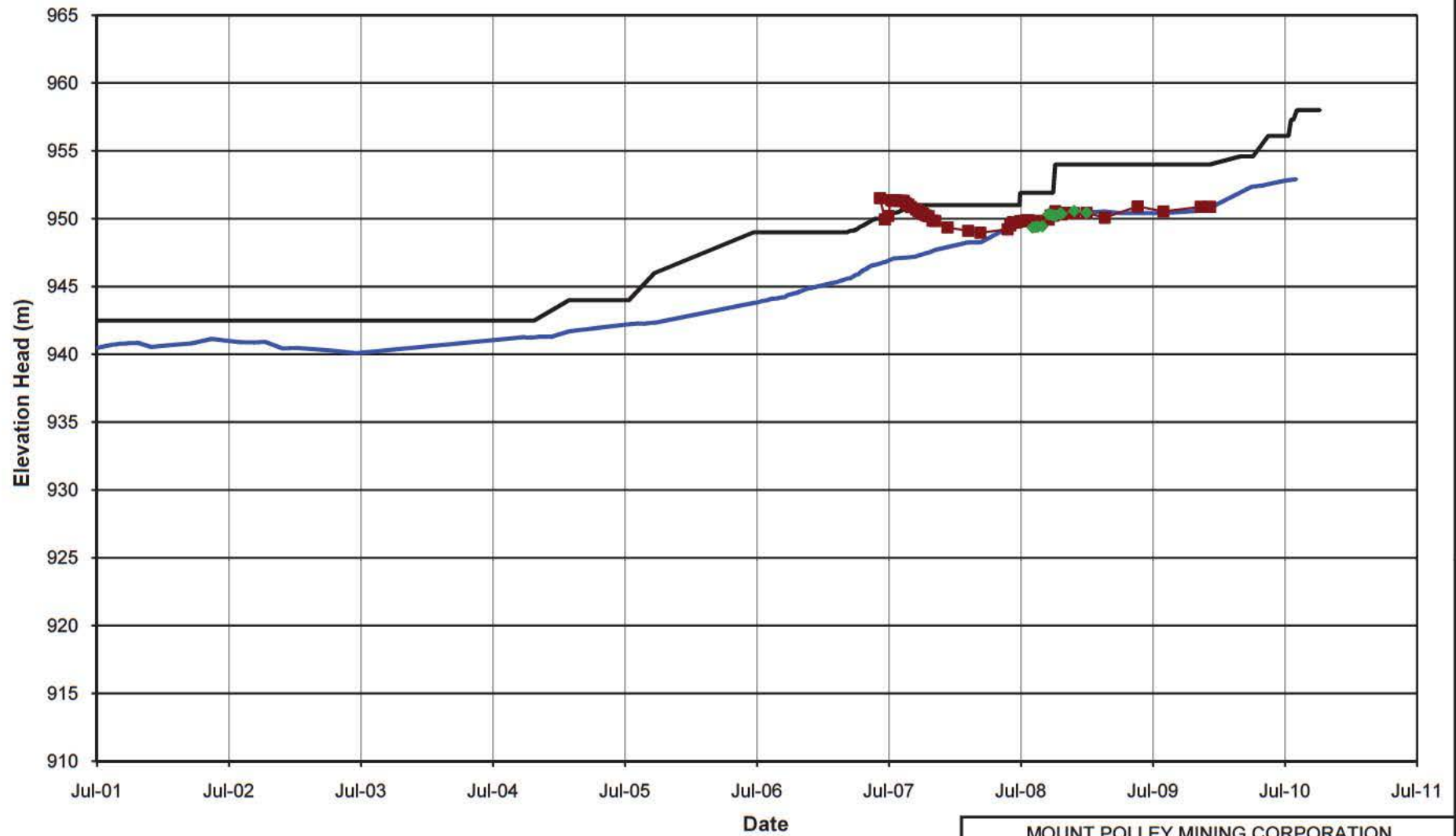
Knight Piésold
 CONSULTING

P/A NO.
 VA101-1/29

REF NO.
 1

FIGURE C3.8

REV
 0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE I FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
1

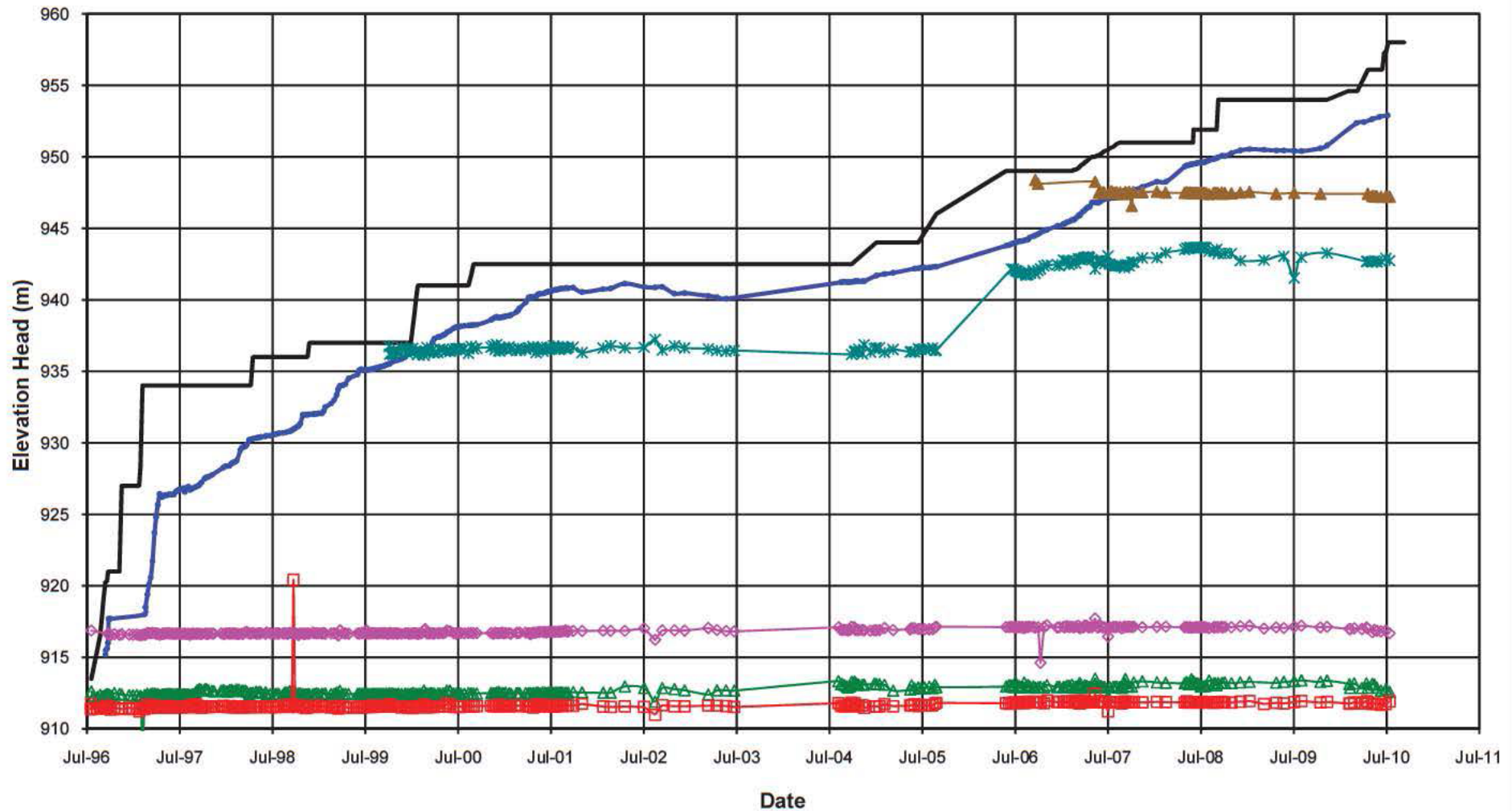
FIGURE C3.9

REV
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APPENDIX C4

DRAIN PIEZOMETERS

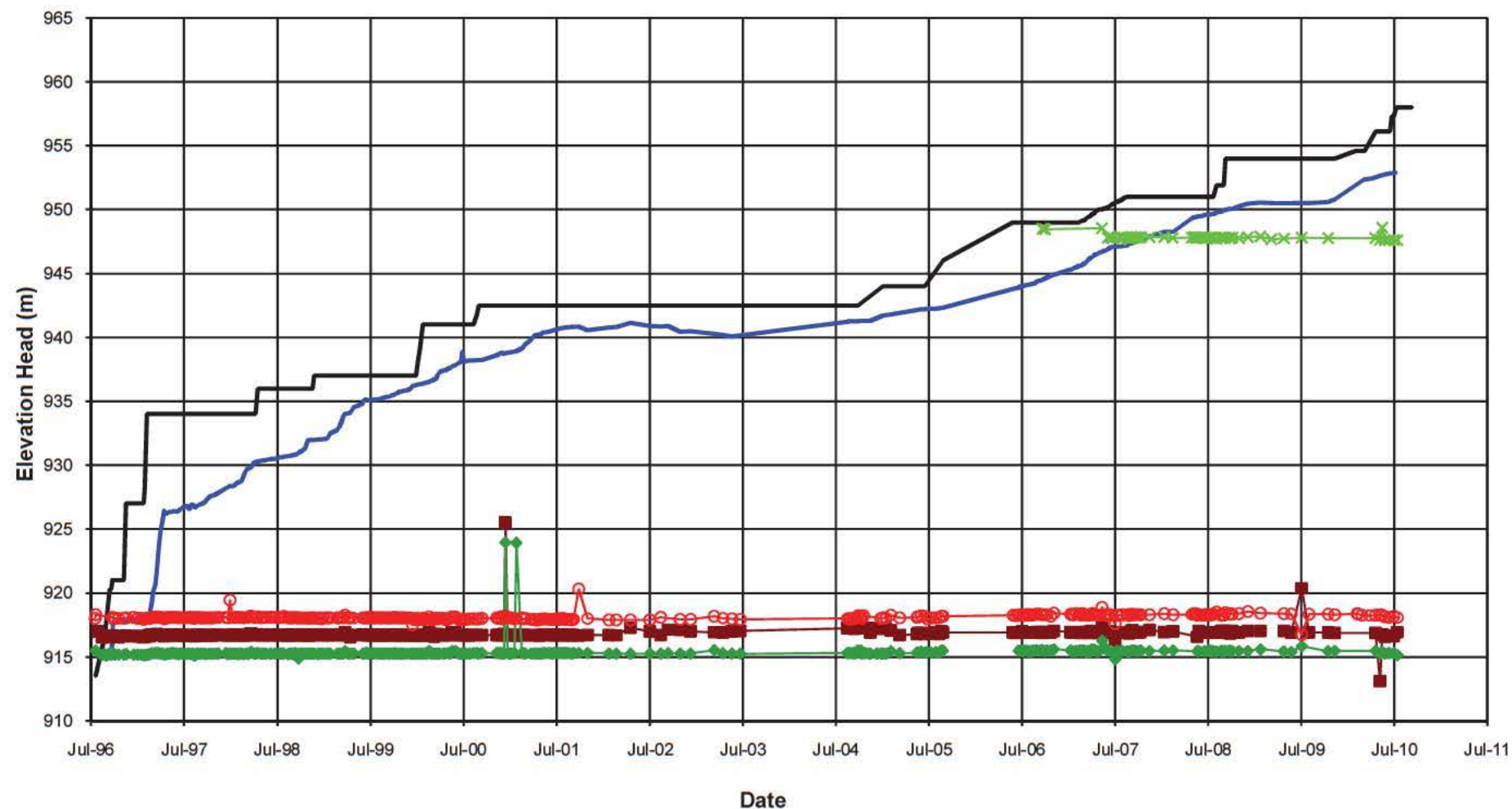
(Pages C4-1 to C4-9)



NOTE:
1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.

MOUNT POLLEY MINING CORPORATION			
MOUNT POLLEY MINE			
PLANE A DRAIN PIEZOMETERS ELEVATION HEAD vs. TIME			
<i>Knight Piésold</i> CONSULTING	P/A NO. VA101-1/29	REF NO. 1	REV 0
	FIGURE C4.1		

0	05OCT10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D



NOTE:
1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.

— Pond Level — Fill Elevation
 ■ B1-PE1-01 ◆ B1-PE1-02
 ○ B1-PE1-03 × B1-PE1-04

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE B DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

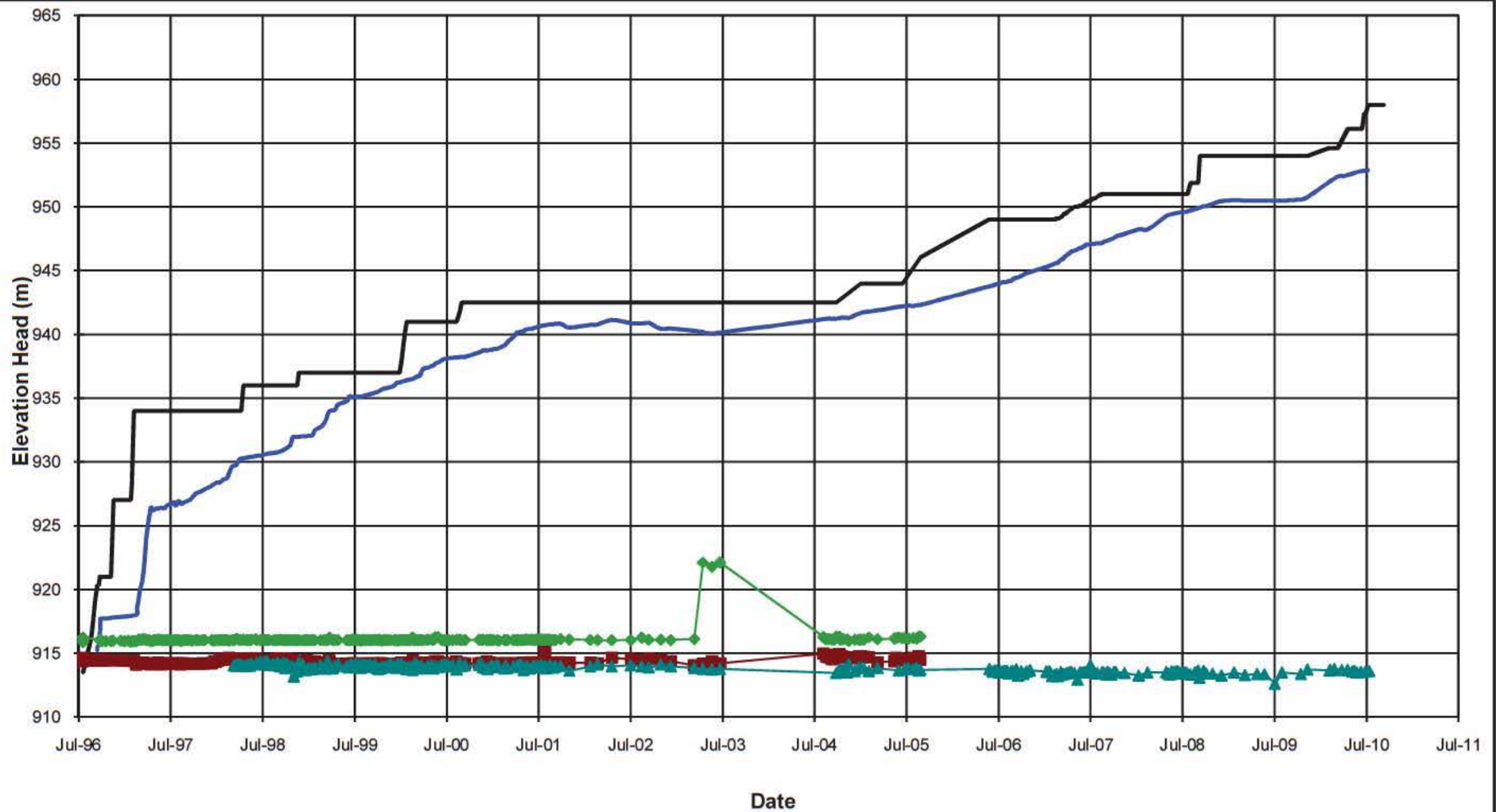
Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
1

FIGURE C4.2

REV
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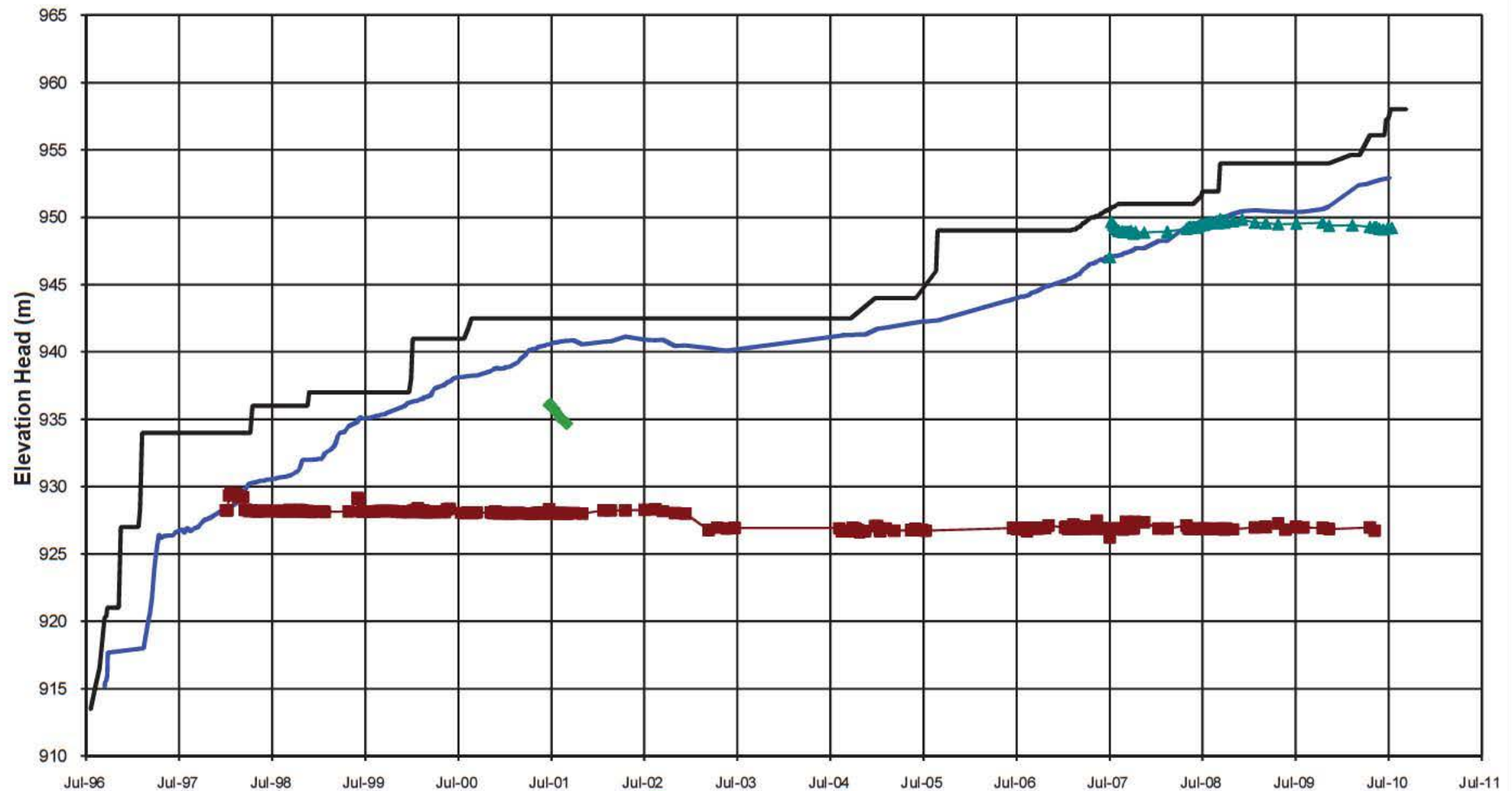
**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

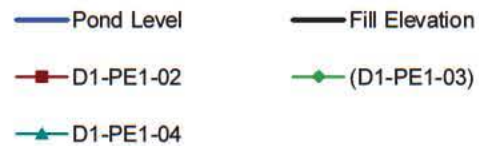
PLANE C DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME*Knight Piésold*
CONSULTINGP/A NO.
VA101-1/29REF NO.
1**FIGURE C4.3**REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.

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REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

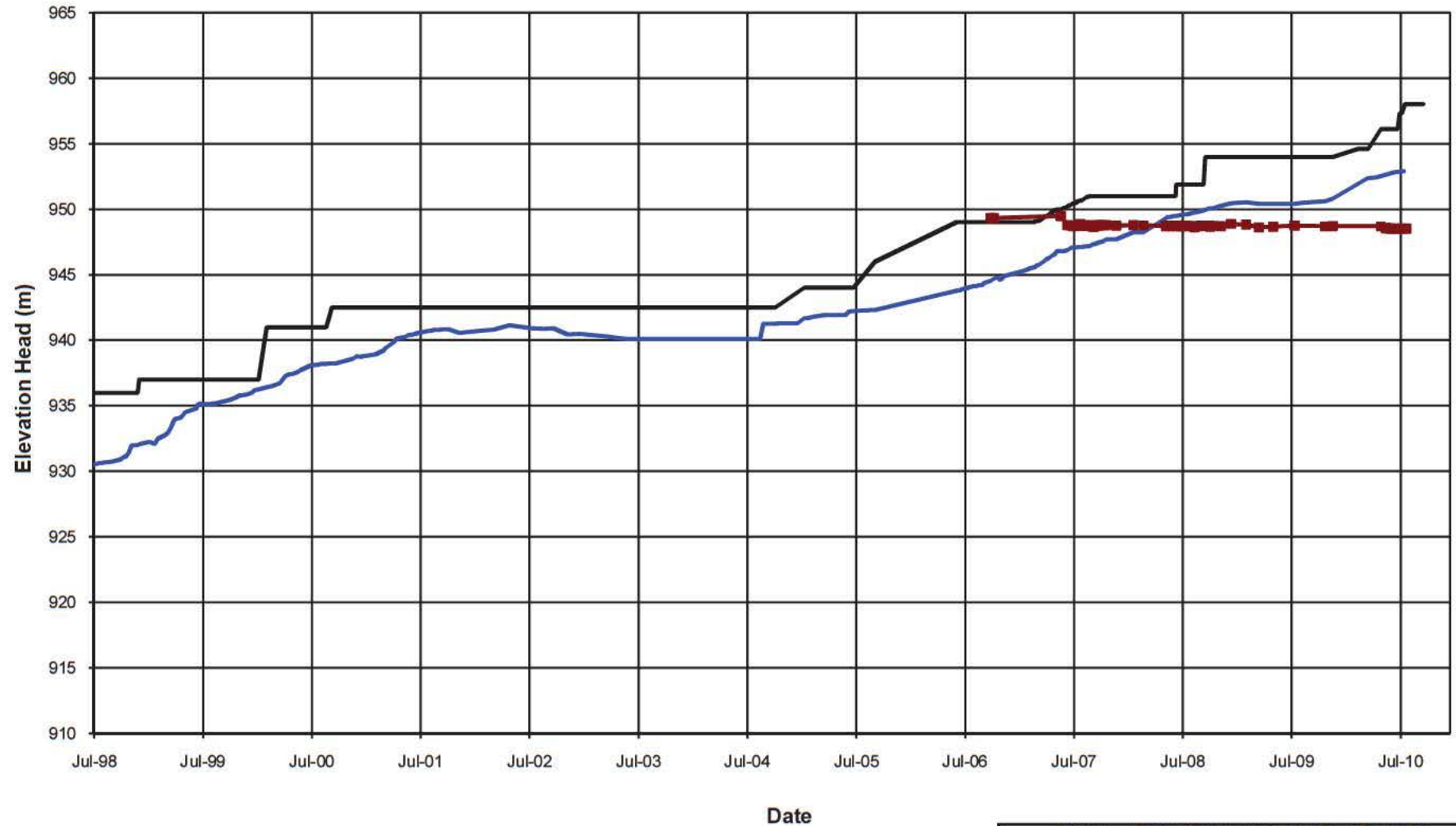
Date



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE D DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME**Knight Piésold**
CONSULTINGP/A NO.
VA101-1/29REF NO.
1**FIGURE C4.4**REV
0

**NOTE:**

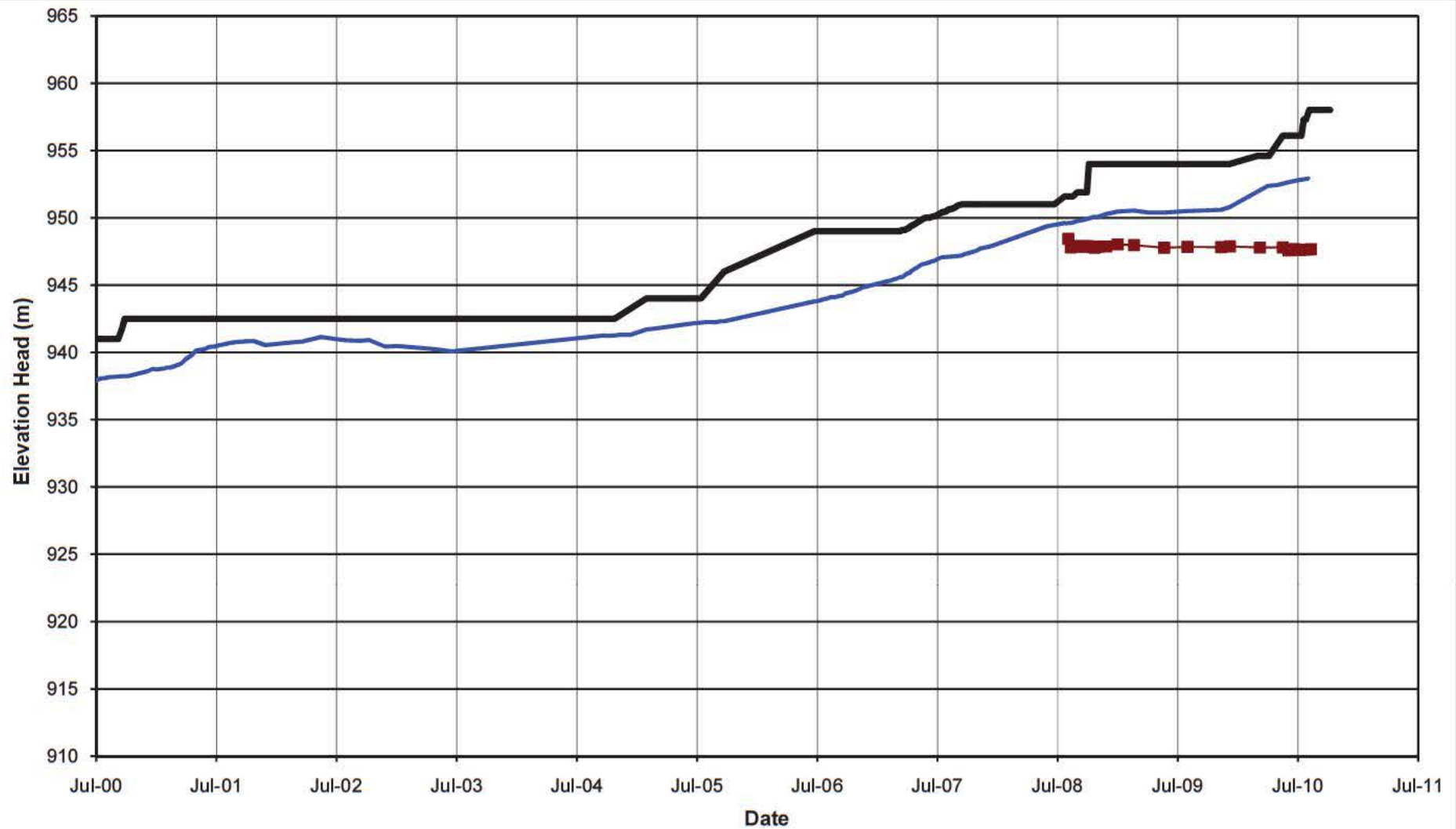
1. PIEZOMETERS IN PARENTHESES NO LONGER

0	05OCT'10	ISSUED WITH REPORT	GL	GU	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE E DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME***Knight Piésold***
CONSULTINGP/A NO.
VA101-1/29REF NO.
1**FIGURE C4.5**REV
0

**NOTE:**

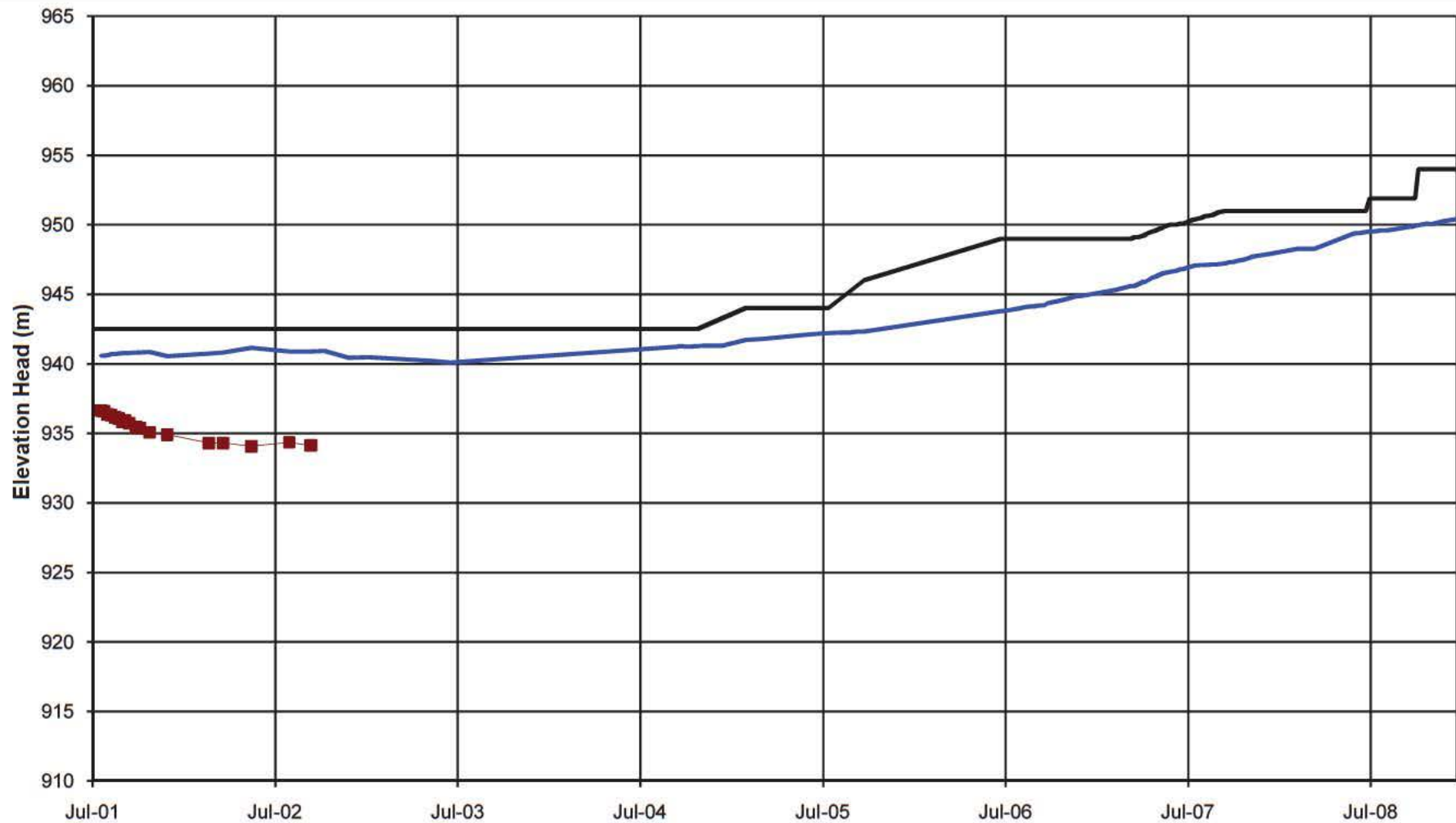
1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.

0	05OCT10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE F DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME***Knight Piésold***
CONSULTINGP/A NO.
VA101-1/29REF NO.
1**FIGURE C4.6**REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.

Date

— Pond Level — Fill Elevation
 ■ (G1-PE1-01)

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE G DRAIN PIEZOMETERS
 ELEVATION HEAD vs. TIME

Knight Piésold
 CONSULTING

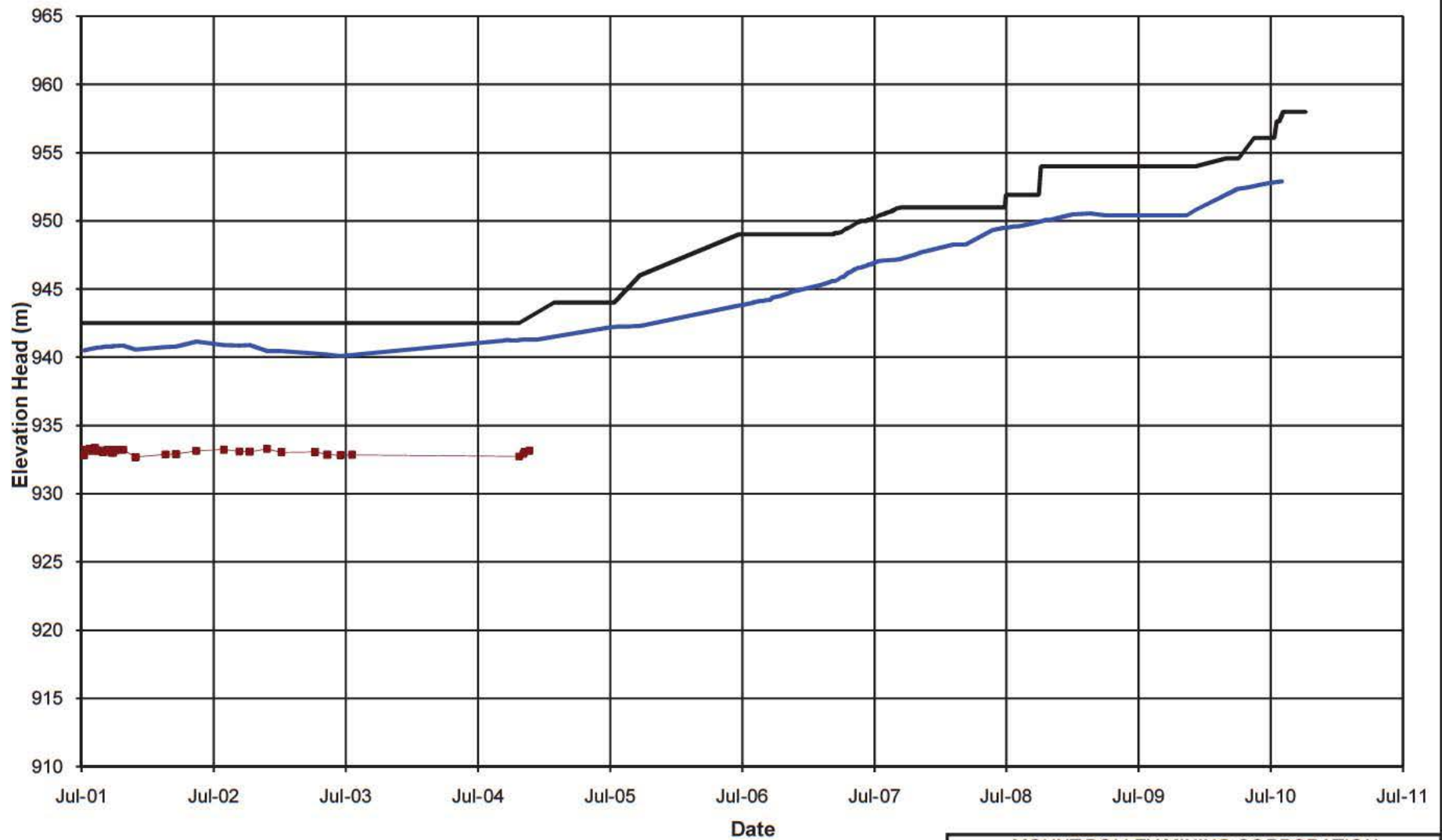
P/ANO.
 VA101-1/29

REF NO.
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FIGURE C4.7

REV
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0	05OCT10	ISSUED WITH REPORT	GL	GU	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

**NOTE:**

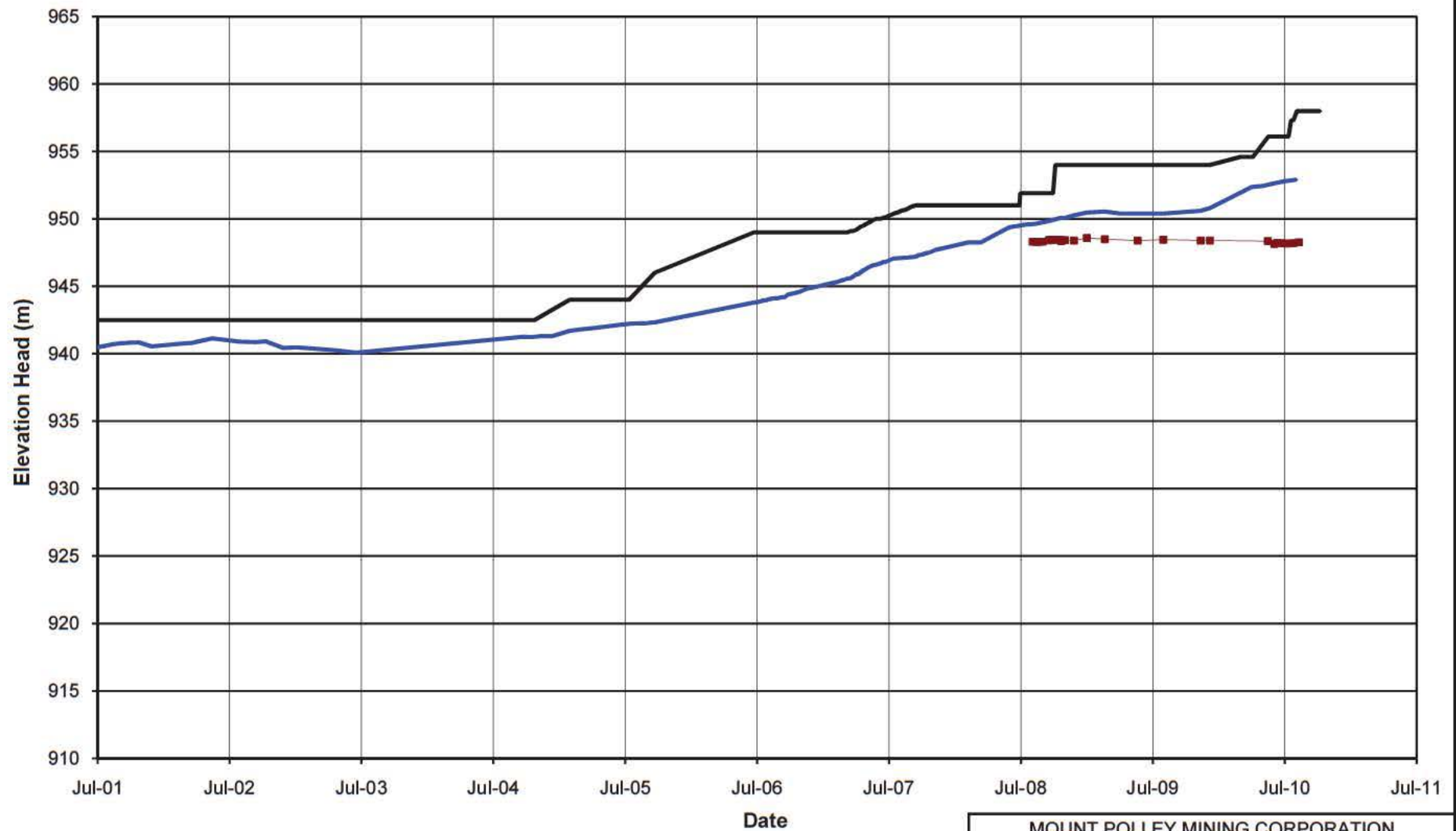
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0	05OCT'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE H DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME***Knight Piésold***
CONSULTINGP/A NO.
VA101-1/29REF NO.
1**FIGURE C4.8**REV
0

**NOTE:**

1. PIEZOMETERS IN PARENTHESES NO LONGER FUNCTIONING.

0	05OCT'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

MOUNT POLLEY MINING CORPORATION

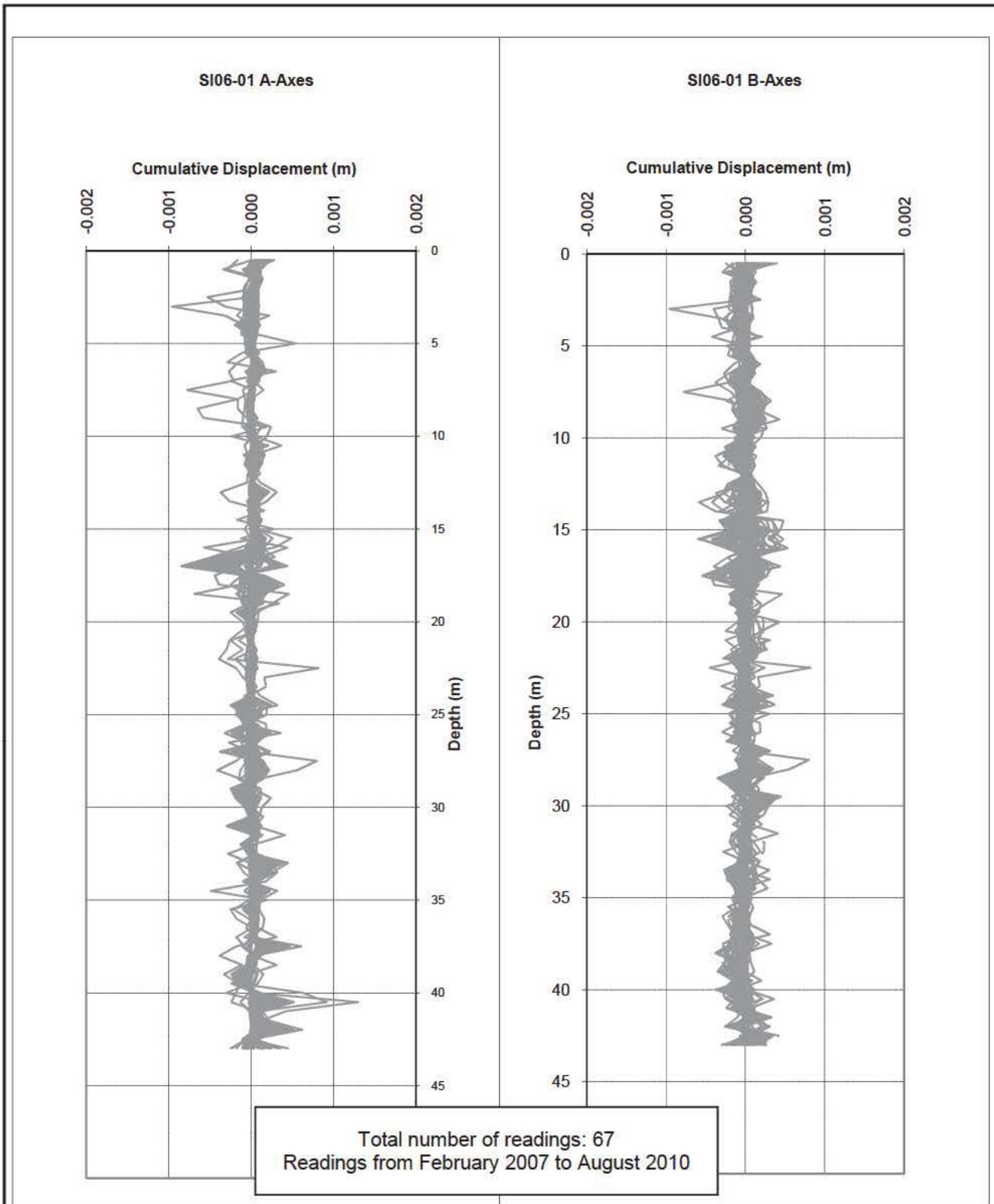
MOUNT POLLEY MINE

PLANE I DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME***Knight Piésold***
CONSULTINGP/A NO.
VA101-1/29REF NO.
1**FIGURE C4.9**REV
0

APPENDIX D

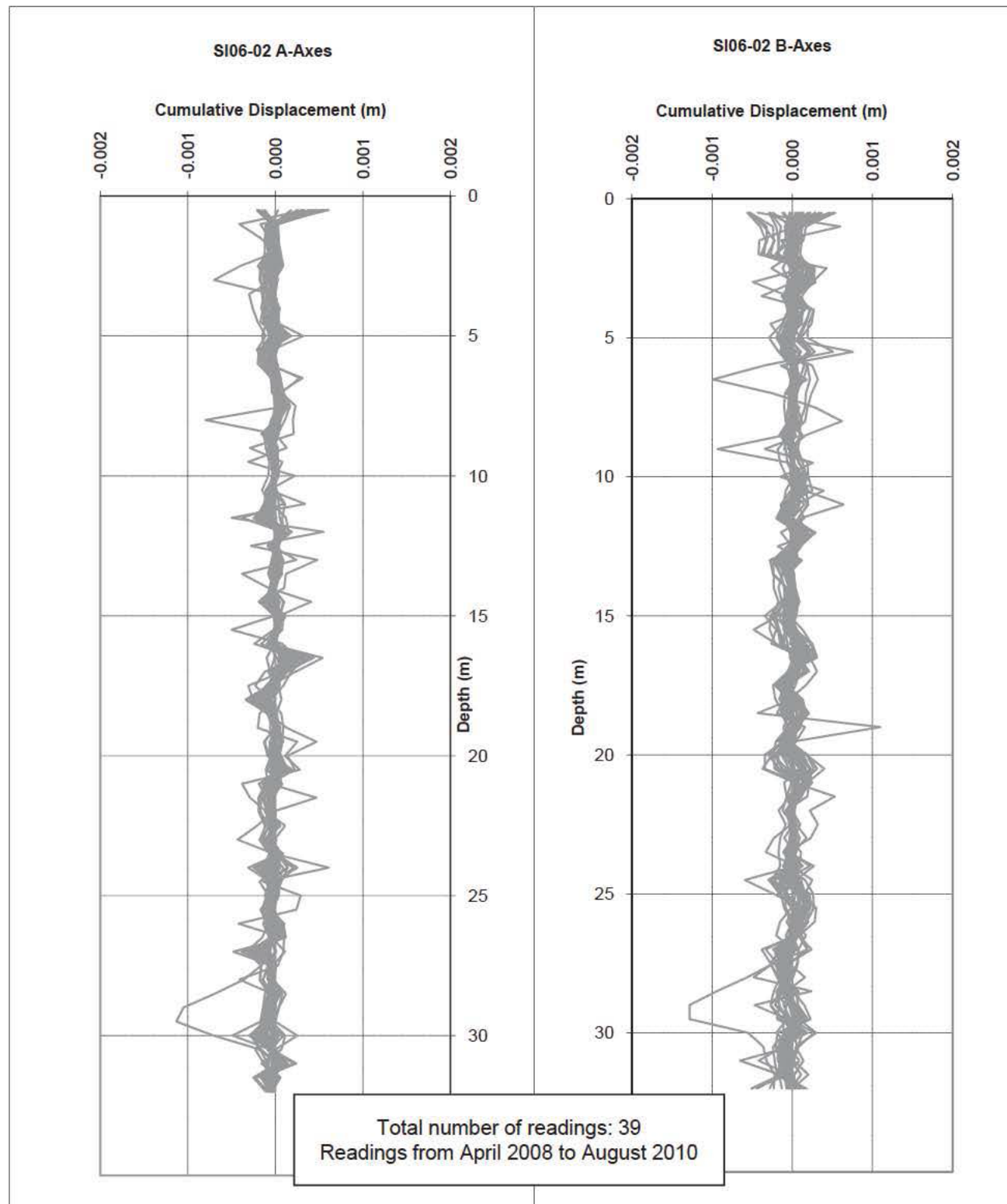
INCLOMETER DATA

(Pages D-1 to D-4)



MOUNT POLLEY MINING CORPORATION					
MOUNT POLLEY MINE					
TAILINGS STORAGE FACILITY STAGE 6B					
DOWN HOLE INCLINOMETER					
CUMULATIVE DISPLACEMENT SI06-01					
<i>Knight Piésold</i> CONSULTING		P/A NO. VA101-1/29		REF NO. 1	
		INVESTIGATIONS		REV 0	
0	08OCT'10	ISSUED WITH REPORT	VJG	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

FIGURE D1



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

**TAILINGS STORAGE FACILITY STAGE 6B
DOWN HOLE INCLINOMETER
CUMULATIVE DISPLACEMENT SI06-02**

Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

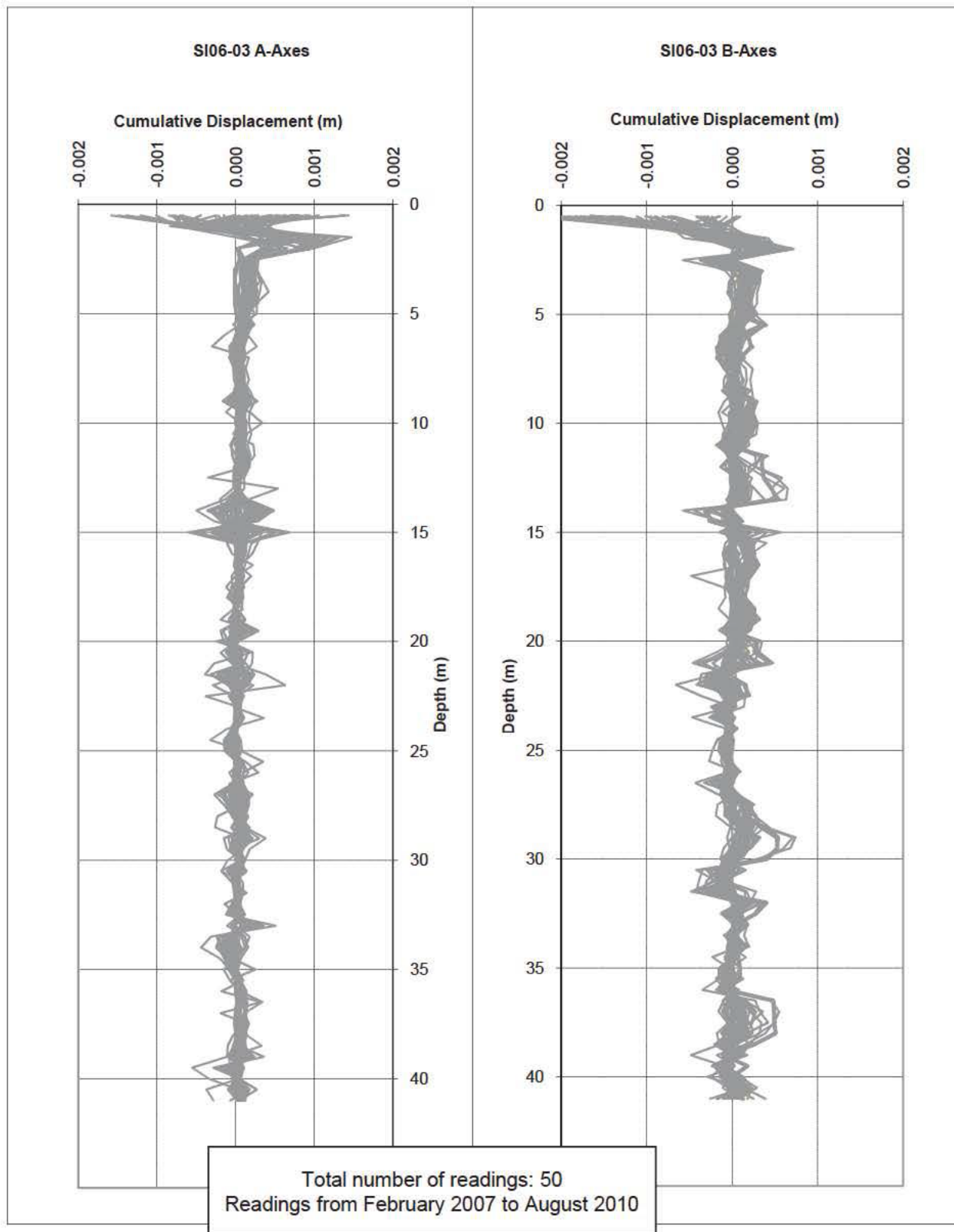
REF NO.
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0	08OCT'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

INVESTIGATIONS REPORT Page 002 of 500

FIGURE D2

REV
0



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY STAGE 6B

DOWN HOLE INCLINOMETER

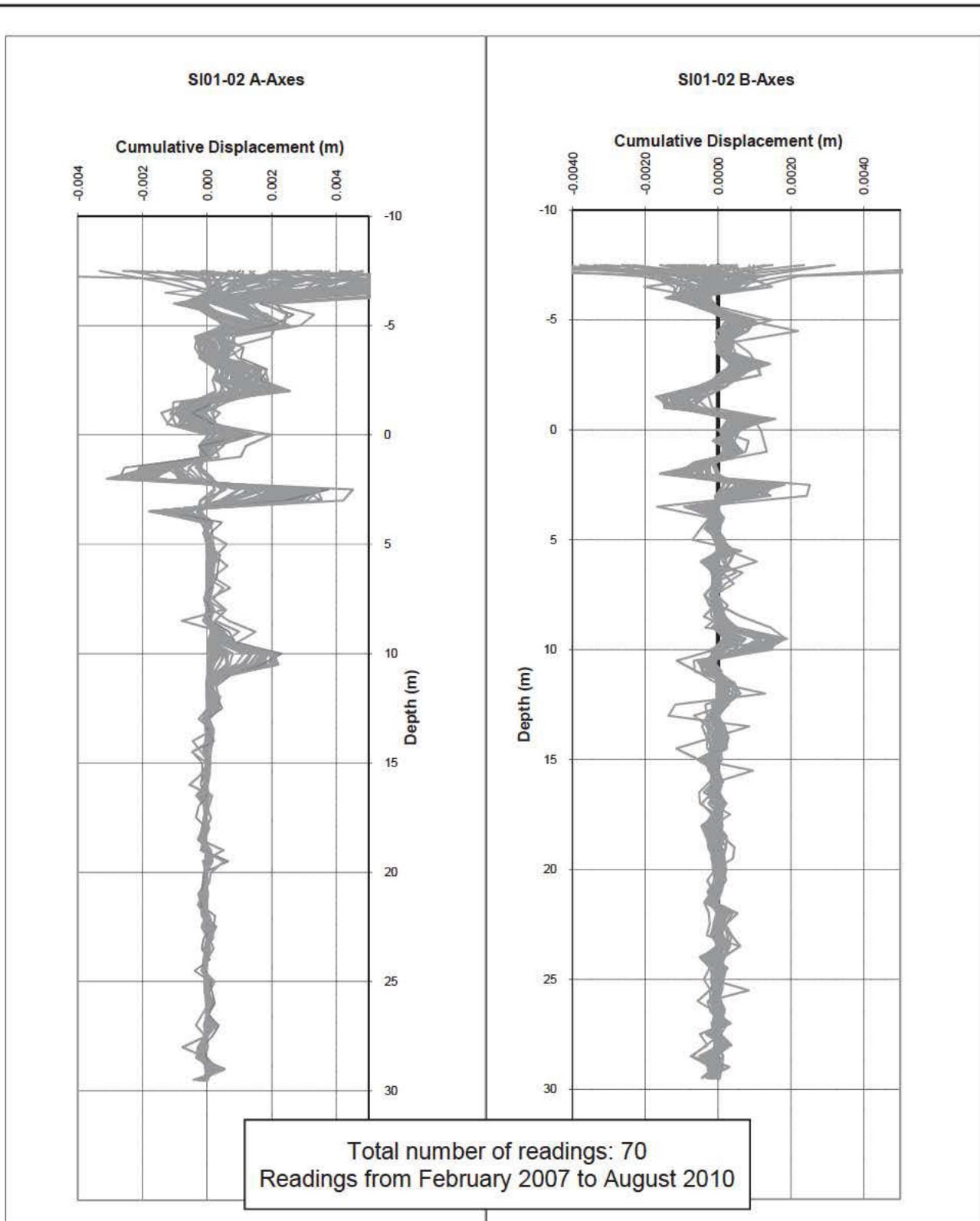
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Knight Piésold
CONSULTINGP/A NO.
VA101-1/29REF NO.
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0	08OCT'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

INVESTIGATIONS REPORT Page 4 of 500

FIGURE D3REV
0



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

**TAILINGS STORAGE FACILITY STAGE 6B
DOWN HOLE INCLINOMETER
CUMULATIVE DISPLACEMENT SI01-02**

Knight Piésold
CONSULTING

P/A NO.
VA101-1/29

REF NO.
1

0	08OCT'10	ISSUED WITH REPORT	GL	GIJ	KJB
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

INVESTIGATIONS **FIGURE D4** REV 0

APPENDIX E

PHOTOGRAPHS

(Pages E-1 to E-12)



PHOTO 1 – View of Mount Polley Tailings Storage Facility from the Pond Zone Open Pit



PHOTO 2 – Sand cell construction on the Perimeter Embankment

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 3 – Haulage of till material from the Perimeter Embankment borrow pit



PHOTO 4 – Placement of till material on the Main Embankment

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 5 – Compaction of till material on the Perimeter Embankment



PHOTO 6 – Control sampling of the till material at the Perimeter Embankment borrow pit

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 7 – Density testing of Zone S using a nuclear densometer on the South Embankment



PHOTO 8 – Placement of Zone F filter material on the Perimeter Embankment

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 9 – Placement of Zone F filter material on the South Embankment



PHOTO 10 – Compaction of Zone F filter material on the South Embankment

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 11 – Record sampling of the Zone F filter material on the Perimeter Embankment



PHOTO 12 – Placement of Zone T transition material on the South Embankment

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 13 – Compaction of Zone T transition material on the South Embankment



PHOTO 14 – Zone C NAG waste rock hauled to the Main Embankment using the mine fleet

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 15 – Zone C NAG waste rock material placed in 2 m lifts



PHOTO 16 – Construction of Zone U waste rock berm for future sand cell construction on the Perimeter Embankment

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 17 – Placement of Zone U material on the Main Embankment using the mine fleet



PHOTO 18 – Toe drain extension on the South Embankment abutment

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 19 – Tailings beach piezometers on the Perimeter Embankment



PHOTO 20 – Reclaim barge

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 21 – Main Embankment seepage pond



PHOTO 22 – Inclinometer measurements
on the Main Embankment

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**



PHOTO 23 – Mount Polley Mine Flyover, 2010.

**MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE**

APPENDIX F

DESIGN MODIFICATIONS

(Pages F-1 to F-5)

FILE NO.: 2010-001

DATE: 18-Feb-10

**REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION**

PROJECT: Mt. Polley - Stage 6b Construction

PROJECT NO.: 101-0001/29

AREA OF WORK: South Embankment 1+000 to corner 3 1+550

GENERAL DESCRIPTION OF PROPOSED WORK:

MPMC would like to replace Zone U fill with sand cell construction below elevation 954.6m.

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets: 2

Reference Drawings / Clauses: See drawing 235


Signed:

Originator: Mark Smith, EIT

FOR VANCOUVER OFFICE USE

Date Received: Feb 18/10

Proposed change / substitution not approved: _____

approved as submitted: 

approved as amended: _____

No. of sheets attached: _____ (amendments only)

Signed:

Engineer: 

Director: 

Date Returned: Feb 26/10

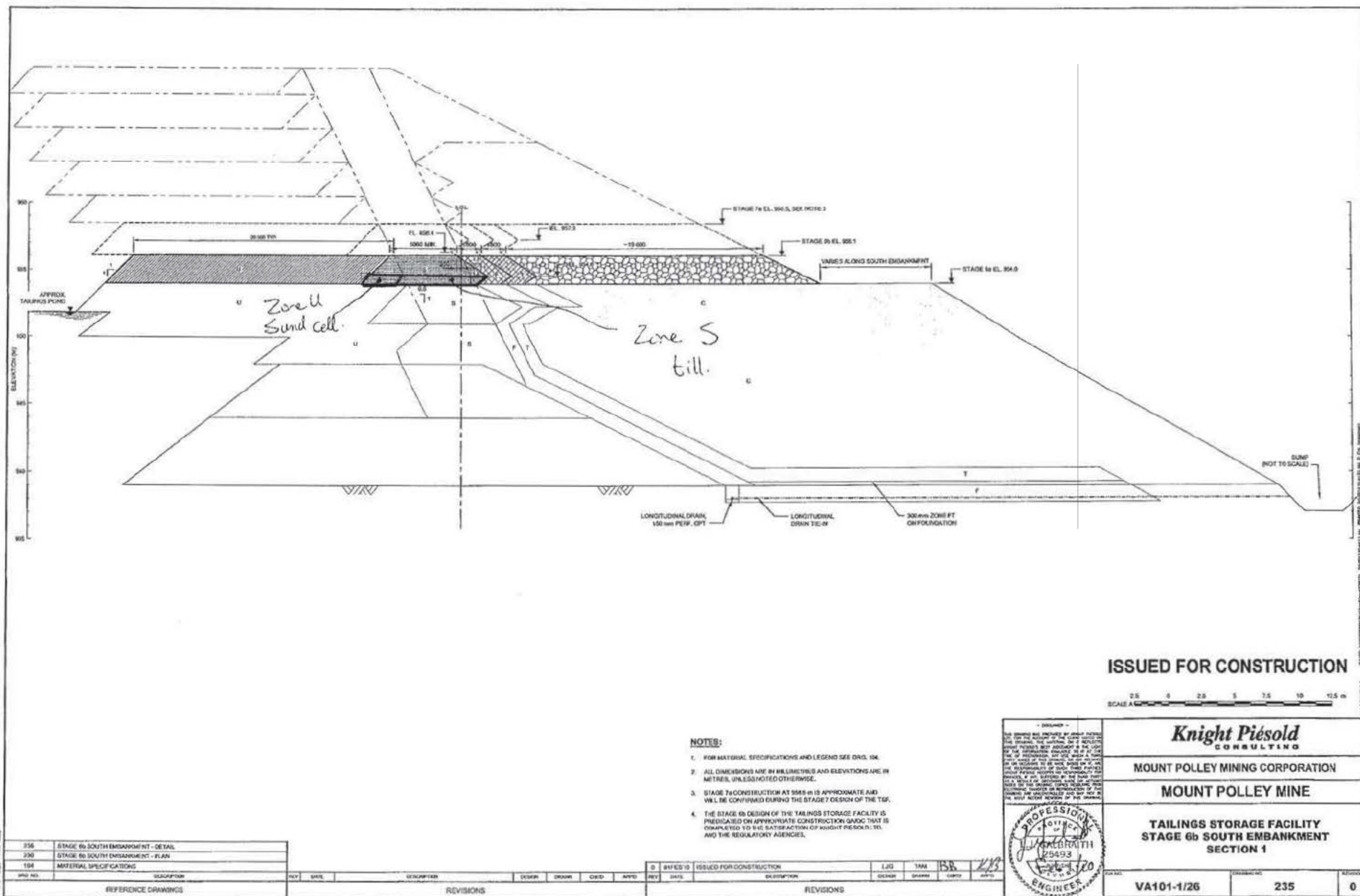
Knight Piesold Ltd.

1400 - 750 West Pender Street
Vancouver, B.C. V6C 2T8
Phone: (604) 685-0543
Fax: (604) 685-0147

Notes:

1. Originator to keep a copy of all submissions and attachments.
2. Vancouver office to keep a file copy of completed request form with attachments, marked up as described above.

FORM F - 3



FILE NO.: 2010-002DATE: 30-Mar-10**REQUEST FOR APPROVAL BY DESIGN OFFICE
OF CHANGE / SUBSTITUTION**PROJECT: Mt. Polley - Stage 6b ConstructionPROJECT NO.: 101-0001/29AREA OF WORK: All embankments**GENERAL DESCRIPTION OF PROPOSED WORK:**

MPMC would like to replace The remainig Stage 6b and all stage 7a Zone U till with mine waste rock. The new design will have the Zone u constructed prior to till placment.

Please review the proposed change / substitution as per the attached sheets.

No. of Sheets: 2Reference Drawings / Clauses: See drawing 226Signed: Mark SmithOriginator: Mark Smith, EIT**FOR VANCOUVER OFFICE USE**Date Received: 30 March 2010

Proposed change / substitution not approved: _____

approved as submitted: _____

approved as amended: YesNo. of sheets attached: 3 (amendments only)

Signed: _____

Engineer: CosDirector: MamiDate Returned: 1 April 2010**Knight Piesold Ltd.**

1400 - 750 West Pender Street
Vancouver, B.C. V6C 2T8
Phone: (604) 685-0543
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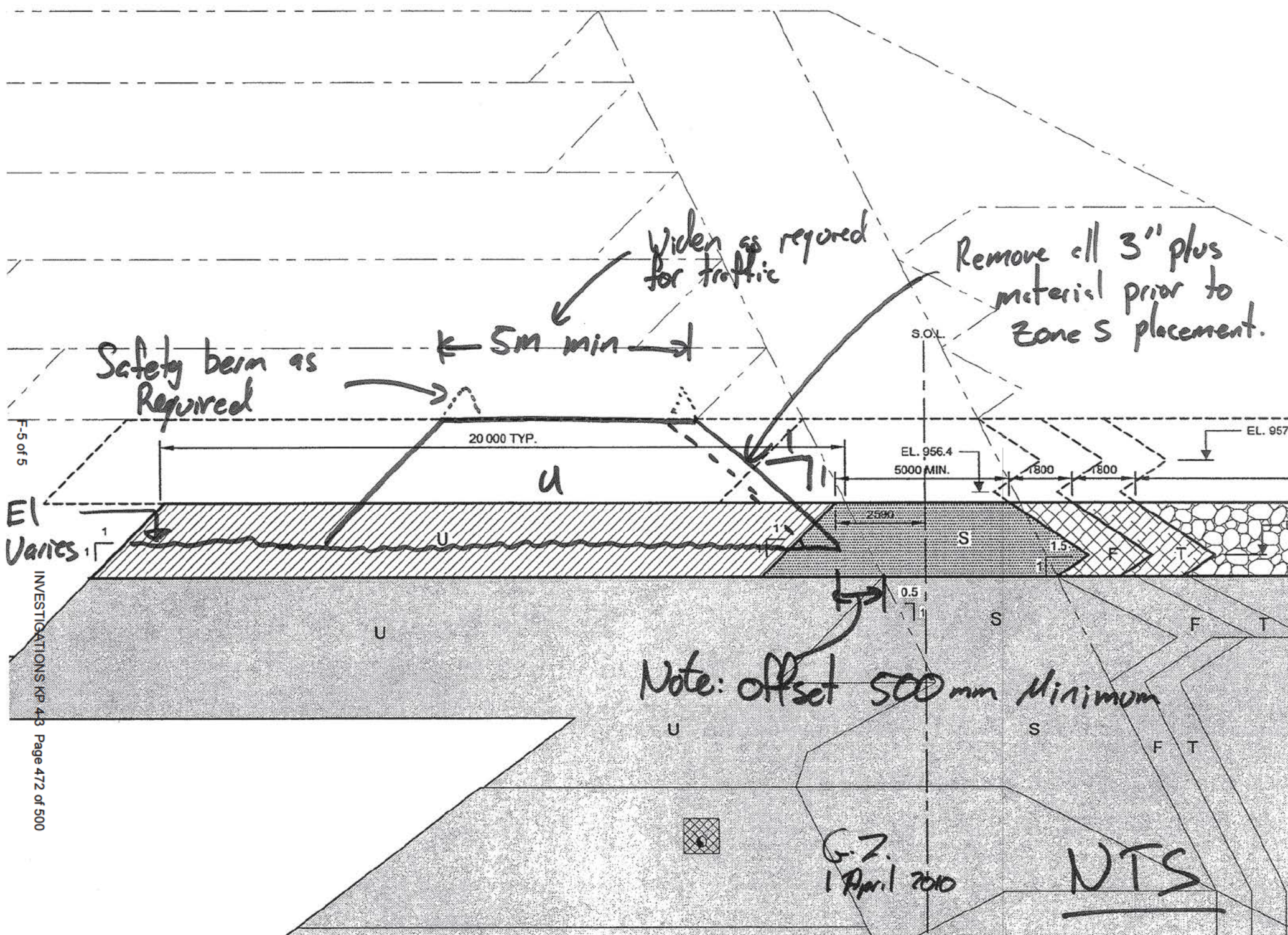
The design change to use waste rock for a reduced width zone U is approved with amendments. The amendments are shown on the attached sketch and summarized as follows.

- Maintain a minimum 5m crest width of zone U. Increase zone U crest width as required for haul traffic.
- Place and compact zone U as for zone C. Place in 2m lift max, compaction by haul traffic.
- Maintain a slope of 1H:1V or flatter on the zone U to zone C interface.
- Remove all particles larger than a coarse gravel, (+75mm or +3") from the interface between zone U and zone C.

The following comments address constructability of the revised zone U.

- Zone S should not be used for equipment traffic. The zone S material does not have sufficient strength or durability for heavy construction equipment traffic. Traffic on the zone S will result in damage to placed material. The zone S damage may include rutting and deformation. Damaged zone S material will need to be removed and replaced.
- Zone U waste rock will have sufficient strength and durability for heavy construction traffic. Use of zone U for construction traffic will need to meet the 'Health, Safety and Reclamation Code for Mine in BC'.

G-2. 1 April 2010



TRANSMITTAL

Suite 1400 - 750 West Pender Street
Vancouver, BC V6C 2T8
Tel: 604.685.0543
Fax: 604.685.0147

TO: Imperial Metals Corporation
200 - 580 Hornby Street
Vancouver, BC V6C 3B6

DATE: January 28, 2011

FILE NO.: VA101-1/29-A.01

ATTENTION: Mr. Ron Martel

CONT. NO.: VA11-00249

RE: 2010 Engineering Support for Mount Polley Mine

ITEM NO.	DESCRIPTION
1.	7 Copies (Copy No # 1 – 7) Report: MOUNT POLLEY MINING CORPORATION MOUNT POLLEY MINE TAILINGS STORAGE FACILITY REPORT ON STAGE 6B CONSTRUCTION VA101-1/29-1 Rev 1 January 25, 2011.
2.	7 Copies (Copy No # 1 -7) Report: MOUNT POLLEY MINING CORPORATION MOUNT POLLEY MINE TAILINGS STORAGE FACILITY REPORT ON 2010 ANNUAL INSPECTION VA101-1/29-2 Rev 1 January 25, 2011.

REMARKS: To be forwarded to Ron Martel by Imperial Metals Corp. to the Likely Mount Polley Mining Corporation address.

Signed:

N. Sheridan
Nicola Sheridan

Approved:

Greg Johnston
Greg Johnston

TRANSMITTAL

Suite 1400 - 750 West Pender Street
Vancouver, BC V6C 2T8
Tel: 604.685.0543
Fax: 604.685.0147

TO: Mount Polley Mining Corporation
P.O. Box 12
Likely, BC V0L 1N0

DATE: January 31, 2011

FILE NO.: VA101-1/29-A.01

ATTENTION: Mr. Ron Martel

CONT. NO.: VA11-00257

RE: 2010 Engineering Support for Mount Polley Mine

ITEM NO.	DESCRIPTION
1.	<u>1 CD – 2 PDF Files:</u> MOUNT POLLEY MINING CORPORATION MOUNT POLLEY MINE TAILINGS STORAGE FACILITY REPORT ON STAGE 6B CONSTRUCTION VA101-1/29-1 Rev 1 January 25, 2011 MOUNT POLLEY MINING CORPORATION MOUNT POLLEY MINE TAILINGS STORAGE FACILITY REPORT ON 2010 ANNUAL INSPECTION VA101-1/29-2 Rev 1 January 25, 2011

REMARKS:

Signed: *Nash Sheridan*
Nicola Sheridan

Approved: *Nash Sheridan*
for Greg Johnston