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ATTENTION: Mr. Ron Martel

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RE: Stage 6 TSF Construction

ITEM NO.	DESCRIPTION
1.	4 Copies (Copy No.'s 1 – 4) – Report: MOUNT POLLEY MINING CORPORATION MOUNT POLLEY MINE TAILINGS STORAGE FACILITY REPORT ON STAGE 6A CONSTRUCTION (REF. NO. VA101-1/23-1) Rev 0 July 10, 2009

REMARKS:

Signed: Ben Bayada

Approved: Mark Smith

Copy To: Al Hoffman (Ministry of Energy, Mines & Petroleum Resources) – 1 Copy (Copy No. 5)
Don Parsons (Imperial Metals) – 1 Copy (Copy No. 6)

CIRIT # 4530

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
REPORT ON STAGE 6A CONSTRUCTION

PREPARED FOR

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

PREPARED BY

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VA101-1/23-1
Rev 0
July 10, 2009

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MOUNT POLLEY MINING CORPORATION
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REPORT ON STAGE 6A CONSTRUCTION
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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
REPORT ON STAGE 6A CONSTRUCTION
(REF. NO. VA101-1/23-1)

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 had milled approximately 27.5 million tonnes of ore prior to stopping production in October 2001. Mount Polley Mine upgrading the mine facilities in the second half of 2004 and started production again in March 2005.

The current mill throughput is approximately 20,000 tpd with the tailings material deposited as slurry in the Tailings Storage Facility (TSF). There was an estimated 50 mt of tailings deposited in the TSF at the end of 2008. The Mount Polley Mine TSF consists of three embankments; the Main Embankment, Perimeter Embankment, and the South Embankment. The Stage 6a construction program called for raising the embankments by 3 m to an elevation of 954 m.

The Stage 6a TSF construction program at Mount Polley Mine commenced in May 2008 and was completed in October of 2008. Earthworks for the Stage 6a Tailings Storage Facility construction program comprised the following zones and materials:

- Zone S: Fine grained glacial till.
- Zone U: Upstream shell zone – produced from coarse tailings in sand cells, or from hauling sand from a local borrow area.
- Zone F: Filter, drainage zones, and chimney drain - processed gravel and sand.
- Zone T: Transition filter zone - select well-graded fine-grained rockfill.
- Zone C: Downstream shell zone – rockfill.
- Zone FT: Filter layer above the downstream foundation till- sand from local borrow.
- Zones S, F and T were raised to 954 m, Zones C and U vary in elevation around the embankment between 951.3 and 954 m.

The results of the technical supervision and QA/QC testwork indicate that the fill materials placed and compacted on the tailings embankments were within the required material specifications and were in accordance with the Stage 6a design of the TSF.

A total of five new piezometers were installed during the Stage 6a construction program; the total number of functioning piezometers at the TSF is 68. The results of the instrumentation monitoring show that no unexpected or anomalous pore pressures have developed.

No new inclinometers were installed during Stage 6a. There are currently four operating inclinometers at the Main Embankment. There have been no significant deviations in any of the inclinometer casings installed. However, inclinometer SI01-02 is showing slight deviations at an approximate depth of 10 m

below original ground in the lacustrine silts. This is being closely monitored by MPMC and Knight Piésold. Recommended action involves increasing the monitoring frequency of the inclinometers and increasing the current buttress elevation at the Main Embankment.

The monitoring frequency of the vibrating wire piezometers and inclinometers was completed as outlined in the Operations and Maintenance Manual. The tailings pond elevation is monitored on a weekly basis to ensure that the stormwater and freeboard requirements are maintained during operations.

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MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
REPORT ON STAGE 6A CONSTRUCTION
(REF. NO. VA101-1/23-1)

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MOUNT POLLEY MINING CORPORATION
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TAILINGS STORAGE FACILITY
REPORT ON STAGE 6A CONSTRUCTION
(REF. NO. VA101-1/23-1)

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 upgrading the mine facilities in the second half of 2004 and started production again in March 2005.

The resource at Mount Polley Mine is developed using open pit mining methods, with the Bell Pit, Springer Pit, Wight Pit, and the Southeast Zone being mined or developed in 2008. The mining of the Bell Pit was completed in September 2008. 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 50 million tonnes as of the end of 2008. 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 6a construction program for the TSF, which involved raising the crest of the TSF embankments to an elevation of 954 m, an increase of 3 m from the previous Stage 5 elevation of 951 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 6a construction program.

SECTION 2.0 - STAGE 6A CONSTRUCTION REPORT

2.1 GENERAL

The TSF at Mount Polley includes the Main, Perimeter and South Embankments. The Stage 6a construction program involved raising the TSF embankments to an elevation of 954 m, an increase in 3 m from the Stage 5 crest elevation of 951 m. The heights of the TSF embankments corresponding to a crest elevation of 954 m are approximately 41 m, 23 m, and 13 m for the Main, Perimeter and South Embankments, respectively. The TSF Stage 6a plan, material specifications, and sections for the Main, Perimeter, and South Embankments are shown on the following drawings:

- VA101-1/18-210 Rev 2: Stage 6 Main Embankment - Plan
- VA101-1/18-215 Rev 2: Stage 6 Main Embankment – Section
- VA101-1/18-216 Rev 1: Stage 6 Main Embankment – Detail
- VA101-1/18-220 Rev 2: Stage 6 Perimeter Embankment – Plan
- VA101-1/18-225 Rev 2: Stage 6 Perimeter Embankment – Section
- VA101-1/18-226 Rev 1: Stage 6 Perimeter Embankment – Detail
- VA101-1/18-230 Rev 2: Stage 6 South Embankment – Plan
- VA101-1/18-235 Rev 2: Stage 6 South Embankment – Section 1, and
- VA101-1/18-236 Rev 1: Stage 6 South Embankment – Section 2.

The Stage 6a construction program began in May 2008 and was completed in late October 2008. Select photographs of the construction program are included in Appendix E. Zones S, F and T were raised to an elevation of 954 along the entire length of the dam. The elevation of Zones U and C vary from 951.3 to 954 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 S: Core zone – fine grained low permeability glacial till.
  - Zone U: Upstream shell zone – produced from coarse tailings in sand cells, or from hauling sand from a local borrow area.
  - 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 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 6a 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 6A EARTHWORKS

2.4.1 General

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

- Zone S
- Zone U
- Zone F
- Zone T
- Zone C, and
- Zone FT.

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

2.4.2 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 6a construction program was sourced from Borrow Area 3, located downstream of the Main Embankment, and from a newly developed borrow located downstream of the Perimeter Embankment. The location of the borrow areas is 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 nine Zone S Record samples were collected and tested during the Stage 6a construction program. The Record test results indicate that the well graded Zone S material is typically comprised of silt and sand with some gravel and some clay. The Record test results for the Zone S material are presented in Appendix A1 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 8.9 to 13.6 percent, with an average of 10.7 percent. The Standard Proctor Maximum Dry Density ranged from 2,070 to 2,150 kg/m^3, with an average of 2,096 kg/m^3. The plastic limits ranged from 14.1 to 19.1 percent, with an average of 15.8 percent. The liquid limits ranged from 18.3 to 27.2 percent, with an average of 22.5 percent. The plasticity index ranged from 3.7 to 8.5 percent, with an average of 6.7 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.

An additional 1170 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. The compacted dry density ranged from 1990 to 2,244 kg/m^3, with an average of 2,059 kg/m^3. The

compacted moisture content ranged from 5.2 to 14.2%, with an average of 10.0%. The percent compaction, as compared to the average Standard Proctor Maximum Dry Density from the Control Record testwork, ranged from 95.0 to 107.1%, with an average of 98.1%. 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.

2.4.3 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 principally constructed using sand cells along the embankments. 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. Photographs showing the construction of the sand cells are included in Appendix E.

Lab testing was performed on three Zone U record samples to determine Particle Size Distributions (ASTM D422) and Maximum Dry Densities. The lab results are included in Appendix A3 and are summarized in Table 2.3. The Record tests were performed on Zone U material placed using the sand cell construction method. The results show that the Zone U material produced using the sand cell construction method was predominantly comprised of fine sand, with 17 to 45% fines. The gradation curves of the Zone U Record Tests are shown on Figure 2.7.

The Maximum Dry Densities of the Zone U Record Samples ranged from 1,660 to 1,690 kg/m^3. Material specifications required that the Zone U material be compacted to 95% of the Maximum Dry Density, or approximately 1,600 kg/m^3. Nuclear densometer tests performed on the Zone U material at various stages and elevations showed that the 95% compaction requirement was achieved for the Zone U material. The results of the nuclear densometer testing are included in Appendix B2. The compacted dry density ranged from 1,657 to 1,987 kg/m^3, with an average of 1,792 kg/m^3.

2.4.4 Zone F

The Zone F material forms the filter zone immediately downstream of 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.

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 10 control and 58 record tests were performed on Zone F samples during the Stage 6a construction program. The results of the Control and Record tests are shown in Figures 2.8 and 2.9 respectively. The Zone F material is typically comprised of sand and fine gravel, with trace (<10%) fines. A total of 6 of the 58 Record samples and 1 of the 10 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 Wight and Springer Pits. The waste rock was screened to remove the plus six-inch material 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 32 Record Particle Size Analyses were performed during Stage 6a, and the results of these tests are shown in Figure 2.10. 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 the Wight and Springer Pit and Zone C, which 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 Zone C slope at the end of Stage 6a varied for each embankment, but on average was 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 carefully monitored during future construction programs so as to not adversely affect the overall cost of the TSF.

2.4.7 Zone FT

Zone FT material was placed on the prepared and approved original ground surface downstream of the embankments beneath the shell zone. Zone FT provides a filter relationship with the in-situ glacial till in the downstream foundations and provides a horizontal path for any seepage to drain freely. Zone F material meets the Zone FT particle size specifications and thus was used throughout the Stage 6a construction program.

Zone FT was placed in maximum 300 mm thick lifts and was compacted with a ten tonne vibrating drum roller.

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 the Stage 6a construction program 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 accidently misplaced. The second gap occurred from September 22, 2005 to April 30, 2006 and was due to a malfunctioning readout box connecter cable and the accidental destruction or burying of piezometer cables during the Stage 4 construction program.

The following actions were implemented during the Stage 6a construction program to protect the piezometers.

- Steel protective covers were set-up to shield the piezometer readout boxes.
- The new piezometers that had not been extended to the read-out boxes were coiled and placed in five-gallon buckets. The locations were marked with large poles with fluorescent markings.

These measures proved to be effective as no piezometers were destroyed during the Stage 6a construction program. Photos of the protective covers and poles are found in Appendix E.

2.5.1.2 Tailings Piezometers

There are currently 14 functioning tailings piezometers, including three new piezometers installed in the tailings mass during the Stage 6a construction program. 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 6a 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 12 functioning embankment foundation piezometers. No additional embankment foundation piezometers were installed during the Stage 6a construction program. Artesian conditions are present in 3 of the 9 functioning 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). No unexpected high pore pressure increases were noted during the Stage 6a construction program with the artesian pressures ranging from surface to 3.37 m above ground. The artesian head values (above ground surface level) measured in September 2008 are shown on Table 2.4.

Timeline plots of the embankment foundation piezometers are included in Appendix C2. There are no concerns with the embankment foundation piezometers.

2.5.1.4 Embankment Fill Piezometers

There are currently 27 functioning embankment fill piezometers. No additional embankment fill piezometers were installed during the Stage 6a construction program. There have been no significant changes in the trends for most of the embankment fill piezometers. Piezometer A2-PE2-O3, which is located at the Main Embankment, showed a slight increase in pore pressures corresponding to fill placement during the Stage 6a 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 C3. There are no concerns with the embankment fill piezometers.

2.5.1.5 Drain Piezometers

There are currently 15 functioning drain piezometers, including two new piezometers installed during the Stage 6a construction program. 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 an increase in 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 positive 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

There are currently four functioning inclinometers installed downstream of the toe of the Main Embankment. No new inclinometers were installed during the Stage 6a construction program.

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 at an approximate depth of 10 m below original ground level in the lacustrine silts. This is being closely monitored by MPMC and Knight Piésold. Recommended action involves increasing the monitoring frequency of the inclinometers and increasing the current buttress elevation at the Main Embankment. Additional inclinometers may be installed to ensure a continuous record is maintained in the event that the current inclinometers are damaged while the buttress is expanded. The inclinometer data is presented in Appendix D.

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 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 each of the pipes which exits into the concrete sump.

The Stage 6 design of the TSF includes the installation of an upstream toe drain at the South Embankment. The concrete encasement was installed as part of the Stage 6a construction program; the upstream toe drain will be completed in 2009. The lab results for the concrete strength testing are included in Appendix A6.

The water from the foundation drains and upstream toe drains is pumped back into the TSF. The flow rates for the Main and Perimeter Embankment upstream toe drains are shown on Figure 2.11. The flow rates for the foundation drains shown on Figure 2.12. The flows from the upstream toe drains fluctuate in response to the tailings deposition location and the tailings pond location. The flow from the Main Embankment upstream toe drain are typically in the range of 10 to 12 l/s with the flows from the Perimeter Embankment upstream toe drain being

approximately 3 l/s in September 2008. The flows from the upstream toe drains have remained relatively constant, with the total flow increasing due to the commissioning of the Perimeter Embankment upstream toe drain. The water flowing from the upstream toe drains was clear throughout the Stage 6a construction program.

The flows from foundation drains FD-1 to FD-5 at the Maine Embankment remained fairly constant during the Stage 6a construction program at less than 1 l/s. The flows from the foundation drains were clear. The flows at the ME Corner foundation drain have decreased due to the development of a tailings beach in this area and are typically less than 1 l/s.

Samples from the foundation and the upstream toe drains are collected by MPMC for water quality testing. The results are available from MPMC and are reported in the Annual Environmental Reports.

2.6 DESIGN MODIFICATIONS

Knight Piésold Ltd. employs a strict 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.

The design modifications for the Stage 6a construction program included the following:

The configuration of the Zone S, Zone F and Zone T was modified at the request of MPMC. The approved design is shown on Drawings and involves constructing the filter zones at a flatter slope to facilitate the placement of the filter materials downstream of the Zone S material. The design filter gradation requirements for the embankments were not affected by the design change.

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 m^3 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 - SITE INVESTIGATION PROGRAMS

A drilling program was conducted in May 2008 at the Mount Polley Mine to investigate a potential borrow area located downstream of the Perimeter Embankment. A sonic drill rig operated by the Mud Bay Drilling Company was contracted to conduct the overburden drilling and 11 holes were completed across the borrow area. A Knight Piésold engineer was on site to log and sample the overburden.

The sonic drill rig utilizes high frequency sonic vibrations to "cut" through overburden and rock without requiring the use of water for cooling the drill bits or to facilitate the movement of drill rods through the overburden. This style of drilling allows for continuous overburden coring with near 100% recovery.

Eleven drillholes spaced approximately 200 m apart were completed to depths of 11 m to 24 m. A summary of the drillholes is shown on Table 3.1. The location of the drillholes is shown on Figure 3.1.

Three main soil units were identified in the proposed borrow area:

- **Glacial Till:**
  - The glacial till is generally comprised of sandy silt to silty sand, with trace to some clay and trace to some gravel. The till is typically moist, very dense, highly plastic, poorly sorted and massive. The till varies in colour from brown to grey-brown to grey. The till is a suitable construction material for the embankment Zone S core.
- **Sand and Gravel:**
  - Well sorted sand and gravel that has low plasticity, is very compact and dry.
- **Lacustrine Sediments:**
  - The lacustrine sediments typically occur as poorly sorted fine sands and silts with trace clay. They have low to moderate plasticity and are typically moist to wet, very dense and massive. The lacustrine sediments occurred as thin lenses within the till units, or as thick deposits underlying the till.

The overburden logs for each drillhole are included in Appendix F.

Geologic sections of the borrow area located downstream of the Perimeter Embankment are shown on Figures 3.2 to 3.4.

SECTION 4.0 - SUMMARY AND RECOMMENDATIONS

Stage 6a of the Mount Polley Mine Tailings Storage Facility was constructed between May 2008 and October 2008. The Stage 6a construction program involved raising the TSF embankments to an elevation of 954 m, a 3 m increase in elevation from the Stage 5 crest of 951 m.

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

- Zone S: Core zone - fine grained glacial till.
- Zone U: Upstream shell zone – produced from coarse tailings in sand cells, or from hauling sand from a local borrow area.
- 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.
- Zone FT: Filter layer above the downstream foundation till- sand from local borrow area.

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, as well as testing the compacted fill materials using a nuclear densometer. 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 6a design of the TSF.

An additional five vibrating wire piezometers (VWP) were installed during the Stage 6a construction program, bringing the number of operating piezometers in the TSF to 68. The piezometers were measured on a weekly basis using a VWP Indicator readout box. The inclinometers were measured twice a month using a Slope Indicator inclinometer probe. The results of the instrumentation monitoring show that no unexpected or anomalous pore pressures were observed while monitoring the vibrating wire piezometers and there were no significant displacements measured in the inclinometers during the construction program. However, inclinometer SI01-02 is showing slight deviations at an approximate depth of 10 m below ground in the lacustrine silts. This is being closely monitored by MPMC and Knight Piésold. Recommended action involves increasing the monitoring frequency of the inclinometers to weekly, expansion of the current buttress at the Main Embankment, and possibly installing additional inclinometers to ensure a continuous record is maintained in the event that the current inclinometers are damaged while the buttress is expanded.

Surplus site water is currently being stored in the Tailings Storage facility. The water management plan and water balance should be updated on a regular basis to remain current with the mine plan. Runoff from the waste dumps is currently being routed to the TSF, adding to the volume of water being stored in the TSF. The TSF is required to have sufficient live storage capacity for containment of storm water runoff from the 72-hour PMP volume of 1,070,000 m^3 at all times. The 72-hour PMP allowance is in addition to regular inflows from other precipitation runoff, including the spring freshet. The total freeboard requirement for the TSF is approximately 1.4 m. The tailings pond elevation must continue to be monitored on a regular basis to ensure that the stormwater and freeboard requirements are not infringed upon during operations.

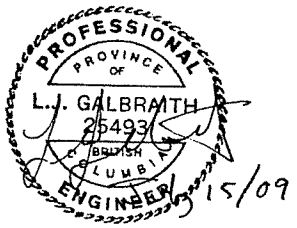
SECTION 5.0 - CERTIFICATION

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

Prepared:

Mark Smith, E.I.T.
Staff Engineer

Reviewed:



Les Galbraith, P.Eng.
Senior Engineer

Approved:

Ken Brouwer, P.Eng.
Managing Director

Knight Piésold
CONSULTING

TABLE 2.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

STAGE 6A CONSTRUCTION PROGRAM
ZONE S CONTROL SAMPLES - SUMMARY

Print Jun/04/09 11:08:04

Sample ID	Atterberg Limits			MC	Particle Size Distribution (%Passing)				Standard Proctor				MC
	LL (%)	PL (%)	PI (%)	M.C. (%)	Gravel >#4 (%)	Sand #4 to #200 (%)	Silt #200 to 0.002 (%)	Clay < 0.002 (%)	Uncorrected Max. D.D. (kg/m3)	Opt. M.C (%)	Corrected Max. D.D. (kg/m3)	Opt. M.C (%)	Deviation from Optimum (%)
C-S6-ZS-01/08	19.1	14.0	5.1	10.8	21	31	42	6	2040	10.5	2140	8.5	2.3
C-S6-ZS-02/08	18.2	13.0	5.2	9.9	8	37	52	3	2040	10.0	2080	9.5	0.4
C-S6-ZS-03/08	23.0	13.9	9.1	11.0	12	28	38	17	2010	11.5	2070	10.5	0.5
C-S6-ZS-04/08	16.8	13.9	2.9	8.8	9	41	39	11	2050	10.0	2090	9.0	-0.2
C-S6-ZS-05/08	21.0	13.3	7.7	10.9	15	39	32	11	2020	9.5	2100	8.0	2.9
C-S6-ZS-06/08	24.0	16.7	7.3	9.5	25	37	26	12	2020	11.0	2160	8.5	1.0
C-S6-ZS-07/08	23.5	14.4	9.1	12.2	22	34	30	14	1900	13.0	2010	10.5	1.7
MEAN	20.8	14.2	6.6	10.4	16	35	37	11	2011	10.8	2093	9.2	1.2
MAXIMUM	24.0	16.7	9.1	12.2	25	41	52	17	2050	13.0	2160	10.5	2.9
MINIMUM	16.8	13.0	2.9	8.8	8	28	26	3	1900	9.5	2010	8.0	-0.2

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F06 - Zone S Soil Testing\[TABLE 2.1.xls]TABLE 2.1

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

Knight Piésold
CONSULTING

TABLE 2.2

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

STAGE 6A CONSTRUCTION PROGRAM
ZONE S RECORD SAMPLES - SUMMARY

Print Jun/04/09 11:09:53

Sample ID	Atterberg Limits			MC	Particle Size Distribution (%Passing)				Standard Proctor				MC
	LL (%)	PL (%)	PI (%)	M.C. (%)	Gravel >#4 (%)	Sand #4 to #200 (%)	Silt #200 to 0.002 (%)	Clay < 0.002 (%)	Uncorrected Max. D.D. (kg/m3)	Opt. M.C (%)	Corrected Max. D.D. (kg/m3)	Opt. M.C (%)	Deviation from Optimum (%)
R-S6-ZS-01/08	21.4	14.4	7.0	9.8	13	32	39	16	2010	9.0	2080	8.0	1.8
R-S6-ZS-02/08	22.2	14.1	8.1	9.7	14	31	41	14	2000	11.0	2080	9.5	0.2
R-S6-ZS-03/08	25.8	19.1	6.7	11.6	22	28	40	10	1940	12.5	2070	10.0	1.6
R-S6-ZS-04/08	27.2	18.7	8.5	13.8	20	33	38	9	2030	11.0	2140	9.0	4.8
R-S6-ZS-05/08	18.3	14.6	3.7	8.9	11	38	37	14	2010	9.0	2070	8.0	0.9
R-S6-ZS-06/08	21.8	14.1	7.7	11.1	12	39	37	12	2010	11.0	2080	9.5	1.6
R-S6-ZS-07/08	22.3	16.1	6.2	10.7	25	31	39	5	2020	11.0	2150	8.5	2.2
R-S6-ZS-08/08	22.0	14.9	7.1	10.9	18	38	31	13	1990	11.0	2070	9.5	1.4
R-S6-ZS-09/08	21.5	16.0	5.5	10.2	16	36	37	11	2040	10.5	2120	9.0	1.2
MEAN	22.5	15.8	6.7	10.7	16.8	34.0	37.7	11.6	2006	10.7	2096	9.0	1.7
MAXIMUM	27.2	19.1	8.5	13.8	25.0	38.7	41.0	16.0	2040	12.5	2150	10.0	4.8
MINIMUM	18.3	14.1	3.7	8.9	11.0	28.0	31.0	5.0	1940	9.0	2070	8.0	0.2

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F06 - Zone S Soil Testing\[TABLE 2.2.xls]TABLE 2.2

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

Knight Piésold
CONSULTING

TABLE 2.3

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE

STAGE 6A CONSTRUCTION PROGRAM
ZONE U RECORD SAMPLES - SUMMARY

Print Jun/04/09 11:18:31

Sample ID	Atterberg Limits			MC	Particle Size Distribution (%Passing)				Standard Proctor				MC
	LL (%)	PL (%)	PI (%)	M.C. (%)	Gravel >#4 (%)	Sand #4 to #200 (%)	Silt #200 to 0.002 (%)	Clay < 0.002 (%)	Uncorrected Max. D.D. (kg/m3)	Opt. M.C (%)	Corrected Max. D.D. (kg/m3)	Opt. M.C (%)	Deviation from Optimum (%)
R-S6-ZU-01/08	N/A	N/A	N/A	N/A	0	83	17		N/A	N/A	N/A	N/A	N/A
R-S6-ZU-02/08	N/A	N/A	N/A	N/A	0	80	20		1690	16.0	N/A	N/A	N/A
R-S6-ZU-03/08	N/A	N/A	N/A	N/A	0	55	45		1660	17.0	N/A	N/A	N/A
MEAN	N/A	N/A	N/A	N/A	0	73	27		1675	16.5	N/A	N/A	N/A
MAXIMUM	N/A	N/A	N/A	N/A	0	83	45		1690	17.0	N/A	N/A	N/A
MINIMUM	N/A	N/A	N/A	N/A	0	55	17		1660	16.0	N/A	N/A	N/A

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F07 - Zone FT, T, C, U Soil Testing\[TABLE 2.3.xls]TABLE 2.3

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

Knight Piésold
CONSULTING

TABLE 2.4

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY PROJECT

TAILINGS STORAGE FACILITY
MAIN EMBANKMENT FOUNDATION PIEZOMETERS

Print Jun/04/09 11:22:03

Piezometer	Piezometer Elevation (m)	Surface Elevation (m)	Sept 2008 Pressure Elevation (m)	Sept 2008 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	915.91	3.00
A2-PE2-08	907.56	913.36	912.49	-0.87
B2-PE1-03	914.05	915.55	915.55	0.00
B2-PE2-01	901.98	916.98	No Longer Functioning	-
B2-PE2-02	909.51	916.98	920.35	3.37
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	916.64	0.93
C2-PE2-06	906.84	915.99	914.82	-1.17
C2-PE2-07	912.29	915.99	No Longer Functioning	-
C2-PE2-08	914.03	915.99	914.37	-1.62
D2-PE2-02	927.32	930.92	931.15	0.23
E2-PE2-01	914.21	918.81	917.19	-1.62
E2-PE2-02	909.66	918.81	916.48	-2.33

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\[Table2.4.xls]Table 2.4

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

Knight Piésold
CONSULTING

TABLE 3.1

MOUNT POLLEY MINING CORPORATION
MOUNT POLLY MINE

BORROW AREA SITE INVESTIGATION
DRILLHOLE SUMMARY

Print Jun/04/09 11:23:58

Hole ID	Northing	Easting	Elevation (m)	Depth (m)	Glacial Till Thickness (m)
KP08-01	5,819,445	595,951	935	19.2	19
KP08-02	5,819,292	596,125	935	14.6	10.4
KP08-04	5,819,414	596,269	920	20.7	15
KP08-06	5,819,131	596,297	937	13.1	5.2
KP08-08	5,819,276	596,451	918	17.7	11.6
KP08-09	5,819,617	596,070	921	14.6	8.5
KP08-11	5,819,744	595,835	924	8.5	-
KP08-12	5,819,605	595,741	933	23.8	12.8
KP08-14	5,819,739	595,544	931	20.1	>20
KP08-15	5,819,880	595,608	925	20.7	8.9
KP08-16	5,819,663	595,778	930	11.6	4.3

M:\1\01\00001\23\A\Data\Borrow Area Site Investigation - May 2008\[Table 1.0 r0 - Drillhole List.xls]Drillholes

NOTES:

1. TILL THICKNESSES ARE CUMULATIVE THICKNESSES FOR ALL TILL UNITS ENCOUNTERED IN THE HOLE.

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT VA101-1/23-1	GM	MACS	LJG

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F06 - Zone S Soil Testing\PSA Fig 2.1 2.2

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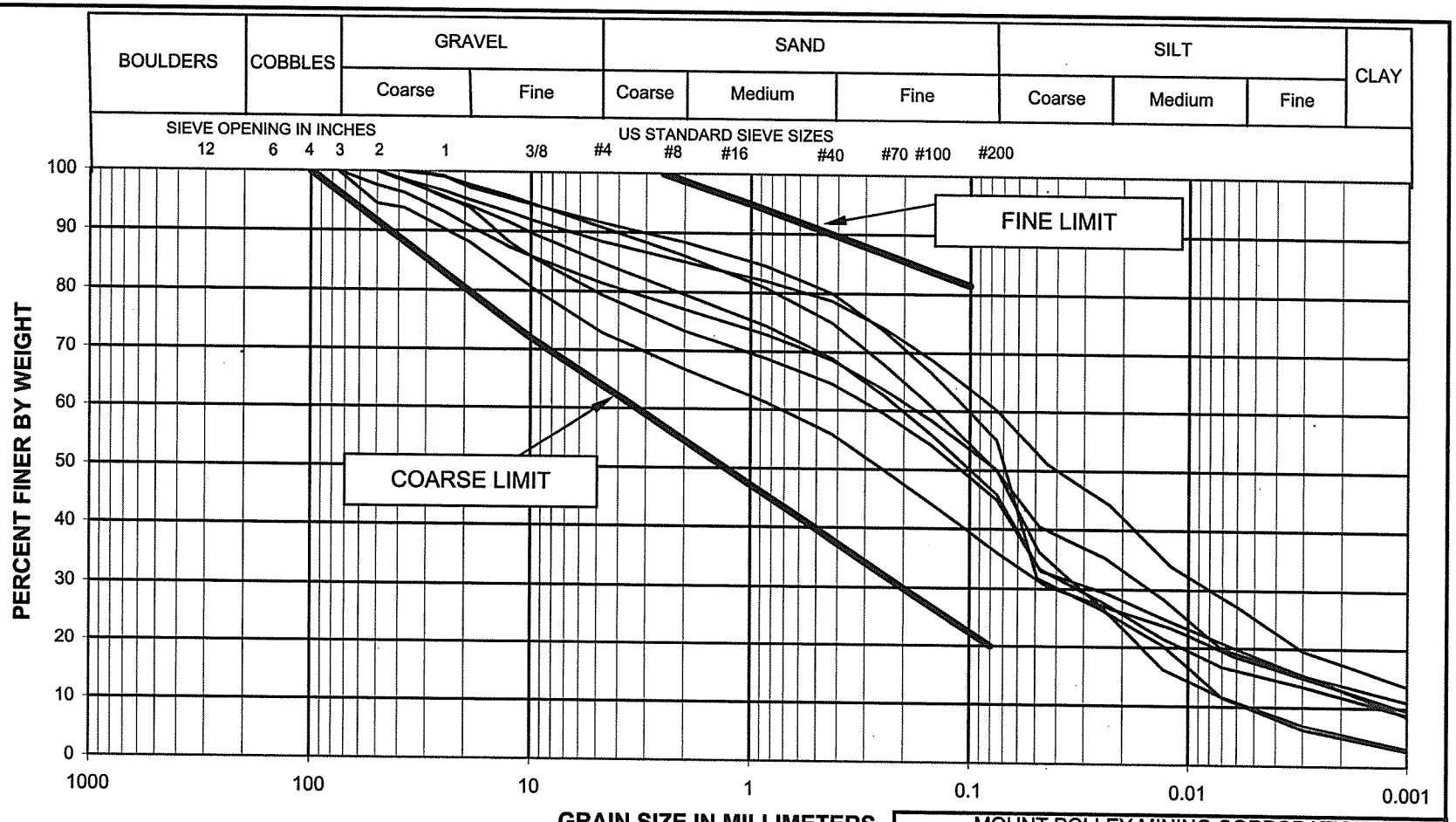

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE S CONTROL SAMPLES
PARTICLE SIZE ANALYSIS

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P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.1

REV 0

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F06 - Zone S Soil Testing\PSA Fig 2.1 2.2

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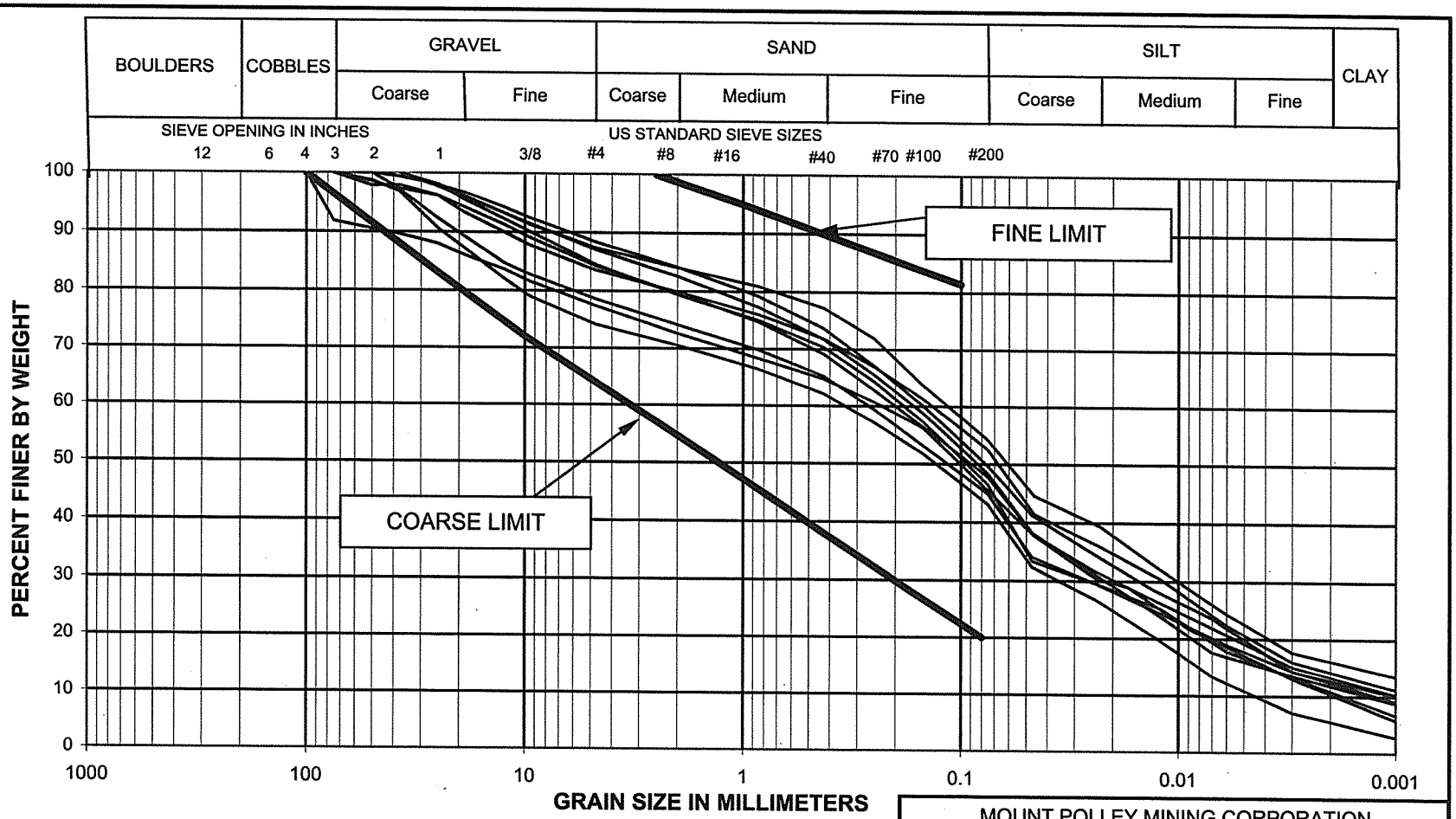

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE S RECORD SAMPLES
PARTICLE SIZE ANALYSIS

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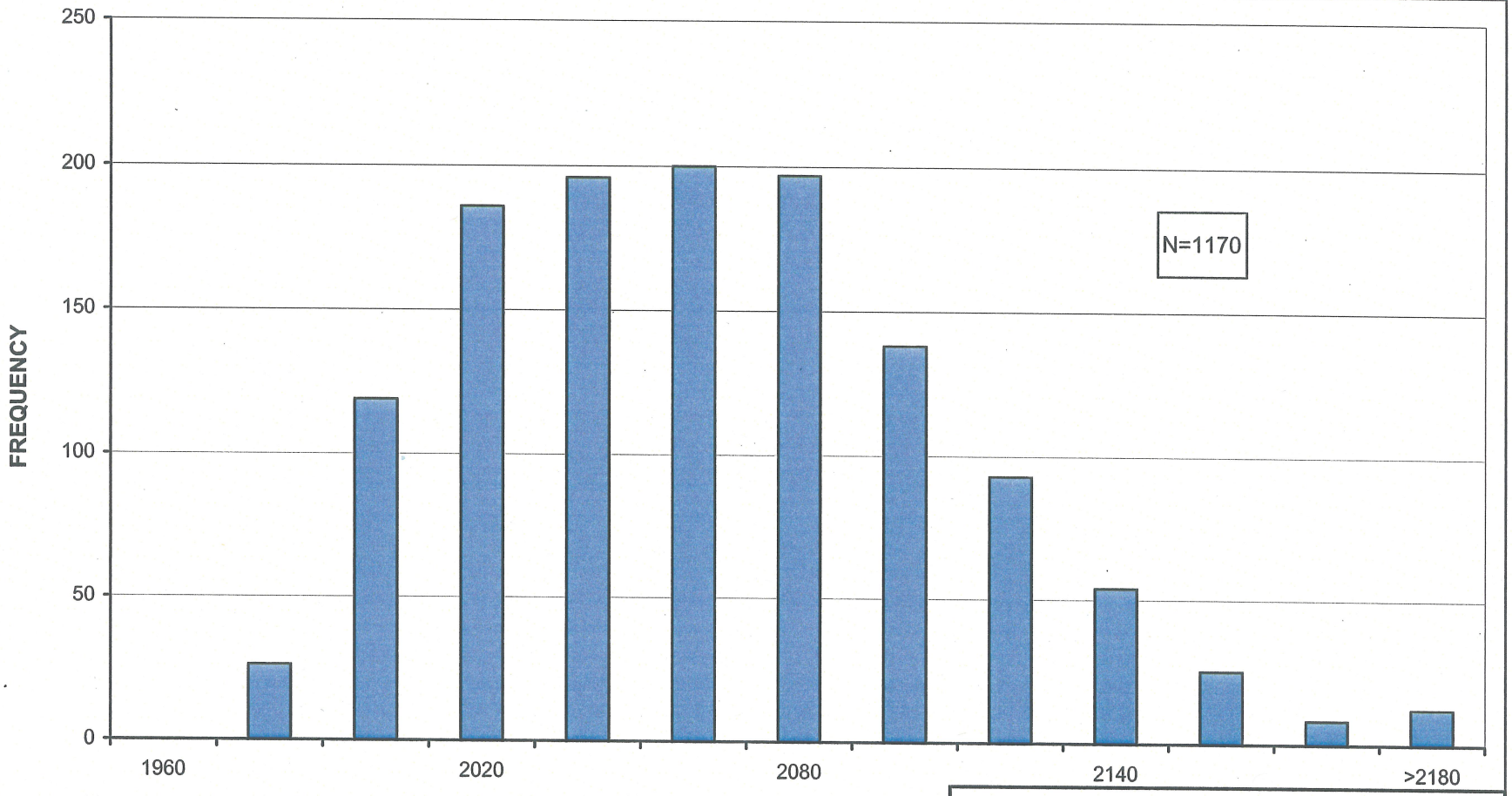
P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.2

REV 0



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

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE S RECORD TESTS
FIELD DRY DENSITY

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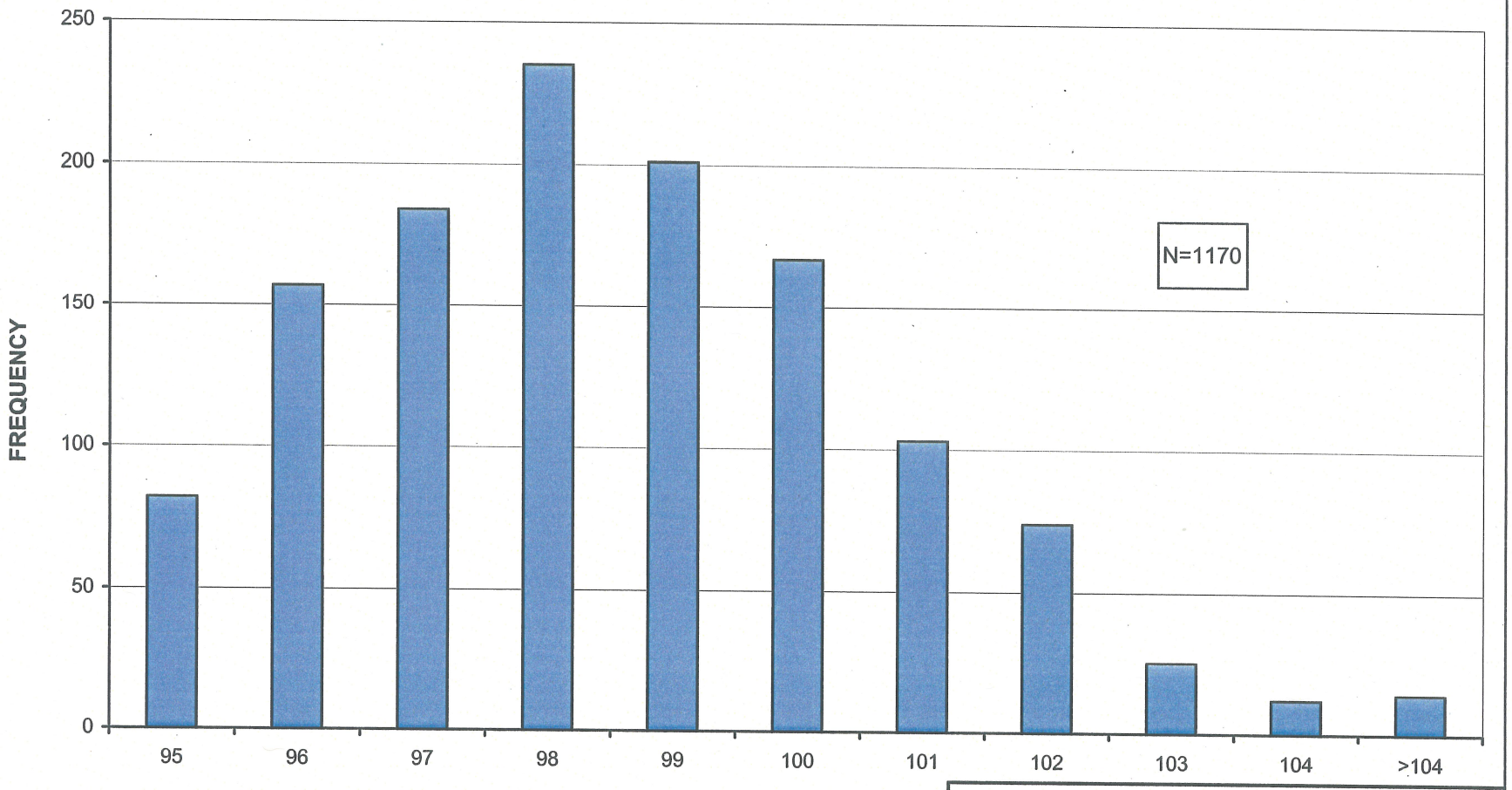
P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.3

REV 0



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.

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE S RECORD TESTS
PERCENT COMPACTION

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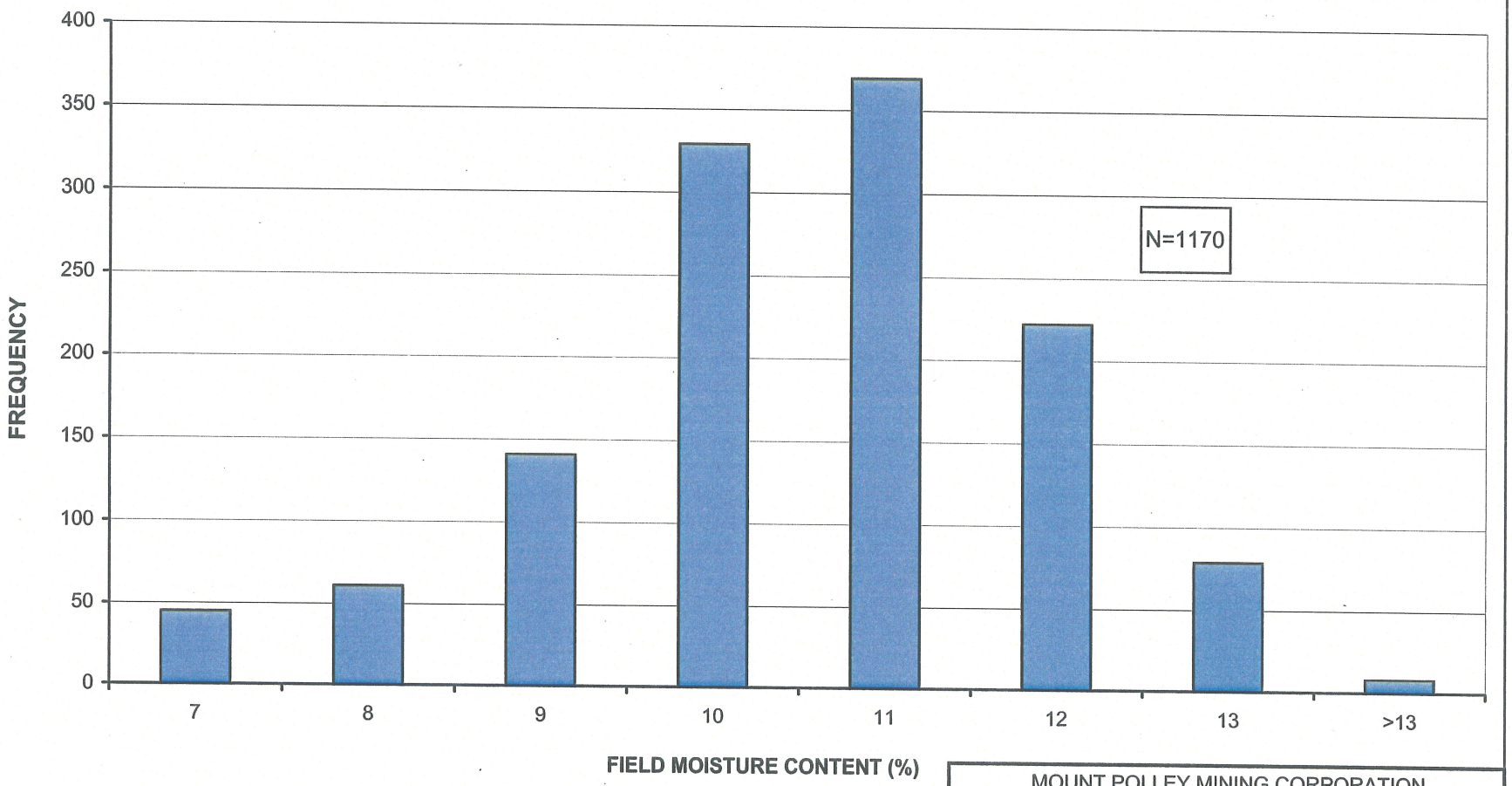
P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.4

REV 0



NOTE:

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

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE S RECORD TESTS
FIELD MOISTURE CONTENT

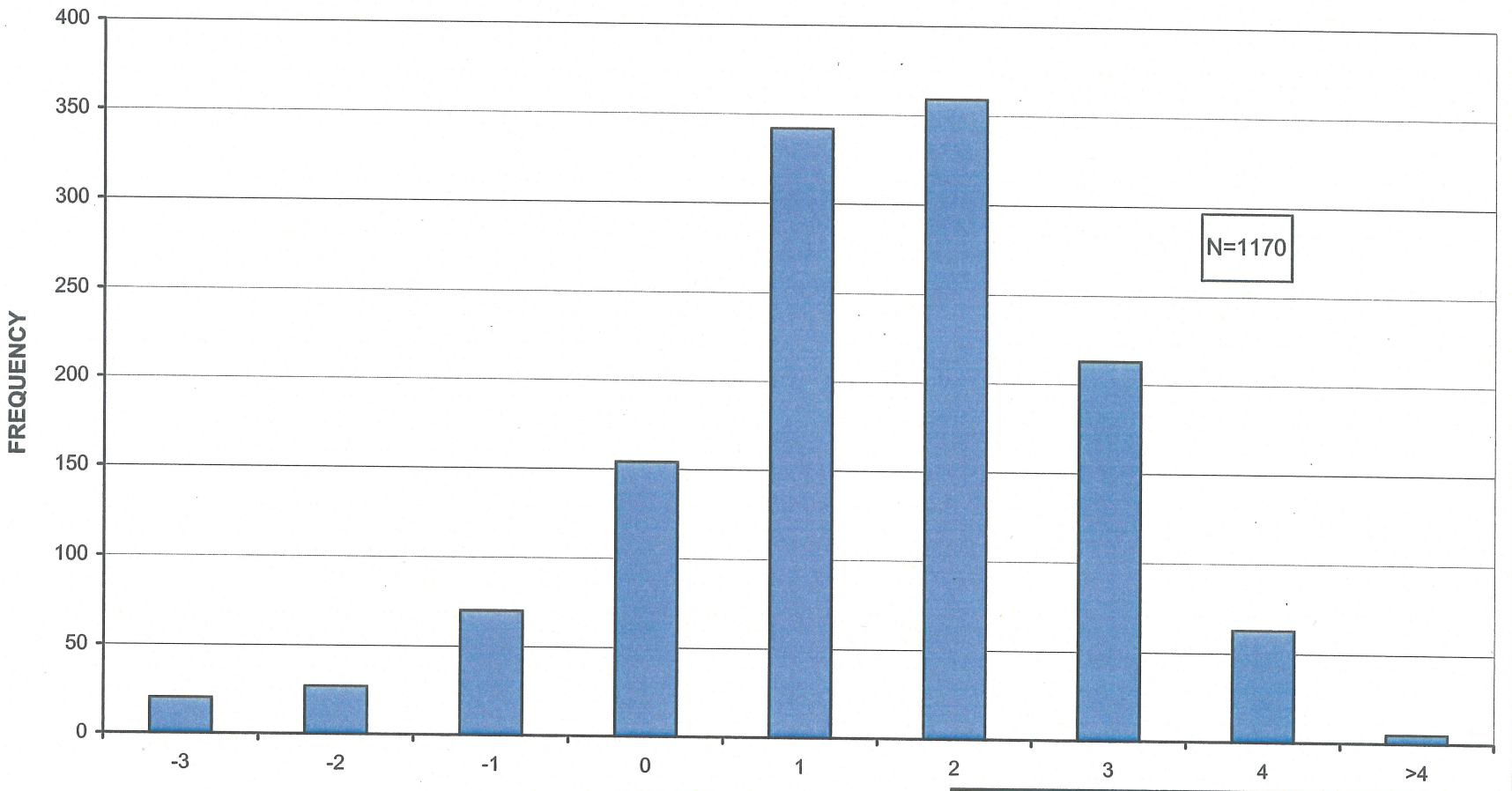
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.5

REV 0



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.

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR09	ISSUED WITH REPORT	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE S RECORD TESTS
DEVIATION FROM OPTIMUM MOISTURE CONTENT

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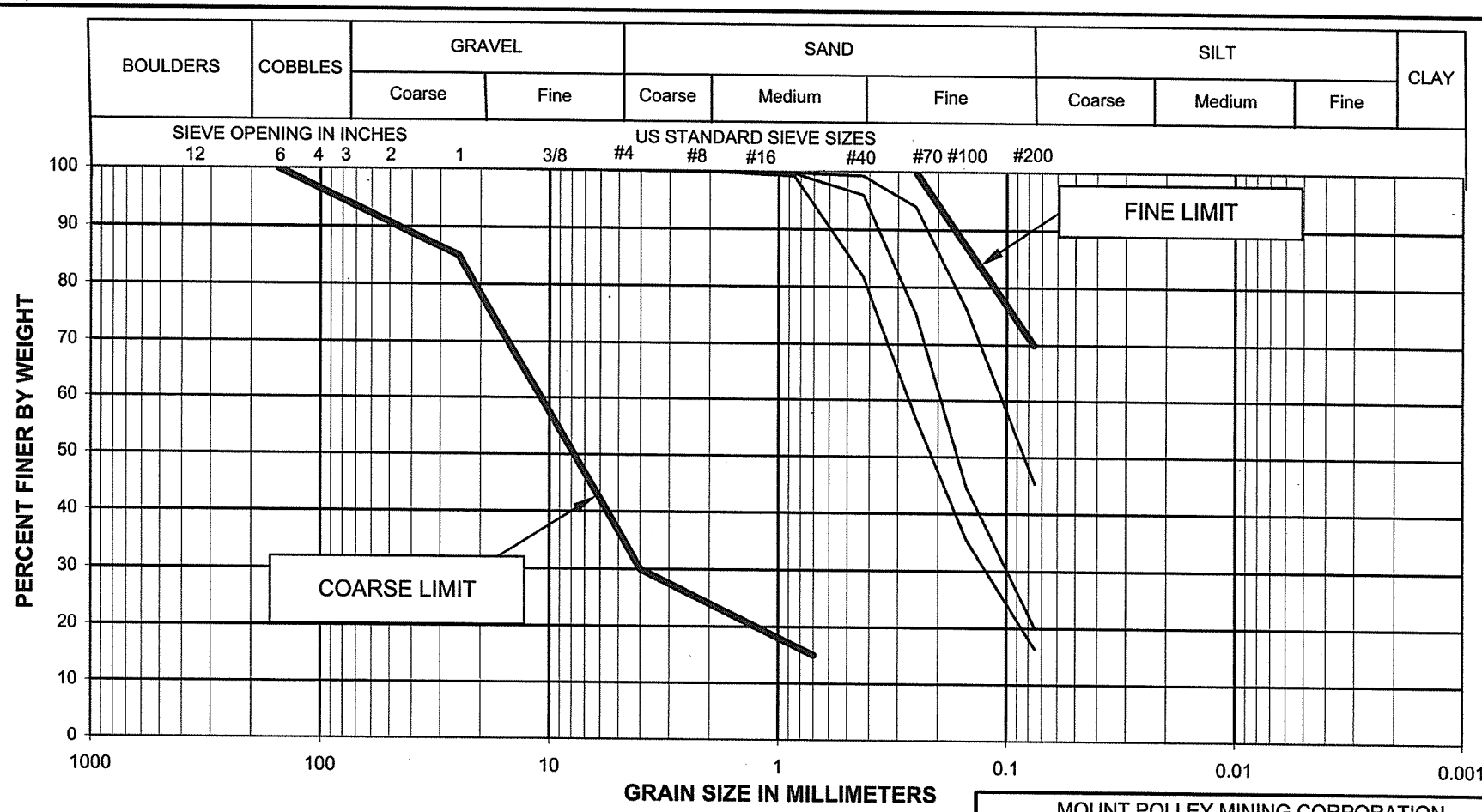
P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.6

REV 0



MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE U RECORD SAMPLES
PARTICLE SIZE ANALYSIS

Knight Piésold CONSULTING

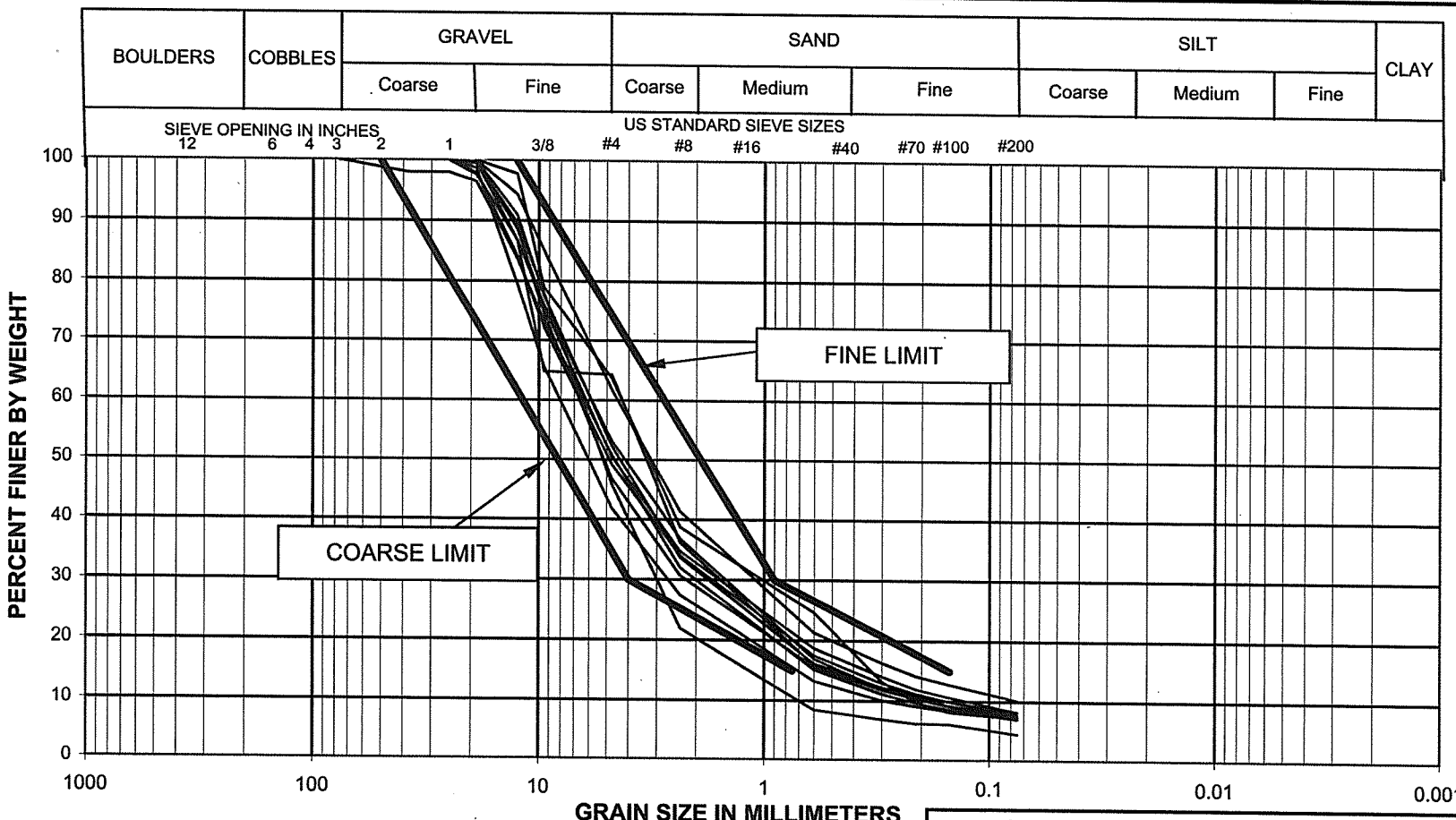
P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.7

REV 0

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE F CONTROL SAMPLES
PARTICLE SIZE ANALYSIS

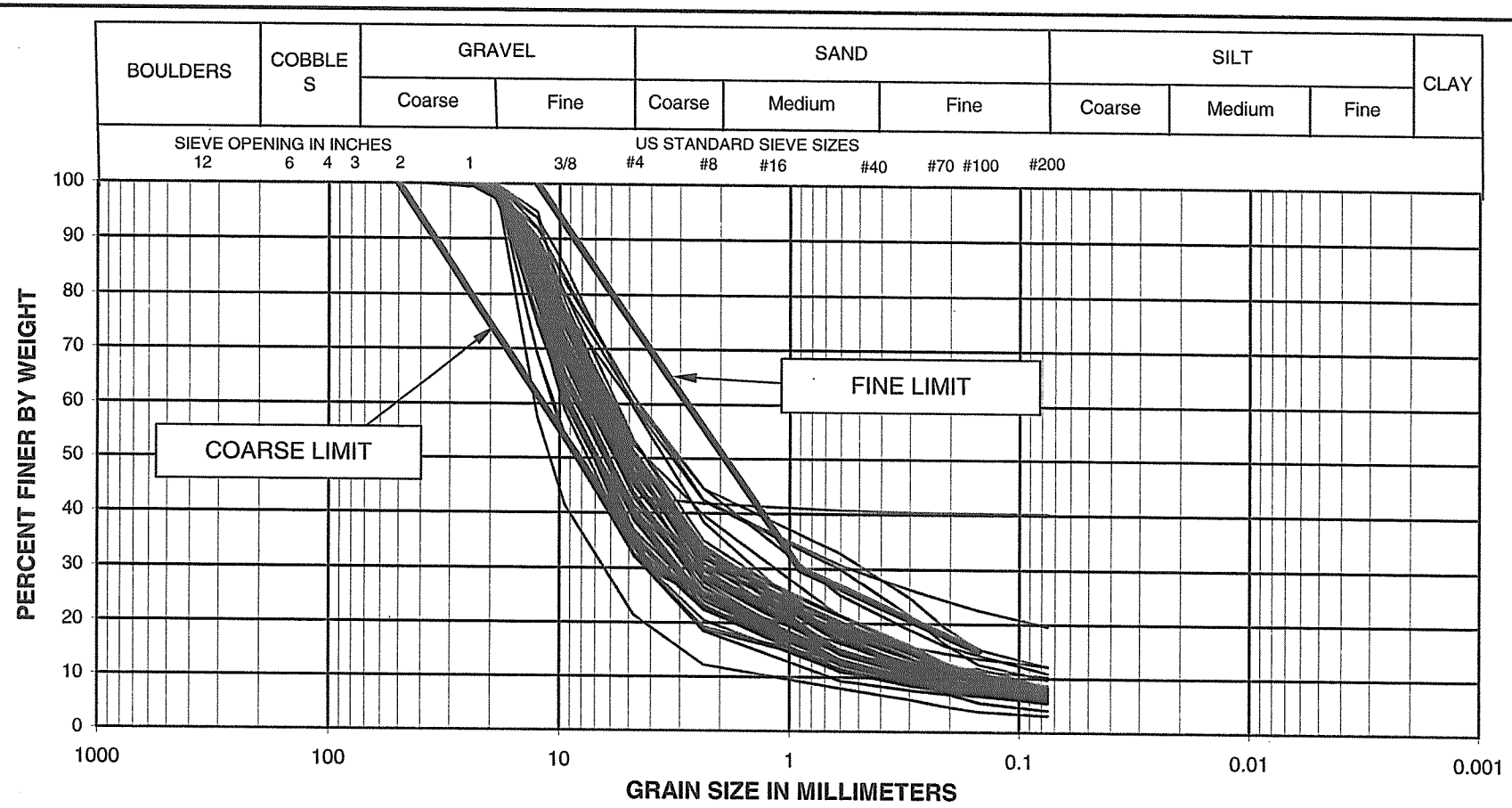
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.8

REV 0



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE F RECORD SAMPLES
PARTICLE SIZE ANALYSIS

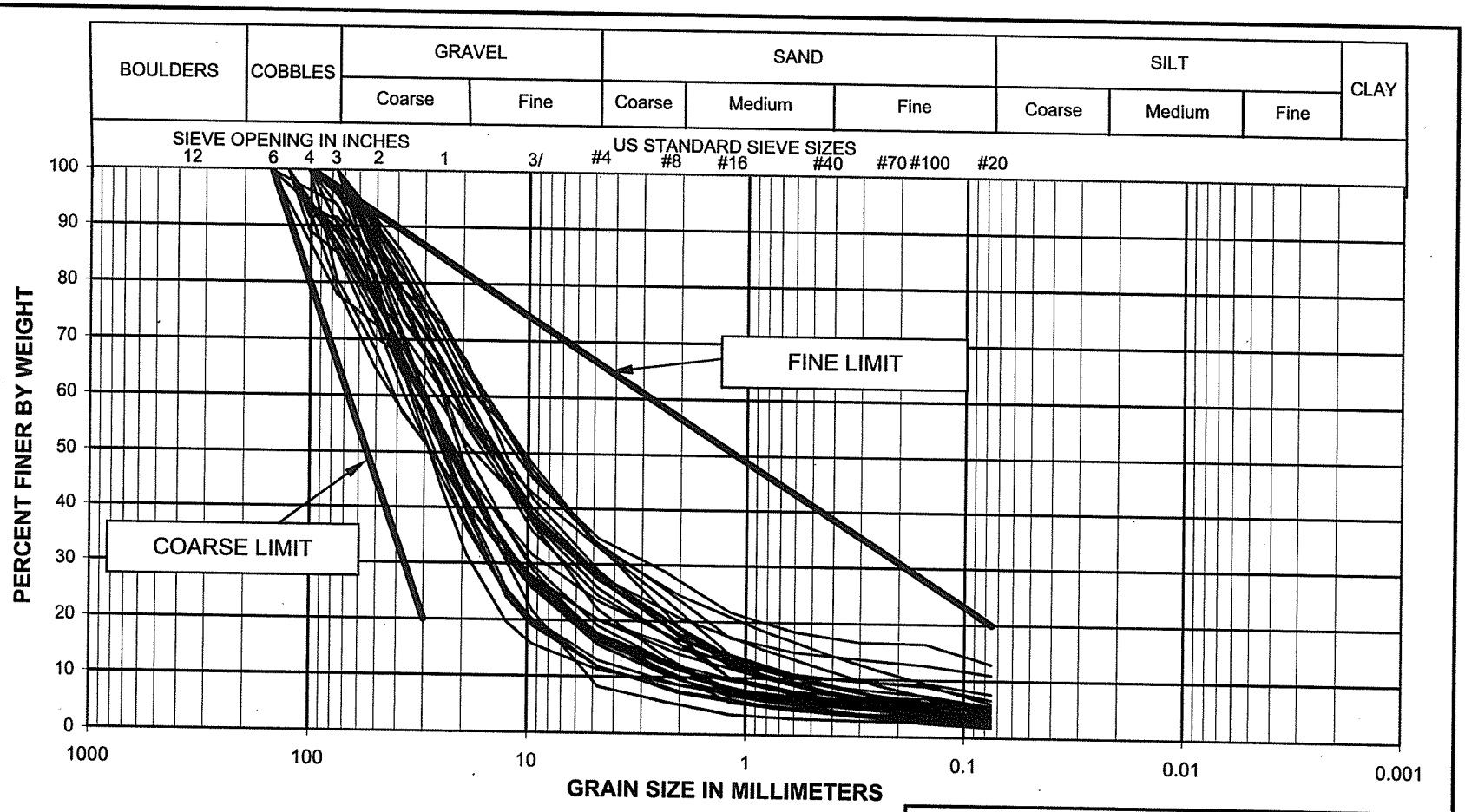
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.9

REV 0



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

ZONE T RECORD SAMPLES
PARTICLE SIZE ANALYSIS

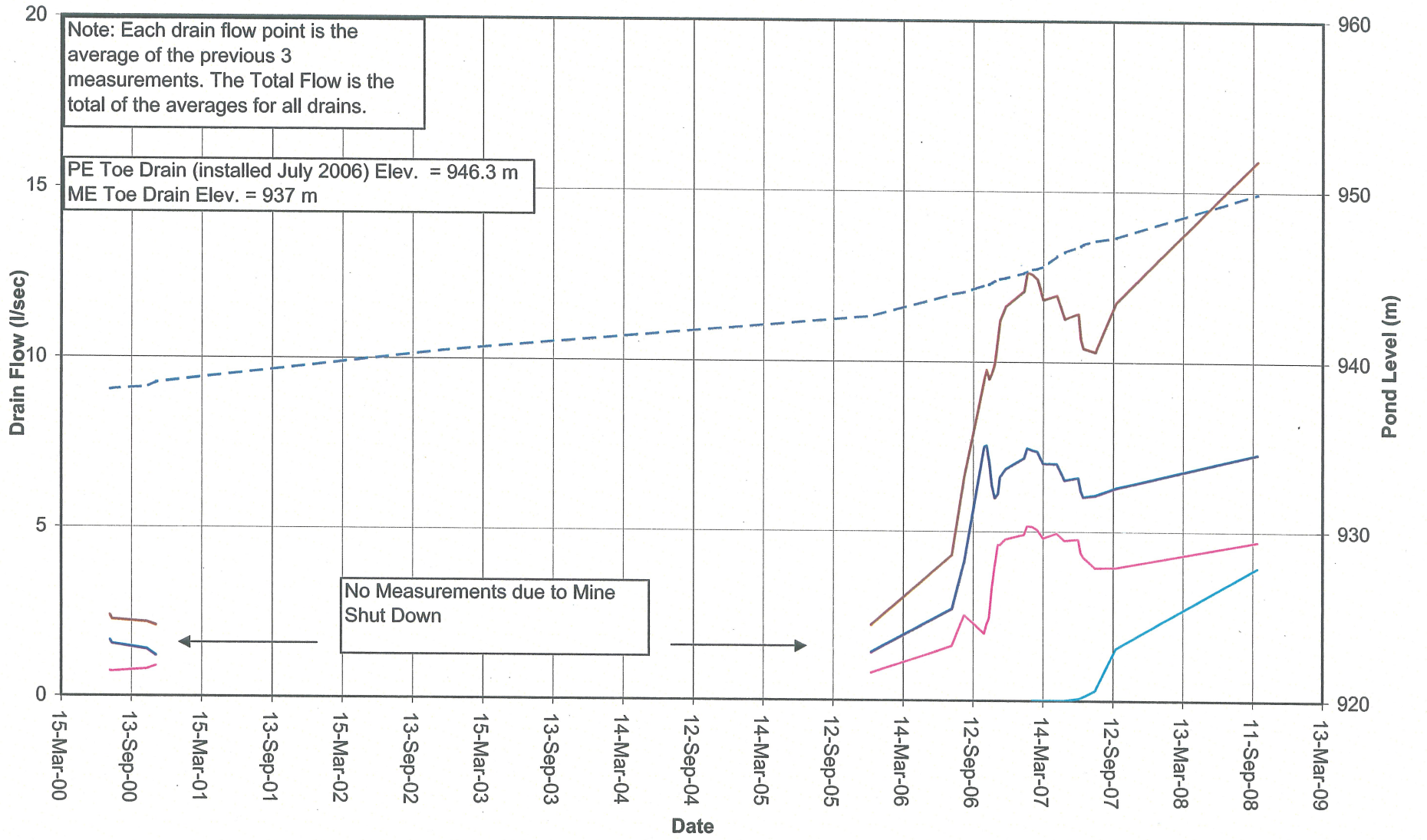
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.10

REV 0



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

UPSTREAM TOE DRAIN FLOWS

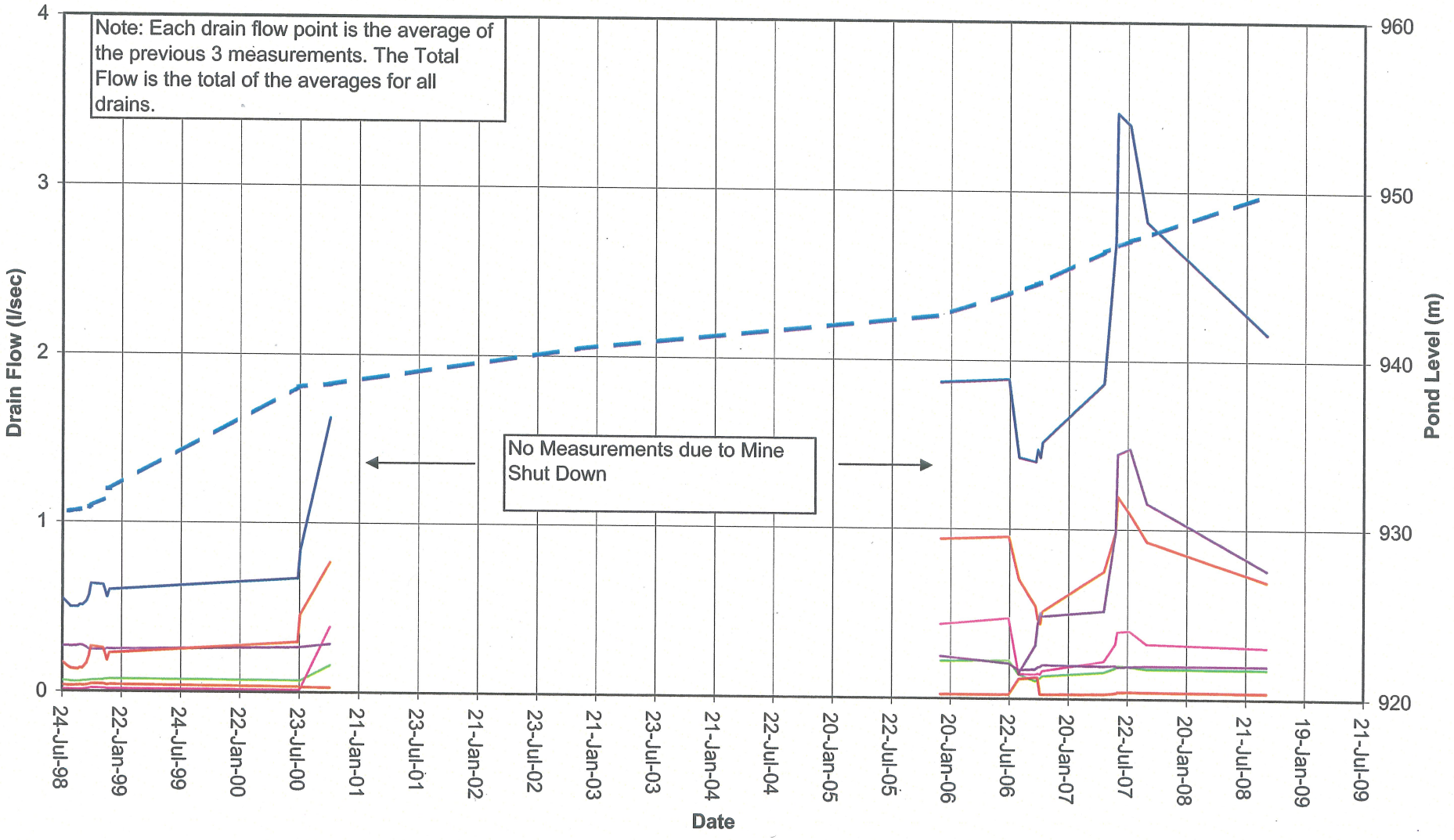
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.11

REV 0



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

FOUNDATION DRAIN FLOWS

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE 2.12

REV 0

LEGEND:

KP08-04 Proposed drilll

DRILLHOLE LOCATIONS

ID	NORTHING (m)	EASTING (m)	ELEVATION (m)
KP08-01	5 819 445	595 951	935
KP08-02	5 819 292	596 125	935
KP08-04	5 819 414	596 269	920
KP08-06	5 819 131	596 297	937
KP08-08	5 819 276	596 451	918
KP08-09	5 819 617	596 070	921
KP08-11	5 819 744	595 835	924
KP08-12	5 819 605	595 741	933
KP08-14	5 819 739	595 544	931
KP08-15	5 819 880	595 608	925
KP08-16	5 819 663	595 778	930

SCALE A 100 50 0 100 200 300 400 500 m

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

BORROW AREA SITE INVESTIGATION
BOREHOLE LOCATIONS

Knight Piésold CONSULTING

P/A NO.	REF. NO.
VA101-1/23	1

FIGURE	REV.
FIGURE 3.1	0

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	14APR'09	ISSUED WITH REPORT	GH	AN	LJG	LJG

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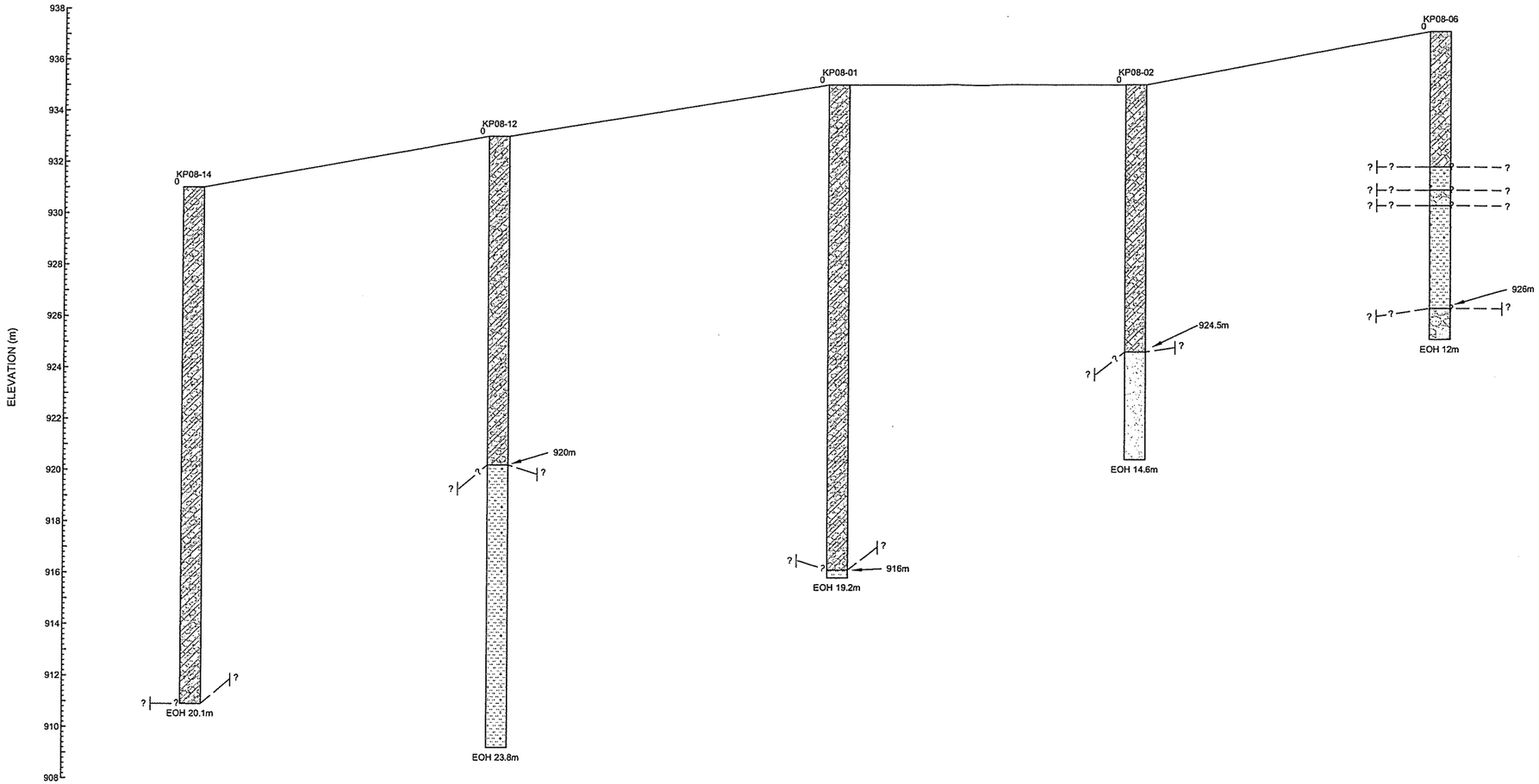

1 Fig.1 **SECTION**
HORIZONTAL: SCALE A
VERTICAL: SCALE B

NOTES:

1. DIMENSIONS ARE IN METRES UNLESS NOTED.

LEGEND

- SAND AND GRAVEL
- SAND
- SILT AND CLAY
- GLACIAL TILL
- EOH END OF HOLE

SCALE A: 40 20 0 40 80 120 160 200 m
SCALE B: 2 1 0 2 4 6 8 10 m

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	14APR09	ISSUED WITH REPORT	GH	AN	LJG	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

BORROW AREA SITE INVESTIGATION
BORROW AREA SECTION 1

Knight Piésold CONSULTING

P/A NO. VA101-1/23 | REF. NO. 1
FIGURE **FIGURE 3.2** | REV. 0

XREF FILE(S): IMAGE FILE(S):

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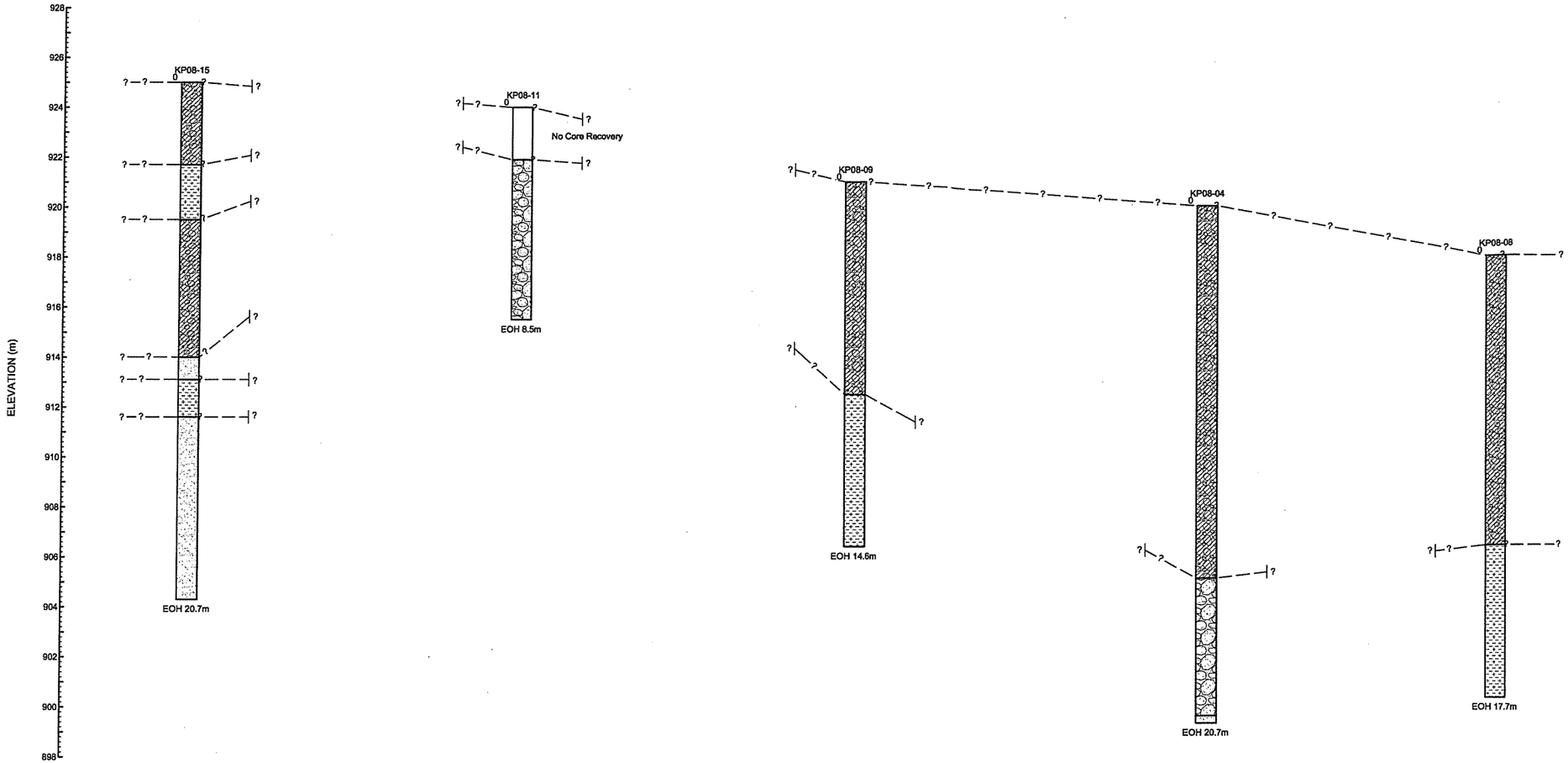
VANCOUVER B.C.



NOTES:

1. DIMENSIONS ARE IN METRES UNLESS NOTED.

LEGEND

- SAND AND GRAVEL
- SAND
- SILT AND CLAY
- GLACIAL TILL
- EOH — END OF HOLE

2 / Fig.1 **SECTION**
HORIZONTAL: SCALE A
VERTICAL: SCALE B

SCALE A: 40 20 0 40 80 120 160 200 m
SCALE B: 2 1 0 2 4 6 8 10 m

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	14APR09	ISSUED WITH REPORT	GH	AN	LJG	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

BORROW AREA SITE INVESTIGATION
BORROW AREA SECTION 2

Knight Piésold CONSULTING

P/A NO. VA101-1/23 | REF. NO. 1

FIGURE **FIGURE 3.3** | REV. 0

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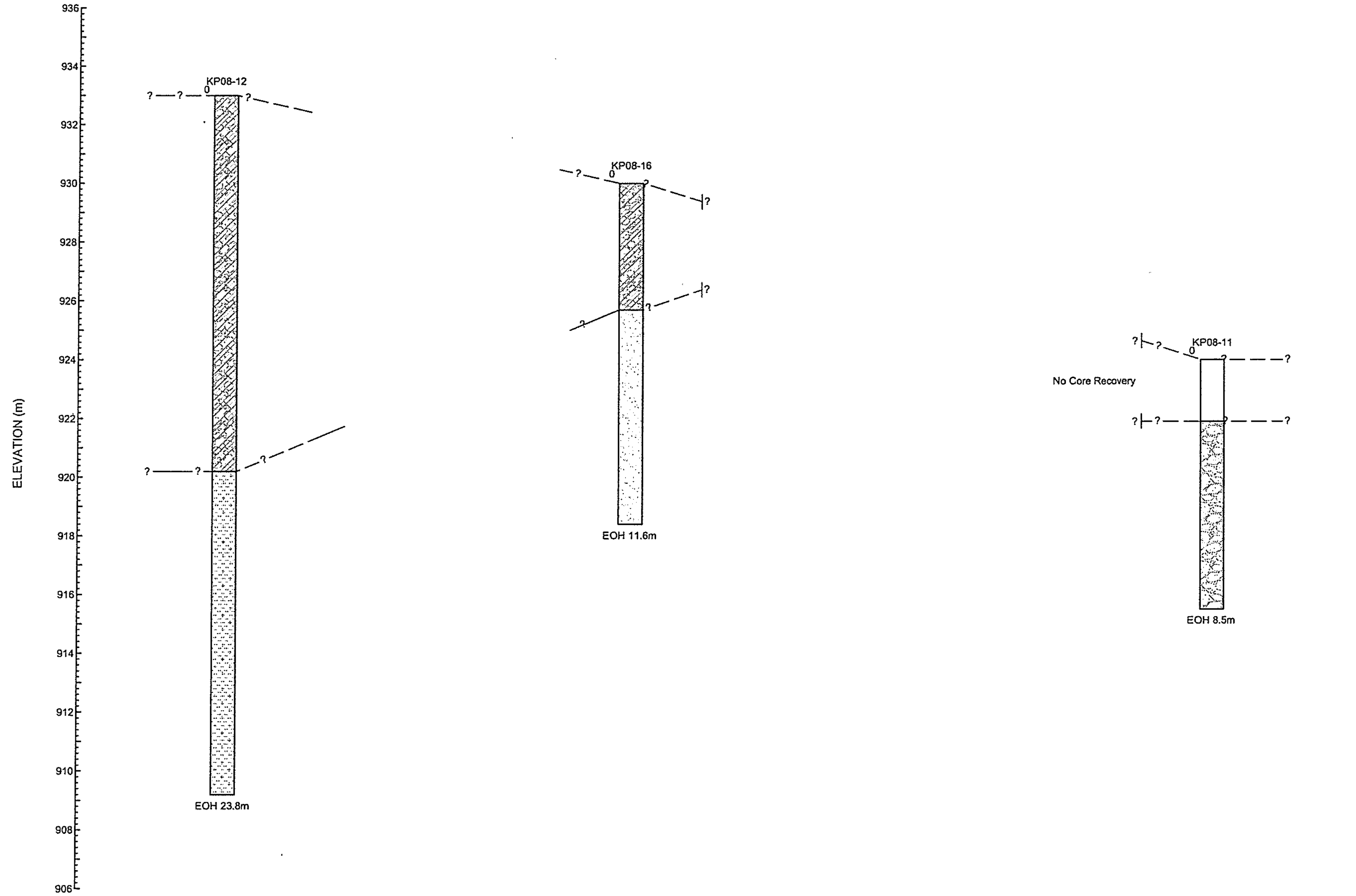
VANCOUVER B.C.



3 Fig.1 **SECTION**
HORIZONTAL: SCALE A
VERTICAL: SCALE B

NOTES:

1. DIMENSIONS ARE IN METRES UNLESS NOTED.

LEGEND

- SAND AND GRAVEL
- SAND
- SILT AND CLAY
- GLACIAL TILL
- EOH END OF HOLE

SCALE A 10 5 0 10 20 30 40 50 m
SCALE B 2 1 0 2 4 6 8 10 m

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

BORROW AREA SITE INVESTIGATION
BORROW AREA SECTION 3

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P/A NO.	REF. NO.
VA101-1/23	1
FIGURE 3.4	REV. 0

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
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XREF FILE(S): IMAGE FILE(S):

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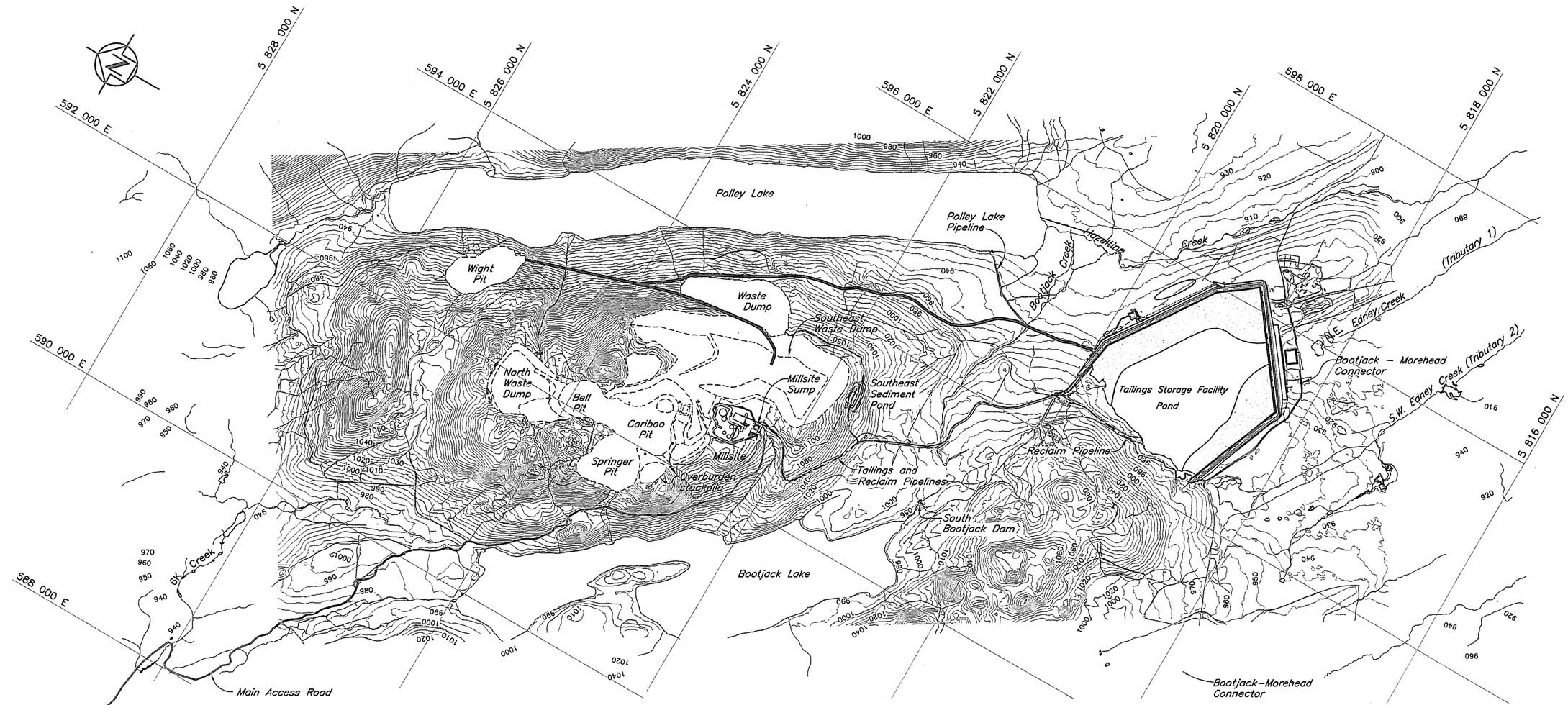
VANCOUVER B.C.



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.

DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER L.J. GALBRAITH 25493 PROVINCE OF BRITISH COLUMBIA 22/06/09

Knight Piésold CONSULTING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a TAILINGS EMBANKMENT
OVERALL SITE PLAN

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101–1/18	100	1

XREF FILE : Topo2004; Features; Stage6_Plan IMAGE FILE(S):
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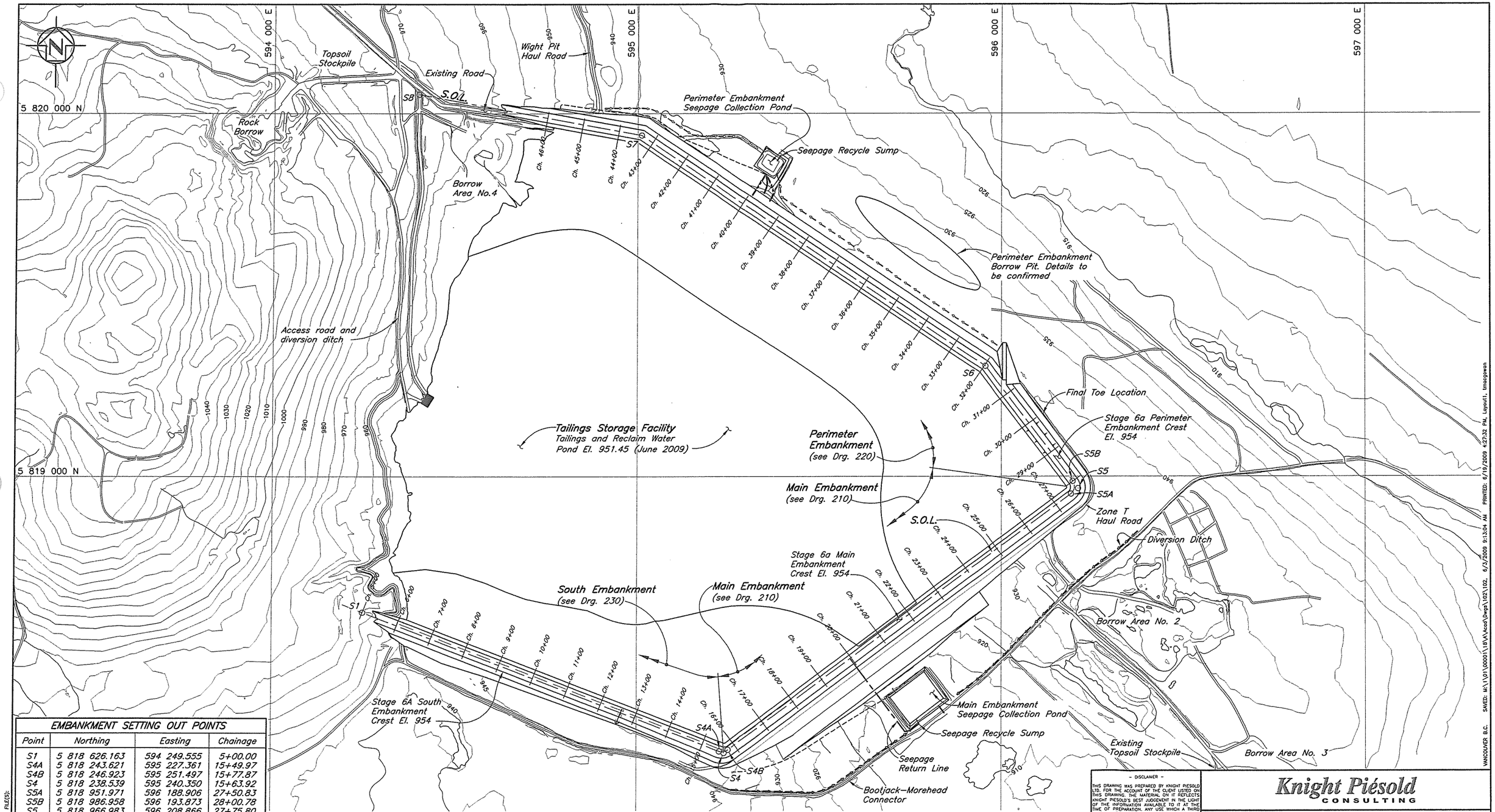
VANCOUVER B.C.



EMBANKMENT SETTING OUT POINTS			
Point	Northing	Easting	Chainage
S1	5 818 626.163	594 249.555	5+00.00
S4A	5 818 243.621	595 227.361	15+49.97
S4B	5 818 246.923	595 251.497	15+77.87
S4	5 818 238.539	595 240.350	15+63.92
S5A	5 818 951.971	596 188.906	27+50.83
S5B	5 818 986.958	596 193.873	28+00.78
S5	5 818 966.983	596 208.866	27+75.80
S6	5 819 304.035	595 955.881	31+97.23
S7	5 819 939.748	595 010.249	43+36.69
S8	5 820 053.034	594 396.471	49+60.83

NOTES:

1. Topography at TSF generated from points and break lines sent from MPMC in July 1999. The topography outside the TSF area is from 2004 flyover. UTM, NAD83, Zone 10.
2. Stage 6a crest El. 954.

DRG. NO.	DESCRIPTION
220	T.S.F. – STAGE 6a PERIMETER EMBANKMENT – PLAN
210	T.S.F. – STAGE 6a MAIN EMBANKMENT – PLAN
230	T.S.F. – STAGE 6a SOUTH EMBANKMENT – PLAN AND SECTION

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a TAILINGS EMBANKMENT
GENERAL ARRANGEMENT

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	102	1

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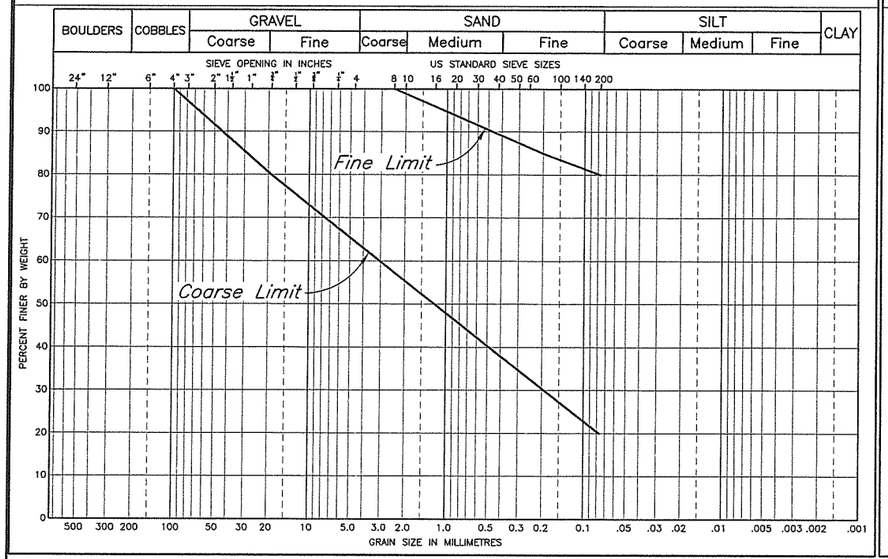
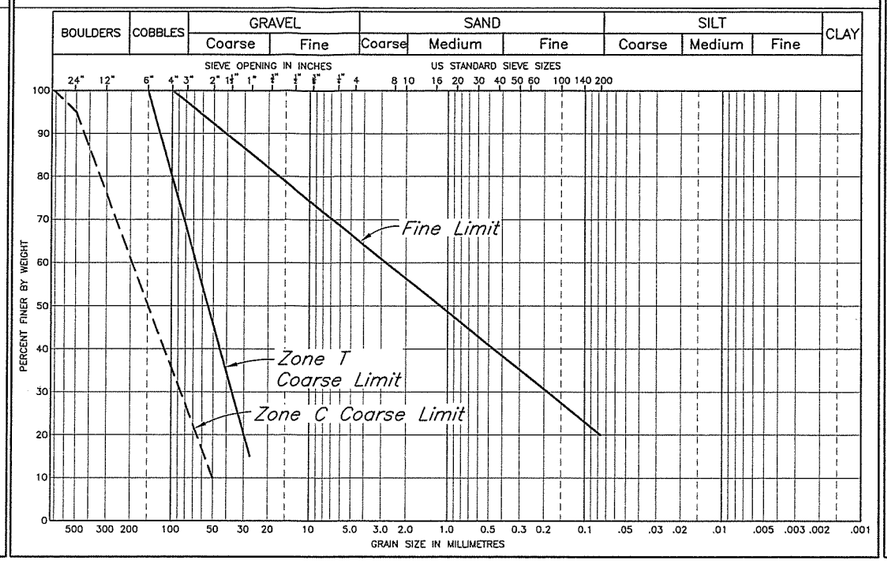
UNIFIED SOIL CLASSIFICATION SYSTEM

ZONE S



UNIFIED SOIL CLASSIFICATION SYSTEM

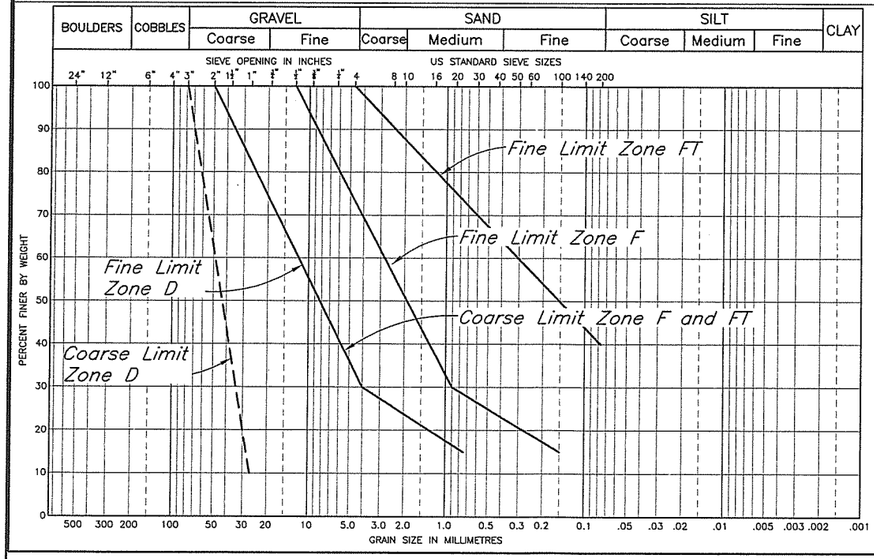
ZONE T and ZONE C



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 to 95% of Standard Proctor maximum dry density or as approved by the Engineer.
C	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 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	Chimney Drain	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	Drainage Gravel	Drains	Placed around drainage pipes and wrapped with geotextile.

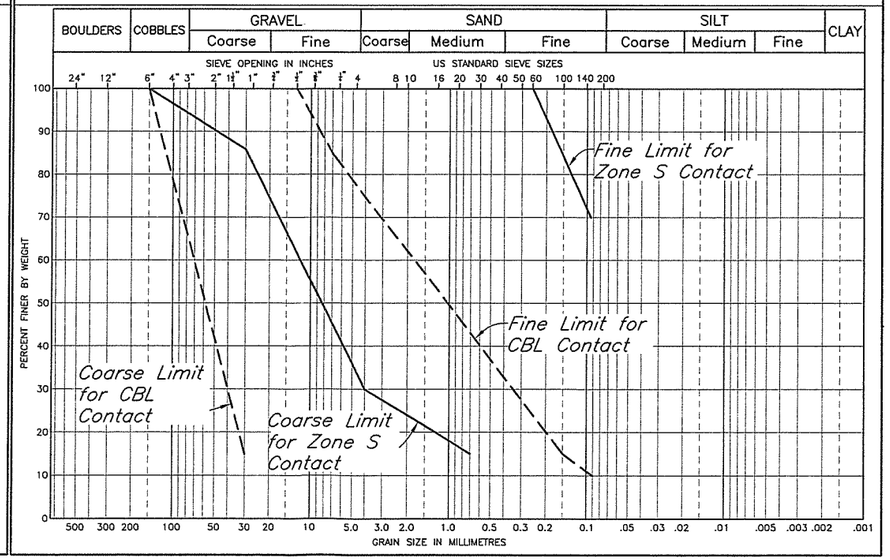
UNIFIED SOIL CLASSIFICATION SYSTEM

ZONE F AND ZONE FT



UNIFIED SOIL CLASSIFICATION SYSTEM

ZONE U



DRG. NO.	DESCRIPTION
235/236	STAGE 6a – SOUTH EMBANKMENT – SECTIONS
225/226	STAGE 6a – PERIMETER EMBANKMENT – SECTIONS AND DETAILS
215/216	STAGE 6a – MAIN EMBANKMENT – SECTIONS AND DETAILS
240	STAGE 6a UPSTREAM TOE DRAIN – SECTIONS AND DETAILS

REFERENCE DRAWINGS

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

REVISIONS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
2	19MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
1	07MAY'08	ISSUED FOR CONSTRUCTION	LJG	TAM	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA L.J. GALBRAITH 25493 20/JUN/09

Knight Piésold CONSULTING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a TAILINGS EMBANKMENT
MATERIAL SPECIFICATIONS

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	104	2

IMAGE FILE(S):
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595 000 E
595 500 E
596 000 E
5 819 000 N
5 818 500 N
5 818 000 N
Perimeter Embankment (see Dwg. 220)
Main Embankment
Pond El. 951.45 (June 2009)
Ch. 27+00
Ch. 26+00
Ch. 25+00
Ch. 24+00
Ch. 23+00
Ch. 22+00
Ch. 21+00
Ch. 20+00
Ch. 19+00
Ch. 18+00
Ch. 17+00
Ch. 16+00
Ch. 15+00
S.O.L.
S5B
S5A
S5
Stage 6a Embankment Crest El. 954.0
1.3H:1V
1
215
SI06-3
SI06-2
SI01-1
SI06-1
SI01-2
Drain Monitoring Sump
Existing Diversion Ditch
Main Embankment Seepage Collection Pond
Seepage Recycle Sump
Seepage Return Line
Stage 6a Buttress El. 918
Conveyance Pipe
Bootjack–Morehead Connector Relocation
South Embankment (see Dwg. 230)
S4A
S4B
S4
915
920
925
930
935
940
910

101–1/18–220
101–1/18–230
THIS DRAWING
KEY PLAN

LEGEND:
S101–3 Existing Inclinometer

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

Scale 50 0 50 100 150 200 250 m

DRG. NO.	DESCRIPTION
230	STAGE 6a SOUTH EMBANKMENT – PLAN
220	STAGE 6a PERIMETER EMBANKMENT – PLAN
215	STAGE 6a MAIN EMBANKMENT – SECTION

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
2	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
1	07MAY'08	ISSUED FOR CONSTRUCTION	LJG	TAM	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA J. L. GALBRAITH 25493 20/09

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a MAIN EMBANKMENT
PLAN

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101–1/18	210	2

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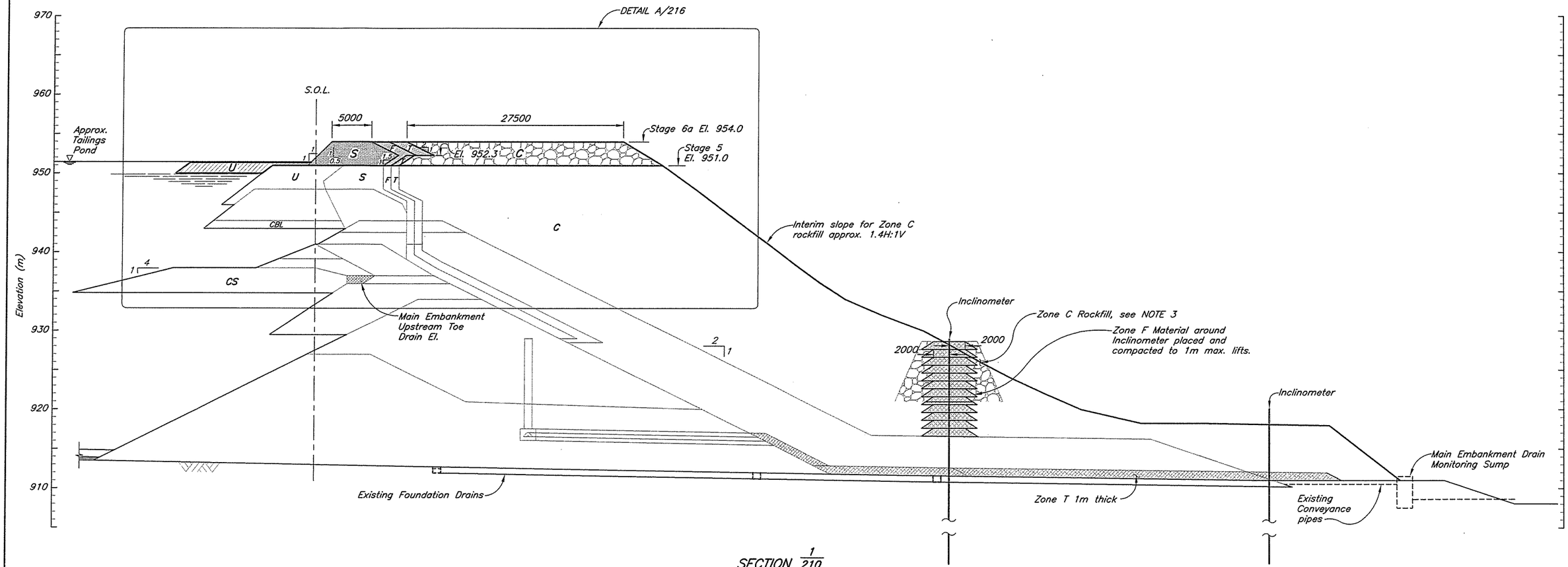

SECTION $\frac{1}{210}$

Scale 5 0 5 10 15 20 25 m

NOTES:

1. For material specifications and legend see Drg. 104.
2. All dimensions in millimetres and elevations in metres, unless noted otherwise.
3. Zone C and Zone F materials were placed around inclinometers SI01–1 and SI01–2 during Stage 5 to form a mound to offer protection from boulders during placement of Zone C.

XREF FILE : IMAGE FILE(S):

DRG. NO.	DESCRIPTION
215	STAGE 6a MAIN EMBANKMENT – DETAIL
210	STAGE 6a MAIN EMBANKMENT – PLAN
104	MATERIAL SPECIFICATIONS

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
2	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
1	07MAY'08	ISSUED FOR CONSTRUCTION	LJG	TAM	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA L. J. GALBRAITH 25493 2/09

Knight Piésold CONSULTING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a MAIN EMBANKMENT
SECTION

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101–1/18	215	2

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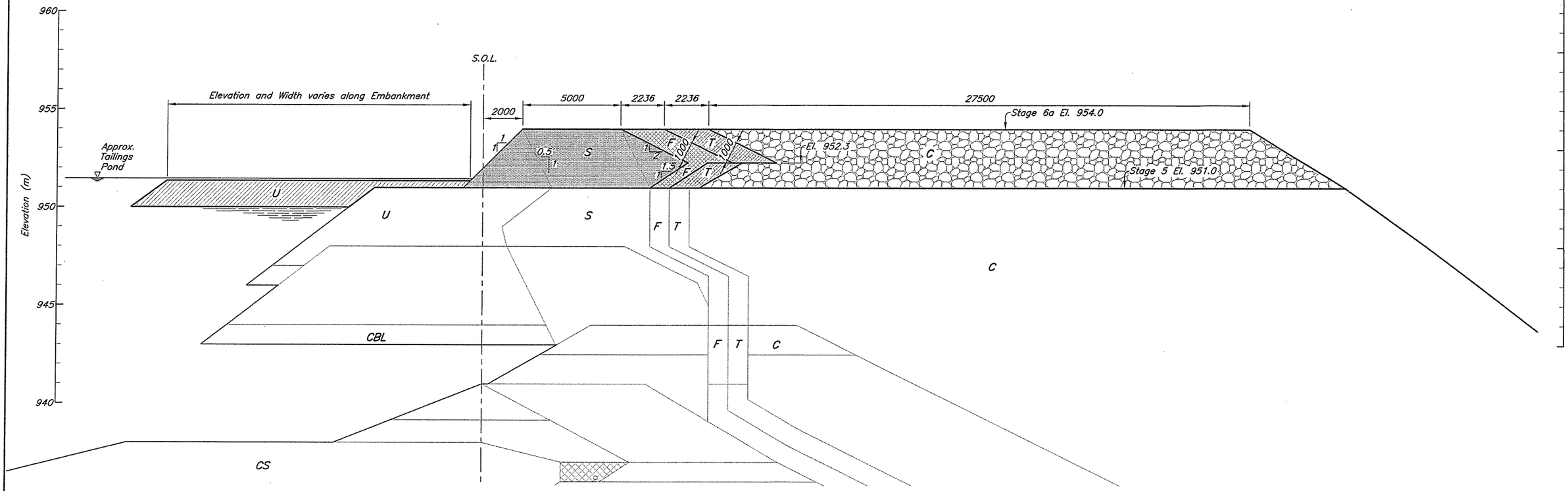

DETAIL A/215

NOTES:

1. For material specifications and legend see Drg. 104.
2. All dimensions in millimeters and elevations in meters, unless noted otherwise.

Scale 2 0 2 4 6 8 10 m

DRG. NO.	DESCRIPTION
215	STAGE 6a – MAIN EMBANKMENT – SECTION
210	STAGE 6a – MAIN EMBANKMENT – PLAN
104	STAGE 6a – MATERIAL SPECIFICATIONS

REFERENCE DRAWINGS

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

REVISIONS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
0	07MAY'08	ISSUED FOR CONSTRUCTION	LJG	TAM	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA L. J. GALBRAITH 25493 16/03/09

Knight Piésold CONSULTING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a MAIN EMBANKMENT
DETAIL

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	216	1

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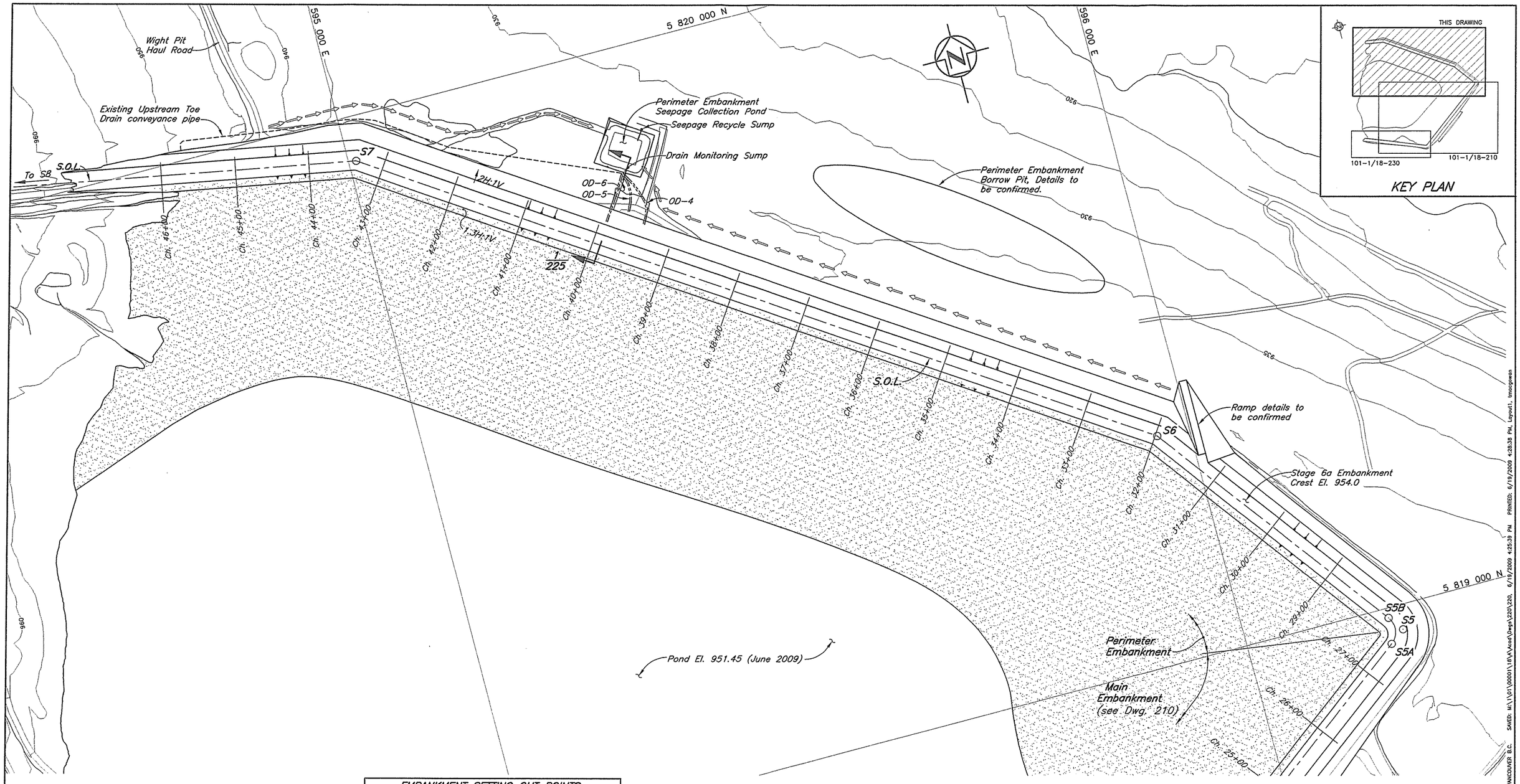

EMBANKMENT SETTING OUT POINTS			
Point	Northing	Easting	Chainage
S1	5 818 626.163	594 249.555	5+00.00
S4A	5 818 243.621	595 227.361	15+49.97
S4B	5 818 246.923	595 251.497	15+77.87
S4	5 818 238.539	595 240.350	15+63.92
S5A	5 818 951.971	596 188.906	27+50.83
S5B	5 818 986.958	596 193.873	28+00.78
S5	5 818 966.983	596 208.866	27+75.80
S6	5 819 304.035	595 955.881	31+97.23
S7	5 819 939.748	595 010.249	43+36.69
S8	5 820 053.034	594 396.471	49+60.83

NOTES:

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

Scale 50 0 50 100 150 200 250 m

DRG. NO.	DESCRIPTION
240	STAGE 6a PERIMETER EMBANKMENT – UPSTREAM TOE DRAIN
230	STAGE 6a SOUTH EMBANKMENT – PLAN
225	STAGE 6a PERIMETER EMBANKMENT – SECTIONS
210	STAGE 6a MAIN EMBANKMENT – PLAN

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
2	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
1	07MAY'08	ISSUED FOR CONSTRUCTION	LJG	JY	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA L.J. GALBRAITH 25493 22/09

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MOUNT POLLEY MINING CORPORATIOIN

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a PERIMETER EMBANKMENT
PLAN

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	220	2

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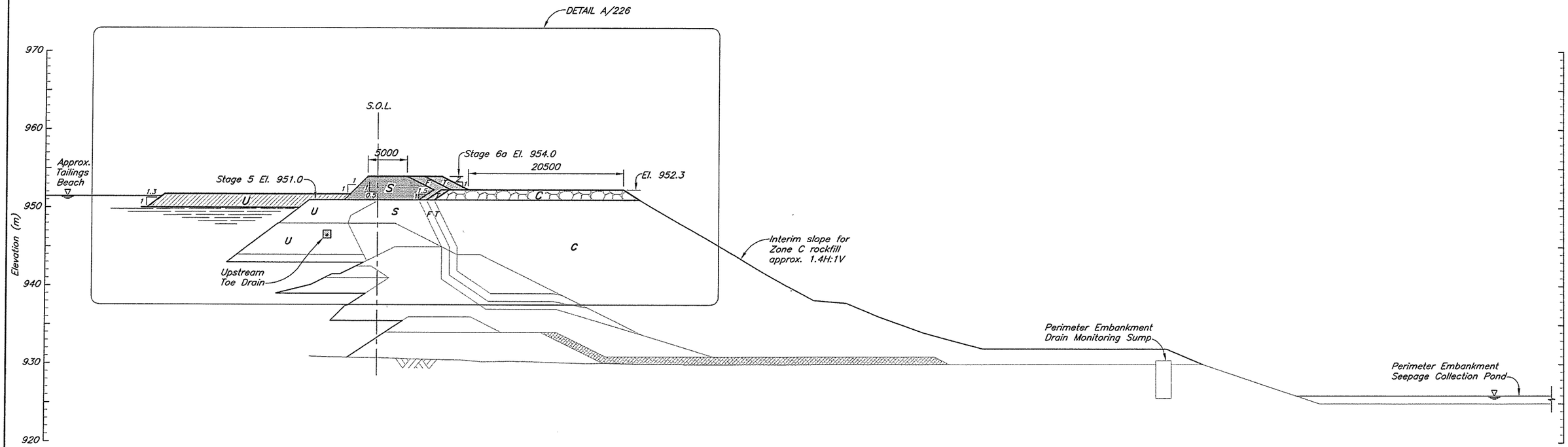
VANCOUVER, B.C.



SECTION 1/220

Scale 5 0 5 10 15 20 25 m

NOTES:

1. For material specifications and legend see Drg. 104.
2. All dimensions in millimetres and elevations in metres, unless noted otherwise.

ORG. NO.	DESCRIPTION
226	STAGE 6a – PERIMETER EMBANKMENT – DETAIL
220	STAGE 6a – PERIMETER EMBANKMENT – PLAN
104	STAGE 6a – MATERIAL SPECIFICATIONS

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
2	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
1	07MAY'08	ISSUED FOR CONSTRUCTION	LJG	TAM	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA K.J. GALBRAITH 25493

Knight Piésold CONSULTING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a – PERIMETER EMBANKMENT
SECTION

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	225	2

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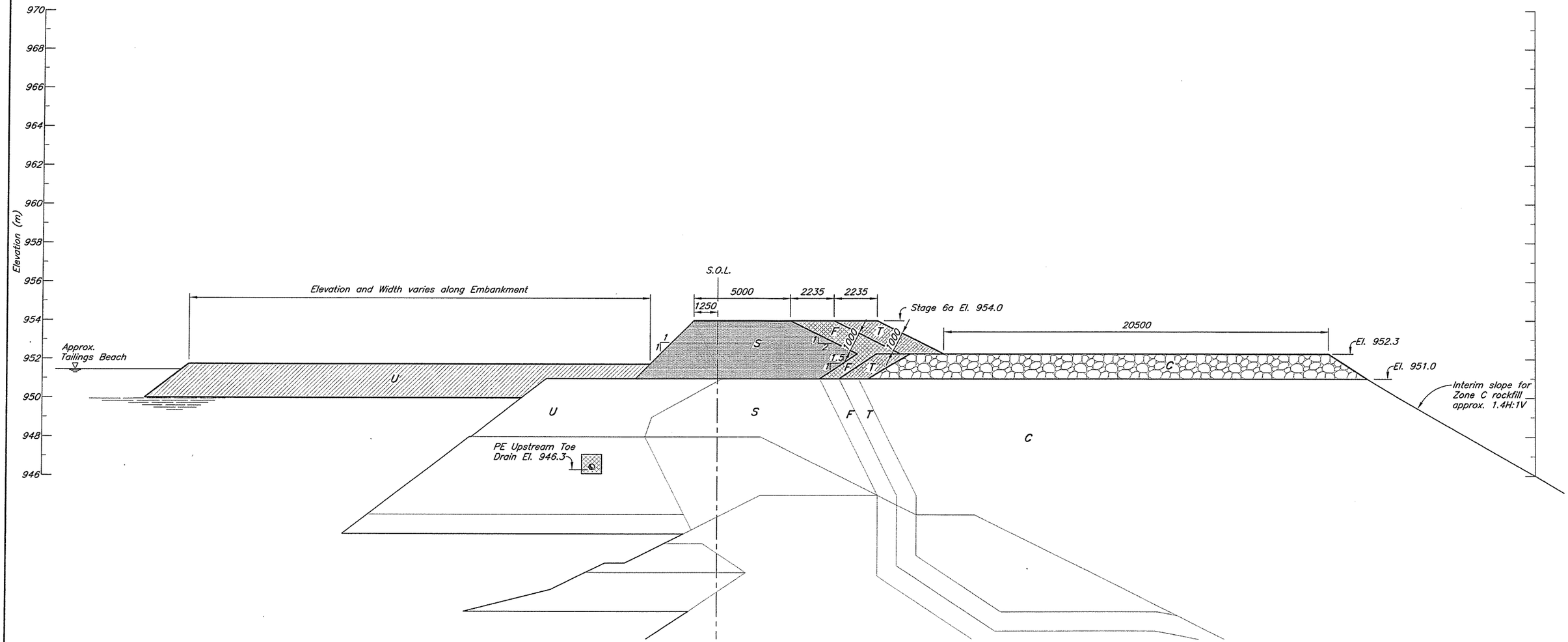

DETAIL A/225

Scale 2 0 2 4 6 8 10 m

NOTES:

1. For material specifications and legend see Drg. 104.
2. All dimensions in millimeters and elevations in meters, unless noted otherwise.

REFERENCE DRAWINGS	
DRG. NO.	DESCRIPTION
225	STAGE 6a – PERIMETER EMBANKMENT – SECTION
220	STAGE 6a – PERIMETER EMBANKMENT – PLAN
104	STAGE 6a – MATERIAL SPECIFICATIONS

IMAGE FILE(S):
XREF FILE :

REVISIONS						
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
0	07MAY'07	ISSUED FOR CONSTRUCTION	LJG	TAM	BB	KJB

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L. J. GALBRAITH
25493

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MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a PERIMETER EMBANKMENT
DETAIL

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	226	1

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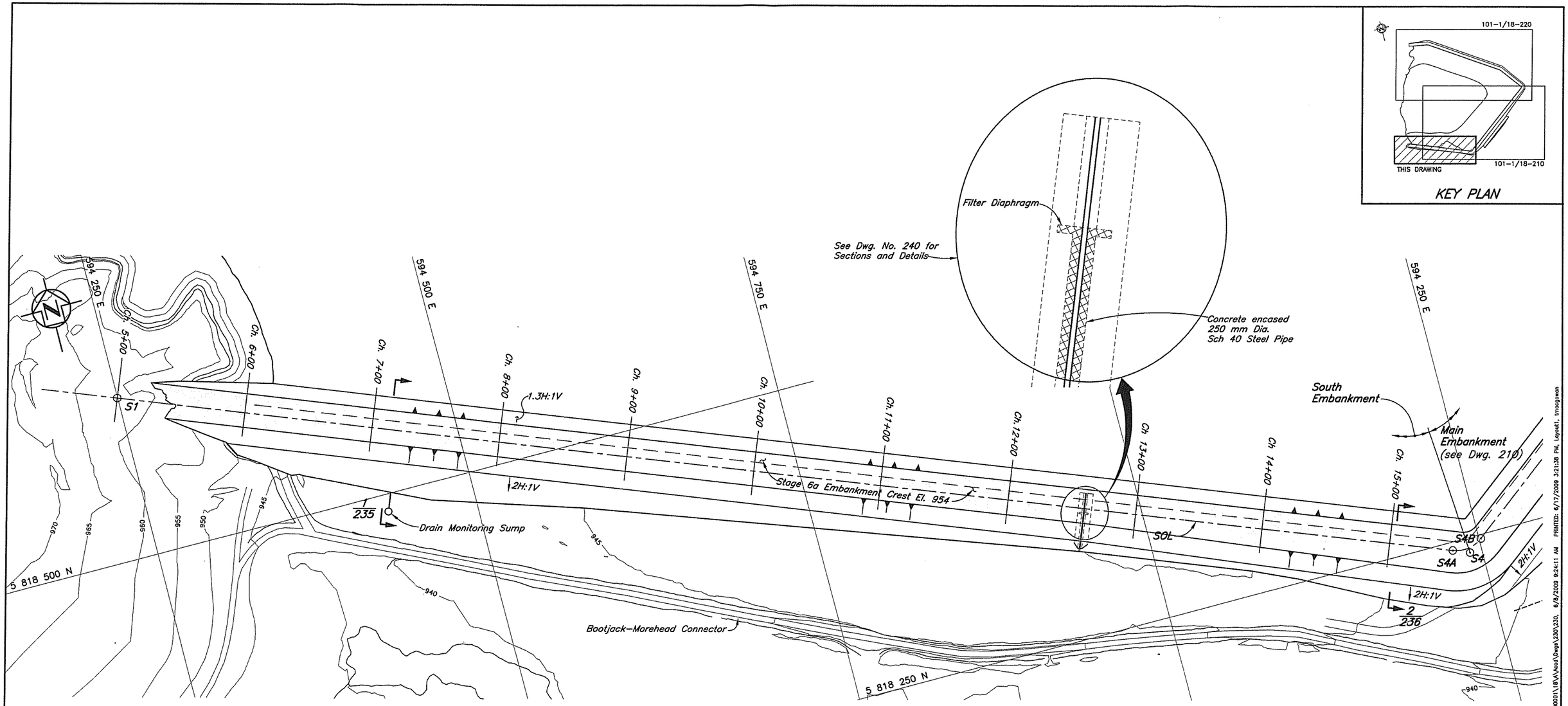

PLAN

Scale 30 0 30 60 90 120 150 m

NOTES:

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

DRG. NO.	DESCRIPTION
235/236	STAGE 6a SOUTH EMBANKMENT – SECTIONS
220	STAGE 6a PERIMETER EMBANKMENT – PLAN
210	STAGE 6a MAIN EMBANKMENT – PLAN
104	STAGE 6a TAILINGS EMBANKMENT – MATERIAL SPECIFICATIONS

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
2	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
1	07MAY'08	ISSUED FOR CONSTRUCTION	LJG	TAM	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA L.J. GALBRAITH 25493 28/MAY/09

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TAILINGS STORAGE FACILITY
STAGE 6a SOUTH EMBANKMENT
PLAN

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	230	2

XREF FILE : Topo2004; Features: SL_6_Plan_IFC; Stage6_Plan IMAGE FILE(S):

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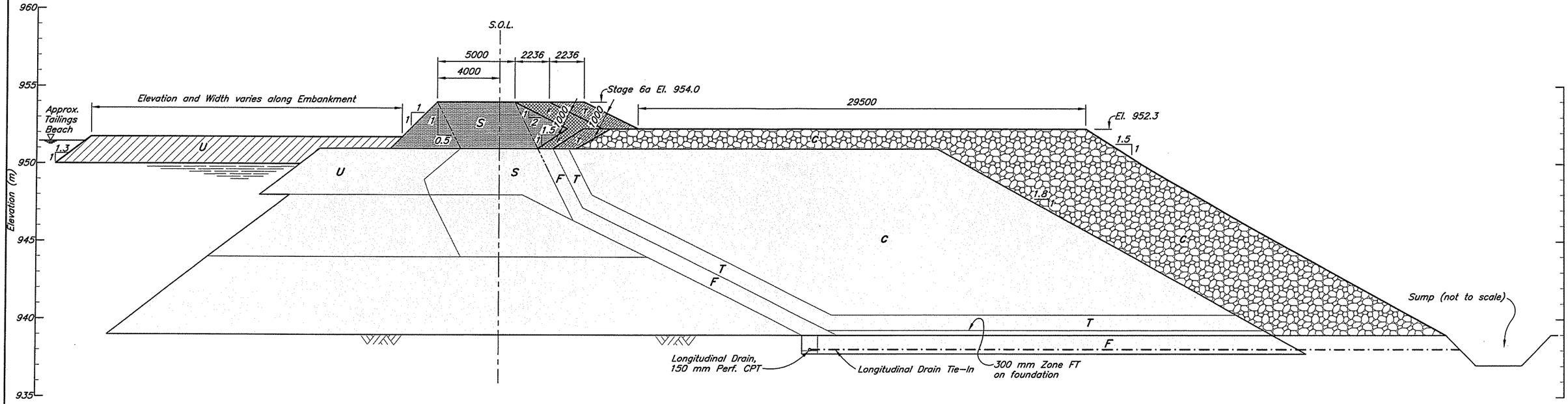
VANCOUVER B.C.



SECTION $\frac{1}{230}$

NOTES:

1. For material specifications and legend see Drg. 104.
2. All dimensions in millimetres and elevations in metres, unless noted otherwise.

Scale 2.5 0 2.5 5 7.5 10 12.5 m

REFERENCE DRAWINGS	
236	STAGE 6a SOUTH EMBANKMENT – SECTION 2
230	STAGE 6a SOUTH EMBANKMENT – PLAN
104	STAGE 6a TAILINGS EMBANKMENT – MATERIAL SPECIFICATIONS
DRG. NO.	DESCRIPTION

REVISIONS						
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
2	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
1	07MAY'08	ISSUED FOR CONSTRUCTION	LJG	TAM	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

XREF FILE : IMAGE FILE(S):

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — L. J. GALBRAITH — 25493 — 17 JUNE 2009

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TAILINGS STORAGE FACILITY
STAGE 6a SOUTH EMBANKMENT
SECTION 1

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	235	2

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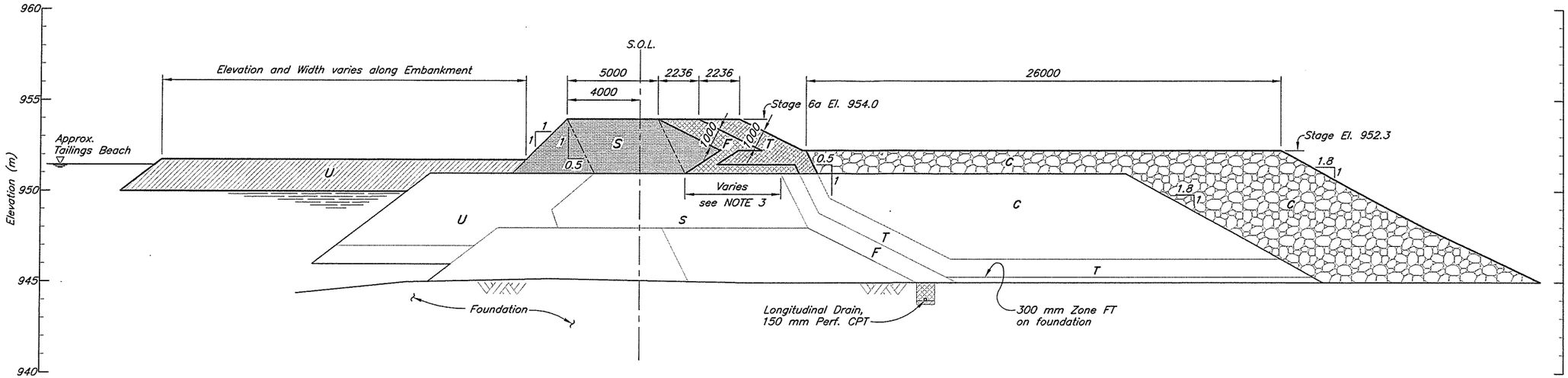

SECTION 2/230

Scale 2.5 0 2.5 5 7.5 10 12.5 m

Notes:

1. *For material specifications and legend see drg. 104.*
2. *All dimensions in millimetres and elevations in metres, unless noted otherwise.*
3. *Maximum dimension of 4500 at Ch 15+00 and gradually decrease to 0 at Ch 13+50.*

XREF FILE : IMAGE FILE(S):

DRG. NO.	DESCRIPTION
235	STAGE 6a SOUTH EMBANKMENT – SECTION 1
230	STAGE 6a SOUTH EMBANKMENT – PLAN
104	STAGE 6a TAILINGS EMBANKMENT – MATERIAL SPECIFICATIONS

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BS	KJB
0	07MAY'08	ISSUED FOR CONSTRUCTION	LJG	JY	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA D. GALBRAITH 25493 2009

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MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a SOUTH EMBANKMENT
SECTION 2

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	236	1

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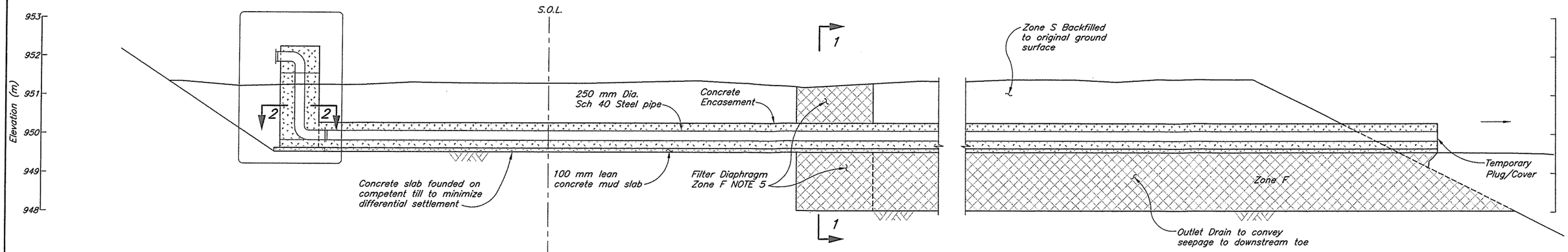
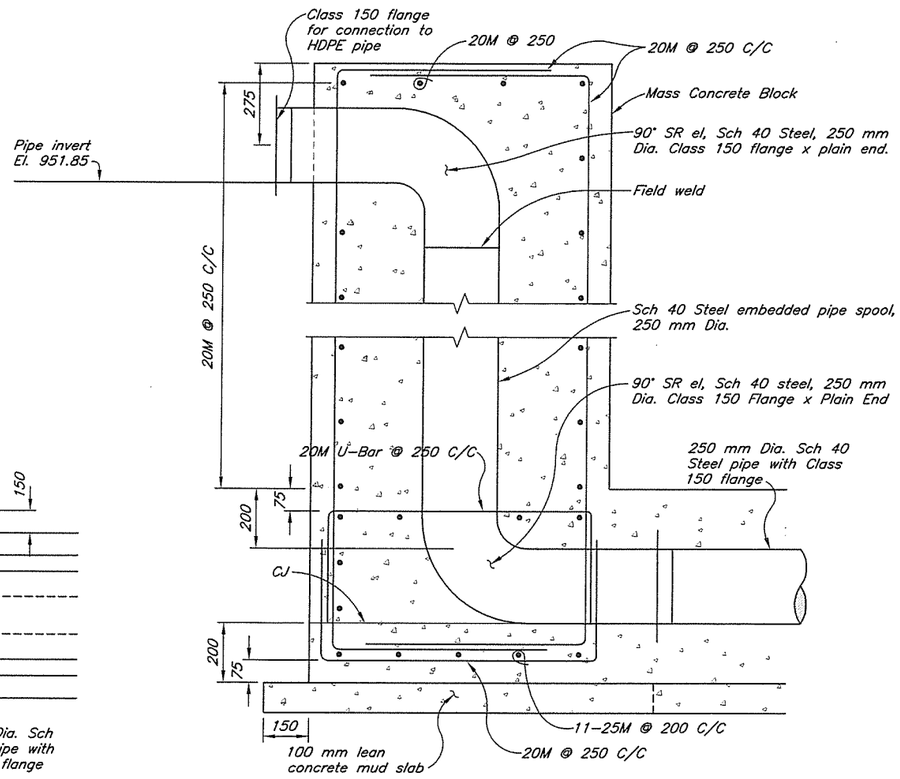
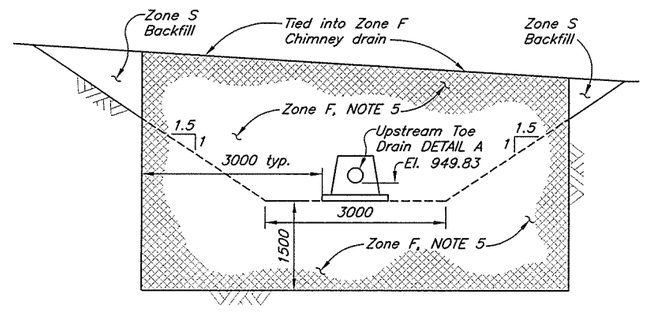


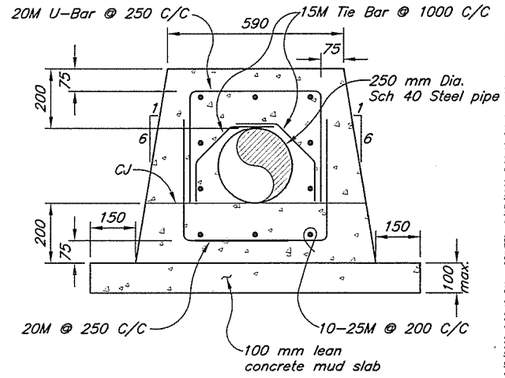
TYPICAL SECTION OF UPSTREAM TOE DRAIN
Scale A



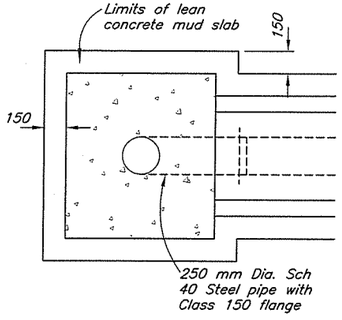
DETAIL B – UPSTREAM TOE DRAIN
CONCRETE ENCASEMENT REINFORCEMENT DETAILS
Scale B



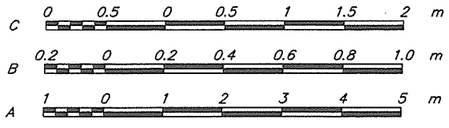
SECTION 1 – FILTER DIAPHRAGM
Scale A



DETAIL A – OUTLET DRAIN
CONCRETE ENCASEMENT REINFORCEMENT DETAILS
Scale B



SECTION 2
UPSTREAM TOE DRAIN TO
OUTLET DRAIN CONNECTION
Scale C



NOTES

1. Concrete strength: Type C30–20 (30 MPa with 20 mm course aggregate).
2. Minimum concrete cover 40mm.
3. Reinforcement steel to CSA G30.18 Grade 400R.
4. All dimensions in millimetres and elevations in metres, unless noted otherwise.
5. For material specifications and legend see Drg. 104.

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MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a – SOUTH EMBANKMENT
UPSTREAM TOE DRAIN
SECTIONS AND DETAILS

PROJECT/ASSIGNMENT NO. VA101-1/18 | DRAWING NO. 240 | REVISION 2

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA J. GALBRAITH 25493 — Jun 22/09

ORG. NO.	DESCRIPTION
220	STAGE 6a PERIMETER EMBANKMENT – PLAN

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
2	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	TAM	BB	KJB
1	23JUL'07	ISSUED FOR CONSTRUCTION	LJG	TAM	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

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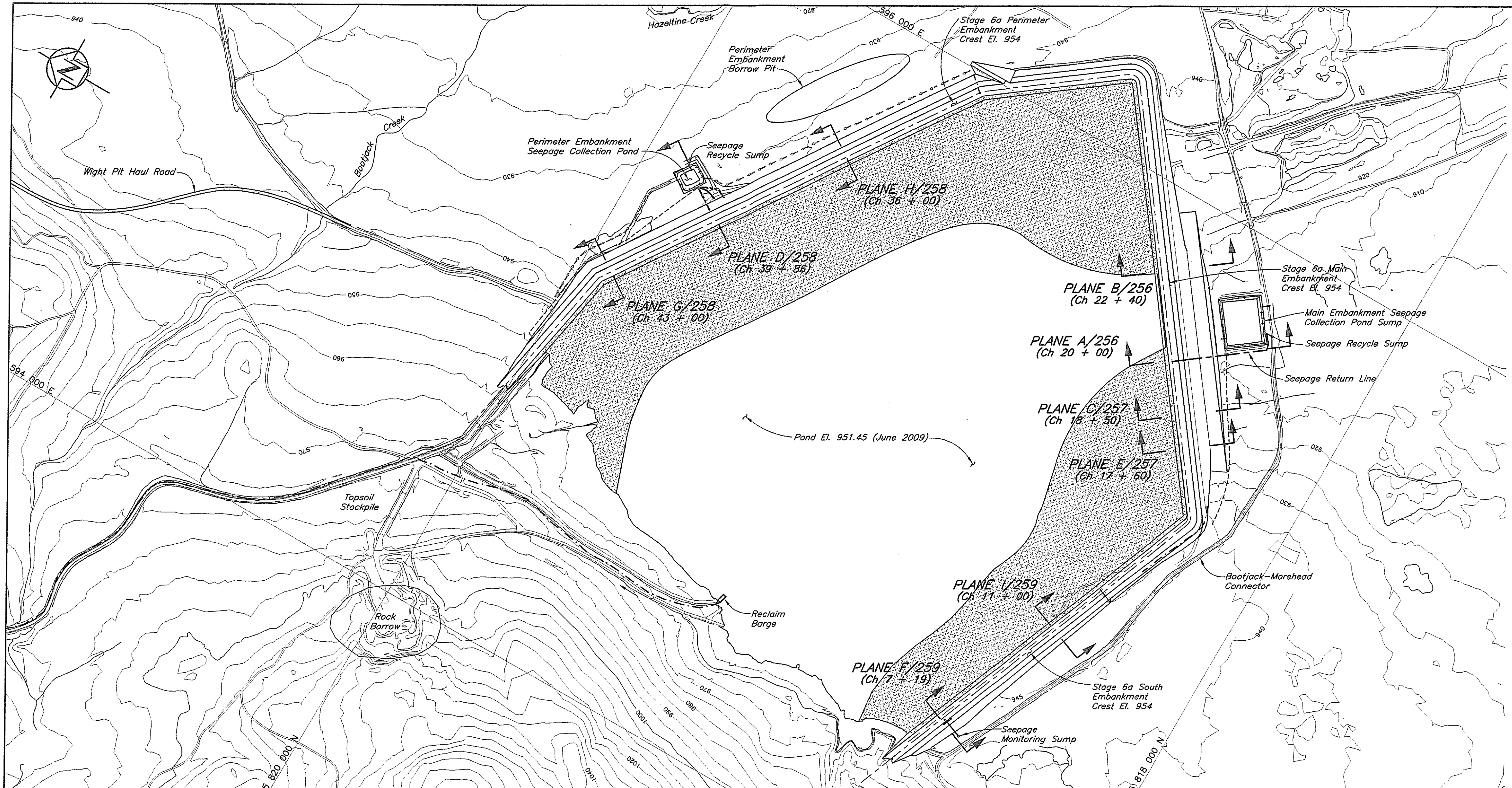
VANCOUVER B.C.



NOTES

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

Scale 100 0 100 200 300 400 500m

DRG. NO.	DESCRIPTION
259	STAGE 6a INSTRUMENTATION – SOUTH EMB. – PLANES F & I
258	STAGE 6a INSTRUMENTATION – PERIMETER EMB. – PLANES D, G & H
257	STAGE 6a INSTRUMENTATION – MAIN EMB. – PLANES C & E
256	STAGE 6a INSTRUMENTATION – MAIN EMB. – PLANES A & B

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	05MAR'08	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	WAL	BB	KJB

REVISIONS

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TAILINGS STORAGE FACILITY
STAGE 6a – INSTRUMENTATION
PLAN VIEW OF PIEZOMETER PLANES

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	255	0

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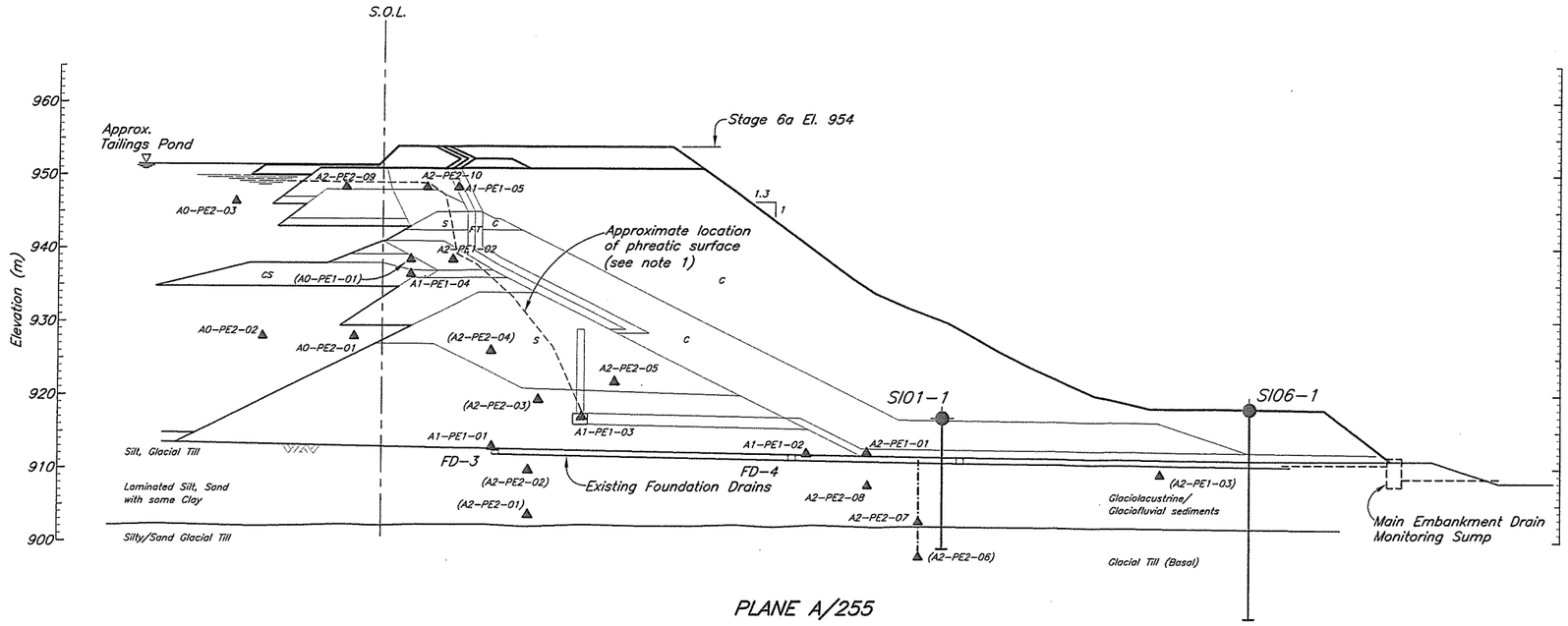
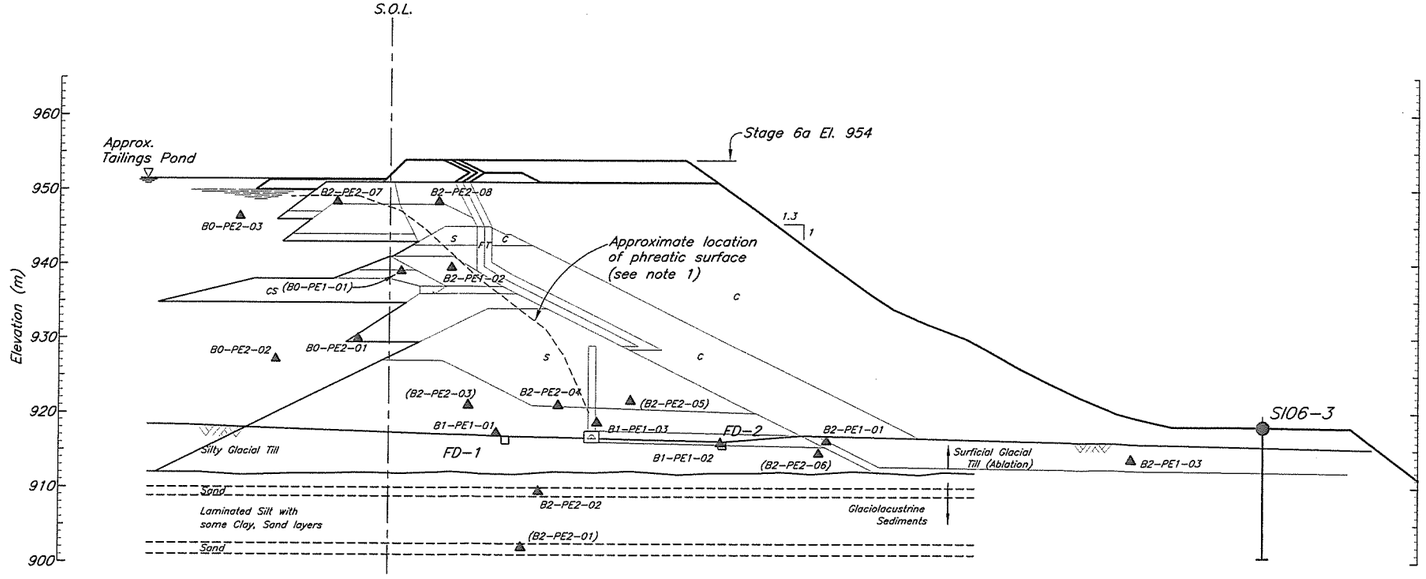


PLANE A/255



PLANE B/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–PE2–03 ▲ Installed Piezometer

(A2–PE2–06) ▲ Piezometer no longer functioning

NOTE:

1. Piezometer pore pressures used to estimate phreatic surface.

Scale 8 0 8 16 24 32 40 m

REFERENCE DRAWINGS	
259.	STAGE 6a INSTRUMENTATION – SOUTH EMB. – PLANES F AND I
258	STAGE 6a INSTRUMENTATION – PERIMETER EMB.–PLANES D, G & H
257	STAGE 6a INSTRUMENTATION – MAIN EMB. – PLANES C AND E
255	TSF–STAGE 6a–INSTRUMENTATION–PLAN VIEW OF PIEZOMETER PLANES
DRG. NO.	DESCRIPTION

REVISIONS						
REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	JY	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

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MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a – INSTRUMENTATION
MAIN EMBANKMENT
PLANES A AND B

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	256	0

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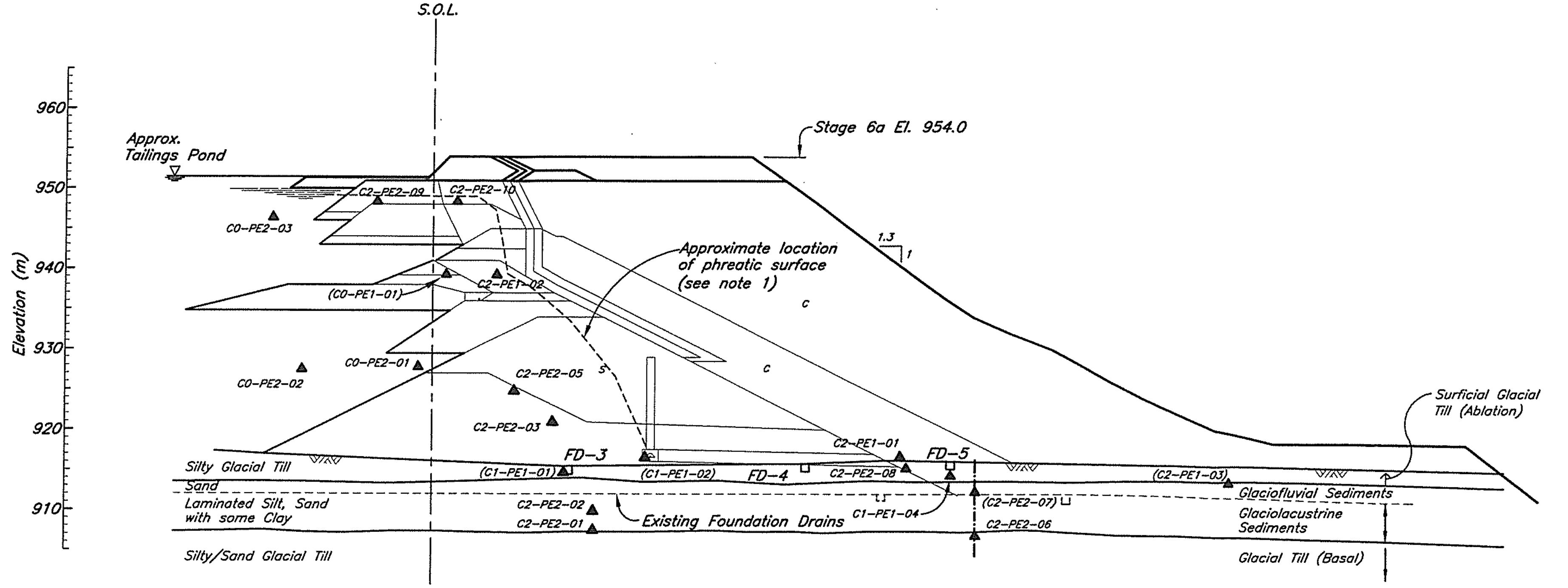
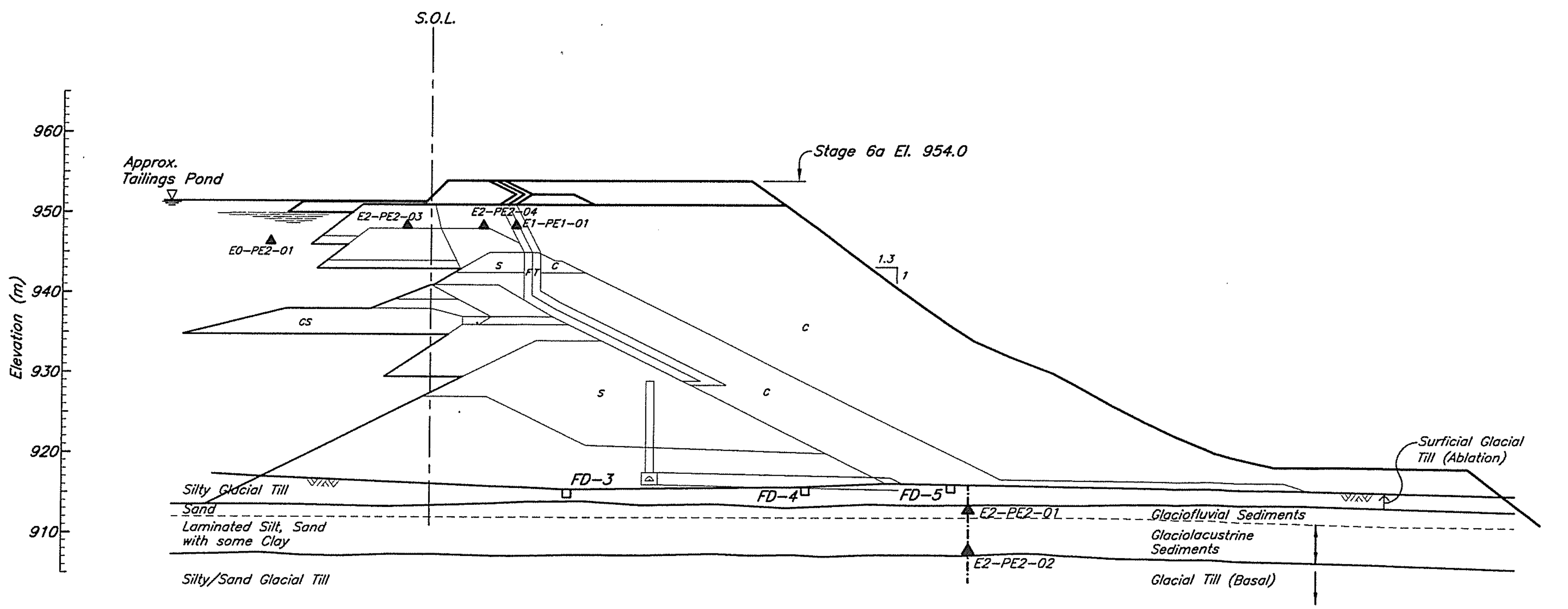


PLANE C/255



PLANE E/255

LEGEND

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

A2-PE2-03 ▲ Installed Piezometer

(C1-PE1-02) ▲ Piezometer no longer functioning

NOTE:

1. Piezometer pore pressures used to estimate phreatic surface.

Scale 8 0 8 16 24 32 40 m

DRG. NO.	DESCRIPTION
259	STAGE 6a INSTRUMENTATION – SOUTH EMB. – PLANES F & I
258	STAGE 6a INSTRUMENTATION – PERIMETER EMB.–PLANES D, G & H
257	STAGE 6a INSTRUMENTATION – MAIN EMB. – PLANES A AND B
255	TSF–STAGE 6a–INSTRUMENTATION–PLAN VIEW OF PIEZOMETER PLANES

REFERENCE DRAWINGS

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

REVISIONS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	JY	BB	LJG
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER – PROVINCE OF BRITISH COLUMBIA – L. J. GALBRAITH 25493

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TAILINGS STORAGE FACILITY
STAGE 6a – INSTRUMENTATION
MAIN EMBANKMENT
PLANES C AND E

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	257	1

XREF FILE : IMAGE FILE(S):

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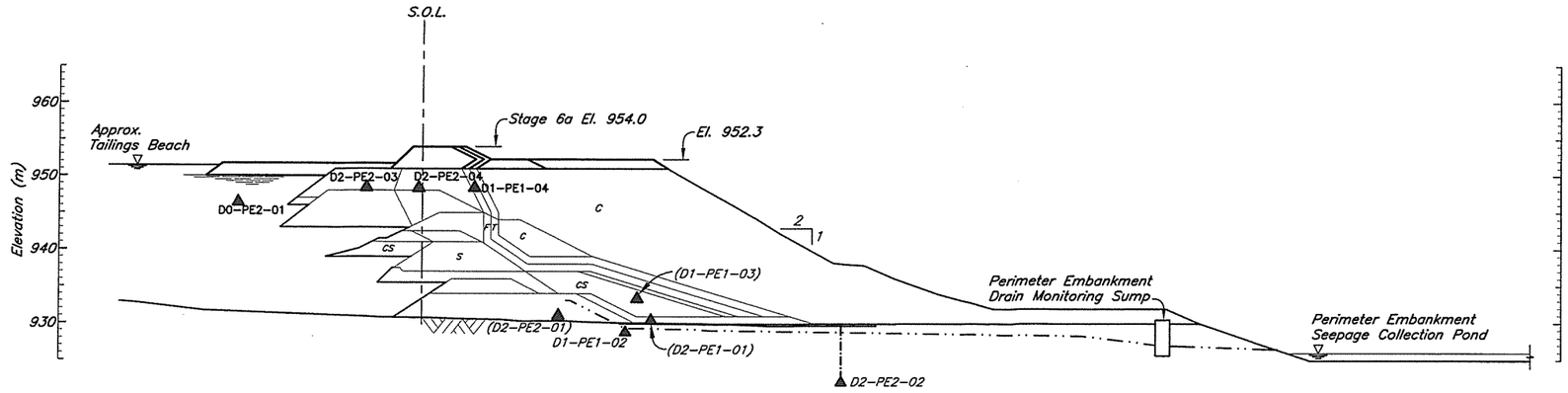
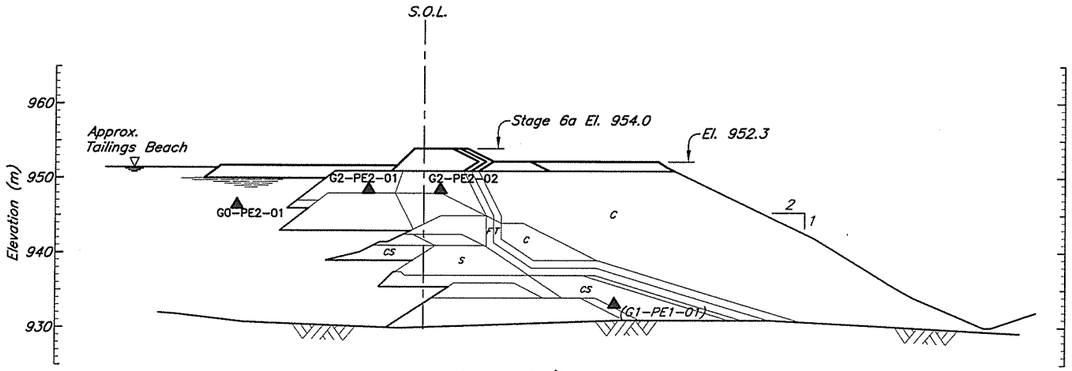
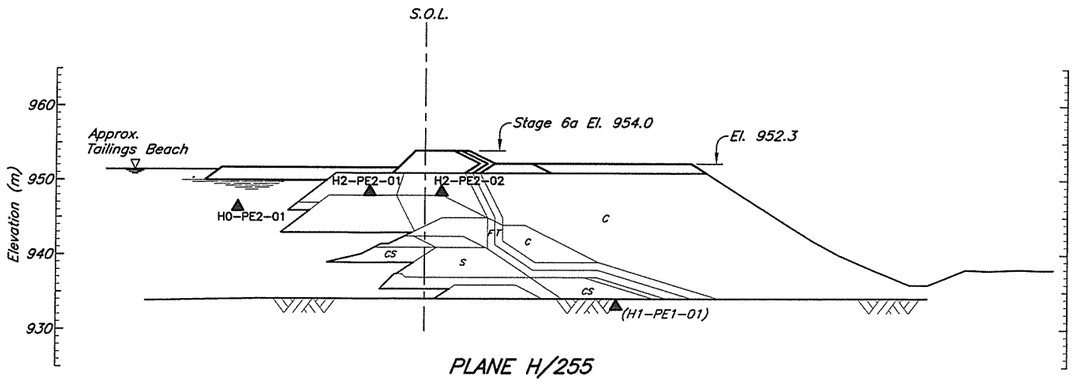


PLANE D/255



PLANE G/255



PLANE H/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-PE2-03 ▲ Installed Piezometer

(D2-PE2-01) ▲ Piezometer no longer functioning

Scale 8 0 8 16 24 32 40 m

VANCOUVER B.C. SAVED: M:\1\01\00001\16\A\cad\Dwgs\258\258, 6/17/2009 9:46:00 AM PRINTED: 6/17/2009 9:53:03 AM Layout1, tmcgowen

XREF FILE : IMAGE FILE(S):

DRG. NO.	DESCRIPTION
259	STAGE 6a INSTRUMENTATION – SOUTH EMB. – PLANES F AND I
257	STAGE 6a INSTRUMENTATION – MAIN EMB. – PLANES C AND E
256	STAGE 6a INSTRUMENTATION – MAIN EMB. – PLANES A AND B
255	TSF-STAGE 6a-INSTRUMENTATION-PLAN VIEW OF PIEZOMETER PLANES

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	JY	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA L. J. GALBRAITH 25493 23/06/09

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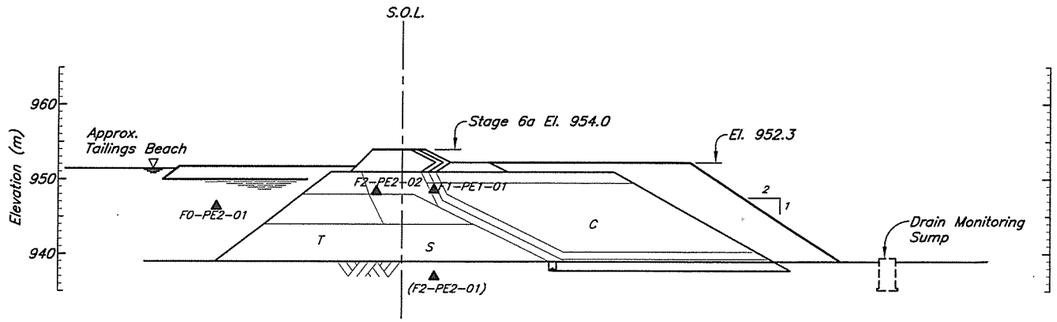
MOUNT POLLEY MINING CORPORATION

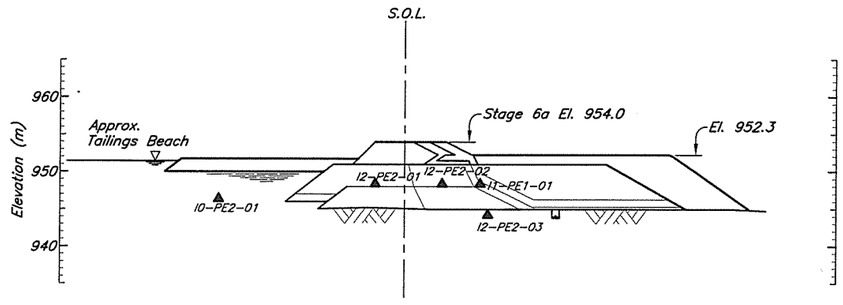
MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a – INSTRUMENTATION
PERIMETER EMBANKMENT
PLANES D, G AND H

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	258	1



PLANE F/255



PLANE I/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-PE2-03 ▲ Installed Piezometer

(F2-PE2-01) ▲ Piezometer no longer functioning

Scale 8 0 8 16 24 32 40 m

DRG. NO.	DESCRIPTION
258	STAGE 6a INSTRUMENTATION – PERIMETER EMB.–PLANES D, G & H
257	STAGE 6a INSTRUMENTATION – MAIN EMB. – PLANES C AND E
256	STAGE 6a INSTRUMENTATION – MAIN EMB. – PLANES A AND B
255	TSF–STAGE 6a–INSTRUMENTATION–PLAN VIEW OF PIEZOMETER PLANES

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
1	16MAR'09	AS BUILT FOR STAGE 6a CONSTRUCTION	LJG	JY	BB	KJB
0	08JUN'07	ISSUED FOR STAGE 6 PERMITTING	LJG	JY	BB	KJB

REVISIONS

XREF FILE : IMAGE FILE(S):

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L.J. GALBRAITH
25493

Knight Piésold CONSULTING

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

TAILINGS STORAGE FACILITY
STAGE 6a – INSTRUMENTATION
SOUTH EMBANKMENT
PLANES F AND I

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
VA101-1/18	259	1

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VANCOUVER, B.C.

Knight Piésold
CONSULTING

APPENDIX A

LABORATORY TEST RESULTS

Appendix A1	Zone S Control
Appendix A2	Zone S Record
Appendix A3	Zone U Record
Appendix A4	Zone F Record
Appendix A5	Zone T Record
Appendix A6	South Embankment Concrete Encasement – Concrete Strength Test Results

Knight Piésold
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APPENDIX A1

ZONE S CONTROL

(Pages A1-1 to A1-35)

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

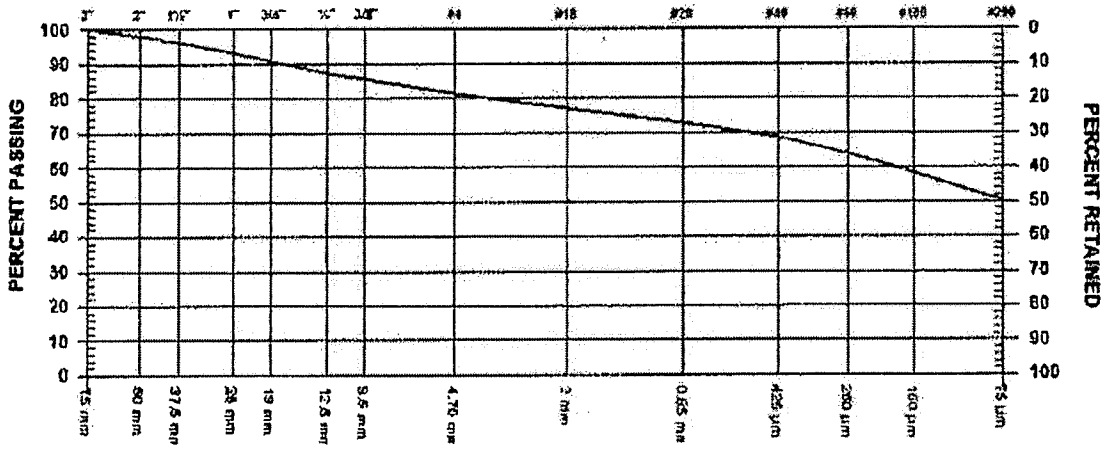
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 1 DATE RECEIVED 2008.May.22 DATE TESTED 2008.May.23 DATE SAMPLED 2008.May.12

SUPPLIER Borrow Area
SOURCE C-S6-ZS-01/08
SPECIFICATION
MATERIAL TYPE TILL

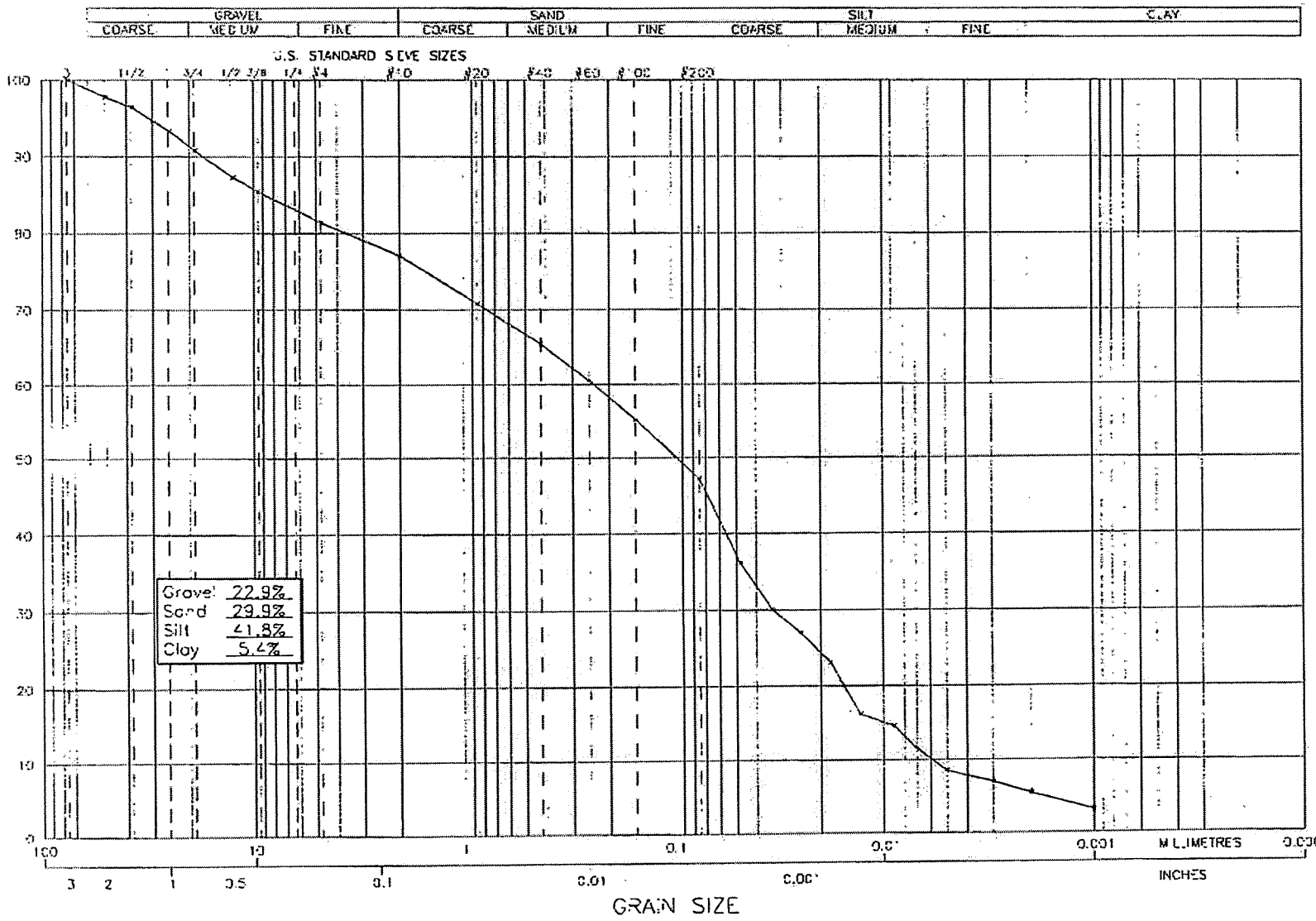
SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	100.0	
2"	50 mm	97.7	
1 1/2"	37.5 mm	96.4	
1"	25 mm	93.3	
3/4"	19 mm	90.8	
1/2"	12.5 mm	87.3	
3/8"	9.5 mm	85.5	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	81.4	
No. 10	2.00 mm	77.1	
No. 20	850 µm	72.9	
No. 40	425 µm	68.6	
No. 60	250 µm	63.7	
No. 100	150 µm	58.4	
No. 200	75 µm	50.1	

COMMENTS



A1-2

GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 GRAIN SIZE ANALYSIS OF C-S6-ZS-01/08	SCALE: N.T.S.	DATE: 2008/05/29
		PROJECT NO: K-2585	PLATE NO. 2585-B1

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

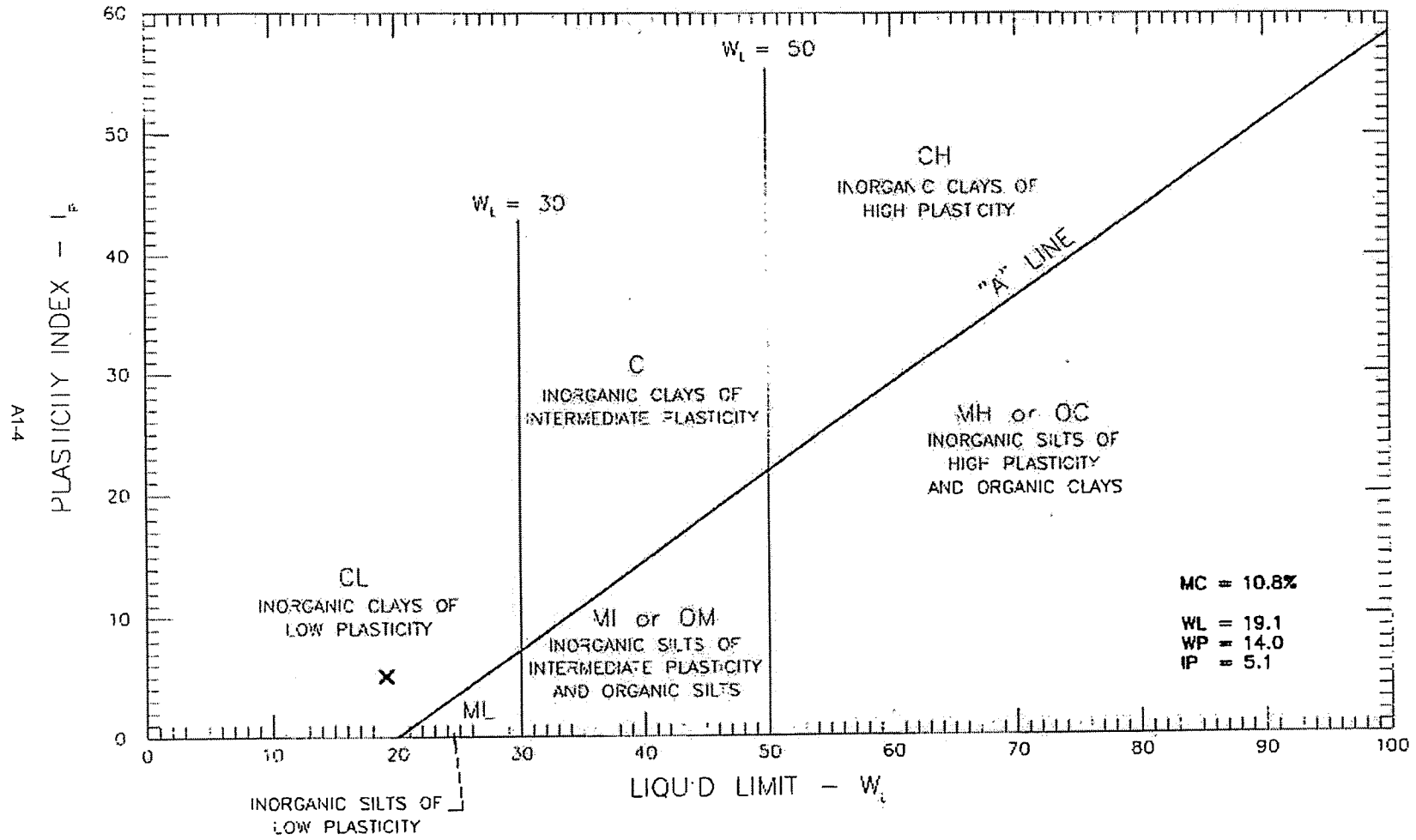
Client: Mount Polley Mining Corp.				Date: May 29, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: C-S6-ZS-01/08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 05.12.08	Date Received: 05.22.08			Date Tested: 05.26.08

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	**77.1**
Wet Wt. & Tare	1210.8	25.4				20	4.1	45.9	91.8	**70.8**
Dry Wt. & Tare	1109.8	19.0				40	3.4	42.5	85.0	**65.5**
Water Wt.	101.0	12.5				60	3.2	39.3	78.6	**60.6**
Tare Wt.	180.1	9.5				100	3.5	35.8	71.6	**55.2**
Wt. Of Dry Soil	929.7	4.75				200	5.2	30.6	61.2	**47.2**
Moisture Content %	**10.9**	10	**SEE WASHED SIEVE**			Pan	30.6			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
=(100xWet Soil Wt.)/(100 + Initial Moisture)						Unwashed Wt.=				
		Total				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	0.771	0.5	32.0	21.0	0.01348	25.5	12.1	4.917	0.066	51.0	**39.3**
50.0	0.771	1	30.0	21.0	0.01348	23.5	12.4	3.524	0.048	47.0	**36.2**
50.0	0.771	2	26.0	21.0	0.01348	19.5	13.1	2.557	0.034	39.0	**30.1**
50.0	0.771	4	24.0	21.0	0.01348	17.5	13.4	1.831	0.025	35.0	**27.0**
50.0	0.771	8	21.5	21.0	0.01348	15.0	13.8	1.314	0.018	30.0	**23.1**
50.0	0.771	15	17.0	21.0	0.01348	10.5	14.6	0.985	0.013	21.0	**16.2**
50.0	0.771	30	16.0	21.0	0.01348	9.5	14.7	0.701	0.009	19.0	**14.6**
50.0	0.771	60	14.0	21.0	0.01348	7.5	15.1	0.501	0.007	15.0	**11.6**
50.0	0.771	120	12.0	21.0	0.01348	5.5	15.4	0.358	0.005	11.0	**8.5**
50.0	0.771	240	11.0	22.0	0.01332	4.5	15.6	0.255	0.003	9.0	**6.9**
50.0	0.771	480	10.0	22.0	0.01332	3.5	15.7	0.181	0.002	7.0	**5.4**
50.0	0.771	1440	8.5	22.0	0.01332	2.0	16.0	0.105	0.001	4.0	**3.1**

Hydrometer #: 794968	Graduate #: 1	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO



A1-4

GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 ATTERBERG LIMITS OF C-S6-ZS-01/08	SCALE: N.T.S.	DATE: 2008/05/29
		PROJECT NO: K-2585	PLATE NO. 2585-C1

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

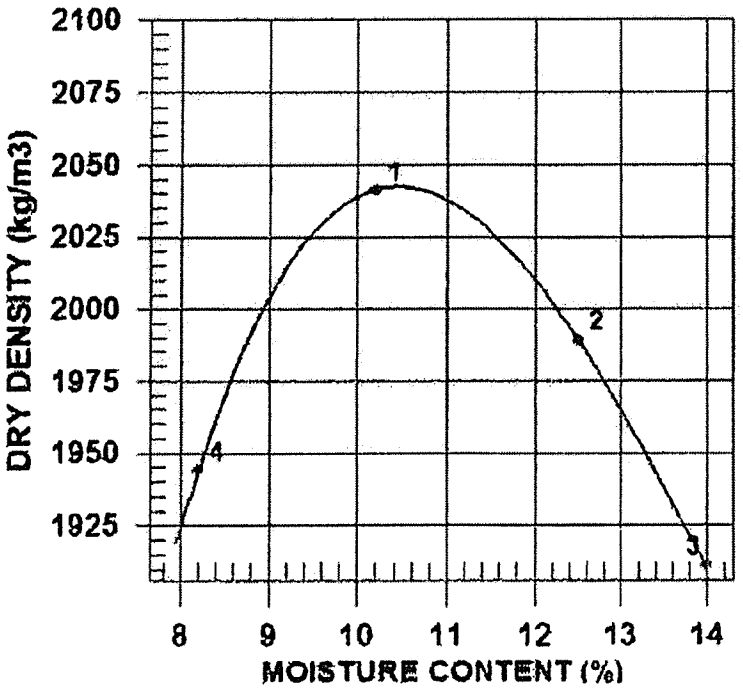
TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

PROCTOR NO. 1 DATE TESTED 2008.May.27 DATE RECEIVED 2008.May.22 DATE SAMPLED 2008.May.12

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client		
TESTED BY	DJ	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER	Borrow Area		
SOURCE	C-S6-%S-01/08	RAMMER TYPE	Automatic
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE	75MM	RETAINED 4.75mm SCREEN	19.0 %
DESCRIPTION		OVERSIZE SPECIFIC GRAVITY	2.66
ROCK TYPE		TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2249	2041	10.2
2	2238	1989	12.5
3	2178	1911	14.0
4	2103	1944	8.2

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2040	10.5
OVERSIZE CORRECTED	2140	8.5

COMMENTS
SPECIFIC GRAVITY = 2.668 (COARSE)

SPECIFIC GRAVITY = 2.683 (FINE)

Page 1 of 1 2008.May.30 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George BC V2L5S8
Phone (250)564-4304; fax (250) 564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

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

ATTN: Ron Marcel @ 250-790-2268

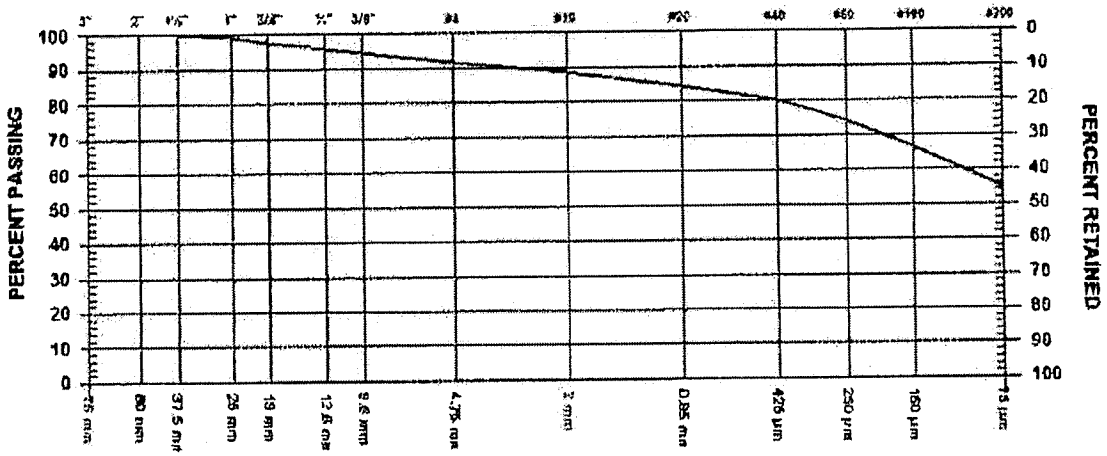
PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 2 DATE RECEIVED 2008.May.22 DATE TESTED 2008.May.23 DATE SAMPLED 2008.May.12

SUPPLIER Borrow Area
SOURCE C-S6-XS-02/08
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED

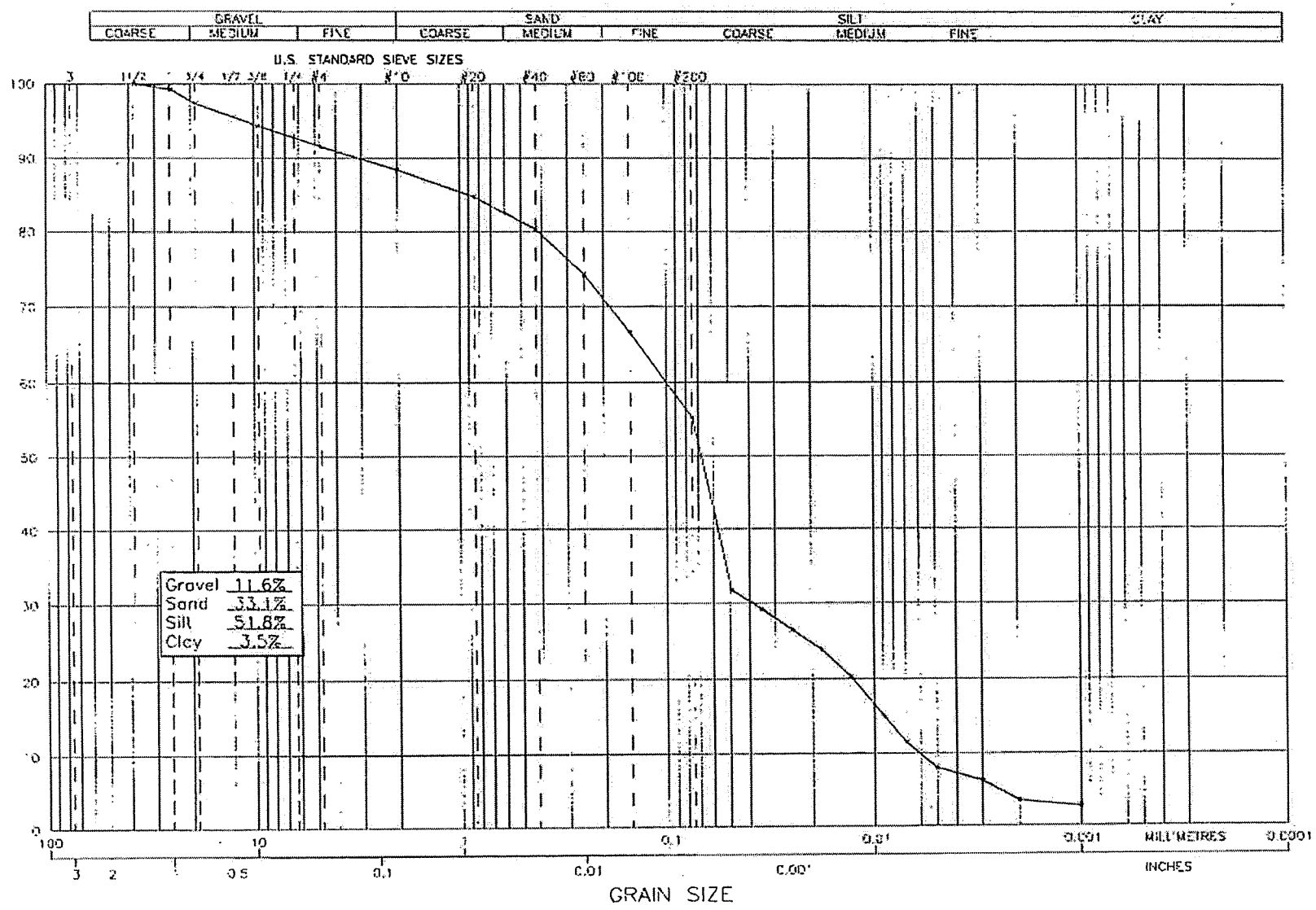


GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm		
1 1/2"	37.5 mm	100.0	
1"	25 mm	99.3	
3/4"	19 mm	97.4	
1/2"	12.5 mm	95.6	
3/8"	9.5 mm	94.4	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	91.6	
No. 10	2.00 mm	88.4	
No. 20	850 µm	84.5	
No. 40	425 µm	80.0	
No. 60	250 µm	73.9	
No. 100	150 µm	66.6	
No. 200	75 µm	55.1	

COMMENTS

Page 1 of 1 2008.May.29 GeoNorth Engineering Ltd. PER.



A1-7

GEONORTH ENGINEERING LTD. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 GRAIN SIZE ANALYSIS OF C-S6-ZS-02/08	SCALE: N.T.S.	DATE: 2008/05/29
		PROJECT NO: K-2585	PLATE NO. 2585-32

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp.				Date: May 29, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: C-S6-ZS-02/08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 05.12.08	Date Received: 05.22.08			Date Tested: 05.26.08

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	1261.4
Dry Wt. & Tare	1163.7
Water Wt.	97.7
Tare Wt.	181.4
Wt. Of Dry Soil	982.3
Moisture Content %	**9.9**
Dry Wt. Of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture)	

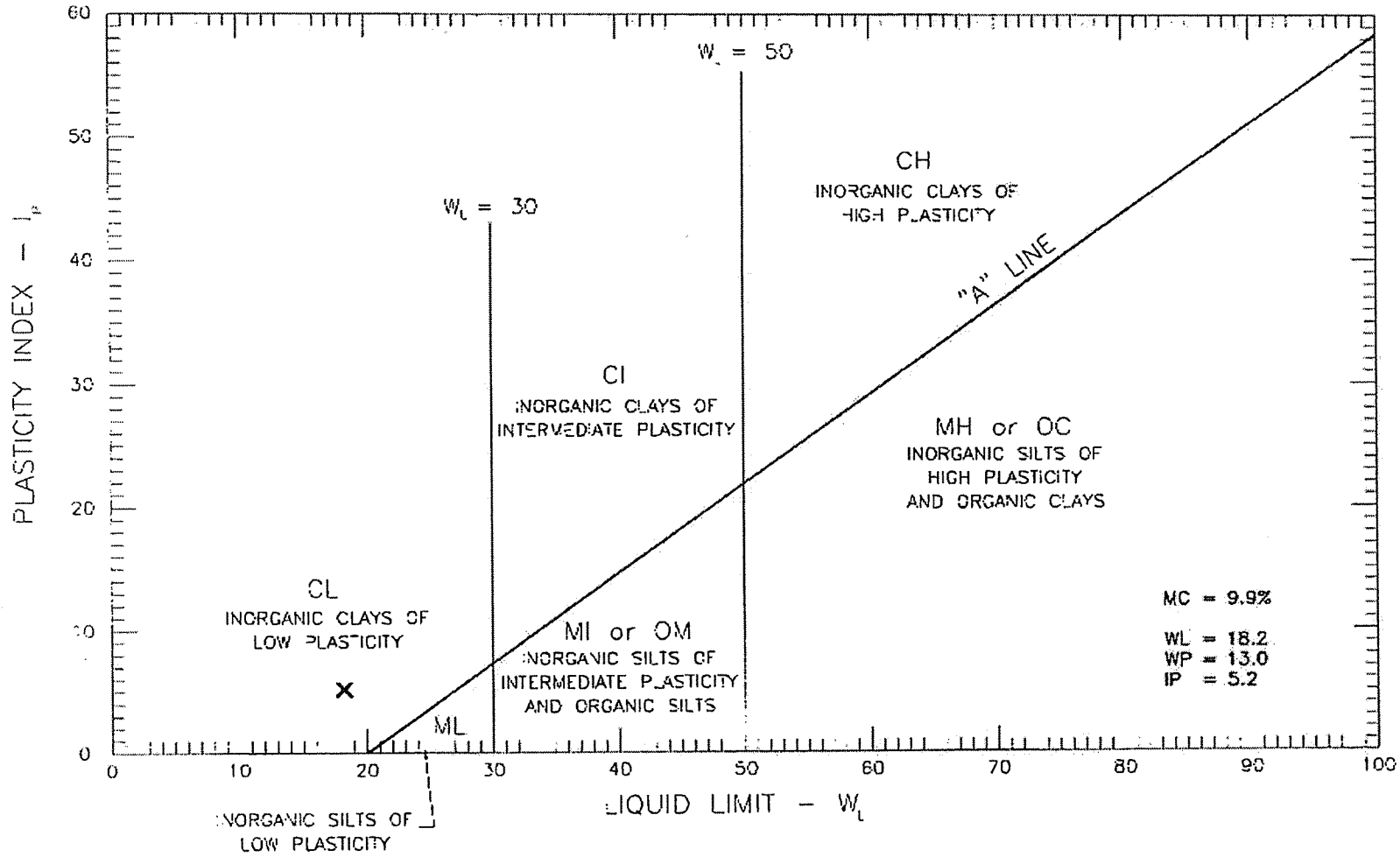
Sieve Analysis			
Sieve No.	**Weight Retained**	**Total Wt. Passing**	**% Finer Than Orig. Samp.**
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	**SEE WASHED SIEVE**		
Total			

Hydrometer Sieve Analysis				
Sieve No.	**Weight Retained**	**Total Wt. Finer Than**	**% Finer Than**	**% Finer Than Orig Samp.**
10		50.0	100.0	**88.4**
20	2.1	47.9	95.8	**84.7**
40	2.5	45.4	90.8	**80.3**
60	3.4	42.0	84.0	**74.3**
100	4.3	37.7	75.4	**66.6**
200	6.4	31.3	62.6	**55.3**
Pan	31.3			
Total	50.0			
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	0.884	0.5	28.0	21.0	0.01348	21.5	12.7	5.049	0.068	43.0	**38.0**
50.0	0.884	1	24.5	21.0	0.01348	18.0	13.3	3.650	0.049	36.0	**31.8**
50.0	0.884	2	23.0	21.0	0.01348	16.5	13.6	2.605	0.035	33.0	**29.2**
50.0	0.884	4	21.5	21.0	0.01348	15.0	13.8	1.859	0.025	30.0	**26.5**
50.0	0.884	8	20.0	21.0	0.01348	13.5	14.1	1.326	0.018	27.0	**23.9**
50.0	0.884	15	18.0	21.0	0.01348	11.5	14.4	0.980	0.013	23.0	**20.3**
50.0	0.884	30	15.0	21.0	0.01348	8.5	14.9	0.705	0.009	17.0	**15.0**
50.0	0.884	60	13.0	21.0	0.01348	6.5	15.2	0.504	0.007	13.0	**11.5**
50.0	0.884	120	11.0	21.0	0.01348	4.5	15.6	0.360	0.005	9.0	**8.0**
50.0	0.884	240	10.0	22.0	0.01332	3.5	15.7	0.256	0.003	7.0	**6.2**
50.0	0.884	480	8.5	22.0	0.01332	2.0	16.0	0.182	0.002	4.0	**3.5**
50.0	0.884	1440	8.0	22.0	0.01332	1.5	16.0	0.106	0.001	3.0	**2.7**

Hydrometer #: 794968	Graduate #: 2	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOR100



A1-9

GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 ATTERBERG LIMITS OF C-56-ZS-02/08	SCALE: N.T.S.	DATE: 2008/05/29
		PROJECT NO: K-2585	PLATE NO. 2585-C2

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George BC V2L5S8
Phone (250)564-4304; fax (250) 564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

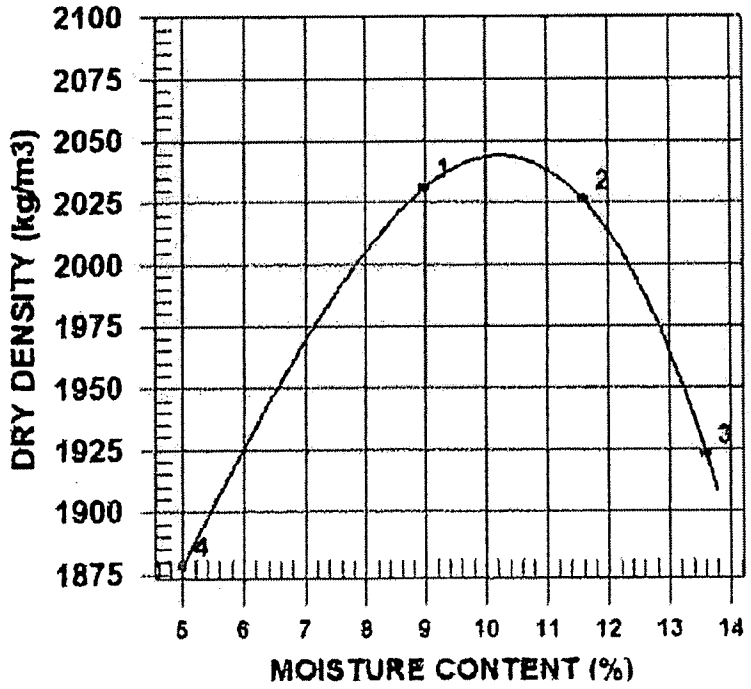
PROJECT Mount Polley Construction Program
Stage 6

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 2 DATE TESTED 2008.May.27 DATE RECEIVED 2008.May.22 DATE SAMPLED 2008.May.12

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
TESTED BY	DJ	RAMMER TYPE	Automatic
SUPPLIER	Borrow Area	PREPARATION	Moist
SOURCE	C-S6-ZS-02/08	OVERSIZE CORRECTION METHOD	ASTM 4718
MATERIAL IDENTIFICATION		RETAINED 4.75mm SCREEN	8.0 %
MAJOR COMPONENT	TILL	OVERSIZE SPECIFIC GRAVITY	2.67
SIZE	37.5MM	TOTAL NUMBER OF TRIALS	4
DESCRIPTION			
ROCK TYPE			



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2214	2031	9.0
2	2261	2026	11.6
3	2185	1923	13.6
4	1972	1878	5.0

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2040	10.0
OVERSIZE CORRECTED	2080	9.5

COMMENTS
SPECIFIC GRAVITY = 2.675 (COARSE)

SPECIFIC GRAVITY = 2.673 (FINE)

PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

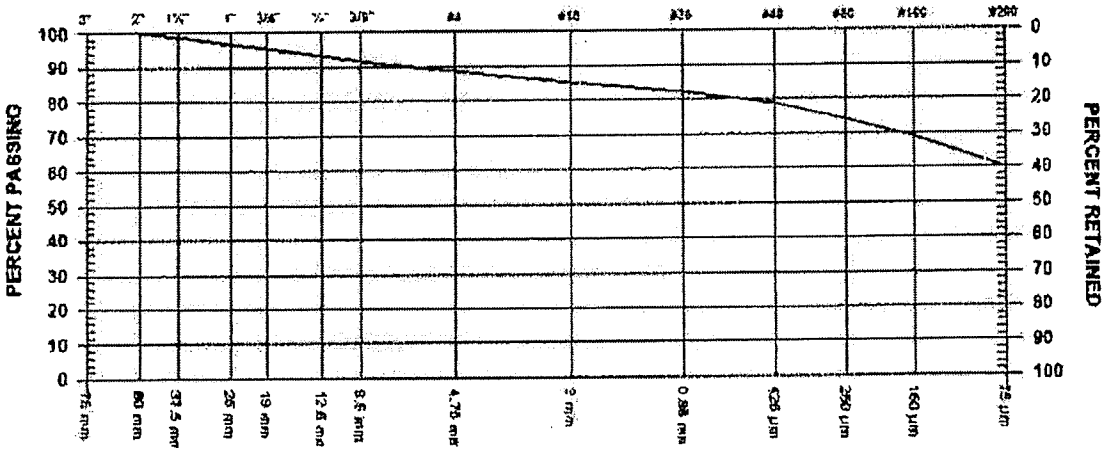
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 8 DATE RECEIVED 2008.Jul.21 DATE TESTED 2008.Jul.24 DATE SAMPLED 2008.Jul.17

SUPPLIER
SOURCE C-S6-XS-03-08
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY Client
TESTED BY SR
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm	100.0	
1 1/2"	37.5 mm	98.6	
1"	25 mm	96.8	
3/4"	19 mm	95.3	
1/2"	12.5 mm	93.2	
3/8"	9.5 mm	91.7	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	88.4	
No. 10	2.00 mm	85.1	
No. 20	850 µm	82.0	
No. 40	425 µm	78.7	
No. 60	250 µm	74.3	
No. 100	150 µm	68.9	
No. 200	75 µm	60.2	

MOISTURE CONTENT 11.0%

COMMENTS
BORROW PIT

 2008.Jul.29 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. / Knight Piesold				Date: July 29, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: C-S6-ZS-03-08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: SR			Checked By: NK
Date Sampled: 07.17.08	Date Received: 07.21.08			Date Tested: 07.25.08

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	
Dry Wt. & Tare	
Water Wt.	
Tare Wt.	
Wt. Of Dry Soil	
Moisture Content %	**11.0**
Dry Wt. Of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture)	

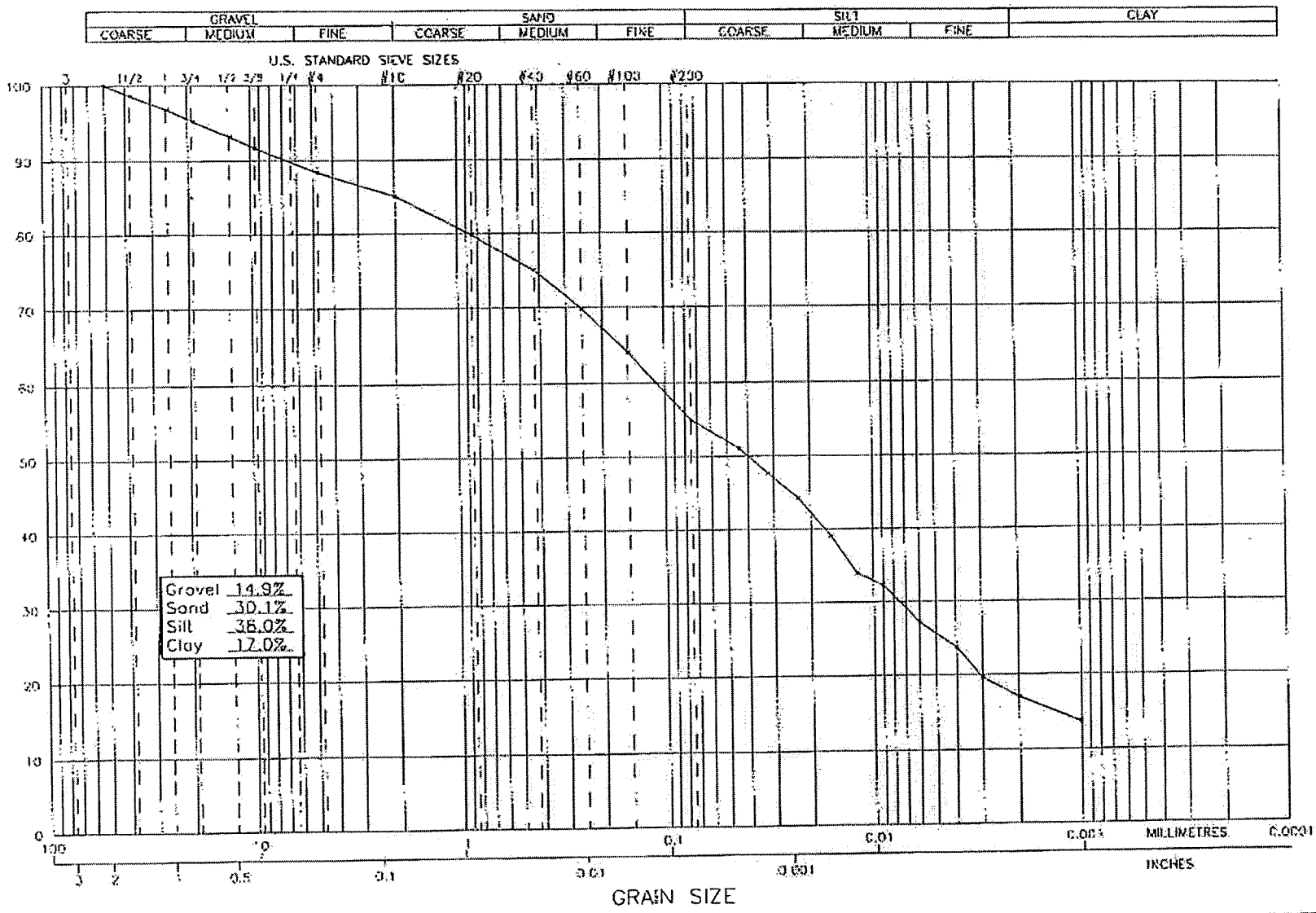
Sieve Analysis			
Sieve No.	**Weight Retained**	**Total Wt. Passing**	**% Finer Than Orig. Samp.**
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	**SEE WASHED SIEVE**		
Total			

Hydrometer Sieve Analysis				
Sieve No.	**Weight Retained**	**Total Wt. Finer Than**	**% Finer Than**	**% Finer Than Orig Samp.**
10		50.0	100.0	**85.1**
20	3.1	46.9	93.8	**79.8**
40	2.8	44.1	88.2	**75.1**
60	3.1	41.0	82.0	**69.8**
100	3.4	37.6	75.2	**64.0**
200	5.3	32.3	64.6	**55.0**
Pan	32.3			
Total	50.0			
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	0.851	0.5	38.0	23.0	0.01317	32.0	11.0	4.694	0.062	64.0	**54.5**
50.0	0.851	1	36.0	23.0	0.01317	30.0	11.3	3.368	0.044	60.0	**51.1**
50.0	0.851	2	34.0	23.0	0.01317	28.0	11.7	2.416	0.032	56.0	**47.7**
50.0	0.851	4	32.0	23.0	0.01317	26.0	12.0	1.732	0.023	52.0	**44.3**
50.0	0.851	8	29.0	23.0	0.01317	23.0	12.5	1.250	0.016	46.0	**39.1**
50.0	0.851	15	26.0	23.0	0.01317	20.0	13.0	0.931	0.012	40.0	**34.0**
50.0	0.851	30	25.0	23.0	0.01317	19.0	13.2	0.662	0.009	38.0	**32.3**
50.0	0.851	60	22.0	23.0	0.01317	16.0	13.7	0.477	0.006	32.0	**27.2**
50.0	0.851	120	20.0	23.0	0.01317	14.0	14.0	0.341	0.004	28.0	**23.8**
50.0	0.851	240	17.5	23.0	0.01317	11.5	14.4	0.245	0.003	23.0	**19.6**
50.0	0.851	480	16.0	23.0	0.01317	10.0	14.6	0.175	0.002	20.0	**17.0**
50.0	0.851	1440	14.0	23.0	0.01317	8.0	15.0	0.102	0.001	16.0	**13.6**

Hydrometer #: 794968	Graduate #: 1	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOEL20



A1-13

GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 GRAIN SIZE ANALYSIS OF C-S6-ZS-03-08	SCALE: N.T.S.	DATE: 2008/07/30
		PROJECT NO: K-2585	PLATE NO. 2585-B8

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

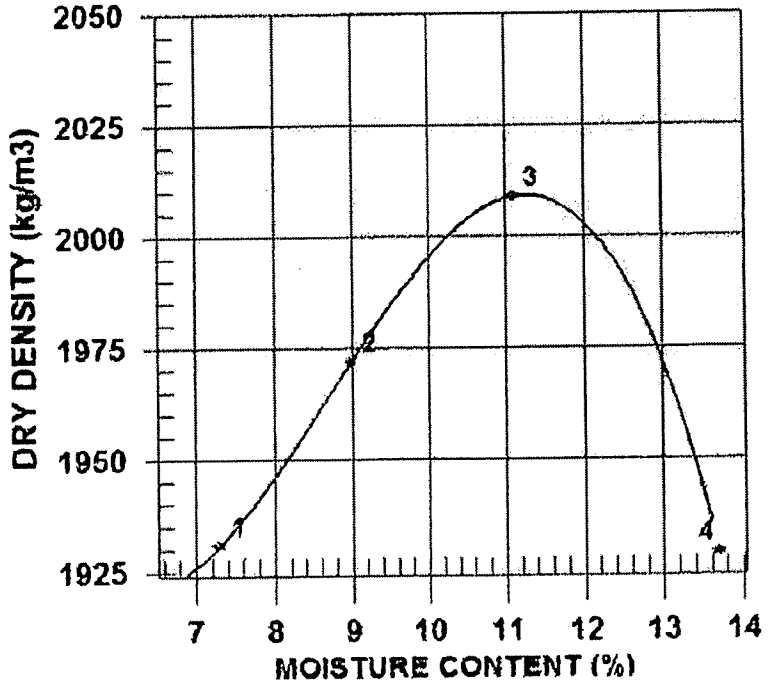
PROJECT Mount Polley Construction Program
Stage 6

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 8 DATE TESTED 2008.Jul.25 DATE RECEIVED 2008.Jul.21 DATE SAMPLED 2008.Jul.17

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
TESTED BY	SR	RAMMER TYPE	Automatic
SUPPLIER		PREPARATION	Moist
SOURCE	C-S6-ZS-03-08	OVERSIZE CORRECTION METHOD	ASTM 4718
MATERIAL IDENTIFICATION		RETAINED 4.75mm SCREEN	11.0 %
MAJOR COMPONENT	TILL	OVERSIZE SPECIFIC GRAVITY	2.73
SIZE	38MM	TOTAL NUMBER OF TRIALS	4
DESCRIPTION			
ROCK TYPE			



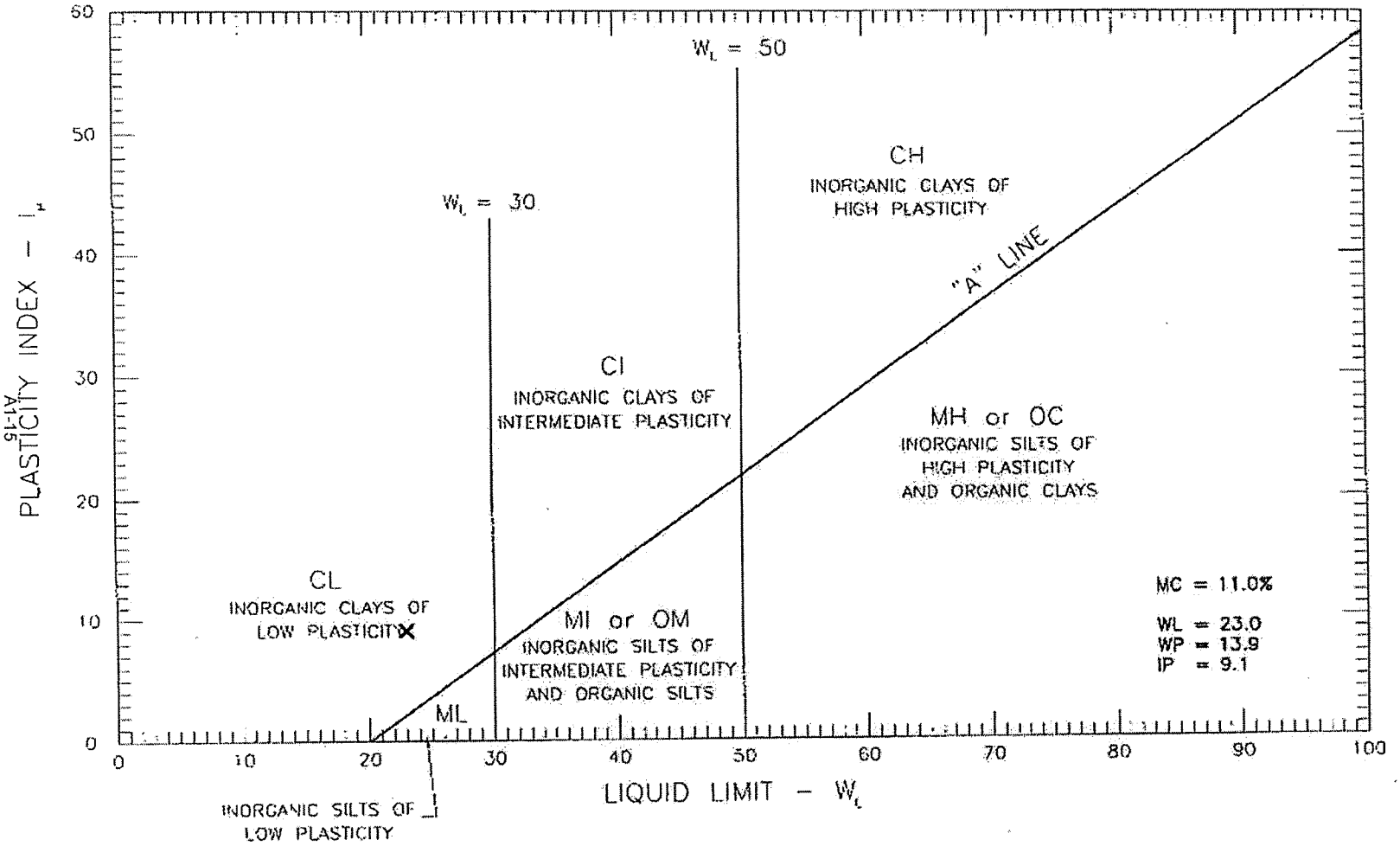
TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2072	1931	7.3
2	2149	1972	9.0
3	2232	2009	11.1
4	2193	1929	13.7

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2010	11.5
OVERSIZE CORRECTED	2070	10.5

COMMENTS
SPECIFIC GRAVITY (COARSE) = 2.732

SPECIFIC GRAVITY (FINE) = 2.678

 PER.



GeoNorth Engineering Ltd.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
ATTERBERG LIMITS OF C-S6-ZS-03-08

SCALE:	DATE:
N.T.S.	2008/07/30
PROJECT NO:	PLATE NO.
K-2585	2585-C8

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-3323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

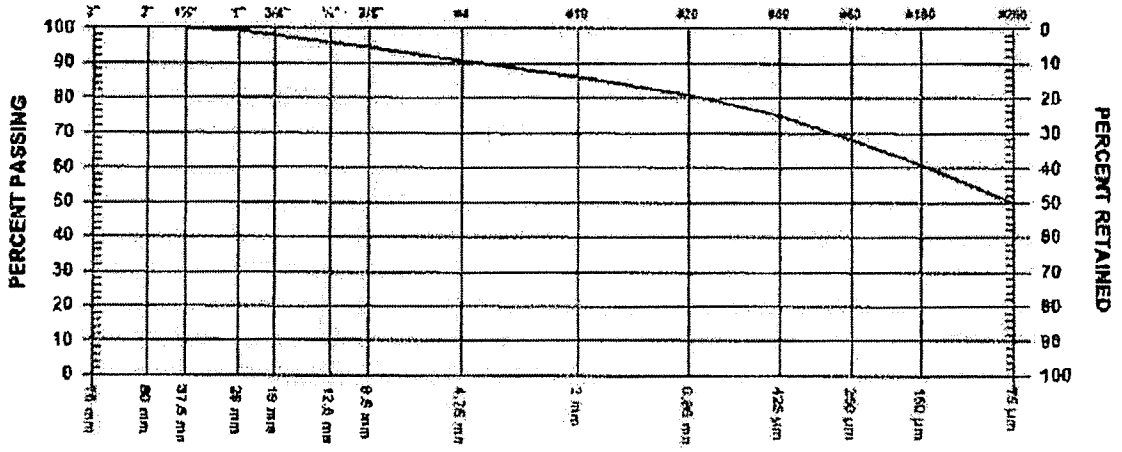
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 9 DATE RECEIVED 2008.Aug.06 DATE TESTED 2008.Aug.11 DATE SAMPLED 2008.Aug.04

SUPPLIER
SOURCE C-S6-ZS-04/08
SPECIFICATION
MATERIAL TYPE TILL

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	100.0	
1"	25 mm	99.2	
3/4"	19 mm	97.9	
1/2"	12.5 mm	96.0	
3/8"	9.5 mm	94.5	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	90.8	
No. 10	2.00 mm	86.1	
No. 20	850 µm	80.8	
No. 40	425 µm	75.0	
No. 60	250 µm	68.1	
No. 100	150 µm	60.8	
No. 200	75 µm	49.9	

MOISTURE CONTENT 8.8%

COMMENTS
SW CORNER PE BORROW PIT

Page 1 of 1 2008.Aug.15 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corp. / Knight Piesold				Date: August 15, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: C-S6-ZS-04/08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: SR			Checked By: NK
Date Sampled: 08.04.08	Date Received: 08.06.08			Date Tested: 08.13.08

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	1060.6
Dry Wt. & Tare	990.4
Water Wt.	70.2
Tare Wt.	196.3
Wt. Of Dry Soil	794.1
Moisture Content %	**8.8**
Dry Wt. Of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture)	

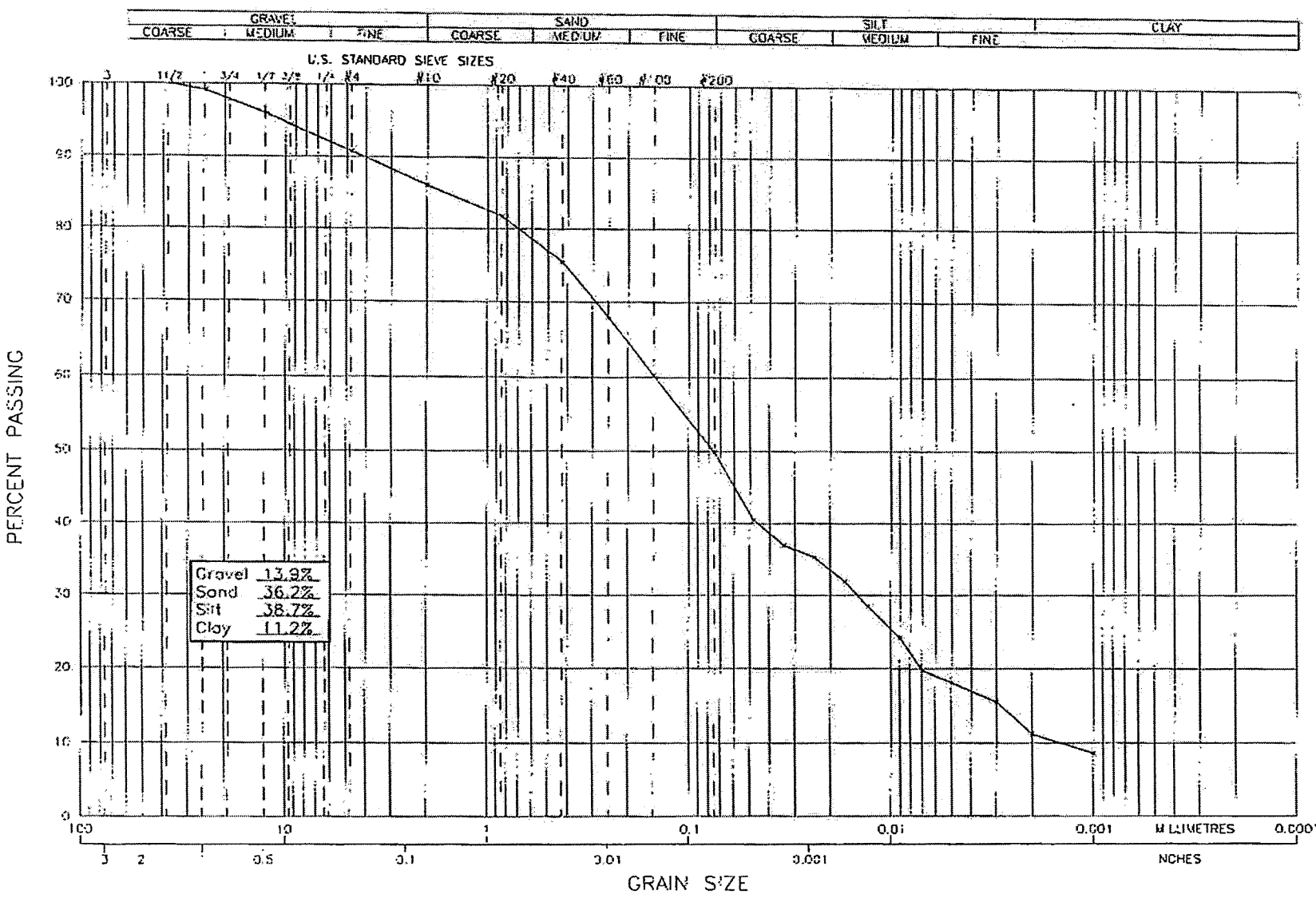
Sieve Analysis			
Sieve No.	**Weight Retained**	**Total Wt. Passing**	**% Finer Than Orig. Samp.**
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	**SEE WASHED SIEVE**		
Total			

Hydrometer Sieve Analysis				
Sieve No.	**Weight Retained**	**Total Wt. Finer Than**	**% Finer Than**	**% Finer Than Orig Samp.**
10		50.0	100.0	**86.1**
20	2.5	47.5	95.0	**81.8**
40	3.7	43.8	87.6	**75.4**
60	4.3	39.5	79.0	**68.0**
100	4.5	35.0	70.0	**60.3**
200	6.0	29.0	58.0	**49.9**
Pan	29.0			
Total	50.0			
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	0.861	0.5	32.0	21.0	0.01348	25.5	12.1	4.917	0.066	51.0	**43.9**
50.0	0.861	1	30.0	21.0	0.01348	23.5	12.4	3.524	0.048	47.0	**40.5**
50.0	0.861	2	28.0	21.0	0.01348	21.5	12.7	2.525	0.034	43.0	**37.0**
50.0	0.861	4	27.0	21.0	0.01348	20.5	12.9	1.797	0.024	41.0	**35.3**
50.0	0.861	8	25.0	21.0	0.01348	18.5	13.2	1.287	0.017	37.0	**31.9**
50.0	0.861	15	23.0	21.0	0.01348	16.5	13.6	0.951	0.013	33.0	**28.4**
50.0	0.861	30	20.5	21.0	0.01348	14.0	14.0	0.683	0.009	28.0	**24.1**
50.0	0.861	60	18.0	21.0	0.01348	11.5	14.4	0.490	0.007	23.0	**19.8**
50.0	0.861	120	17.0	21.0	0.01348	10.5	14.6	0.348	0.005	21.0	**18.1**
50.0	0.861	240	15.5	21.0	0.01348	9.0	14.8	0.248	0.003	18.0	**15.5**
50.0	0.861	480	13.0	21.0	0.01348	6.5	15.2	0.178	0.002	13.0	**11.2**
50.0	0.861	1440	11.5	21.0	0.01348	5.0	15.5	0.104	0.001	10.0	**8.6**

Hydrometer #: 794968	Graduate #: 1	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NoELCo

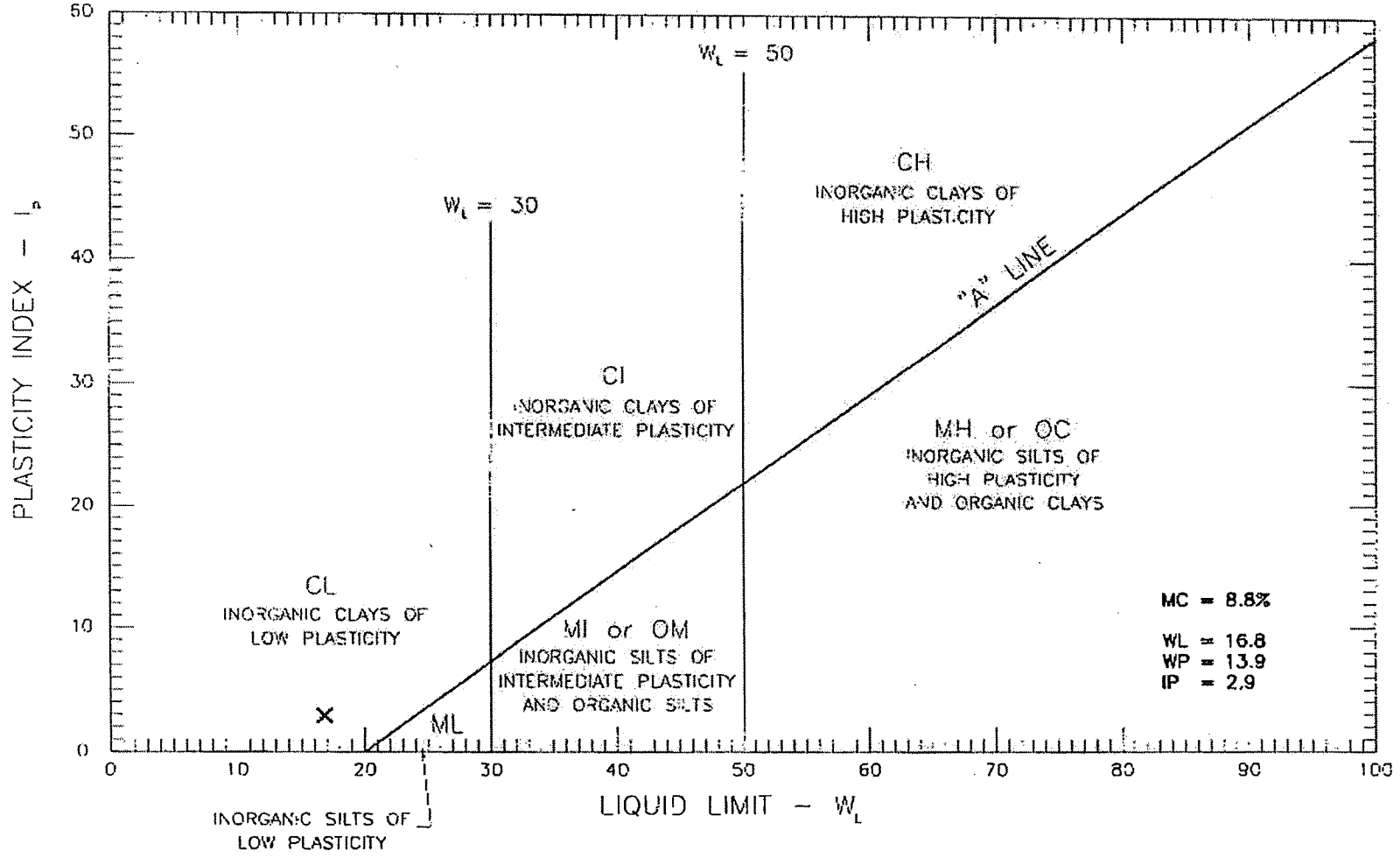


A1-18

GeoNorth Engineering Ltd.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
GRAIN SIZE ANALYSIS OF C-S6-ZS-04/08

SCALE:	DATE:
N.T.S.	2008/08/15
PROJECT NO:	PLATE NO.
K-2585	2585-81



A1-19

GEONORTH ENGINEERING LTD. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 ATTERBERG LIMITS OF C-S6-ZS-04/08	SCALE: N.T.S.	DATE: 2008/08/15
		PROJECT NO: K-2585	PLATE NO. 2585-C1

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, F V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

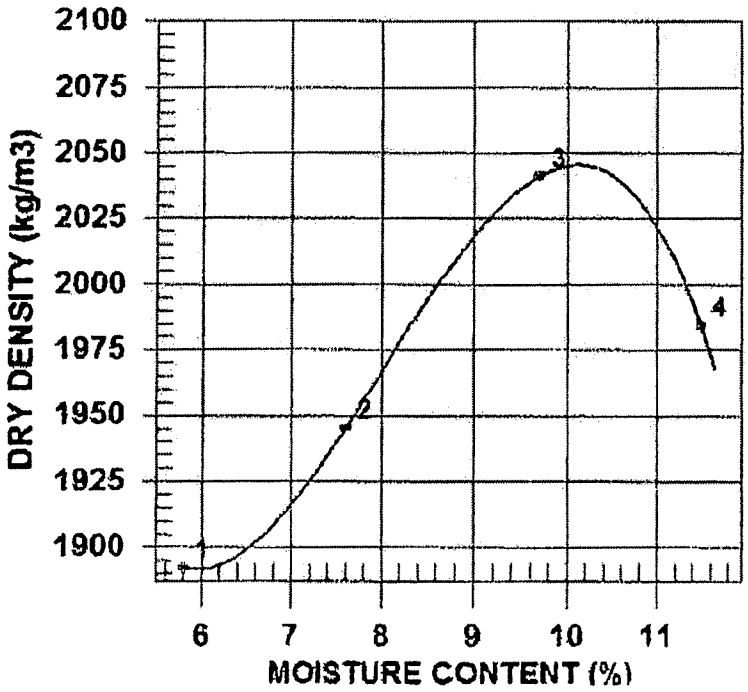
TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

PROCTOR NO. 9 DATE TESTED 2008.Aug.12 DATE RECEIVED 2008.Aug.06 DATE SAMPLED 2008.Aug.04

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client		
TESTED BY	SR	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER			
SOURCE	C-S6-ZS-04/08	RAMMER TYPE	Automatic
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE	50MM	RETAINED 4.75mm SCREEN	9.0 %
DESCRIPTION		OVERSIZE SPECIFIC GRAVITY	2.65
ROCK TYPE		TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2002	1892	5.8
2	2093	1945	7.6
3	2239	2041	9.7
4	2212	1984	11.5

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2050	10.0
OVERSIZE CORRECTED	2090	9.0

COMMENTS
SPECIFIC GRAVITY (COARSE) = 2.657

SPECIFIC GRAVITY (FINES) = 2.669

 PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, B 2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

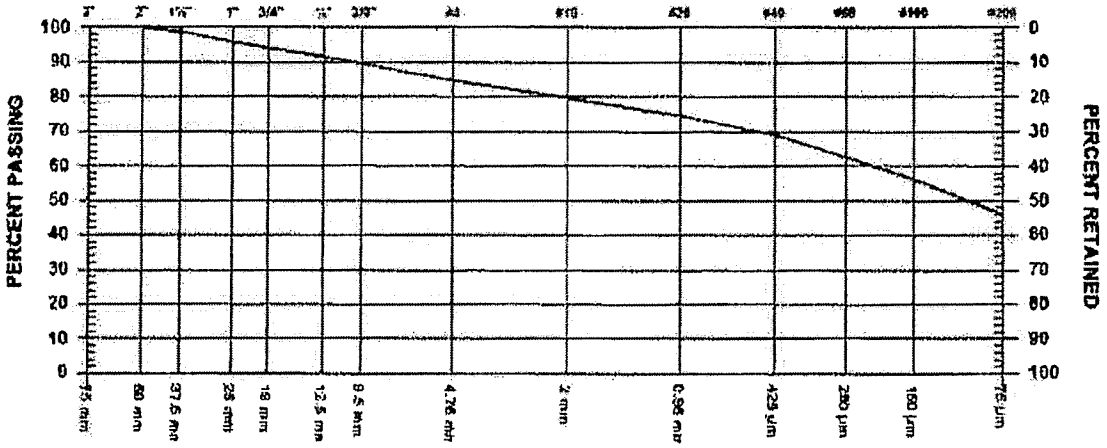
PROJECT Mount Polley Construction Program
Stage 6
CONTRACTOR

Mount Polley Mine
Likely

SIEVE TEST NO. 10 DATE RECEIVED 2008.Aug.08 DATE TESTED 2008.Aug.13 DATE SAMPLED 2008.Aug.05

SUPPLIER
SOURCE C-S6-ZS-05/08
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY Client
TESTED BY SR
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm	100.0	
1 1/2"	37.5 mm	98.6	
1"	25 mm	95.7	
3/4"	19 mm	94.3	
1/2"	12.5 mm	91.5	
3/8"	9.5 mm	89.4	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	84.8	
No. 10	2.00 mm	79.6	
No. 20	850 µm	74.4	
No. 40	425 µm	68.9	
No. 60	250 µm	62.7	
No. 100	150 µm	56.0	
No. 200	75 µm	45.9	

MOISTURE CONTENT 11.0%

COMMENTS
SW CORNER PIT BORROW

 2008.Aug.15 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

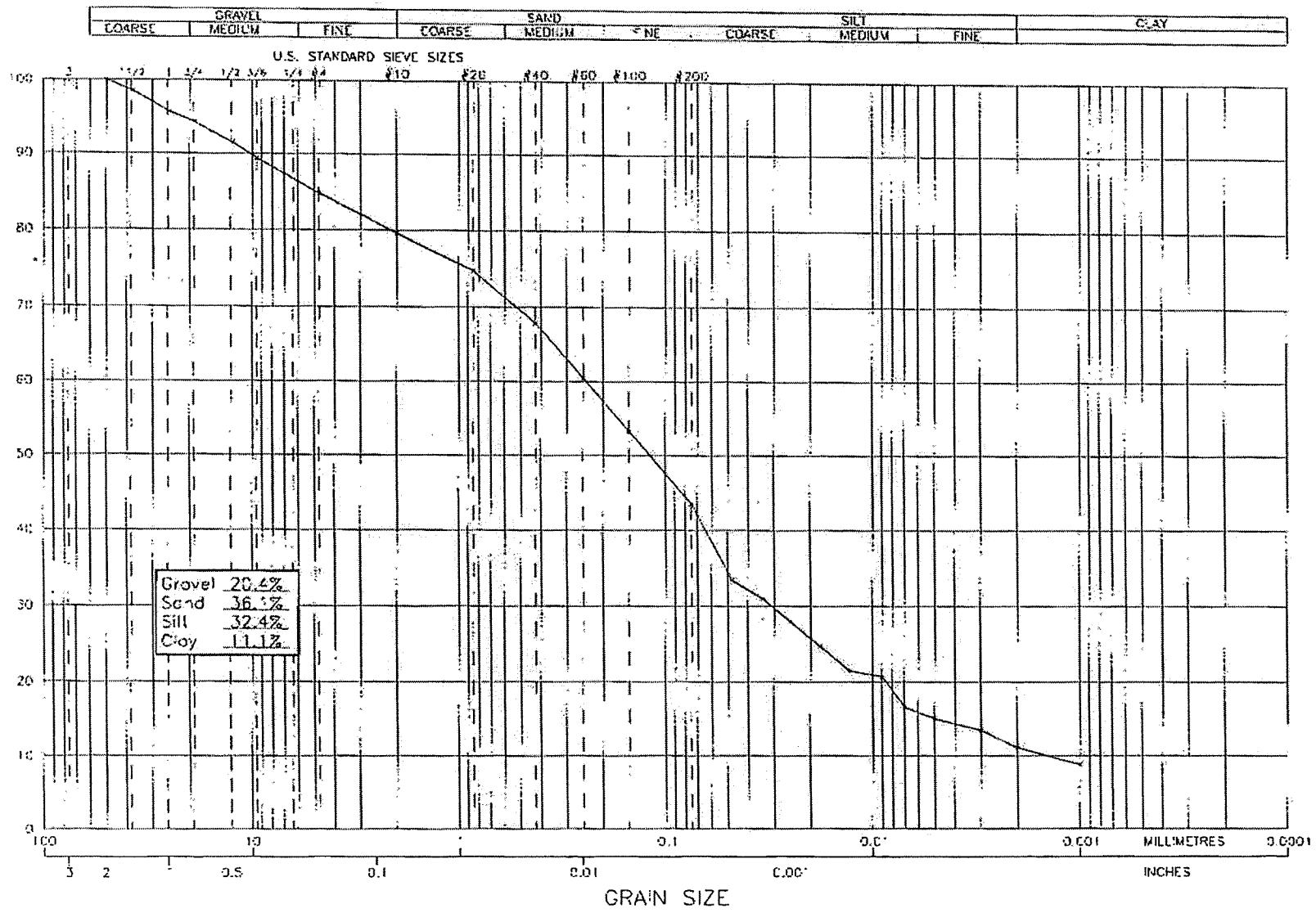
Client: Mount Polley Mining Corp. / Knight Piesold				Date: August 15, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: C-S6-ZS-05/08				Type: BROWN GLACIAL TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: SR			Checked By: NK
Date Sampled: 08.05.08	Date Received: 08.08.08			Date Tested: 08.13.08

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	**79.6**
Wet Wt. & Tare	839.9	25.4				20	3.0	47.0	94.0	**74.8**
Dry Wt. & Tare	776.2	19.0				40	4.3	42.7	85.4	**67.9**
Water Wt.	63.7	12.5				60	4.7	38.0	76.0	**60.5**
Tare Wt.	196.9	9.5				100	4.5	33.5	67.0	**53.3**
Wt. Of Dry Soil	579.3	4.75				200	6.2	27.3	54.6	**43.5**
Moisture Content %	**11.0**	10	**SEE WASHED SIEVE**			Pan	27.3			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
=(100xWet Soil Wt.)/(100 + Initial Moisture)						Unwashed Wt.=				
		Total				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	0.796	0.5	30.0	21.0	0.01348	23.5	12.4	4.983	0.067	47.0	**37.4**
50.0	0.796	1	27.5	21.0	0.01348	21.0	12.8	3.582	0.048	42.0	**33.4**
50.0	0.796	2	26.0	21.0	0.01348	19.5	13.1	2.557	0.034	39.0	**31.0**
50.0	0.796	4	24.0	21.0	0.01348	17.5	13.4	1.831	0.025	35.0	**27.9**
50.0	0.796	8	22.0	21.0	0.01348	15.5	13.7	1.310	0.018	31.0	**24.7**
50.0	0.796	15	20.0	21.0	0.01348	13.5	14.1	0.968	0.013	27.0	**21.5**
50.0	0.796	30	19.5	21.0	0.01348	13.0	14.2	0.687	0.009	26.0	**20.7**
50.0	0.796	60	17.0	21.0	0.01348	10.5	14.6	0.493	0.007	21.0	**16.7**
50.0	0.796	120	16.0	21.0	0.01348	9.5	14.7	0.350	0.005	19.0	**15.1**
50.0	0.796	240	15.0	21.0	0.01348	8.5	14.9	0.249	0.003	17.0	**13.5**
50.0	0.796	480	13.5	21.0	0.01348	7.0	15.1	0.178	0.002	14.0	**11.1**
50.0	0.796	1440	12.0	21.0	0.01348	5.5	15.4	0.103	0.001	11.0	**8.8**

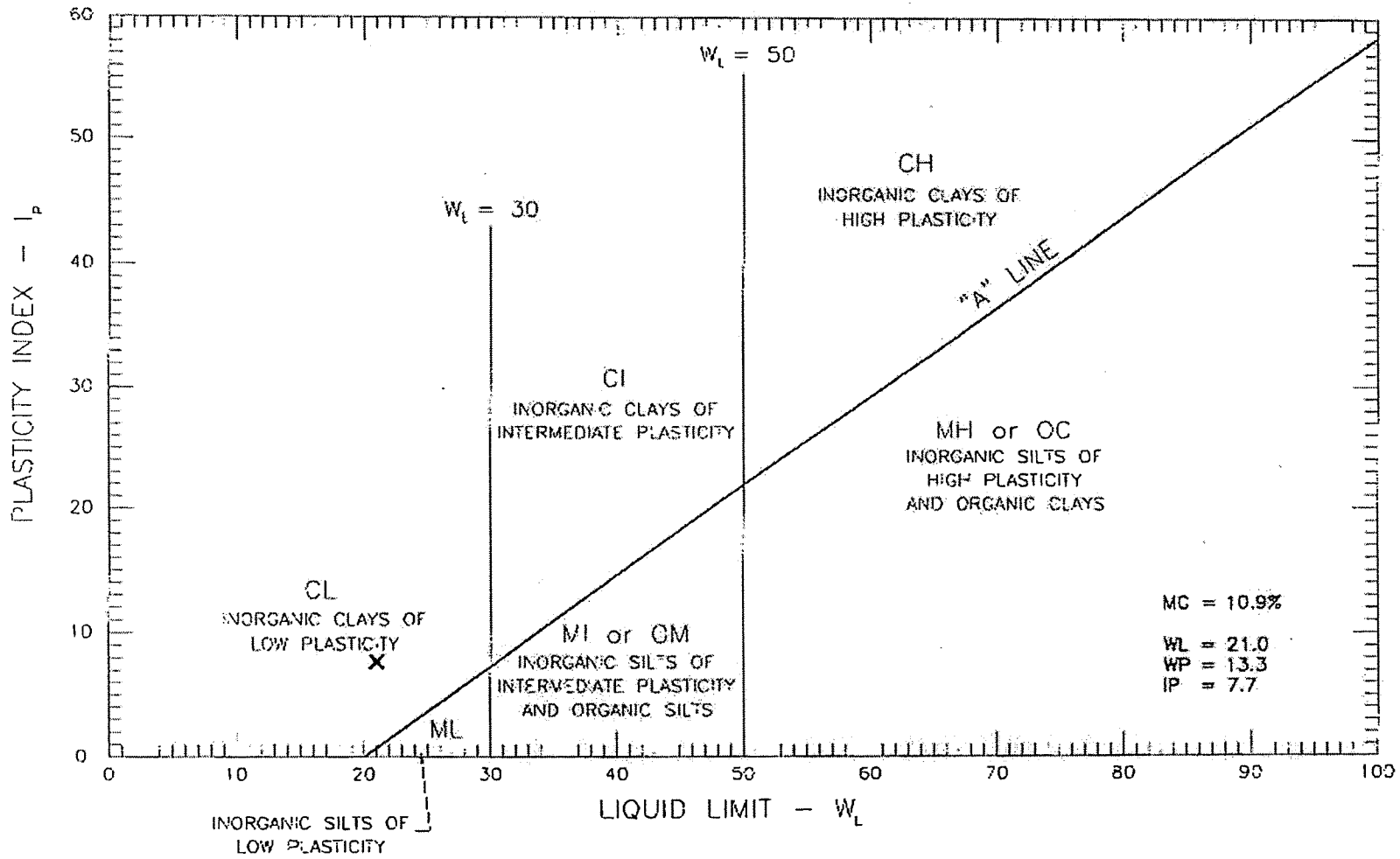
Hydrometer #: 794968	Graduate #: 3	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELOG



A1-23

GEONORTH ENGINEERING LTD. 301 Kelliher Road Prince George, B.C V2L 5S8 Tel: (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 GRAIN SIZE ANALYSIS OF C-S6-ZS-05/08	SCALE: N.T.S.	DATE: 2008/08/15
		PROJECT NO: K-2585	PLATE NO. 2585-B'



A1-24

GeoNorth Engineering Ltd.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
ATTERBERG LIMITS OF C-S6-ZS-05/08

SCALE:	DATE:
N.T.S.	2008/08/15
PROJECT NO:	PLATE NO.
K-2585	2585-C1

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, E 2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

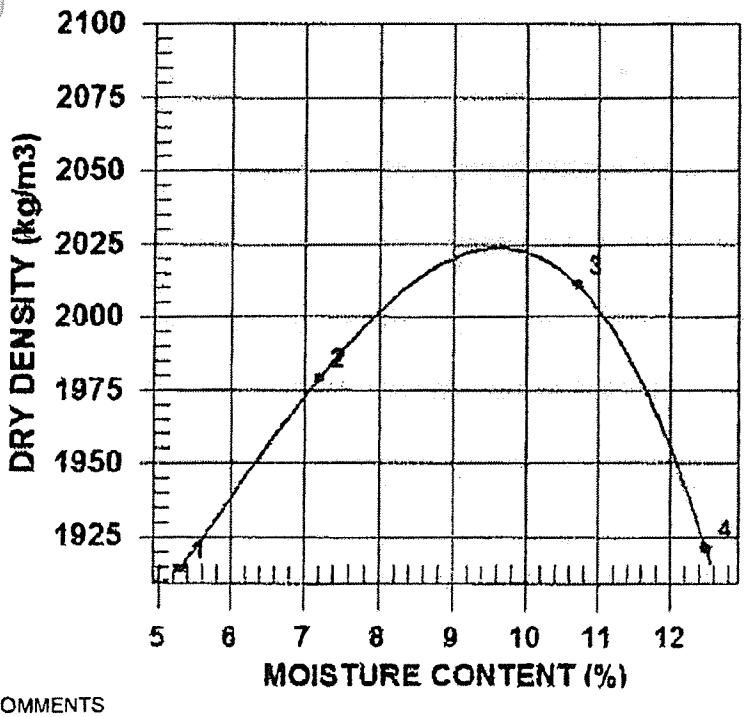
PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

PROJECT Mount Polley Construction Program
Stage 6
CONTRACTOR

Mount Polley Mine
Likely

PROCTOR NO. 10 DATE TESTED 2008.Aug.14 DATE RECEIVED 2008.Aug.08 DATE SAMPLED 2008.Aug.05

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
TESTED BY	SR	RAMMER TYPE	Automatic
SUPPLIER		PREPARATION	Moist
SOURCE	C-S6-ZS-05/08	OVERSIZE CORRECTION METHOD	ASTM 4718
MATERIAL IDENTIFICATION		RETAINED 4.75mm SCREEN	15.0 %
MAJOR COMPONENT	GLACIAL TILL	OVERSIZE SPECIFIC GRAVITY	2.65
SIZE	37.5MM	TOTAL NUMBER OF TRIALS	4
DESCRIPTION	BROWN		
ROCK TYPE			



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2015	1914	5.3
2	2122	1979	7.2
3	2226	2011	10.7
4	2161	1921	12.5

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2020	9.5
OVERSIZE CORRECTED	2100	8.0

COMMENTS
SPECIFIC GRAVITY (COARSE) - 2.646

SPECIFIC GRAVITY (FINES) - 2.678

PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC . .2S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

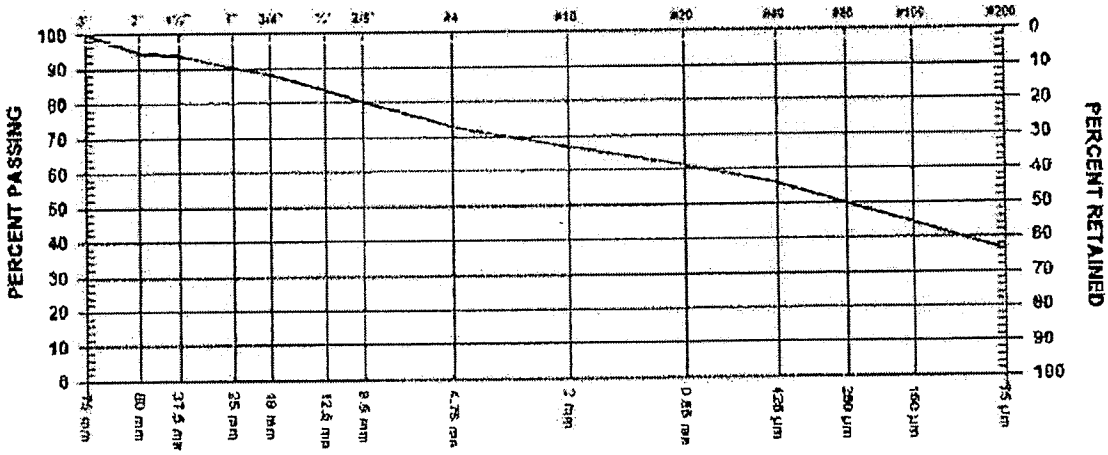
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 12 DATE RECEIVED 2008.Aug.18 DATE TESTED 2008.Aug.20 DATE SAMPLED 2008.Aug.13

SUPPLIER
SOURCE C-S6-2S-06/08
SPECIFICATION
MATERIAL TYPE Brown Glacial Till (dense)

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



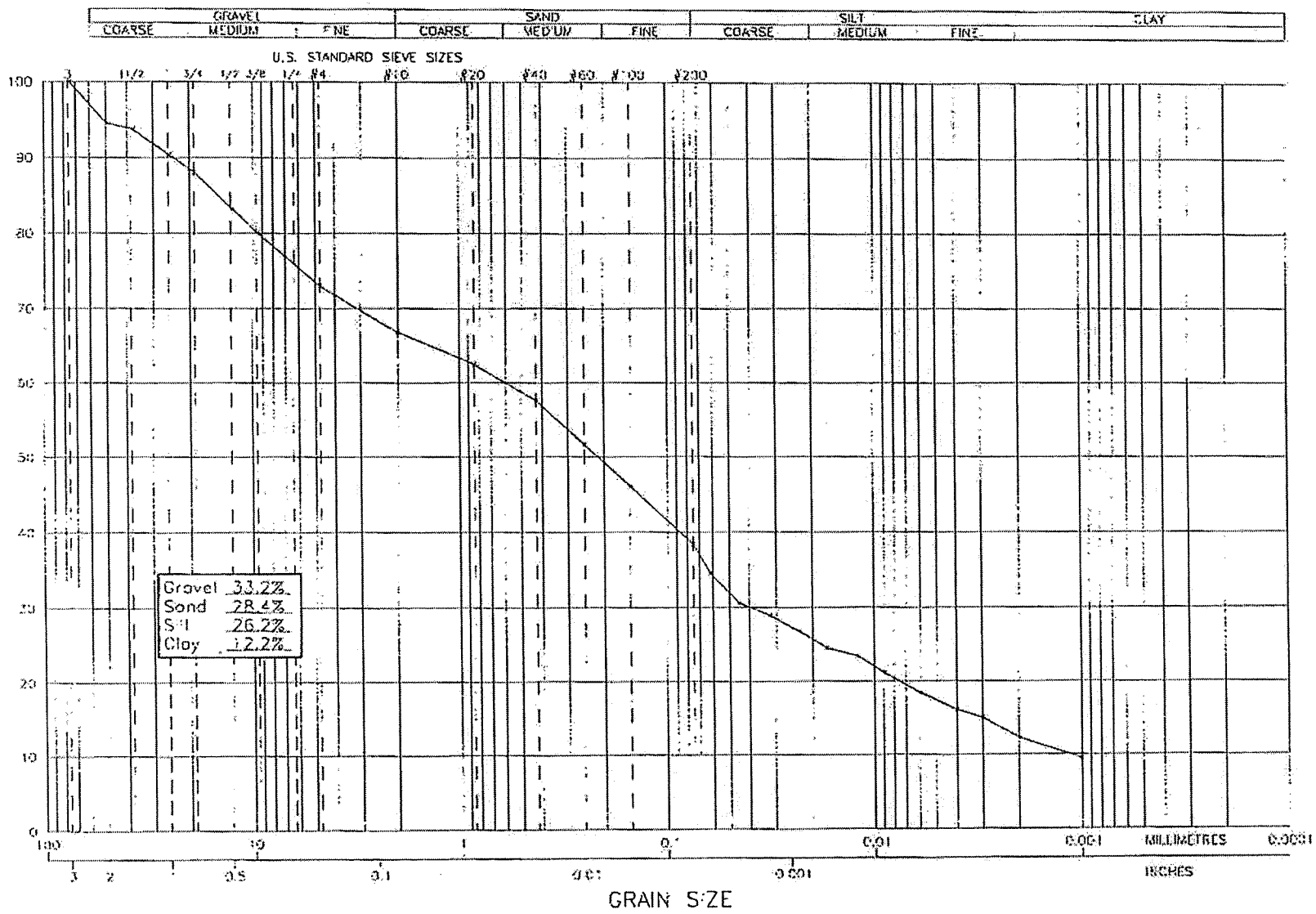
GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	100.0	
2"	50 mm	94.6	
1 1/2"	37.5 mm	93.8	
1"	25 mm	90.4	
3/4"	19 mm	88.1	
1/2"	12.5 mm	83.3	
3/8"	9.5 mm	80.1	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	73.0	
No. 10	2.00 mm	66.8	
No. 20	850 µm	61.2	
No. 40	425 µm	55.9	
No. 60	250 µm	50.0	
No. 100	150 µm	44.2	
No. 200	75 µm	36.1	

MOISTURE CONTENT 9.5%

COMMENTS
Location: PE Borrow Pit, Chainage: Near KP07-01
Elevation: 1.5m Below Surface

PER.



GEONORTH ENGINEERING LTD.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
GRAIN SIZE ANALYSIS OF C-S6-ZS-06/08

SCALE:	DATE:
N.T.S.	2008/08/25
PROJECT NO:	PLATE NO.
K-2585	2585-B12

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

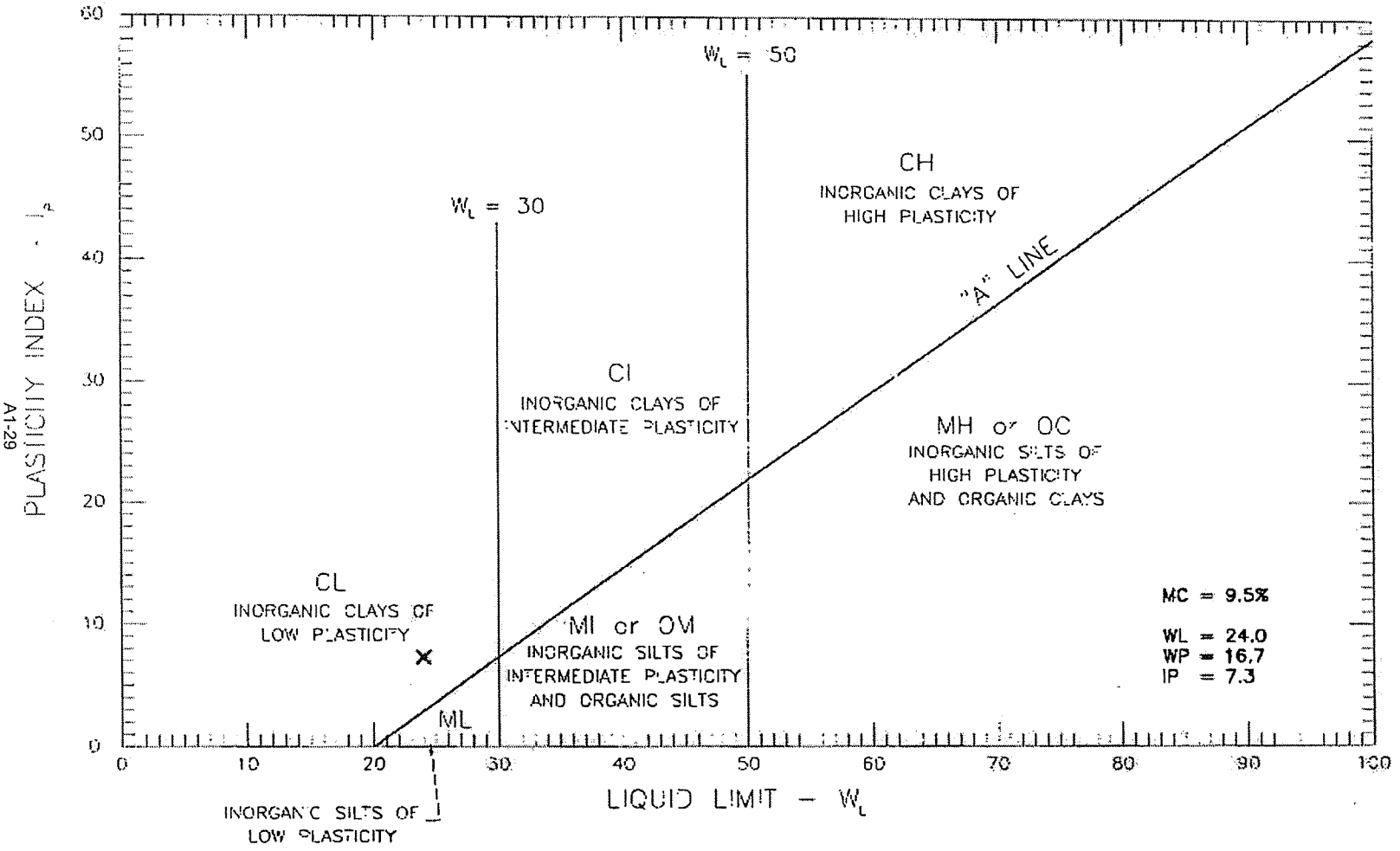
Client: Mount Polley Mining / Knight Piesold				**Date: August 25, 2008**
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: C-S6-ZS-06/08				**Type: Brown Glacial Till**
Sample #:	Test #:	Hole #:	Depth:	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 08.13.08	Date Received: 08.18.08			Date Tested: 08.21.08

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		60.0	100.0	**66.8**
Wet Wt. & Tare	1174.7	25.4				20	3.9	56.1	93.5	**62.5**
Dry Wt. & Tare	1088.3	19.0				40	4.4	51.7	86.2	**57.6**
Water Wt.	86.4	12.5				60	5.3	46.4	77.3	**51.6**
Tare Wt.	179.6	9.5				100	5.0	41.4	69.0	**46.1**
Wt. Of Dry Soil	908.7	4.75				200	6.9	34.5	57.5	**38.4**
Moisture Content %	**9.5**	10	**SEE WASHED SIEVE**			Pan	34.5			
Dry Wt. Of Sample from Initial Moisture						Total	60.0			
(100xWet Soil Wt.)/(100 + Initial Moisture)						Unwashed Wt.=				
		Total				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)
60.0	0.668	0.5	37.0	23.0	0.01317	31.0	11.2	4.729	0.062	51.7	**34.5**
60.0	0.668	1	33.5	23.0	0.01317	27.5	11.8	3.429	0.045	45.8	**30.6**
60.0	0.668	2	32.0	23.0	0.01317	26.0	12.0	2.450	0.032	43.3	**28.9**
60.0	0.668	4	30.0	23.0	0.01317	24.0	12.3	1.756	0.023	40.0	**26.7**
60.0	0.668	8	28.0	23.0	0.01317	22.0	12.7	1.258	0.017	36.7	**24.5**
60.0	0.668	15	27.0	23.0	0.01317	21.0	12.8	0.925	0.012	35.0	**23.4**
60.0	0.668	30	25.0	23.0	0.01317	19.0	13.2	0.662	0.009	31.7	**21.2**
60.0	0.668	60	22.5	23.0	0.01317	16.5	13.6	0.476	0.006	27.5	**18.4**
60.0	0.668	120	20.5	23.0	0.01317	14.5	13.9	0.340	0.004	24.2	**16.1**
60.0	0.668	240	19.5	23.0	0.01317	13.5	14.1	0.242	0.003	22.5	**15.0**
60.0	0.668	480	17.5	22.0	0.01332	11.0	14.5	0.174	0.002	18.3	**12.2**
60.0	0.668	1440	15.0	22.0	0.01332	8.5	14.9	0.102	0.001	14.2	**9.5**

Hydrometer #: 794968	Graduate #: 2	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELCO



GEONORTH ENGINEERING LTD.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
ATTERBERG LIMITS OF C-S6-ZS-06/08

SCALE:	DATE:
N.T.S.	2008/08/25
PROJECT NO:	PLATE NO.
K-2585	2585-C12

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

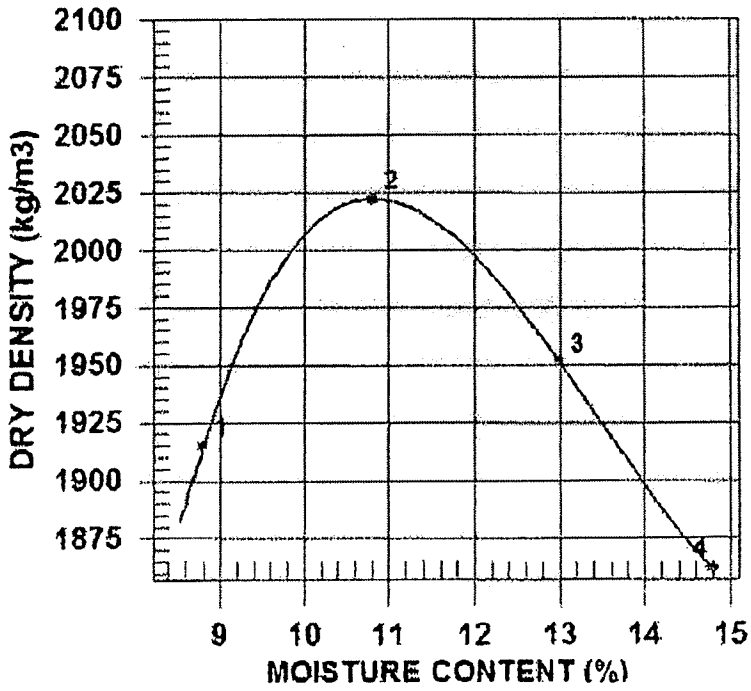
TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

PROCTOR NO. 12 DATE TESTED 2008.Aug.21 DATE RECEIVED 2008.Aug.18 DATE SAMPLED 2008.Aug.13

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client		
TESTED BY	DJ	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER			
SOURCE	C-S6-MS-06/08	RAMMER TYPE	Automatic
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE	50MM	RETAINED 4.75mm SCREEN	27.0 %
DESCRIPTION	BROWN	OVERSIZE SPECIFIC GRAVITY	2.65
ROCK TYPE		TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2084	1915	8.8
2	2240	2022	10.8
3	2205	1951	13.0
4	2138	1862	14.8

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2020	11.0
OVERSIZE CORRECTED	2160	8.5

COMMENTS
SPECIFIC GRAVITY (COARSE) - 2.651

SPECIFIC GRAVITY (FINES) - 2.675

PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2N 5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

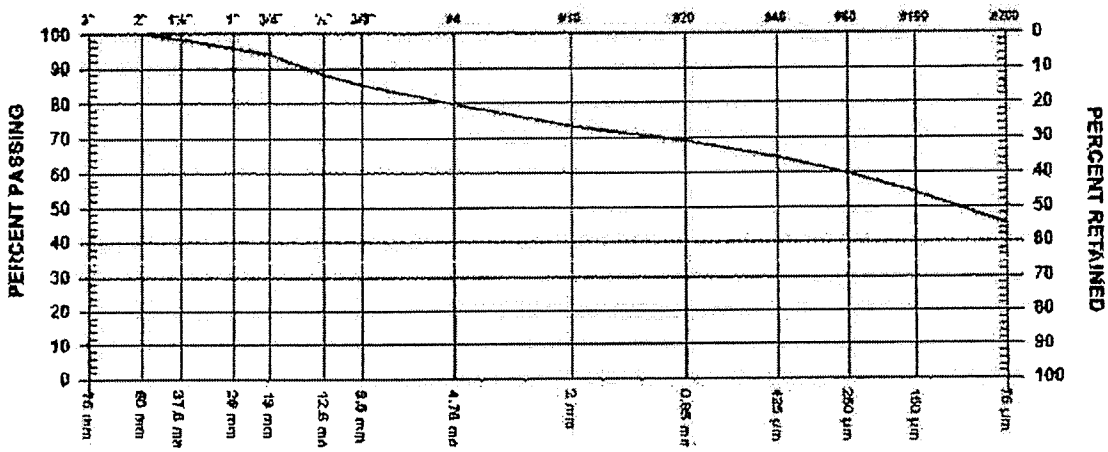
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 14 DATE RECEIVED 2008.Sep.05 DATE TESTED 2008.Sep.10 DATE SAMPLED 2008.Aug.26

SUPPLIER PE BORROW PIT
SOURCE C-S6-ZS-07/08
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY Client
TESTED BY SR
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm	100.0	
1 1/2"	37.5 mm	98.4	
1"	25 mm	95.9	
3/4"	19 mm	94.0	
1/2"	12.5 mm	88.1	
3/8"	9.5 mm	85.3	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	79.4	
No. 10	2.00 mm	73.4	
No. 20	850 µm	68.8	
No. 40	425 µm	64.5	
No. 60	250 µm	59.6	
No. 100	150 µm	54.2	
No. 200	75 µm	45.0	

MOISTURE CONTENT 12.2%

COMMENTS

PER.

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. / Knight Piesold				Date: Sept 13, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: PE Borrow Pit C-S6-ZS-07/08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 08.26.08	Date Received: 09.05.08			Date Tested: 09.10.08

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	
Dry Wt. & Tare	
Water Wt.	
Tare Wt.	
Wt. Of Dry Soil	
Moisture Content %	**12.2**
Dry Wt. Of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture)	

Sieve Analysis

Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	**SEE WASHED SIEVE**		
Total			

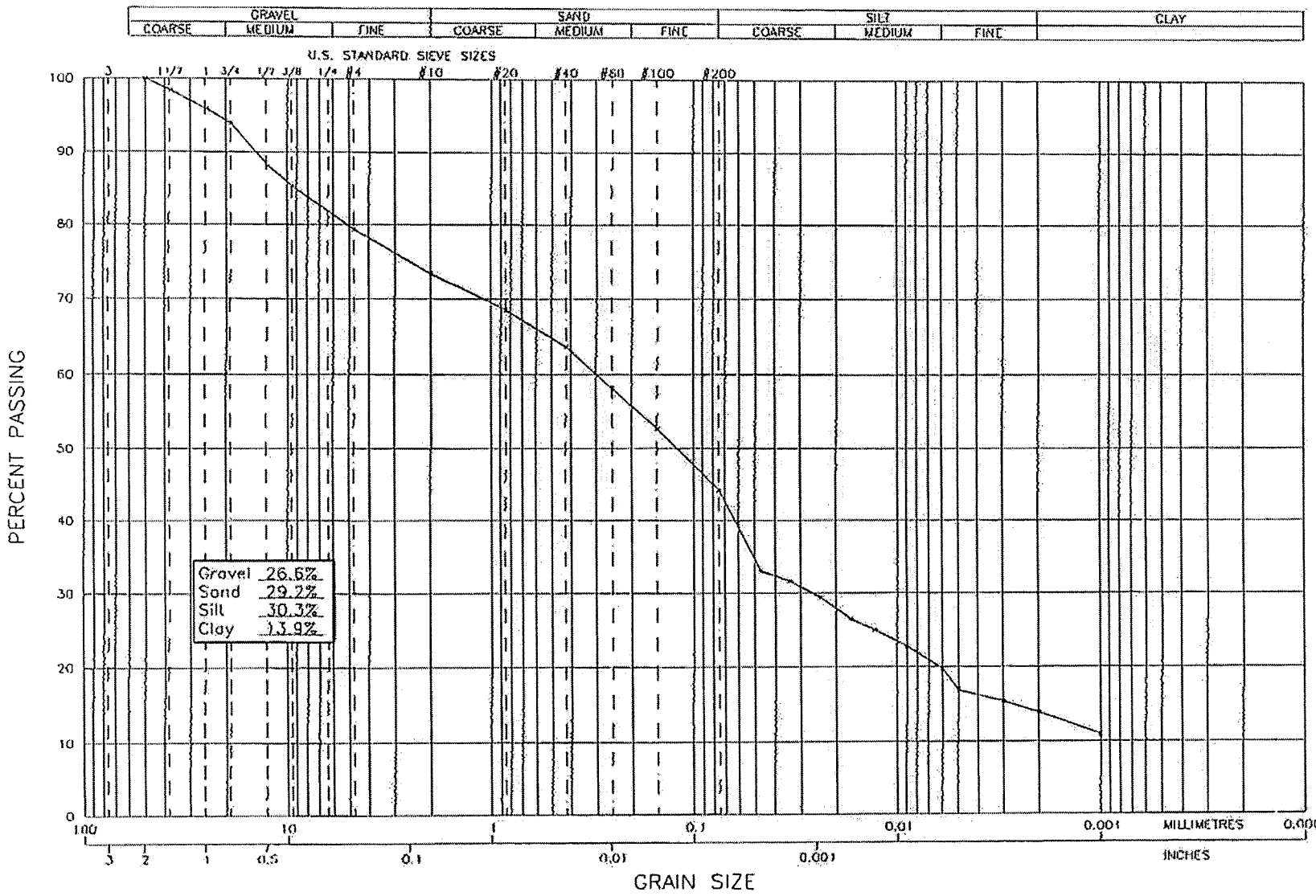
Hydrometer Sieve Analysis

Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
10		50.0	100.0	**73.4**
20	3.3	46.7	93.4	**68.6**
40	3.3	43.4	86.8	**63.7**
60	3.8	39.6	79.2	**58.1**
100	3.7	35.9	71.8	**52.7**
200	5.8	30.1	60.2	**44.2**
Pan	30.1			
Total	50.0			
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	0.734	0.5	32.0	22.0	0.01332	25.5	12.1	4.917	0.065	51.0	**37.4**
50.0	0.734	1	29.0	22.0	0.01332	22.5	12.6	3.547	0.047	45.0	**33.0**
50.0	0.734	2	28.0	22.0	0.01332	21.5	12.7	2.525	0.034	43.0	**31.6**
50.0	0.734	4	26.5	22.0	0.01332	20.0	13.0	1.802	0.024	40.0	**29.4**
50.0	0.734	8	24.5	22.0	0.01332	18.0	13.3	1.291	0.017	36.0	**26.4**
50.0	0.734	15	23.5	22.0	0.01332	17.0	13.5	0.948	0.013	34.0	**25.0**
50.0	0.734	30	22.0	22.0	0.01332	15.5	13.7	0.677	0.009	31.0	**22.8**
50.0	0.734	60	20.0	22.0	0.01332	13.5	14.1	0.484	0.006	27.0	**19.8**
50.0	0.734	120	18.0	22.0	0.01332	11.5	14.4	0.346	0.005	23.0	**16.9**
50.0	0.734	240	17.0	22.0	0.01332	10.5	14.6	0.246	0.003	21.0	**15.4**
50.0	0.734	480	16.0	22.0	0.01332	9.5	14.7	0.175	0.002	19.0	**13.9**
50.0	0.734	1440	14.0	22.0	0.01332	7.5	15.1	0.102	0.001	15.0	**11.0**

Hydrometer #: 794968	Graduate #: 2	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELCO

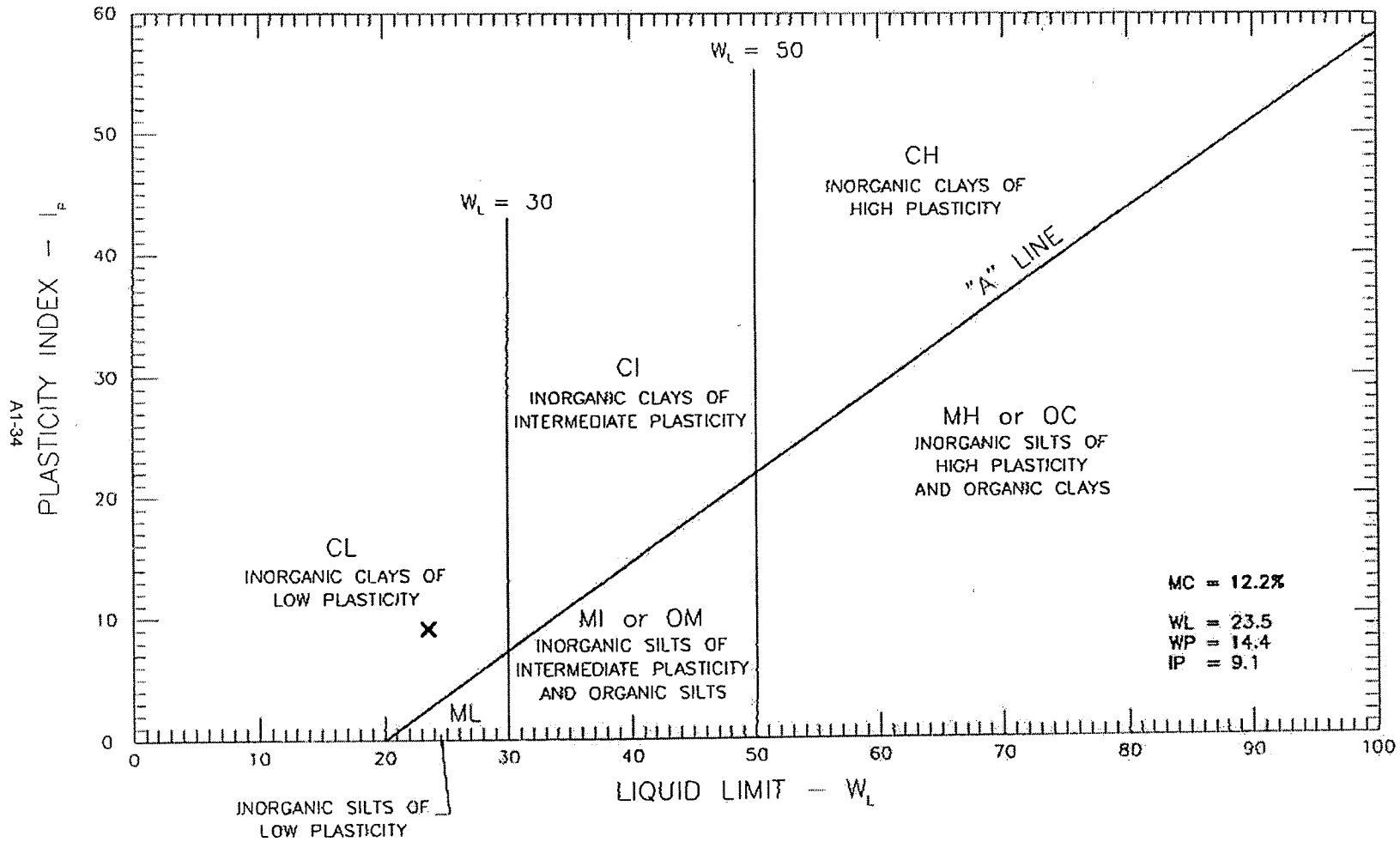


A1-33

GeoNorth Engineering Ltd.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
GRAIN SIZE ANALYSIS OF C-S6-ZS-07/08

SCALE:	DATE:
N.T.S.	2008/09/15
PROJECT NO:	PLATE NO.
K-2585	2585-814



A1-34

GEONORTH ENGINEERING LTD. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 ATTERBERG LIMITS OF C-S6-ZS-07/08	SCALE: N.T.S.	DATE: 2008/09/15
		PROJECT NO: K-2585	PLATE NO. 2585-C14

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC . _5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

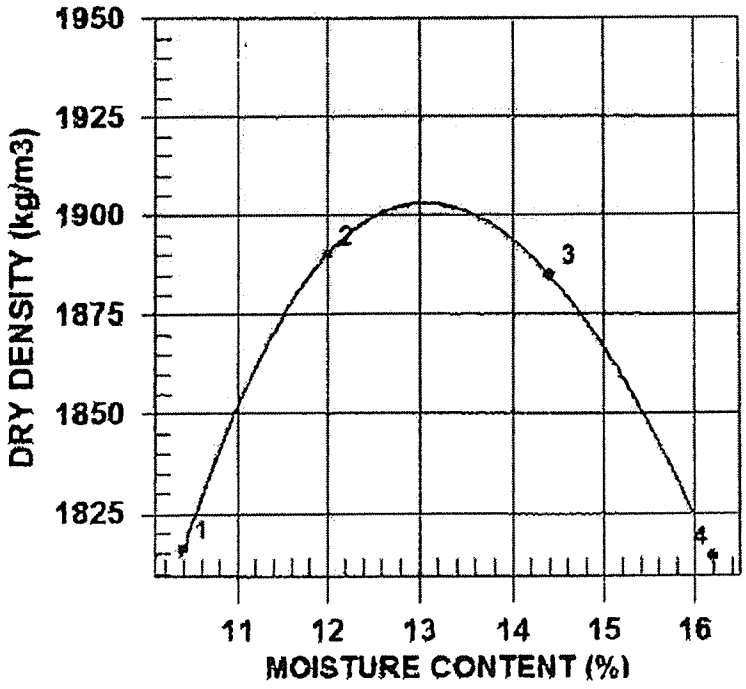
TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

PROCTOR NO. 14 DATE TESTED 2008.Sep.11 DATE RECEIVED 2008.Sep.05 DATE SAMPLED 2008.Aug.26

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client		
TESTED BY	LT	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER			
SOURCE	C-S6-ZS-07/08	RAMMER TYPE	Automatic
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE		RETAINED 4.75mm SCREEN	20.0 %
DESCRIPTION		OVERSIZE SPECIFIC GRAVITY	2.65
ROCK TYPE		TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2005	1816	10.4
2	2117	1890	12.0
3	2157	1885	14.4
4	2108	1814	16.2

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1900	13.0
OVERSIZE CORRECTED	2010	10.5

COMMENTS
SPECIFIC GRAVITY (COARSE) = 2.649

SPECIFIC GRAVITY (FINES) = 2.647

PER.

Knight Piésold
CONSULTING

APPENDIX A2

ZONE S RECORD

(Pages A2-1 to A2-45)

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Marlel @ 250-790-2268

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

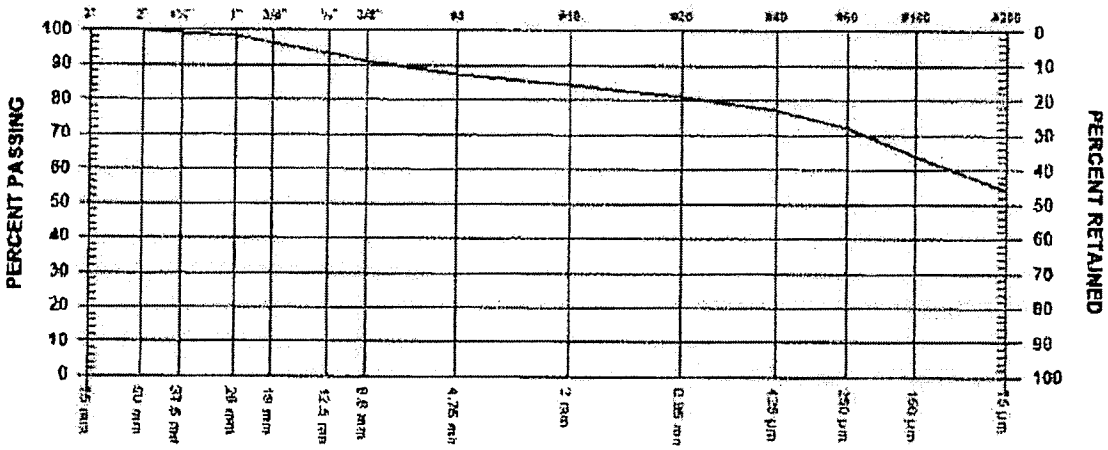
PROJECT Mount Polley Construction Program
Stage 6
CONTRACTOR

Mount Polley Mine
Likely

SIEVE TEST NO. 6 DATE RECEIVED 2008.Jun.23 DATE TESTED 2008.Jul.02 DATE SAMPLED 2008.Jun.22

SUPPLIER ZONE S
SOURCE R-S6-ZS-01/08
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY Client
TESTED BY SR
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm	100.0	
1 1/2"	37.5 mm	99.4	
1"	25 mm	98.2	
3/4"	19 mm	96.2	
1/2"	12.5 mm	93.3	
3/8"	9.5 mm	91.3	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	87.4	
No. 10	2.00 mm	84.1	
No. 20	850 µm	80.9	
No. 40	425 µm	77.2	
No. 60	250 µm	71.9	
No. 100	150 µm	63.8	
No. 200	75 µm	54.2	

MOISTURE CONTENT 9.9%

COMMENTS
SOUTH EMBANKMENT 1020 AT 951.9

PER

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

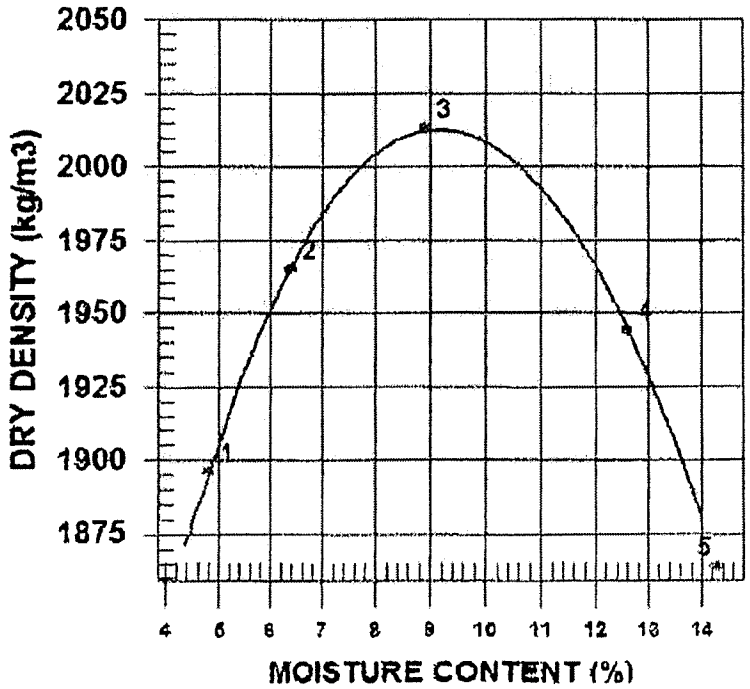
TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

PROCTOR NO. 6 DATE TESTED 2008.Jul.02 DATE RECEIVED 2008.Jun.23 DATE SAMPLED 2008.Jun.22

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client		
TESTED BY	SR	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER	Zone S		
SOURCE	R-S6-ZS-01/08	RAMMER TYPE	Automatic
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	Till	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE	50MM	RETAINED 4.75mm SCREEN	12.4 %
DESCRIPTION		OVERSIZE SPECIFIC GRAVITY	2.69
ROCK TYPE		TOTAL NUMBER OF TRIALS	5



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1987	1896	4.8
2	2091	1965	6.4
3	2192	2013	8.9
4	2189	1944	12.6
5	2130	1864	14.3

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2010	9.0
OVERSIZE CORRECTED	2080	8.0

COMMENTS
SPECIFIC GRAVITY = 2.69 (COARSE) SOUTH EMBANKMENT 1+020 AT 951.9M

SPECIFIC GRAVITY = 2.67 (FINE)

G North Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

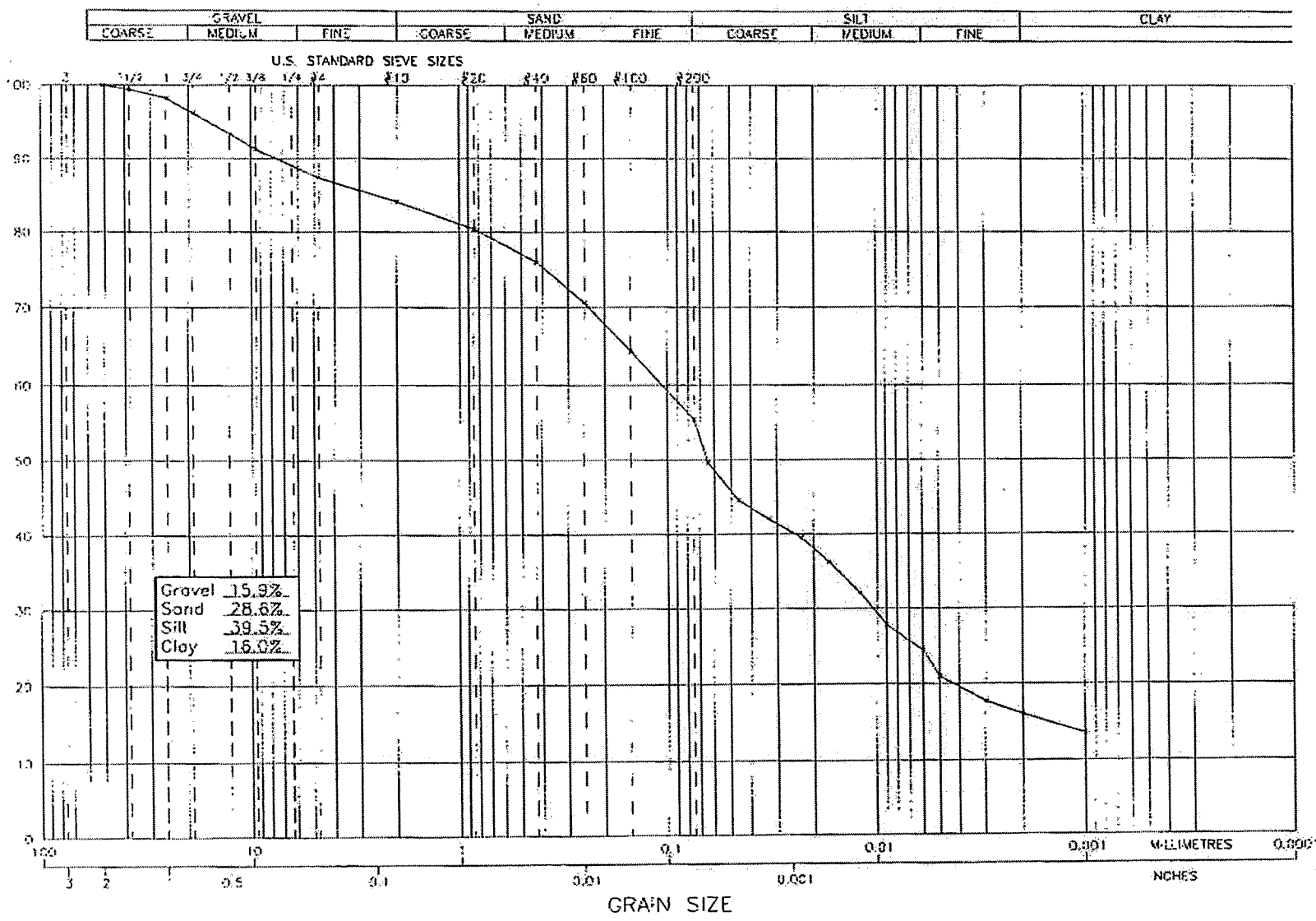
Client: Mount Polley Mining Corp. Attn: Knight Piesold				Date: July 8, 2008
Project Name: Mount Polley Construction Program - Stage 6				**Project #: K-2585**
Source/Location: Zone S - R-S6-ZS-01/08				Type: Till
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: DJ			Checked By: DJ
Date Sampled: 06.22.08	Date Received: 06.23.08			Date Tested: 07.07.08

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	**84.1**
Wet Wt. & Tare		25.4				20	2.2	47.8	95.6	**80.4**
Dry Wt. & Tare		19.0				40	2.6	45.2	90.4	**76.0**
Water Wt.		12.5				60	3.2	42.0	84.0	**70.6**
Tare Wt.		9.5				100	3.7	38.3	76.6	**64.4**
Wt. Of Dry Soil		4.75				200	5.3	33.0	66.0	**55.5**
Moisture Content %	**9.8**	10	**SEE WASHED SIEVE**			Pan	33.0			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
=(100xWet Soil Wt.)/(100 + Initial Moisture)						Unwashed Wt.=				
		Total				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	36.0	22.0	0.01332	29.5	11.4	4.781	0.064	59.0	**49.6**
50.0	0.000	1	33.0	22.0	0.01332	26.5	11.9	3.453	0.046	53.0	**44.6**
50.0	0.000	2	31.5	22.0	0.01332	25.0	12.2	2.467	0.033	50.0	**42.1**
50.0	0.000	4	30.0	22.0	0.01332	23.5	12.4	1.762	0.023	47.0	**39.5**
50.0	0.000	8	28.0	22.0	0.01332	21.5	12.7	1.262	0.017	43.0	**36.2**
50.0	0.000	15	25.5	22.0	0.01332	19.0	13.2	0.937	0.012	38.0	**32.0**
50.0	0.000	30	23.0	22.0	0.01332	16.5	13.6	0.673	0.009	33.0	**27.8**
50.0	0.000	60	21.0	22.0	0.01332	14.5	13.9	0.481	0.006	29.0	**24.4**
50.0	0.000	120	19.0	22.0	0.01332	12.5	14.2	0.344	0.005	25.0	**21.0**
50.0	0.000	240	17.0	22.0	0.01332	10.5	14.6	0.246	0.003	21.0	**17.7**
50.0	0.000	480	16.0	22.0	0.01332	9.5	14.7	0.175	0.002	19.0	**16.0**
50.0	0.000	1440	14.0	23.0	0.01317	8.0	15.0	0.102	0.001	16.0	**13.5**

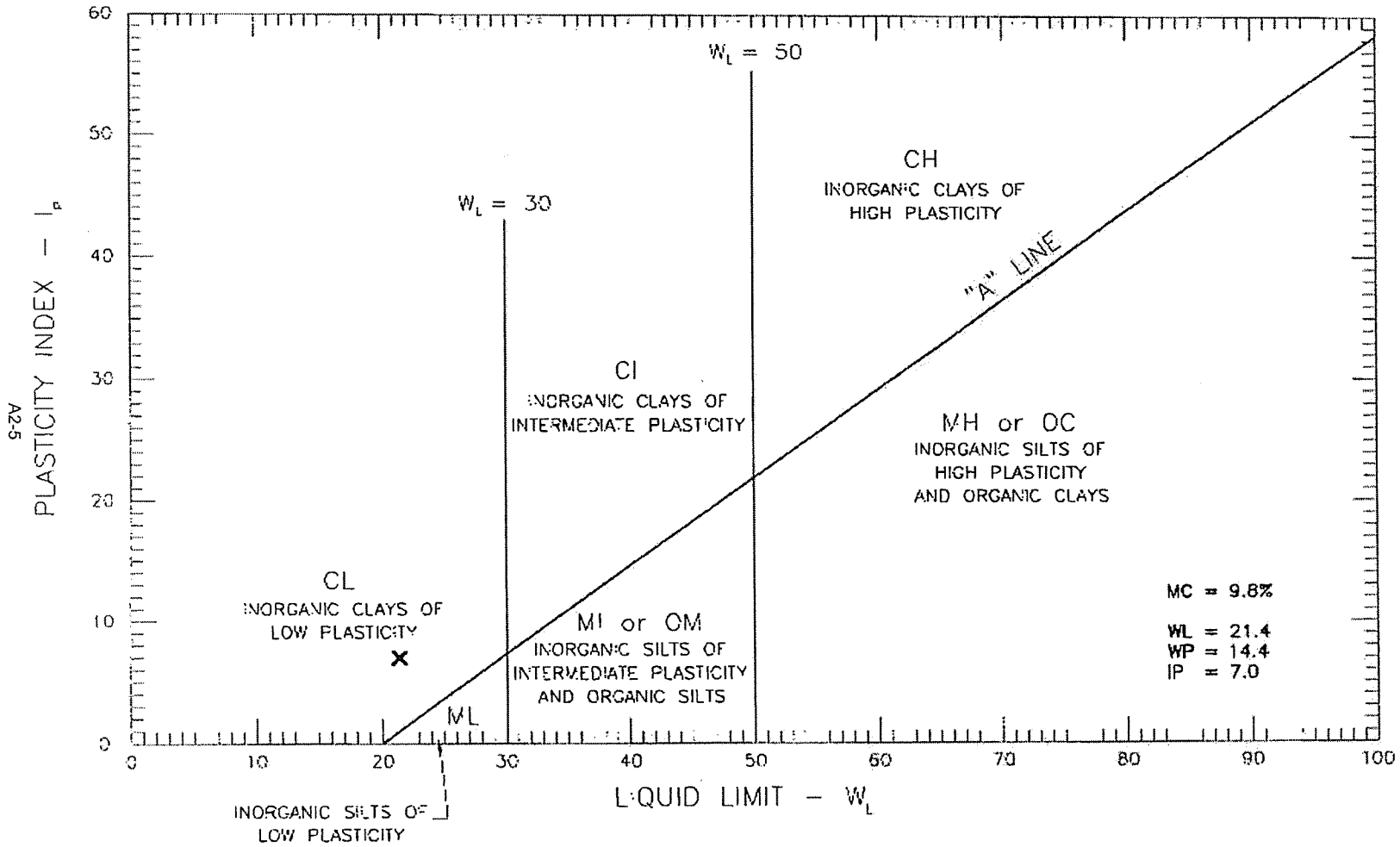
Hydrometer #: 794968	Graduate #:2	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NGELCO



A2-4

GEONORTH ENGINEERING LTD. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 GRAIN SIZE ANALYSIS OF R-S6-ZS-01/08	SCALE: N.T.S.	DATE: 2008/07/08
		PROJECT NO: K-2585	PLATE NO. 2585-B6



A2-5

GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM – STAGE 6 ATTERBERG LIMITS OF R-S6-ZS-01/08	SCALE: N.T.S.	DATE: 2008/07/08
		PROJECT NO: K-2585	PLATE NO. 2585-C6

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

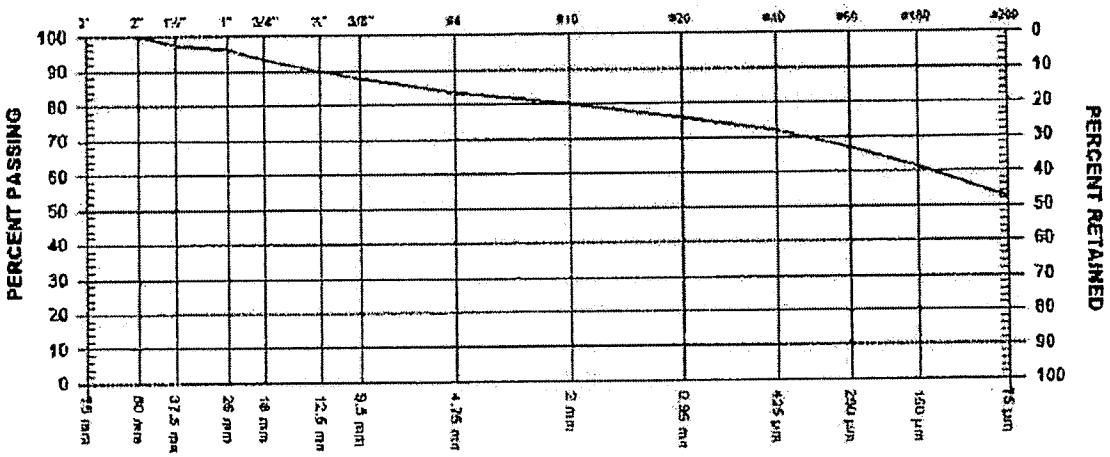
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 7 DATE RECEIVED 2008.Jul.21 DATE TESTED 2008.Jul.24 DATE SAMPLED 2008.Jul.15

SUPPLIER
SOURCE R-S6-ZS-02-08
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY Client
TESTED BY SR
TEST METHOD WASHED



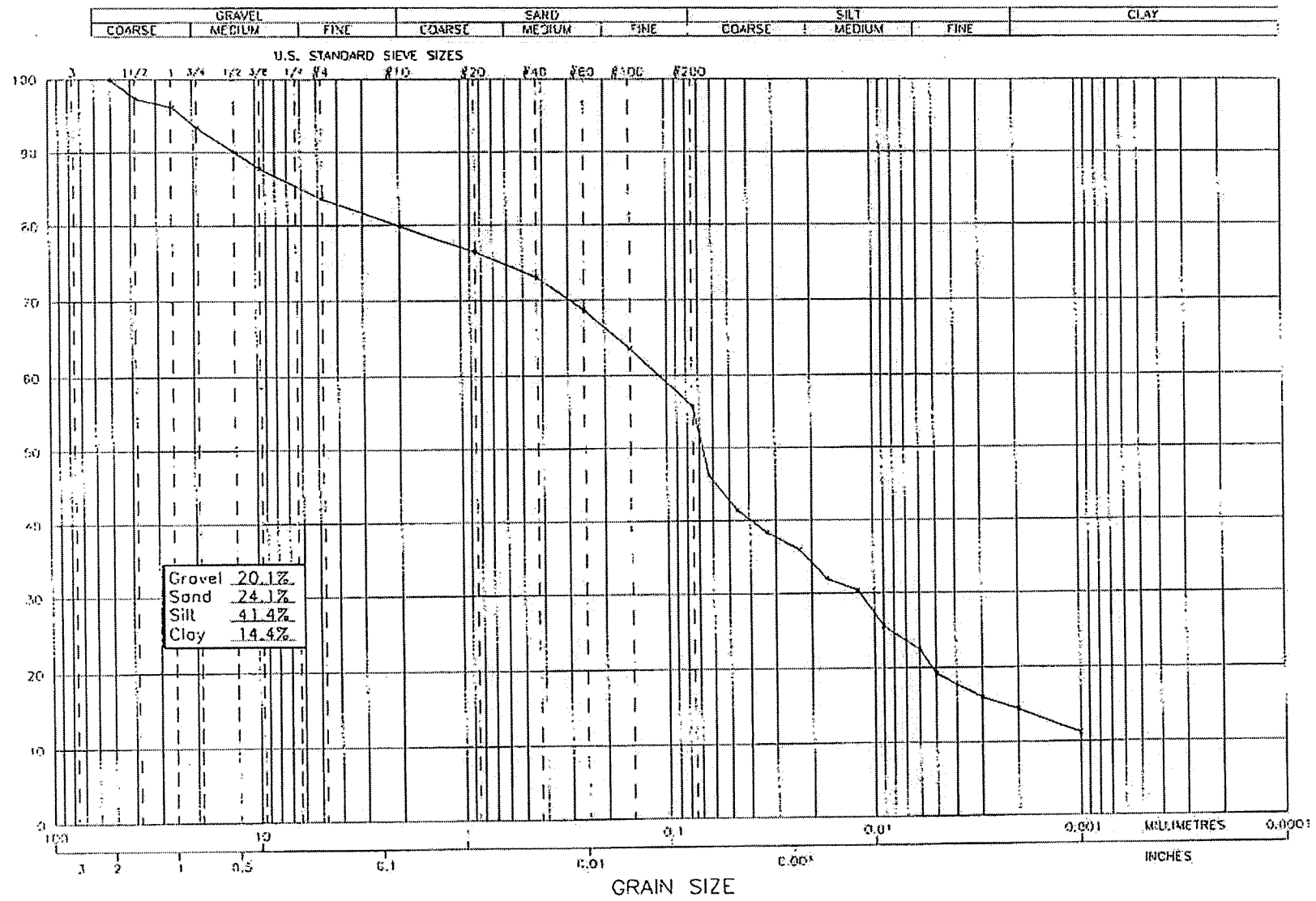
GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm		
2"	50	mm	100.0	
1 1/2"	37.5	mm	97.4	
1"	25	mm	96.2	
3/4"	19	mm	93.4	
1/2"	12.5	mm	90.0	
3/8"	9.5	mm	87.8	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	83.6	
No. 10	2.00	mm	79.9	
No. 20	850	µm	76.0	
No. 40	425	µm	71.8	
No. 60	250	µm	66.9	
No. 100	150	µm	61.4	
No. 200	75	µm	52.5	

MOISTURE CONTENT 9.7%

COMMENTS
MAIN EMBANKMENT

 2008.Jul.29 GeoNorth Engineering Ltd. PER.



GEONORTH ENGINEERING LTD.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
GRAIN SIZE ANALYSIS OF R-S6-ZS-02-08

SCALE:	DATE:
N.T.S.	2008/07/30
PROJECT NO:	PLATE NO.
K-2585	2585-87

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. / Knight Piesold				Date: July 29, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: R-S6-ZS-02-08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: SR			Checked By: NK
Date Sampled: 07.15.08	Date Received: 07.21.08			Date Tested: 07.25.08

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	**79.9**
Wet Wt. & Tare		25.4				20	2.2	47.8	95.6	**76.4**
Dry Wt. & Tare		19.0				40	2.1	45.7	91.4	**73.0**
Water Wt.		12.5				60	2.7	43.0	86.0	**68.7**
Tare Wt.		9.5				100	3.2	39.8	79.6	**63.6**
Wt. Of Dry Soil		4.75				200	4.9	34.9	69.8	**55.8**
Moisture Content %	**9.7**	10	**SEE WASHED SIEVE**			Pan	34.9			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
=(100xWet Soil Wt.)/(100 + 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	0.799	0.5	35.0	23.0	0.01317	29.0	11.5	4.798	0.063	58.0	**46.3**
50.0	0.799	1	32.0	23.0	0.01317	26.0	12.0	3.465	0.046	52.0	**41.5**
50.0	0.799	2	30.0	23.0	0.01317	24.0	12.3	2.483	0.033	48.0	**38.4**
50.0	0.799	4	28.5	23.0	0.01317	22.5	12.6	1.774	0.023	45.0	**36.0**
50.0	0.799	8	26.0	23.0	0.01317	20.0	13.0	1.275	0.017	40.0	**32.0**
50.0	0.799	15	25.0	23.0	0.01317	19.0	13.2	0.937	0.012	38.0	**30.4**
50.0	0.799	30	22.0	23.0	0.01317	16.0	13.7	0.675	0.009	32.0	**25.6**
50.0	0.799	60	20.0	23.0	0.01317	14.0	14.0	0.483	0.006	28.0	**22.4**
50.0	0.799	120	18.0	23.0	0.01317	12.0	14.3	0.345	0.005	24.0	**19.2**
50.0	0.799	240	16.0	23.0	0.01317	10.0	14.6	0.247	0.003	20.0	**16.0**
50.0	0.799	480	15.0	23.0	0.01317	9.0	14.8	0.176	0.002	18.0	**14.4**
50.0	0.799	1440	13.0	23.0	0.01317	7.0	15.1	0.103	0.001	14.0	**11.2**

Hydrometer #: 794968	Graduate #: 2	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELGO

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

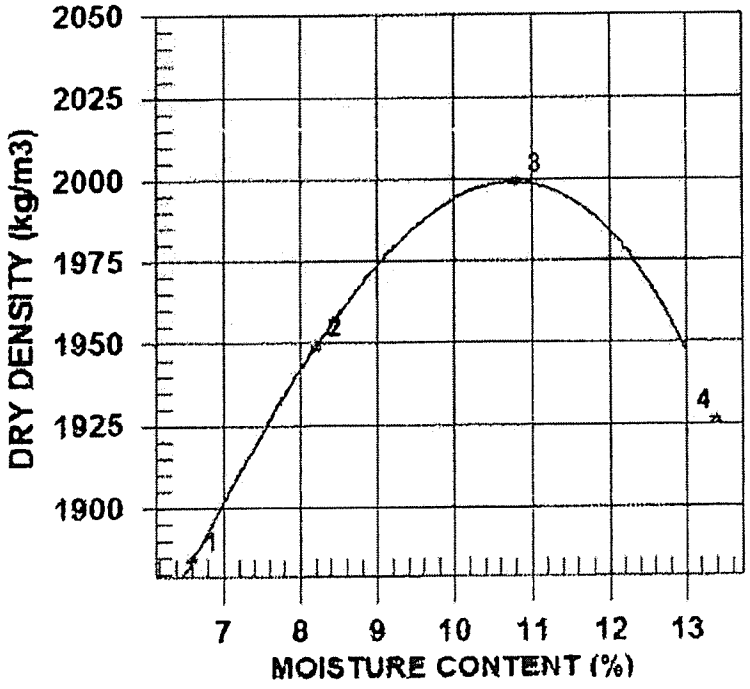
PROJECT Mount Polley Construction Program
Stage 6

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 7 DATE TESTED 2008.Jul.25 DATE RECEIVED 2008.Jul.21 DATE SAMPLED 2008.Jul.15

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
TESTED BY	SR	RAMMER TYPE	Automatic
SUPPLIER		PREPARATION	Moist
SOURCE	R-S6-ZS-02-08	OVERSIZE CORRECTION METHOD	ASTM 4718
MATERIAL IDENTIFICATION		RETAINED 4.75mm SCREEN	15.7 %
MAJOR COMPONENT	TILL	OVERSIZE SPECIFIC GRAVITY	2.67
SIZE	38MM	TOTAL NUMBER OF TRIALS	4
DESCRIPTION			
ROCK TYPE			



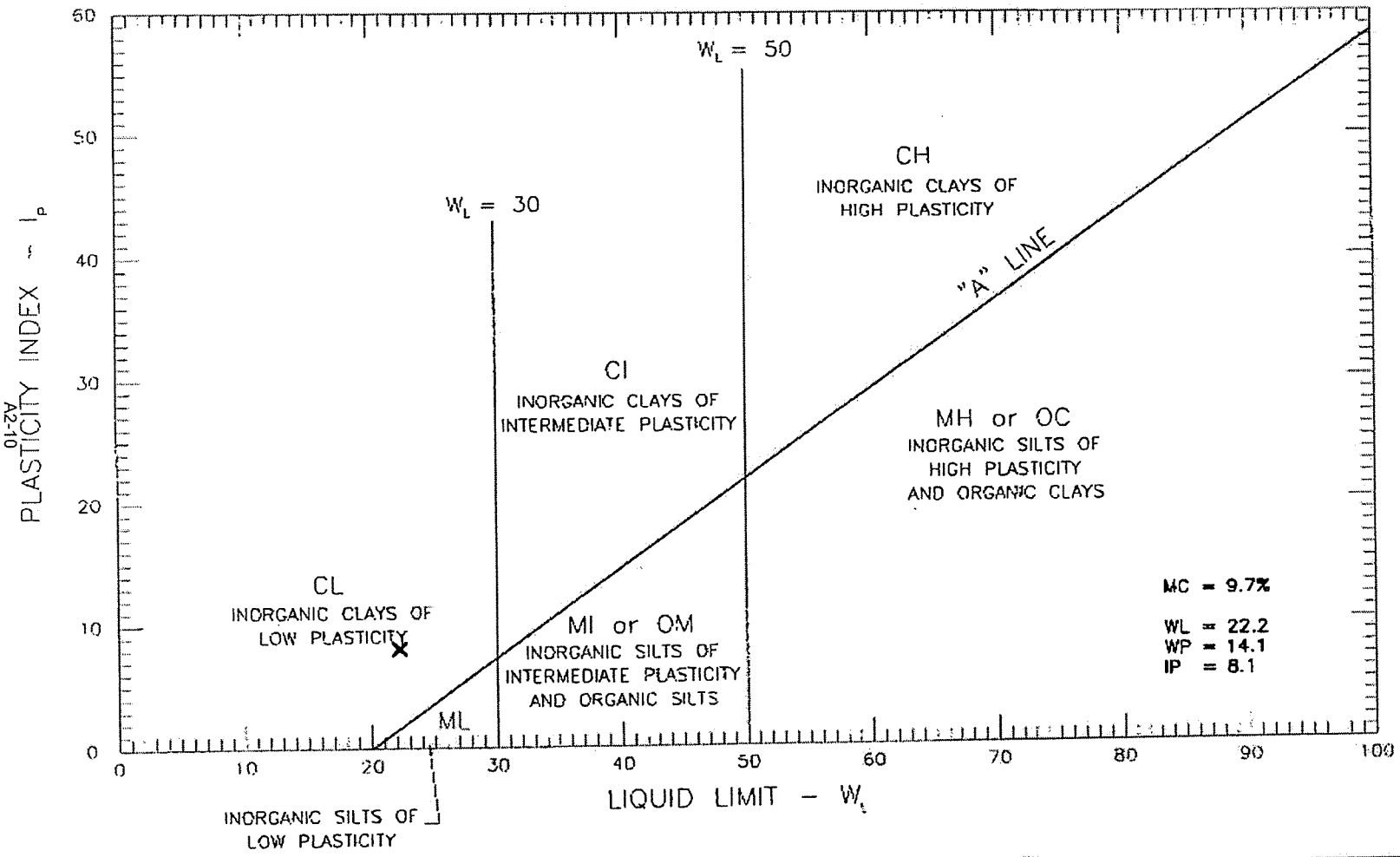
TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2008	1884	6.6
2	2109	1949	8.2
3	2215	1999	10.8
4	2184	1926	13.4

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2000	11.0
OVERSIZE CORRECTED	2080	9.5

COMMENTS
SPECIFIC GRAVITY (COARSE) = 2.676

SPECIFIC GRAVITY (FINE) = 2.680

PER



GeoNorth Engineering Ltd.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
ATTERBERG LIMITS OF R-S6-ZS-02-08

SCALE:	DATE:
N.T.S.	2008/07/30
PROJECT NO:	PLATE NO.
K-2585	2585-C7

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

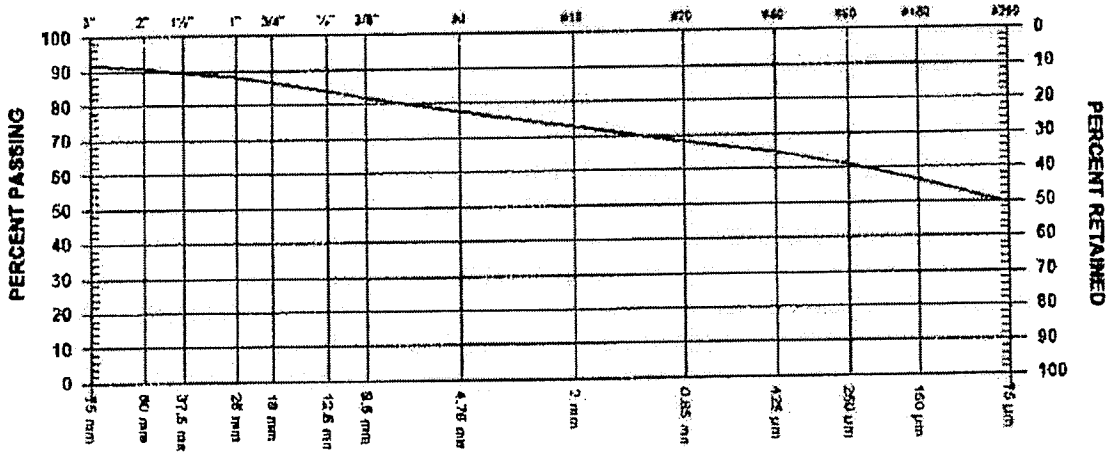
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 3 DATE RECEIVED 2008.May.27 DATE TESTED 2008.May.30 DATE SAMPLED 2008.May.20

SUPPLIER
SOURCE R-S6-ZS-03/08
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	91.8	
2"	50	mm	90.5	
1 1/2"	37.5	mm	89.6	
1"	25	mm	88.0	
3/4"	19	mm	86.4	
1/2"	12.5	mm	83.7	
3/8"	9.5	mm	81.6	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	77.4	
No. 10	2.00	mm	72.6	
No. 20	850	µm	68.3	
No. 40	425	µm	64.7	
No. 60	250	µm	60.7	
No. 100	150	µm	56.3	
No. 200	75	µm	49.5	

COMMENTS
0% PASSING THE 4"

 2008.Jun.04 GeoNorth Engineering Ltd. A2.11

PER. _____

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. Attn: Knight Piesold				Date: June 4, 2008
Project Name: MPCP Stage 6				**Project #: K-2585**
Source/Location: R-S6-ZS-03/08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: SR			Checked By: NK
Date Sampled: 05.20.08	Date Received: 05.27.08			Date Tested: 06.02.08

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	1380.7
Dry Wt. & Tare	1256.1
Water Wt.	124.6
Tare Wt.	181.3
Wt. Of Dry Soil	1074.8
Moisture Content %	**11.6**
Dry Wt. Of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture) =	

Sieve Analysis			
Sieve No.	**Weight Retained**	**Total Wt. Passing**	**% Finer Than Orig. Samp.**
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	**SEE WASHED SIEVE**		
Total			

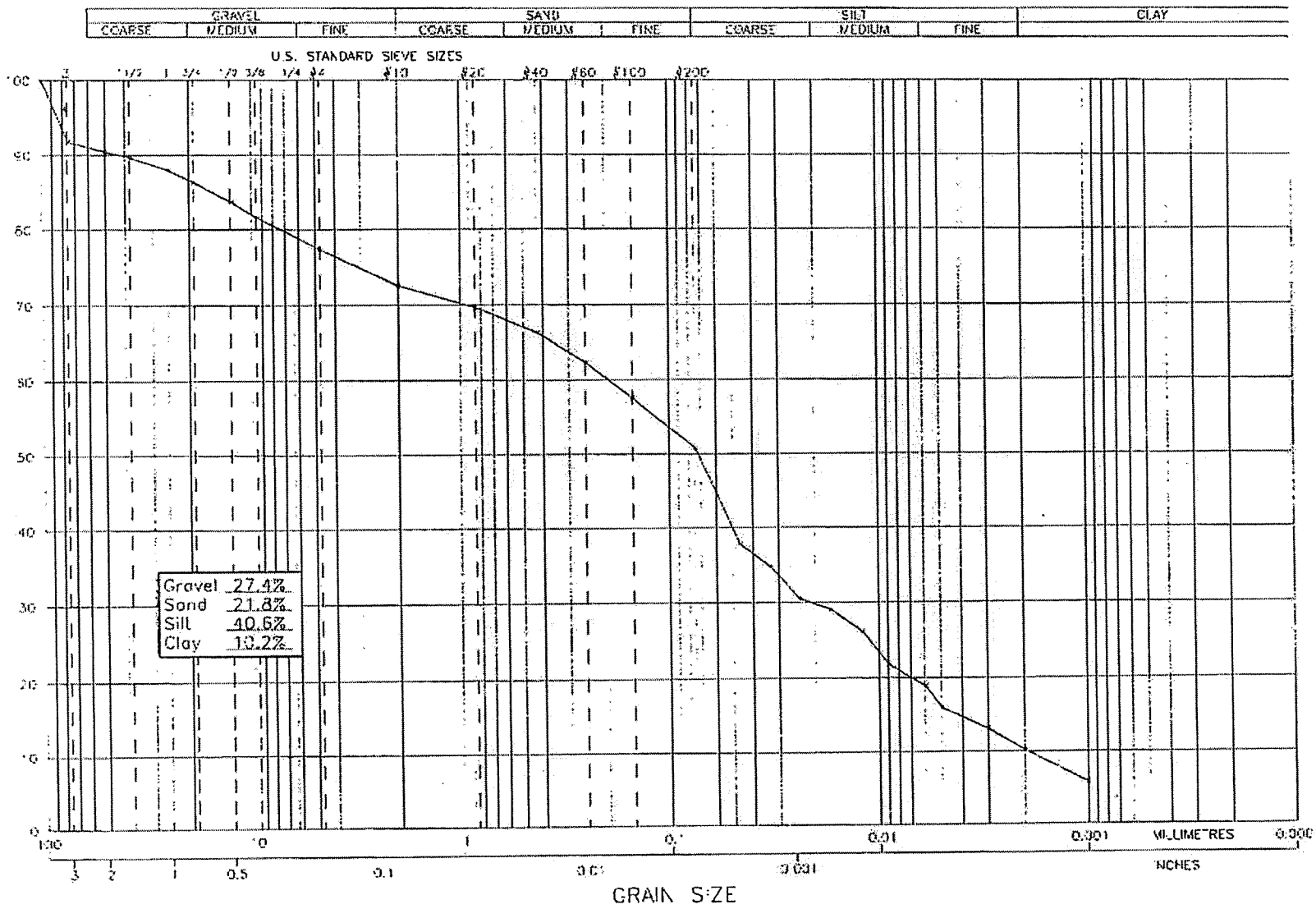
Hydrometer Sieve Analysis				
Sieve No.	**Weight Retained**	**Total Wt. Finer Than**	**% Finer Than**	**% Finer Than Orig Samp.**
10		50.0	100.0	**72.6**
20	2.0	48.0	96.0	**69.7**
40	2.3	45.7	91.4	**66.3**
60	2.8	42.9	85.8	**62.3**
100	3.2	39.7	79.4	**57.6**
200	4.7	35.0	70.0	**50.8**
Pan	35.0			
Total	50.0			
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	0.726	0.5	34.0	23.0	0.01317	28.0	11.7	4.832	0.064	56.0	**40.7**
50.0	0.726	1	32.0	23.0	0.01317	26.0	12.0	3.465	0.046	52.0	**37.8**
50.0	0.726	2	30.0	23.0	0.01317	24.0	12.3	2.483	0.033	48.0	**34.8**
50.0	0.726	4	27.0	23.0	0.01317	21.0	12.8	1.791	0.024	42.0	**30.5**
50.0	0.726	8	26.0	23.0	0.01317	20.0	13.0	1.275	0.017	40.0	**29.0**
50.0	0.726	15	24.0	23.0	0.01317	18.0	13.3	0.943	0.012	36.0	**26.1**
50.0	0.726	30	21.0	23.0	0.01317	15.0	13.8	0.679	0.009	30.0	**21.8**
50.0	0.726	60	19.0	23.0	0.01317	13.0	14.2	0.486	0.006	26.0	**18.9**
50.0	0.726	120	17.0	23.0	0.01317	11.0	14.5	0.347	0.005	22.0	**16.0**
50.0	0.726	240	15.0	23.0	0.01317	9.0	14.8	0.248	0.003	18.0	**13.1**
50.0	0.726	480	13.0	23.0	0.01317	7.0	15.1	0.178	0.002	14.0	**10.2**
50.0	0.726	1440	10.0	23.0	0.01317	4.0	15.6	0.104	0.001	8.0	**5.8**

Hydrometer #: 794968	Graduate #: 2	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELDO

A2-12



GEONORTH ENGINEERING LTD.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
GRAIN SIZE ANALYSIS OF C-S6-ZS-03/08

SCALE:	DATE:
N.T.S.	2008/06/05
PROJECT NO:	PLATE NO.
K-2585	2585-B3

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

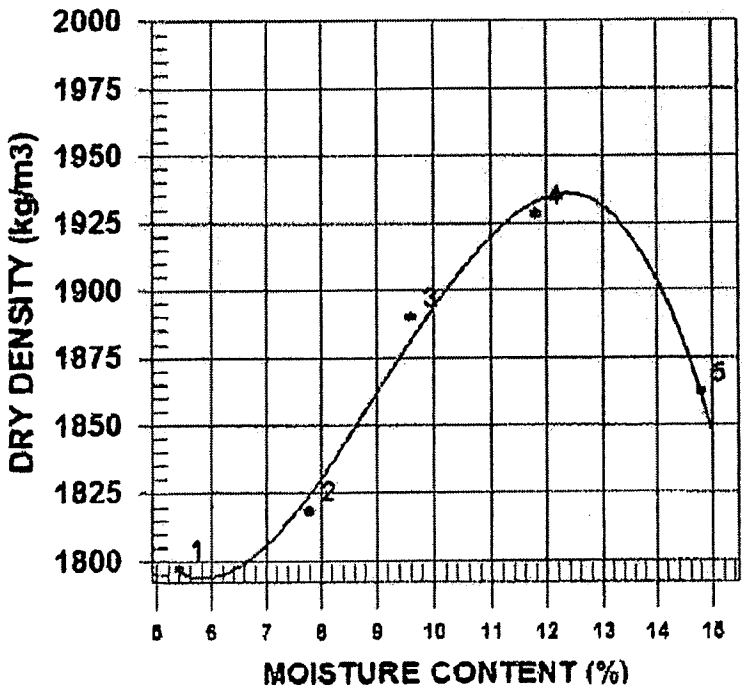
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
CONTRACTOR

Mount Polley Mine
Likely

PROCTOR NO. 3 DATE TESTED 2008.May.30 DATE RECEIVED 2008.May.27 DATE SAMPLED 2008.May.20

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
TESTED BY	DJ	RAMMER TYPE	Automatic
SUPPLIER		PREPARATION	Moist
SOURCE	R-S6-2S-03/08	OVERSIZE CORRECTION METHOD	ASTM 4718
MATERIAL IDENTIFICATION		RETAINED 4.75mm SCREEN	22.0 %
MAJOR COMPONENT	TILL	OVERSIZE SPECIFIC GRAVITY	2.74
SIZE	100MM	TOTAL NUMBER OF TRIALS	5
DESCRIPTION			
ROCK TYPE			



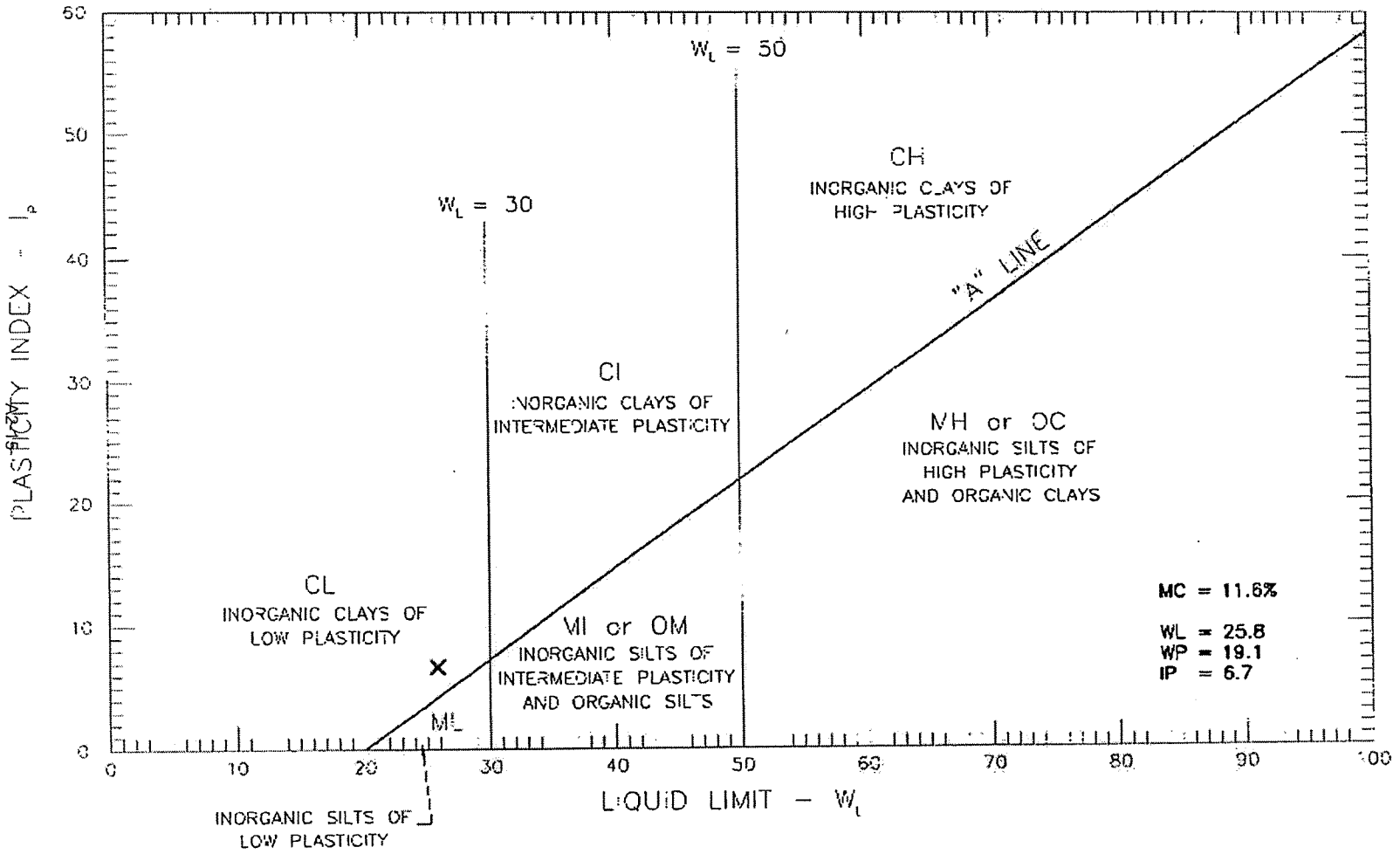
TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1894	1797	5.4
2	1960	1818	7.8
3	2071	1890	9.6
4	2155	1928	11.8
5	2138	1862	14.8

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1940	12.5
OVERSIZE CORRECTED	2070	10.0

COMMENTS
SPECIFIC GRAVITY = 2.742 (COARSE)

SPECIFIC GRAVITY = 2.682 (FINE)

 2008.Jun.04 GeoNorth Engineering Ltd. PER.



GEONORTH ENGINEERING LTD. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6 ATTERBERG LIMITS OF PERIMETER EMBANKMENT (ZONE S) R-S6-ZS-03/08	SCALE: N.T.S.	DATE: 2008/06/02
		PROJECT NO: K-2585	PLATE NO. 2585-C3

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

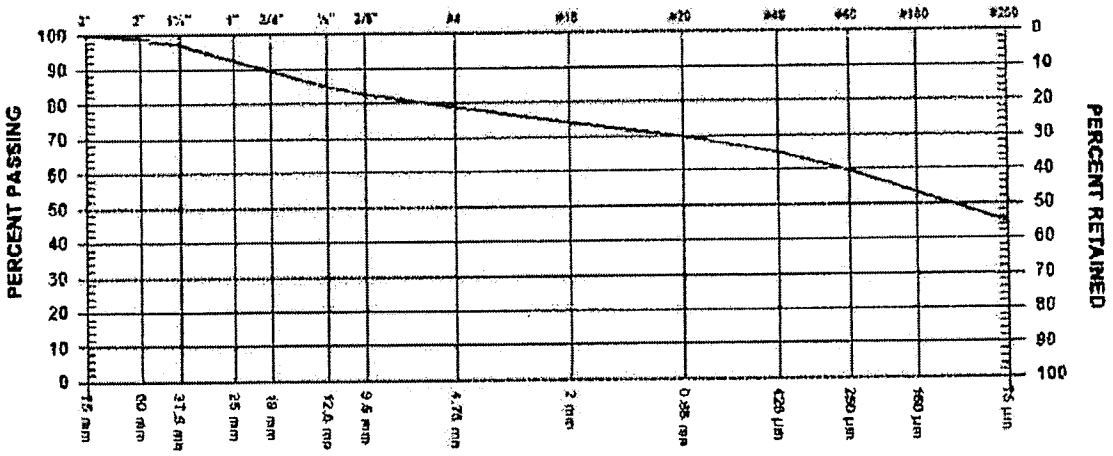
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 4 DATE RECEIVED 2008.May.27 DATE TESTED 2008.May.30 DATE SAMPLED 2008.May.20

SUPPLIER
SOURCE R-S6-ZS-04/08
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	98.6	
1 1/2"	37.5 mm	97.2	
1"	25 mm	92.3	
3/4"	19 mm	89.3	
1/2"	12.5 mm	84.8	
3/8"	9.5 mm	82.8	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	78.6	
No. 10	2.00 mm	74.1	
No. 20	850 µm	69.8	
No. 40	425 µm	65.2	
No. 60	250 µm	59.4	
No. 100	150 µm	53.2	
No. 200	75 µm	44.9	

COMMENTS

PER.

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. Attn: Knight Piesold				Date: June 4, 2008
Project Name: MPCP Stage 6				**Project #: K-2585**
Source/Location: R-S6-ZS-04/08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: SR			Checked By: NK
Date Sampled: 05.20.08	Date Received: 05.27.08			Date Tested: 06.02.08

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	1234.9
Dry Wt. & Tare	1108.9
Water Wt.	126.0
Tare Wt.	180.3
Wt. Of Dry Soil	928.6
Moisture Content %	**13.6**
Dry Wt. Of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture)	

Sieve Analysis			
Sieve No.	**Weight Retained**	**Total Wt. Passing**	**% Finer Than Orig. Samp.**
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	**SEE WASHED SIEVE**		
Total			

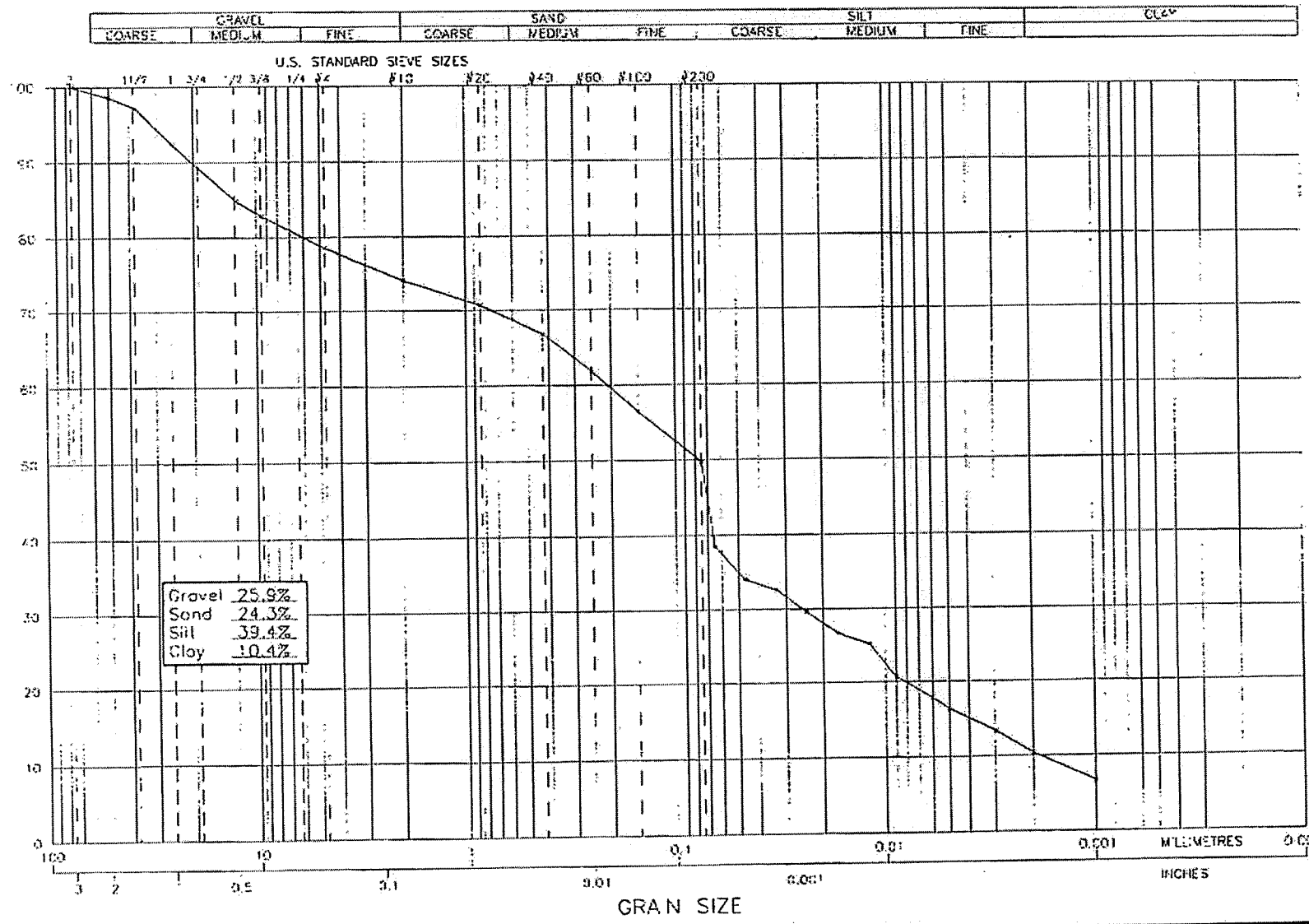
Hydrometer Sieve Analysis				
Sieve No.	**Weight Retained**	**Total Wt. Finer Than**	**% Finer Than**	**% Finer Than Orig Samp.**
10		50.0	100.0	**74.1**
20	2.3	47.7	95.4	**70.7**
40	2.6	45.1	90.2	**66.8**
60	3.3	41.8	83.6	**61.9**
100	3.7	38.1	76.2	**56.5**
200	4.5	33.6	67.2	**49.8**
Pan	33.6			
Total	50.0			
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	0.741	0.5	32.0	23.0	0.01317	26.0	12.0	4.900	0.065	52.0	**38.5**
50.0	0.741	1	29.0	23.0	0.01317	23.0	12.5	3.536	0.047	46.0	**34.1**
50.0	0.741	2	28.0	23.0	0.01317	22.0	12.7	2.516	0.033	44.0	**32.6**
50.0	0.741	4	26.0	23.0	0.01317	20.0	13.0	1.802	0.024	40.0	**29.6**
50.0	0.741	8	24.0	23.0	0.01317	18.0	13.3	1.291	0.017	36.0	**26.7**
50.0	0.741	15	23.0	23.0	0.01317	17.0	13.5	0.948	0.012	34.0	**25.2**
50.0	0.741	30	20.0	23.0	0.01317	14.0	14.0	0.683	0.009	28.0	**20.7**
50.0	0.741	60	18.0	23.0	0.01317	12.0	14.3	0.488	0.006	24.0	**17.8**
50.0	0.741	120	17.0	23.0	0.01317	11.0	14.5	0.347	0.005	22.0	**16.3**
50.0	0.741	240	15.0	23.0	0.01317	9.0	14.8	0.248	0.003	18.0	**13.3**
50.0	0.741	480	13.0	23.0	0.01317	7.0	15.1	0.178	0.002	14.0	**10.4**
50.0	0.741	1440	10.5	23.0	0.01317	4.5	15.6	0.104	0.001	9.0	**6.7**

Hydrometer #: 794968	Graduate #: 4	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELCO

A2-17

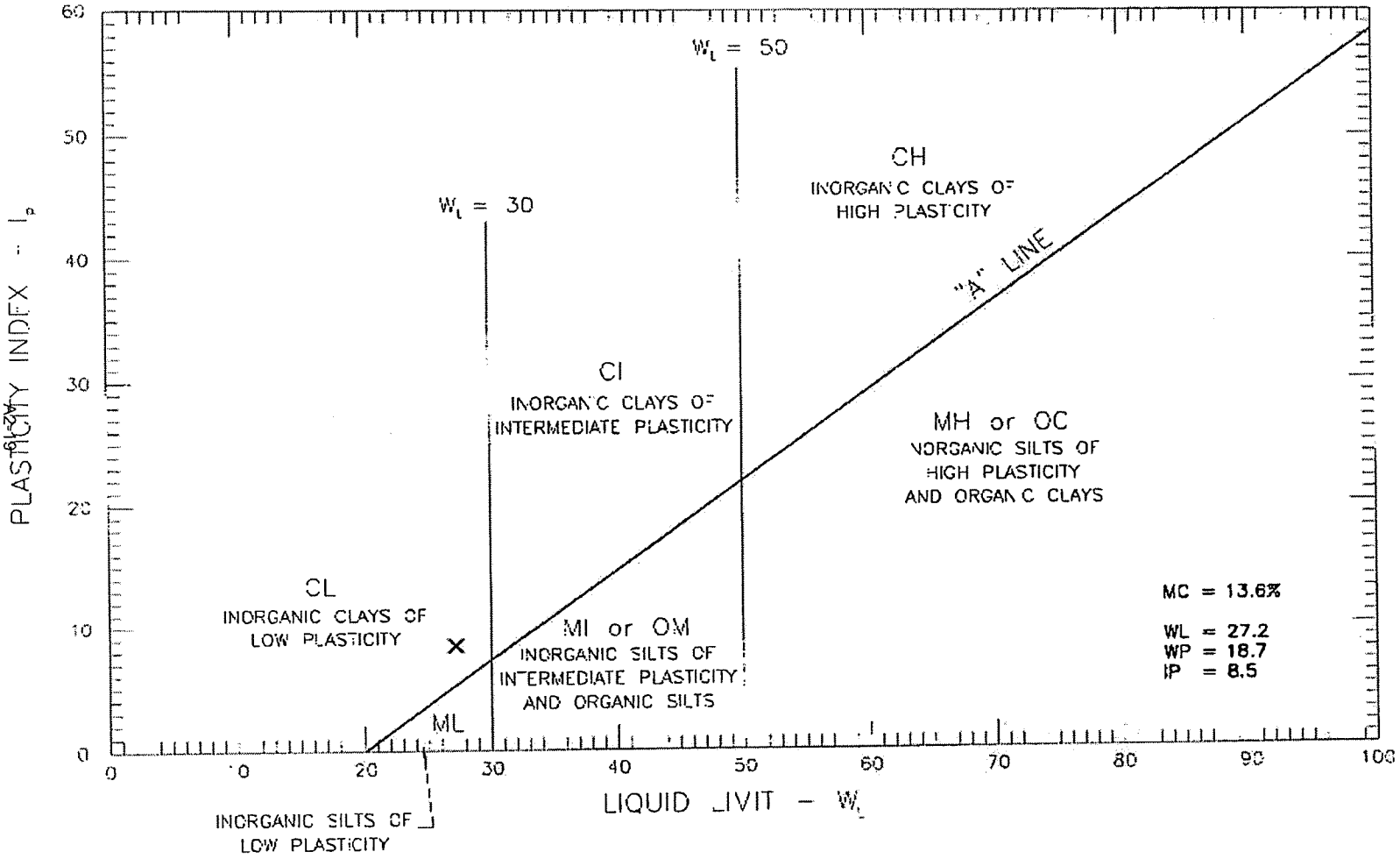


A2-18

GEONORTH ENGINEERING LTD.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
GRAIN SIZE ANALYSIS OF C-S6-ZS-04/08

SCALE:	DATE:
N.T.S.	2008/06/05
PROJECT NO:	PLATE NO.
K-2585	2585-B4



GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6 ATTERBERG LIMITS OF PERIMETER EMBANKMENT (ZONE S) R-S6-ZS-04/08	SCALE: N.T.S.	DATE: 2008/06/02
		PROJECT NO: K-2585	PLATE NO. 2585-C4

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

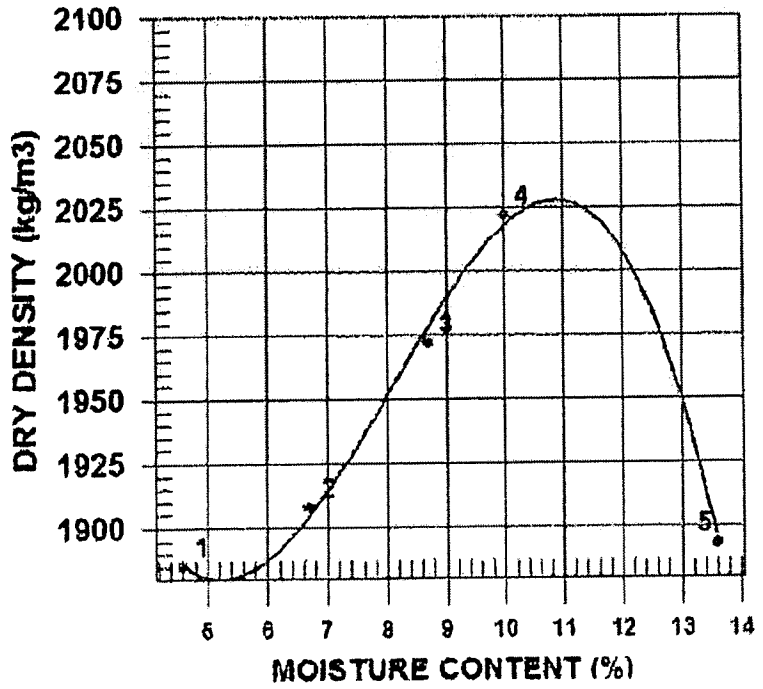
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

PROCTOR NO. 4 DATE TESTED 2008.May.30 DATE RECEIVED 2008.May.27 DATE SAMPLED 2008.May.20

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
TESTED BY	DJ	RAMMER TYPE	Automatic
SUPPLIER		PREPARATION	Moist
SOURCE	R-S6-ZS-04/08	OVERSIZE CORRECTION METHOD	ASTM 4718
MATERIAL IDENTIFICATION		RETAINED 4.75mm SCREEN	21.0 %
MAJOR COMPONENT	TILL	OVERSIZE SPECIFIC GRAVITY	2.66
SIZE	75MM	TOTAL NUMBER OF TRIALS	5
DESCRIPTION			
ROCK TYPE			



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1972	1885	4.6
2	2036	1908	6.7
3	2144	1972	8.7
4	2224	2022	10.0
5	2151	1893	13.6

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

COMMENTS
ECIFIC GRAVITY = 2.661 (COARSE)

SPECIFIC GRAVITY - 2.672 (FINE)

 2008.Jun.04 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, B.C. V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

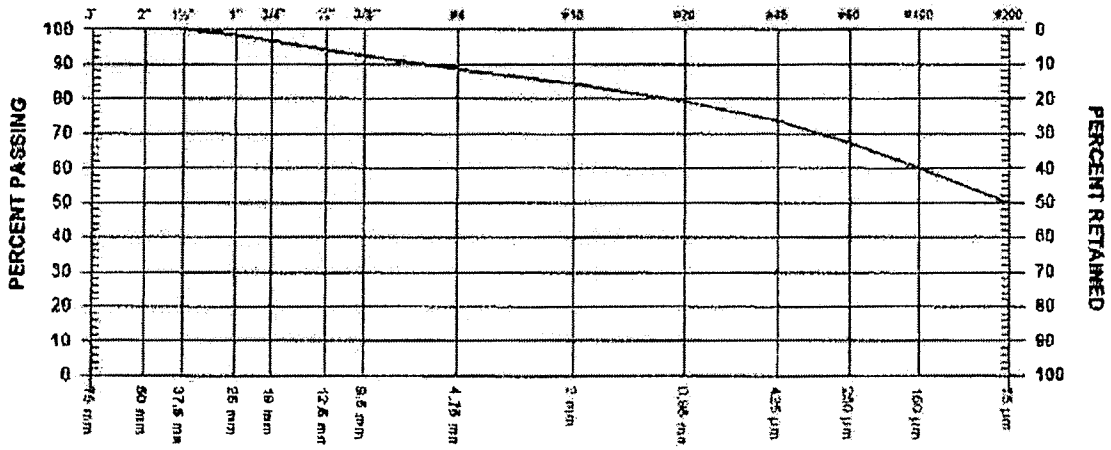
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 11 DATE RECEIVED 2008.Aug.06 DATE TESTED 2008.Aug.12 DATE SAMPLED 2008.Aug.04

SUPPLIER
SOURCE R-S6-ZS-05/08
SPECIFICATION
MATERIAL TYPE TILL

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	100.0	
1"	25 mm	98.5	
3/4"	19 mm	96.8	
1/2"	12.5 mm	94.3	
3/8"	9.5 mm	92.5	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	88.4	
No. 10	2.00 mm	84.2	
No. 20	850 µm	79.2	
No. 40	425 µm	73.6	
No. 60	250 µm	67.1	
No. 100	150 µm	60.2	
No. 200	75 µm	49.7	

COMMENTS
LOCATION: PE, CHAINAGE: 2950M, ELEVATION: 952.7M, OFFSET: UPSTREAM SIDE

 2008.Aug.15 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering

Test Designation: ASTM D-422

Hydrometer Analysis

Client: Mount Polley Mining Corp. / Knight Piesold				Date: August 15, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: R-S6-ZS-05/08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: SR			Checked By: NK
Date Sampled: 08.04.08	Date Received: 08.06.08			Date Tested: 08.13.08

Initial Moisture Content

Tare No.	
Wet Wt. & Tare	1178.0
Dry Wt. & Tare	1097.8
Water Wt.	80.2
Tare Wt.	194.7
Wt. Of Dry Soil	903.1
Moisture Content %	**8.9**
Dry Wt. Of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture)	

Sieve Analysis

Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	**SEE WASHED SIEVE**		
Total			

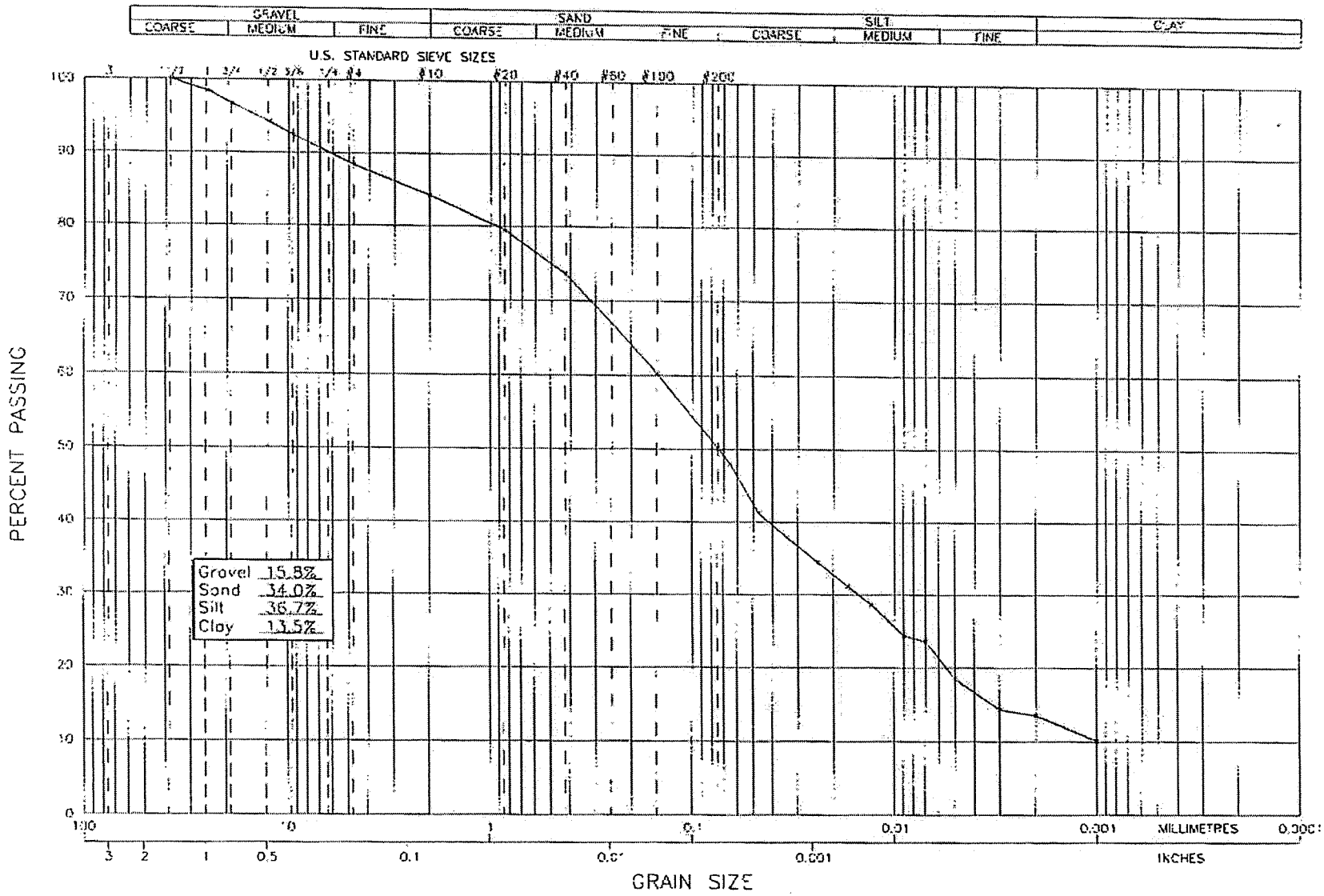
Hydrometer Sieve Analysis

Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
10		50.0	100.0	**84.2**
20	2.8	47.2	94.4	**79.5**
40	3.5	43.7	87.4	**73.6**
60	3.9	39.8	79.6	**67.0**
100	4.0	35.8	71.6	**60.3**
200	6.0	29.8	59.6	**50.2**
Pan	29.8			
Total	50.0			
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	0.842	0.5	35.0	21.0	0.01348	28.5	11.6	4.815	0.065	57.0	**48.0**
50.0	0.842	1	31.0	21.0	0.01348	24.5	12.3	3.500	0.047	49.0	**41.3**
50.0	0.842	2	29.0	21.0	0.01348	22.5	12.6	2.508	0.034	45.0	**37.9**
50.0	0.842	4	27.0	21.0	0.01348	20.5	12.9	1.797	0.024	41.0	**34.5**
50.0	0.842	8	25.0	21.0	0.01348	18.5	13.2	1.287	0.017	37.0	**31.2**
50.0	0.842	15	23.5	21.0	0.01348	17.0	13.5	0.948	0.013	34.0	**28.6**
50.0	0.842	30	21.0	21.0	0.01348	14.5	13.9	0.681	0.009	29.0	**24.4**
50.0	0.842	60	20.5	21.0	0.01348	14.0	14.0	0.483	0.007	28.0	**23.6**
50.0	0.842	120	17.5	21.0	0.01348	11.0	14.5	0.347	0.005	22.0	**18.5**
50.0	0.842	240	15.0	21.0	0.01348	8.5	14.9	0.249	0.003	17.0	**14.3**
50.0	0.842	480	14.5	21.0	0.01348	8.0	15.0	0.177	0.002	16.0	**13.5**
50.0	0.842	1440	12.5	21.0	0.01348	6.0	15.3	0.103	0.001	12.0	**10.1**

Hydrometer #: 794968	Graduate #: 2	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

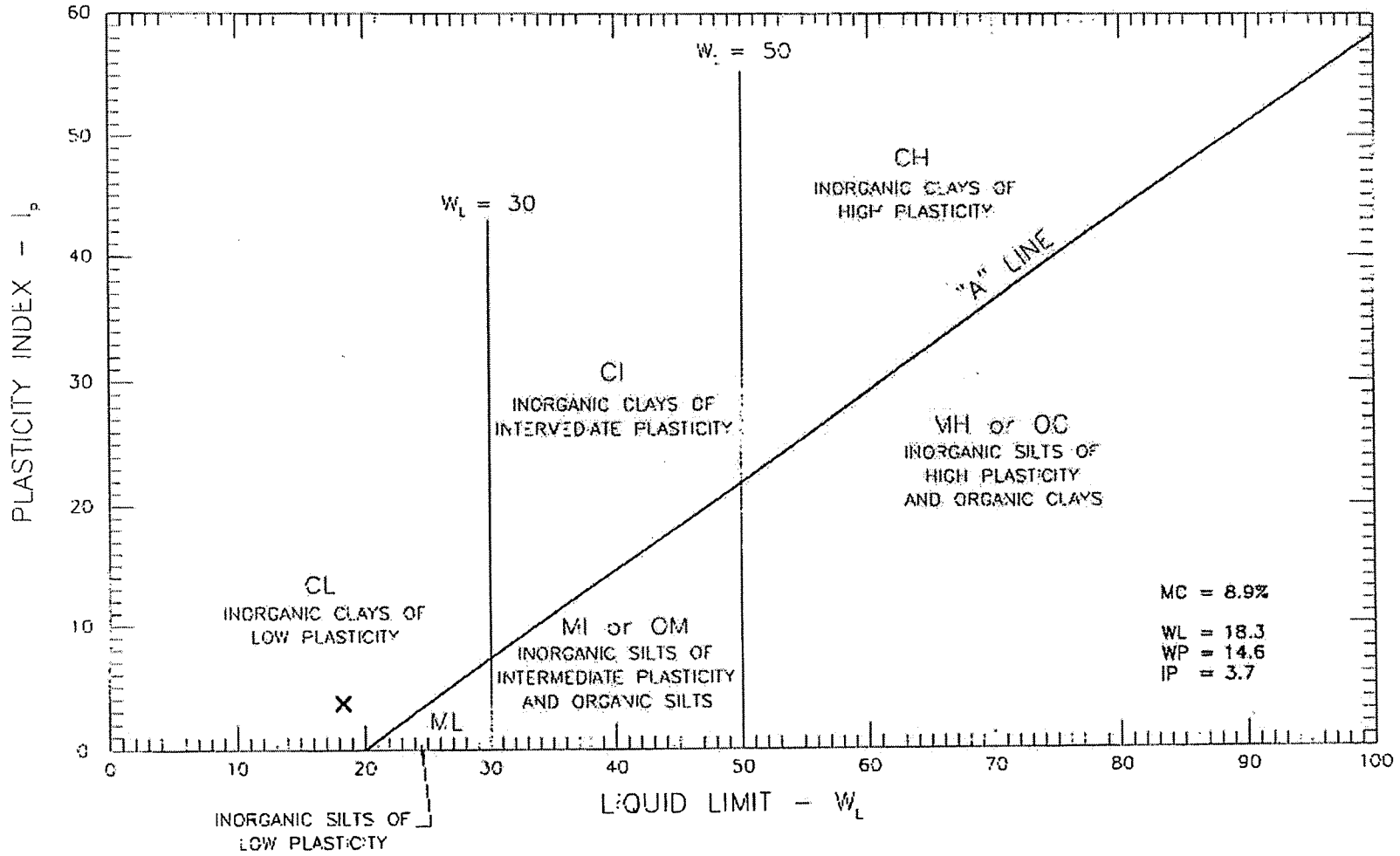
NOTLOG



GeoNorth Engineering Ltd.
1301 Kelliher Road
Prince George, B.C. V2L 5S6
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
GRAIN SIZE ANALYSIS OF R-S6-ZS-05/08

SCALE:	DATE:
N.T.S.	2008/08/15
PROJECT NO:	PLATE NO.
K-2585	2585-31



A2-24

GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 ATTERBERG LIMITS OF R-S6-ZS-05/08	SCALE: N.T.S.	DATE: 2008/08/15
		PROJECT NO: K-2585	PLATE NO. 2585-C1

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, B 2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

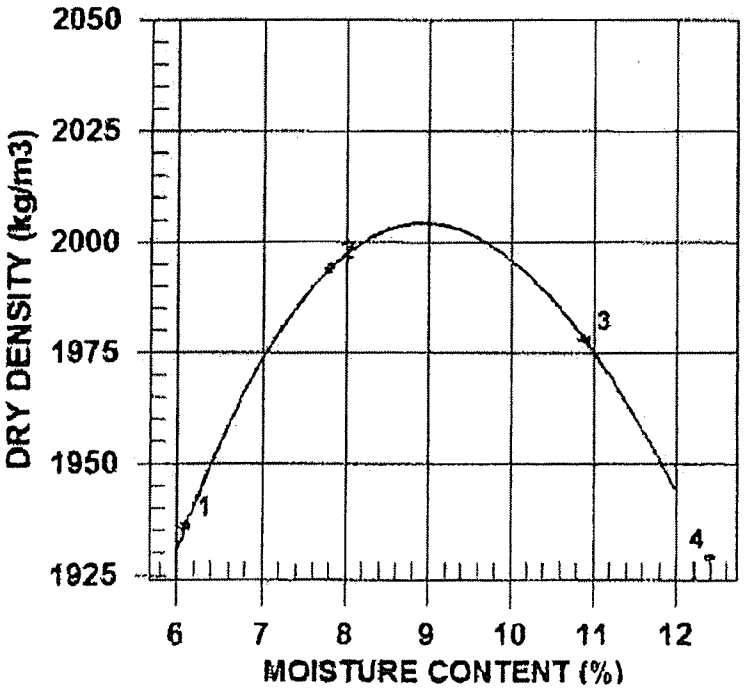
TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program Stage 6
Mount Polley Mine
Likely
CONTRACTOR

PROCTOR NO. 11 DATE TESTED 2008.Aug.11 DATE RECEIVED 2008.Aug.06 DATE SAMPLED 2008.Aug.04

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client		
TESTED BY	SR	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER			
SOURCE	R-S6-ZS-05/08	RAMMER TYPE	Automatic
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE	50MM	RETAINED 4.75mm SCREEN	11.0 %
DESCRIPTION		OVERSIZE SPECIFIC GRAVITY	2.65
ROCK TYPE		TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2054	1936	6.1
2	2150	1994	7.8
3	2194	1978	10.9
4	2168	1929	12.4

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2010	9.0
OVERSIZE CORRECTED	2070	8.0

COMMENTS
SPECIFIC GRAVITY (COARSE) = 2.647

SPECIFIC GRAVITY (FINES) = 2.674

PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

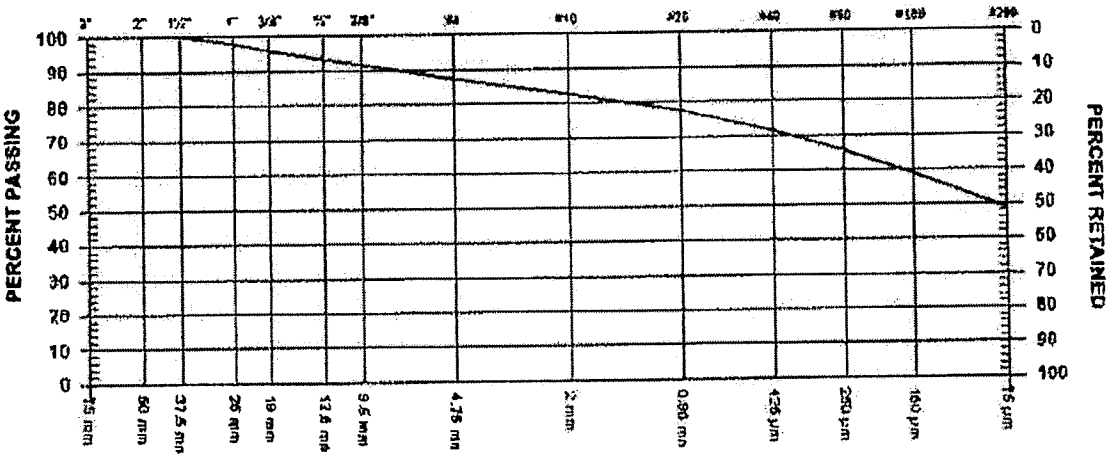
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 13 DATE RECEIVED 2008.Aug.20 DATE TESTED 2008.Aug.21 DATE SAMPLED 2008.Aug.15

SUPPLIER
SOURCE R-S6-2S-06/08
SPECIFICATION
MATERIAL TYPE Brown Glacial Till

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



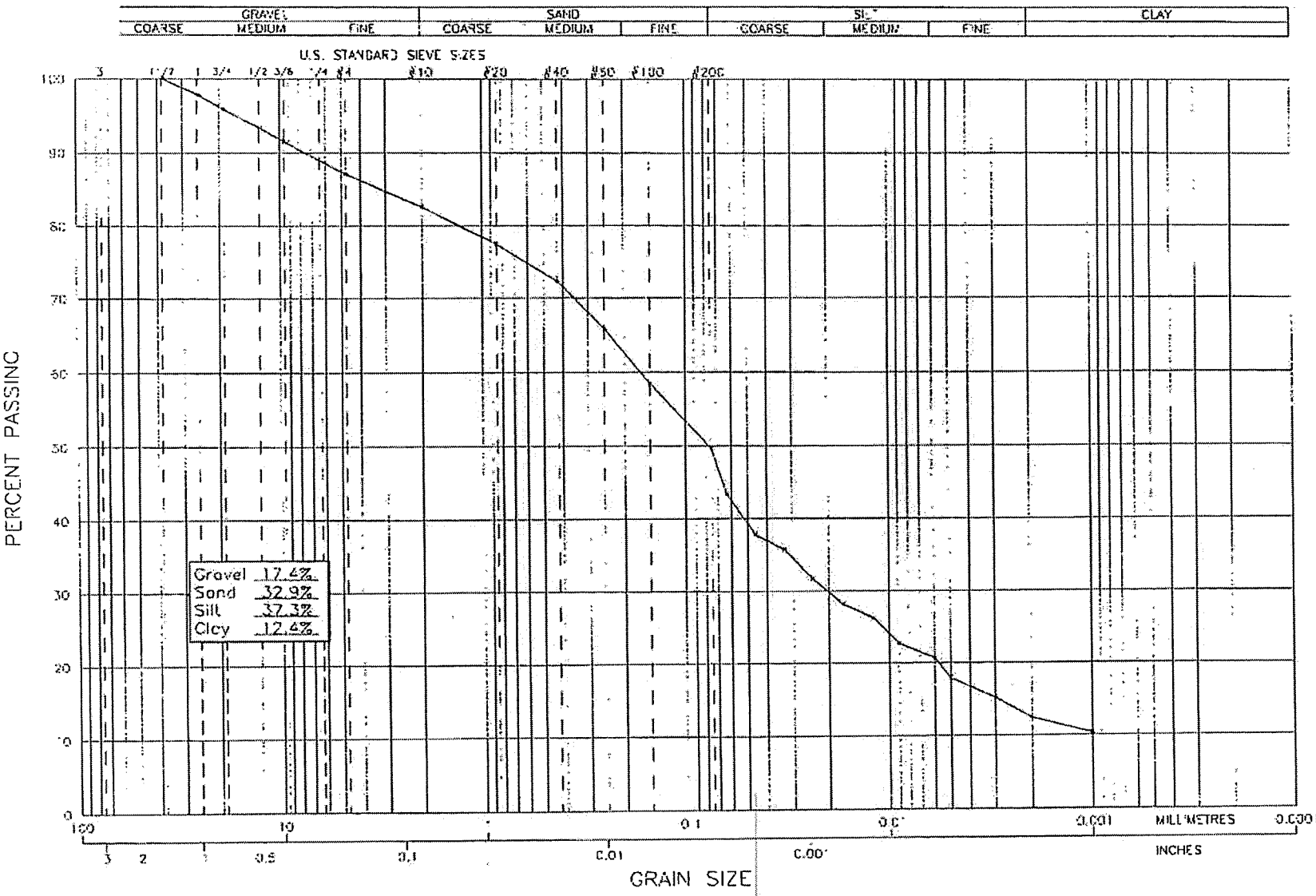
GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm		
2"	50 mm		
1 1/2"	37.5 mm	100.0	
1"	25 mm	97.8	
3/4"	19 mm	95.9	
1/2"	12.5 mm	93.3	
3/8"	9.5 mm	91.5	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	87.1	
No. 10	2.00 mm	82.6	
No. 20	850 µm	77.3	
No. 40	425 µm	71.7	
No. 60	250 µm	65.5	
No. 100	150 µm	58.9	
No. 200	75 µm	48.4	

MOISTURE CONTENT 11.1%

COMMENTS
Location: PE, Chainage: 34+75m, Elevation: u/s

PER. _____



A2-27

GEONORTH ENGINEERING LTD. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 GRAIN SIZE ANALYSIS OF R-S6-ZS-06/08	SCALE: N.T.S.	DATE: 2008/08/28
		PROJECT NO: K-2585	PLATE NO. 2585-B13

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining / Knight Piesold				Date: August 26, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: R-S6-ZS-06/08				**Type: Glacial Till**
Sample #:	Test #:	Hole #:	Depth:	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 08.15.08	Date Received: 08.20.08			Date Tested: 08.25.08

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	629.7
Dry Wt. & Tare	587.5
Water Wt.	42.2
Tare Wt.	206.6
Wt. Of Dry Soil	380.9
Moisture Content %	**11.1**
Dry Wt. Of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture)	

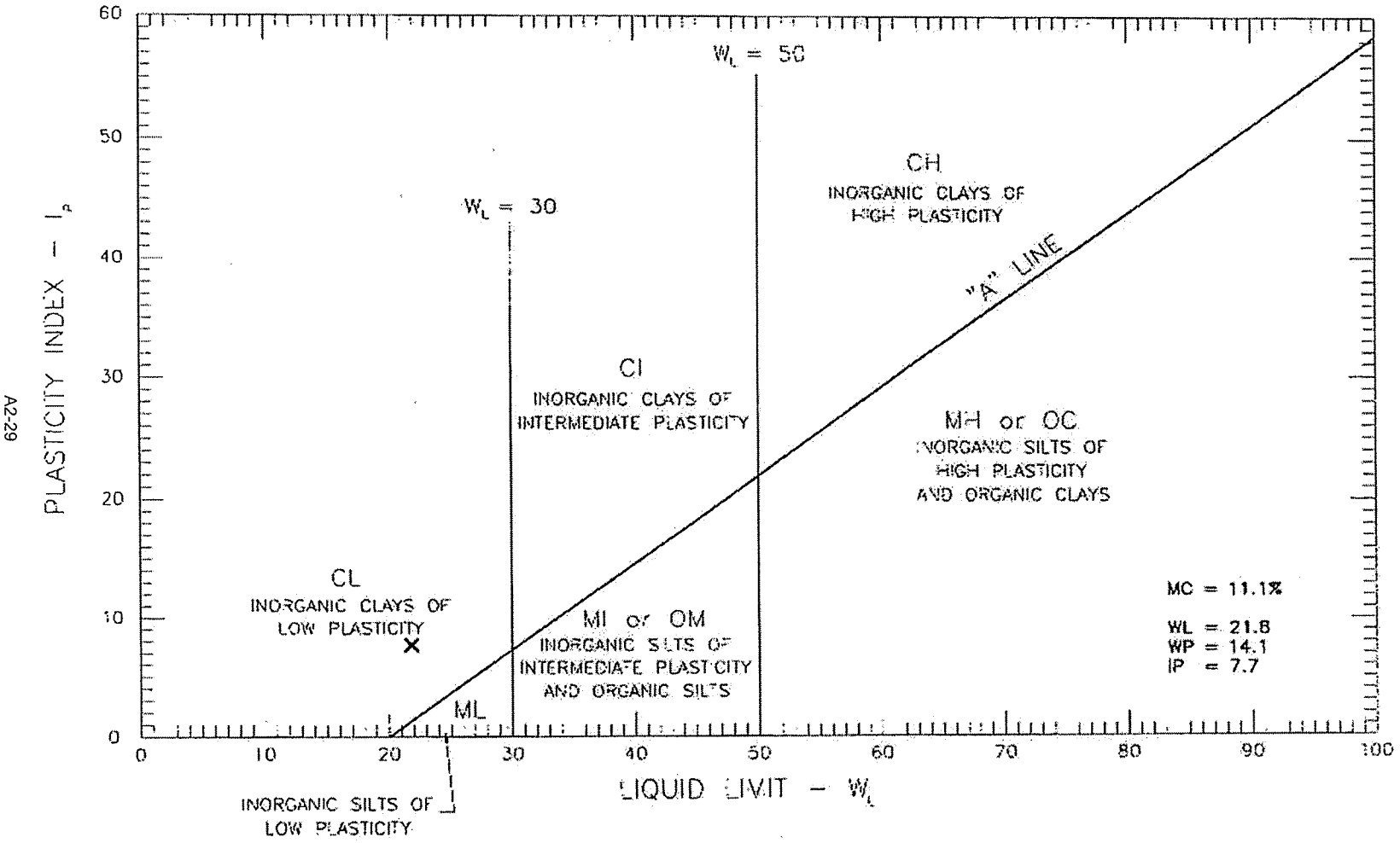
Sieve Analysis			
Sieve No.	Weight Retained	Total Wt. Passing	% Finer Than Orig. Samp.
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	**SEE WASHED SIEVE**		
Total			

Hydrometer Sieve Analysis				
Sieve No.	Weight Retained	Total Wt. Finer Than	% Finer Than	% Finer Than Orig Samp.
10		60.0	100.0	**82.6**
20	3.7	56.3	93.8	**77.5**
40	3.8	52.5	87.5	**72.3**
60	4.7	47.8	79.7	**65.8**
100	5.3	42.5	70.8	**58.5**
200	6.4	36.1	60.2	**49.7**
Pan	36.1			
Total	60.0			
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)
60.0	0.826	0.5	38.0	22.0	0.01332	31.5	11.1	4.711	0.063	52.5	**43.4**
60.0	0.826	1	34.0	22.0	0.01332	27.5	11.8	3.429	0.046	45.8	**37.9**
60.0	0.826	2	32.5	22.0	0.01332	26.0	12.0	2.450	0.033	43.3	**35.8**
60.0	0.826	4	29.5	22.0	0.01332	23.0	12.5	1.768	0.024	38.3	**31.7**
60.0	0.826	8	27.0	22.0	0.01332	20.5	12.9	1.270	0.017	34.2	**28.2**
60.0	0.826	15	25.5	22.0	0.01332	19.0	13.2	0.937	0.012	31.7	**26.2**
60.0	0.826	30	23.0	22.0	0.01332	16.5	13.6	0.673	0.009	27.5	**22.7**
60.0	0.826	60	21.5	22.0	0.01332	15.0	13.8	0.480	0.006	25.0	**20.7**
60.0	0.826	120	19.5	22.0	0.01332	13.0	14.2	0.343	0.005	21.7	**17.9**
60.0	0.826	240	17.5	22.0	0.01332	11.0	14.5	0.246	0.003	18.3	**15.1**
60.0	0.826	480	16.0	20.0	0.01365	9.0	14.8	0.176	0.002	15.0	**12.4**
60.0	0.826	1440	14.0	21.0	0.01348	7.5	15.1	0.102	0.001	12.5	**10.3**

Hydrometer #: 794968	Graduate #: 1	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NO.1120



A2-29

GeoNorth Engineering Ltd. 1301 Kelleher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 ATTERBERG LIMITS OF R-S6-ZS-06/08	SCALE: N.T.S.	DATE: 2008/08/26
		PROJECT NO: K-2585	PLATE NO. 2585-C13

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC -558
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

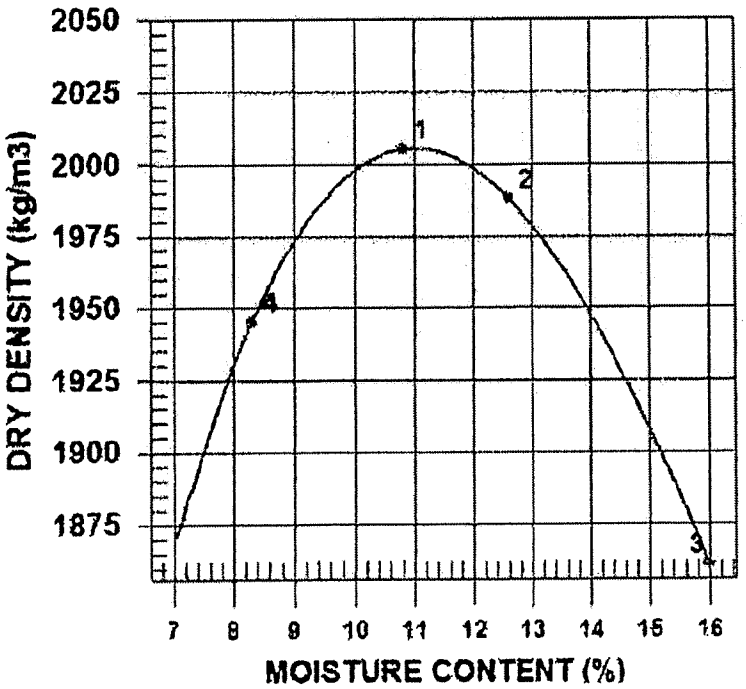
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

PROCTOR NO. 13 DATE TESTED 2008.Aug.22 DATE RECEIVED 2008.Aug.20 DATE SAMPLED 2008.Aug.15

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY DJ
SUPPLIER
SOURCE R-S6-ZS-06/08
MATERIAL IDENTIFICATION
MAJOR COMPONENT TILL
SIZE 25MM
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor, ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold, Passing 4.75mm
RAMMER TYPE Automatic
PREPARATION Moist
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 13.0 %
OVERSIZE SPECIFIC GRAVITY 2.67
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2221	2005	10.8
2	2239	1988	12.6
3	2159	1861	16.0
4	2106	1945	8.3

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2010	11.0
OVERSIZE CORRECTED	2080	9.5

COMMENTS
SPECIFIC GRAVITY (COARSE) - 2.675

SPECIFIC GRAVITY (FINES) - 2.685

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

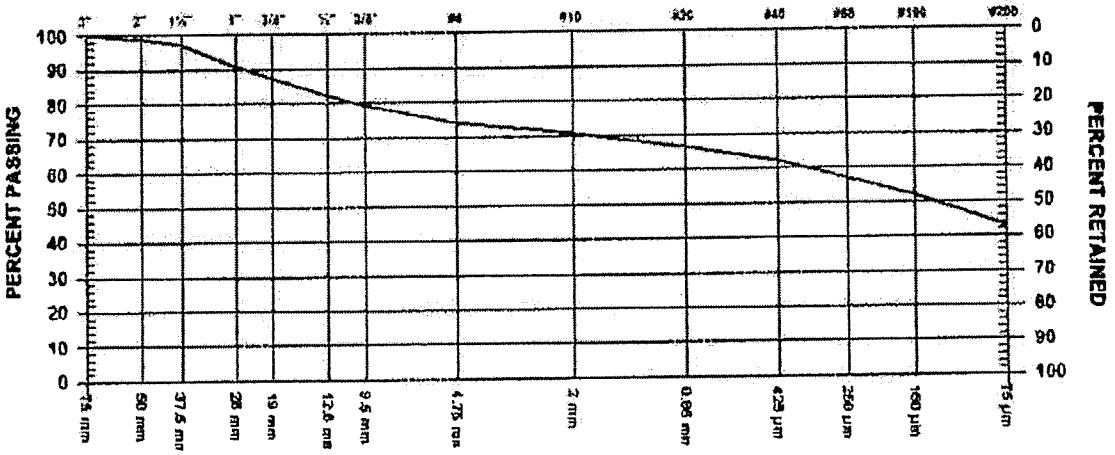
PROJECT Mount Polley Construction Program
Stage 6
CONTRACTOR

Mount Polley Mine
Likely

SIEVE TEST NO. 5 DATE RECEIVED 2008.Jun.05 DATE TESTED 2008.Jun.09 DATE SAMPLED 2008.Jun.01

SUPPLIER ZONE S
SOURCE R-S6-ZS-07/08
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



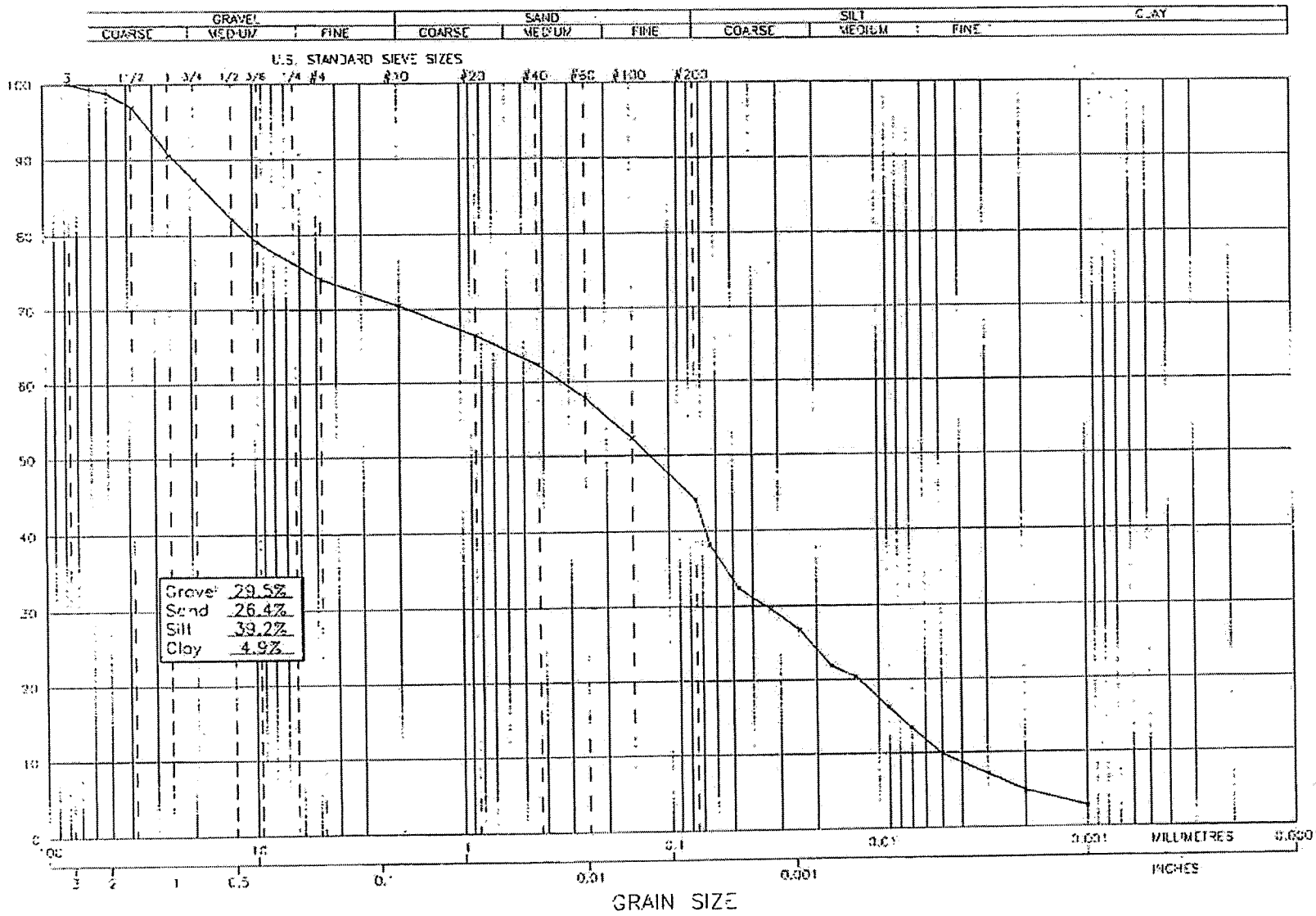
GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	100.0	
2"	50 mm	98.8	
1 1/2"	37.5 mm	96.9	
1"	25 mm	90.6	
3/4"	19 mm	87.3	
1/2"	12.5 mm	82.1	
3/8"	9.5 mm	79.0	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	74.1	
No. 10	2.00 mm	70.5	
No. 20	850 µm	66.4	
No. 40	425 µm	62.1	
No. 60	250 µm	57.1	
No. 100	150 µm	51.8	
No. 200	75 µm	43.1	

MOISTURE CONTENT 10.7%

COMMENTS
MAIN EMBANKMENT 2+700 AT 951.9

PER.



A2-32

GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 GRAIN SIZE ANALYSIS OF C-S6-ZS-07/08	SCALE: N.T.S.	DATE: 2008/06/12
		PROJECT NO: K-2585	PLATE NO. 2585-35

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. Attn: Knight Piesold				Date: June 12, 2008
Project Name: Mount Polley Construction Program - Stage 6				**Project #: K-2585**
Source/Location: Zone S - R-S6-ZS-07/08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 06.01.08	Date Received: 06.05.08			Date Tested: 06.10.08

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	1092.7
Dry Wt. & Tare	1004.5
Water Wt.	88.2
Tare Wt.	181.4
Wt. Of Dry Soil	823.1
Moisture Content %	**10.7**
Dry Wt. Of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture)	

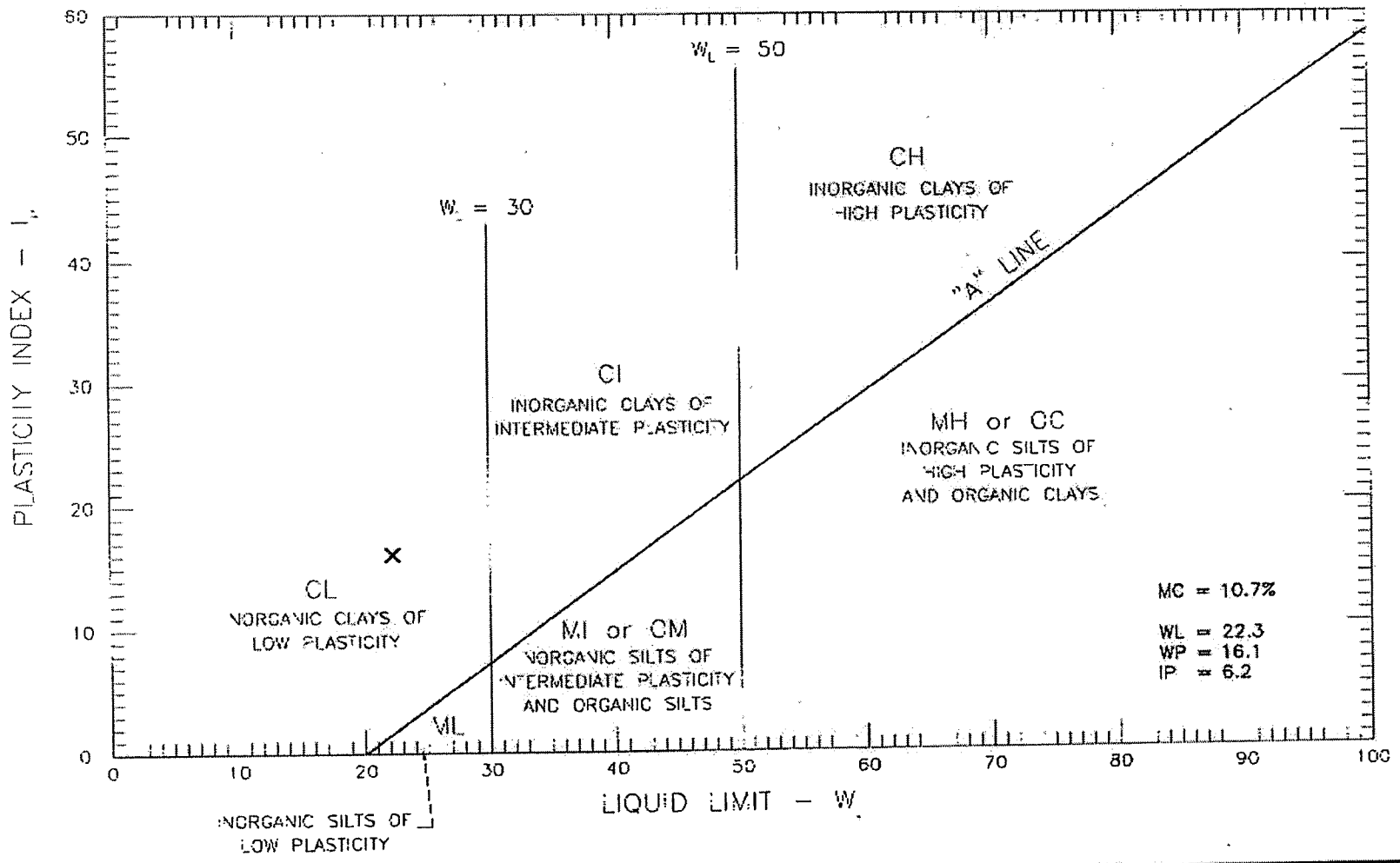
Sieve Analysis			
Sieve No.	**Weight Retained**	**Total Wt. Passing**	**% Finer Than Orig. Samp.**
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	**SEE WASHED SIEVE**		
Total			

Hydrometer Sieve Analysis				
Sieve No.	**Weight Retained**	**Total Wt. Finer Than**	**% Finer Than**	**% Finer Than Orig Samp.**
10		50.0	100.0	**70.5**
20	2.8	47.2	94.4	**66.5**
40	2.9	44.3	88.6	**62.4**
60	3.3	41.0	82.0	**57.8**
100	3.9	37.1	74.2	**52.3**
200	5.8	31.3	62.6	**44.1**
Pan	31.3			
Total	50.0			
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	0.705	0.5	33.0	23.0	0.01317	27.0	11.8	4.866	0.064	54.0	**38.1**
50.0	0.705	1	29.0	23.0	0.01317	23.0	12.5	3.536	0.047	46.0	**32.4**
50.0	0.705	2	27.0	23.0	0.01317	21.0	12.8	2.533	0.033	42.0	**29.6**
50.0	0.705	4	25.0	23.0	0.01317	19.0	13.2	1.814	0.024	38.0	**26.8**
50.0	0.705	8	22.0	22.0	0.01332	15.5	13.7	1.310	0.017	31.0	**21.9**
50.0	0.705	15	21.0	22.0	0.01332	14.5	13.9	0.963	0.013	29.0	**20.4**
50.0	0.705	30	18.0	22.0	0.01332	11.5	14.4	0.693	0.009	23.0	**16.2**
50.0	0.705	60	16.0	22.0	0.01332	9.5	14.7	0.495	0.007	19.0	**13.4**
50.0	0.705	120	13.5	22.0	0.01332	7.0	15.1	0.355	0.005	14.0	**9.9**
50.0	0.705	240	11.5	22.0	0.01332	5.0	15.5	0.254	0.003	10.0	**7.1**
50.0	0.705	480	10.0	22.0	0.01332	3.5	15.7	0.181	0.002	7.0	**4.9**
50.0	0.705	1440	8.5	22.0	0.01332	2.0	16.0	0.105	0.001	4.0	**2.8**

Hydrometer #: 794968	Graduate #: 4	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

Norlco



A2-34

GeoNorth Engineering Ltd. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM - STAGE 6 ATTERBERG LIMITS OF R-S6-ZS-07/08	SCALE: N.T.S.	DATE: 2008/06/12
		PROJECT NO: K-2585	PLATE NO. 2585-C5

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George ; V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Marlel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

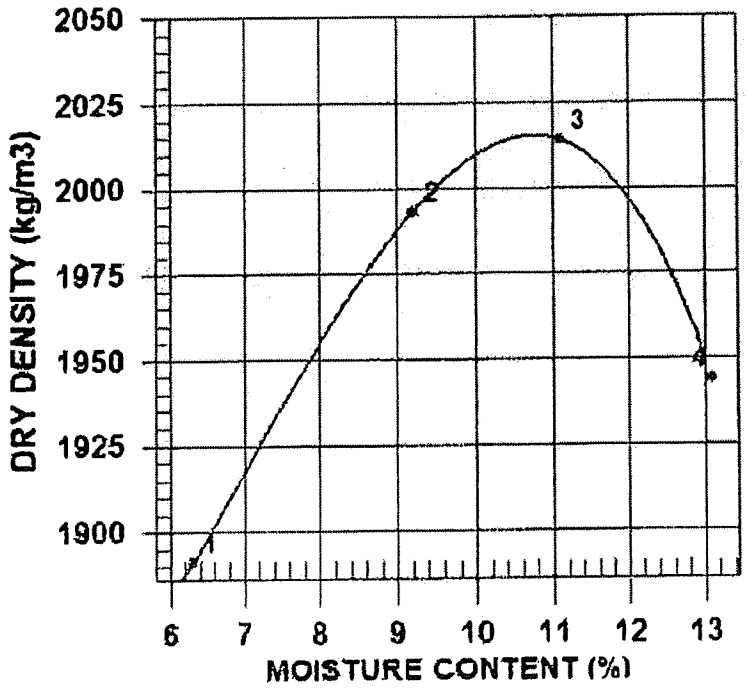
Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 5 DATE TESTED 2008.Jun.10 DATE RECEIVED 2008.Jun.05 DATE SAMPLED 2008.Jun.01

INSITU MOISTURE N/A %
SAMPLED BY Client
TESTED BY SR
SUPPLIER Zone S
SOURCE R-S6-ZS-07/08
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
RAMMER TYPE Automatic
PREPARATION Moist
OVERSIZE CORRECTION METHOD ASTM 4718
RETAINED 4.75mm SCREEN 25.9 %
OVERSIZE SPECIFIC GRAVITY 2.66
TOTAL NUMBER OF TRIALS 4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2010	1891	6.3
2	2176	1993	9.2
3	2237	2014	11.1
4	2199	1944	13.1

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2020	11.0
OVERSIZE CORRECTED	2150	8.5

COMMENTS
SPECIFIC GRAVITY = 2.663 (COARSE) MAIN EMBANKMENT 21700 AT 951.9m

SPECIFIC GRAVITY = 2.678 (FINE)

PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC _5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

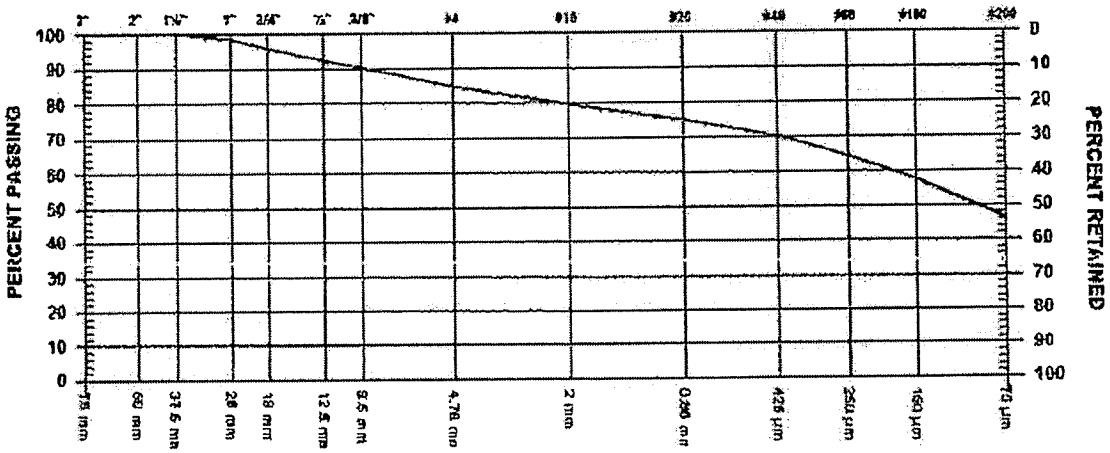
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 15 DATE RECEIVED 2008.Sep.05 DATE TESTED 2008.Sep.09 DATE SAMPLED 2008.Aug.26

SUPPLIER PE 4+550, 952.32
SOURCE R-S6-ZS-08/08
SPECIFICATION
MATERIAL TYPE TILL

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	100.0	
1"	25 mm	98.2	
3/4"	19 mm	95.6	
1/2"	12.5 mm	92.3	
3/8"	9.5 mm	90.1	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	84.6	
No. 10	2.00 mm	79.4	
No. 20	850 µm	75.0	
No. 40	425 µm	70.3	
No. 60	250 µm	64.3	
No. 100	150 µm	57.4	
No. 200	75 µm	46.5	

MOISTURE CONTENT 10.9%

COMMENTS

PER. _____

GeoNorth Engineering

Hydrometer Analysis

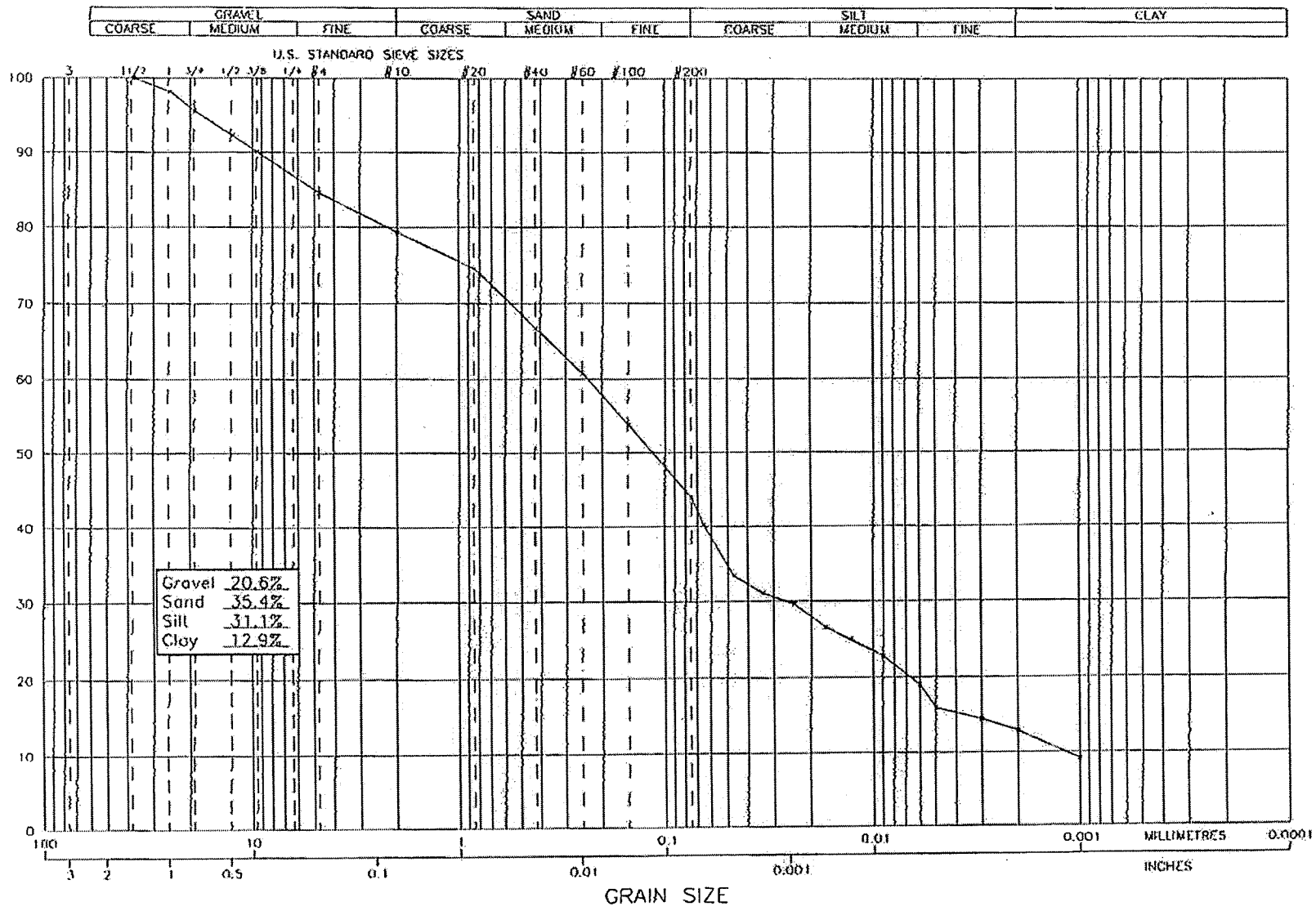
Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. / Knight Piesold				Date: Sept 13, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: PE 4+550, 952.32 R-S6-ZS-08/08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 08.26.08	Date Received: 09.05.08			Date Tested: 09.10.08

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		25.4				20	3.1	46.9	93.8	**74.6**
Dry Wt. & Tare		19.0				40	2.9	44.0	88.0	**66.8**
Water Wt.		12.5				60	3.9	40.1	80.2	**60.8**
Tare Wt.		9.5				100	4.6	35.5	71.0	**53.8**
Wt. Of Dry Soil		4.75				200	6.5	29.0	58.0	**44.0**
Moisture Content %	10.9	10	SEE WASHED SIEVE			Pan	29.0			
Dry Wt. Of Sample from Initial Moisture						Total	50.0			
=(100xWet Soil Wt.)/(100 + Initial Moisture)						Unwashed Wt.=				
		Total				Tare		Wt. Passing #200 =		

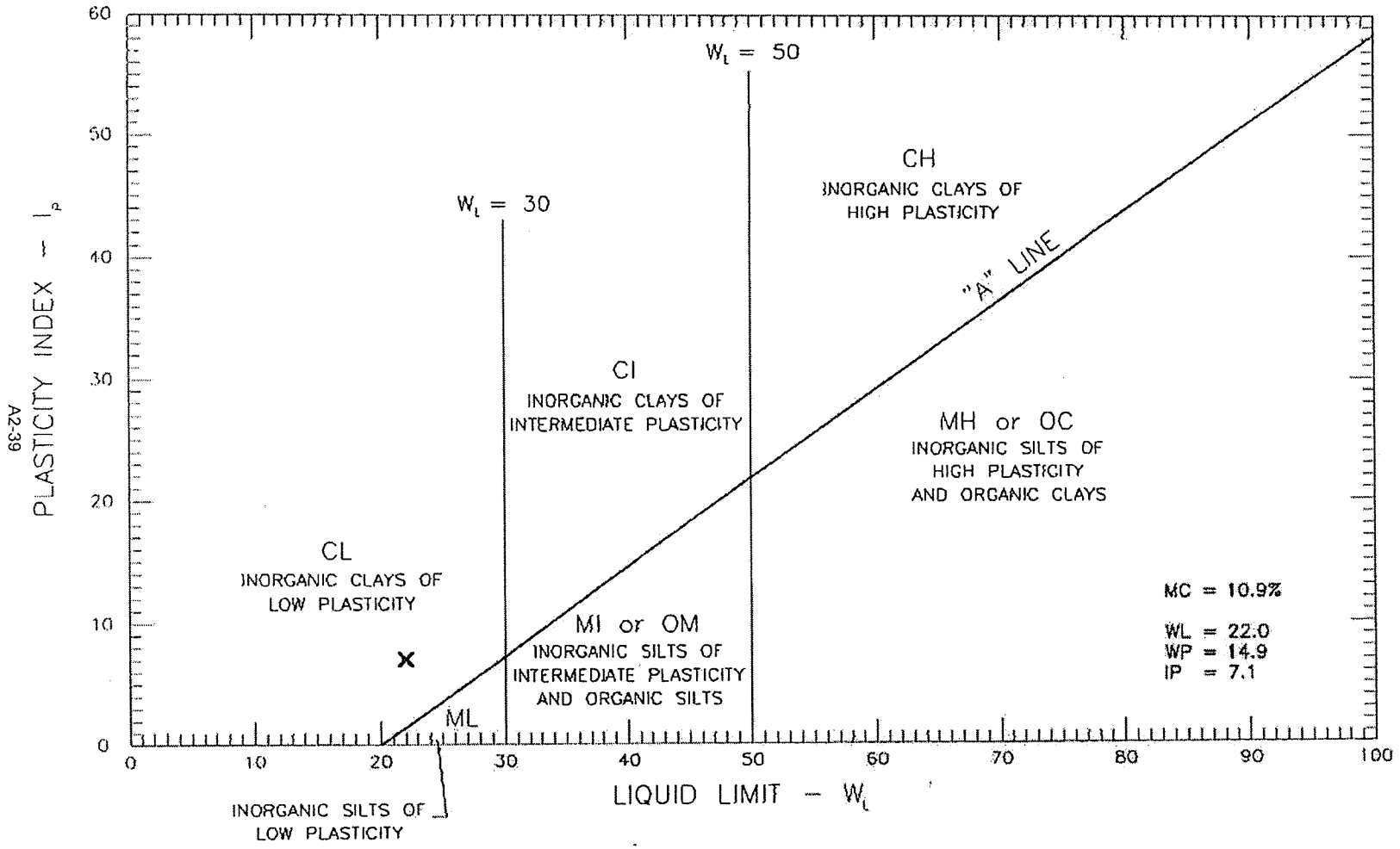
Starting Wt. (g)	**% - #10**	**Elapsed Time (min)**	**Reading R**	**Temp (0C)**	**K**	**Corr. Reading R'**	**Zr (cm)**	**SQRT(Zr)/T (min)**	**D (mm)**	**N (%)**	**N*(%-#10)**
50.0	0.759	0.5	33.0	22.0	0.01332	26.5	11.9	4.883	0.065	53.0	**40.2**
50.0	0.759	1	28.5	22.0	0.01332	22.0	12.7	3.559	0.047	44.0	**33.4**
50.0	0.759	2	27.0	22.0	0.01332	20.5	12.9	2.541	0.034	41.0	**31.1**
50.0	0.759	4	26.0	22.0	0.01332	19.5	13.1	1.808	0.024	39.0	**29.6**
50.0	0.759	8	24.0	22.0	0.01332	17.5	13.4	1.295	0.017	35.0	**26.6**
50.0	0.759	15	23.0	22.0	0.01332	16.5	13.6	0.951	0.013	33.0	**25.0**
50.0	0.759	30	21.5	22.0	0.01332	15.0	13.8	0.679	0.009	30.0	**22.8**
50.0	0.759	60	19.0	22.0	0.01332	12.5	14.2	0.487	0.006	25.0	**19.0**
50.0	0.759	120	17.0	22.0	0.01332	10.5	14.6	0.348	0.005	21.0	**15.9**
50.0	0.759	240	16.0	22.0	0.01332	9.5	14.7	0.248	0.003	19.0	**14.4**
50.0	0.759	480	15.0	22.0	0.01332	8.5	14.9	0.176	0.002	17.0	**12.9**
50.0	0.759	1440	12.5	22.0	0.01332	6.0	15.3	0.103	0.001	12.0	**9.1**

Hydrometer #: 794968	Graduate #: 1	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			



A2-38

GEONORTH ENGINEERING LTD. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 GRAIN SIZE ANALYSIS OF R-S6-ZS-08/08	SCALE: N.T.S.	DATE: 2008/09/15
		PROJECT NO: K-2585	PLATE NO. 2585-B15



GEONORTH ENGINEERING LTD. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 ATTERBERG LIMITS OF R-S6-ZS-08/08	SCALE: N.T.S.	DATE: 2008/09/15
		PROJECT NO: K-2585	PLATE NO. 2585-C15

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC ,5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

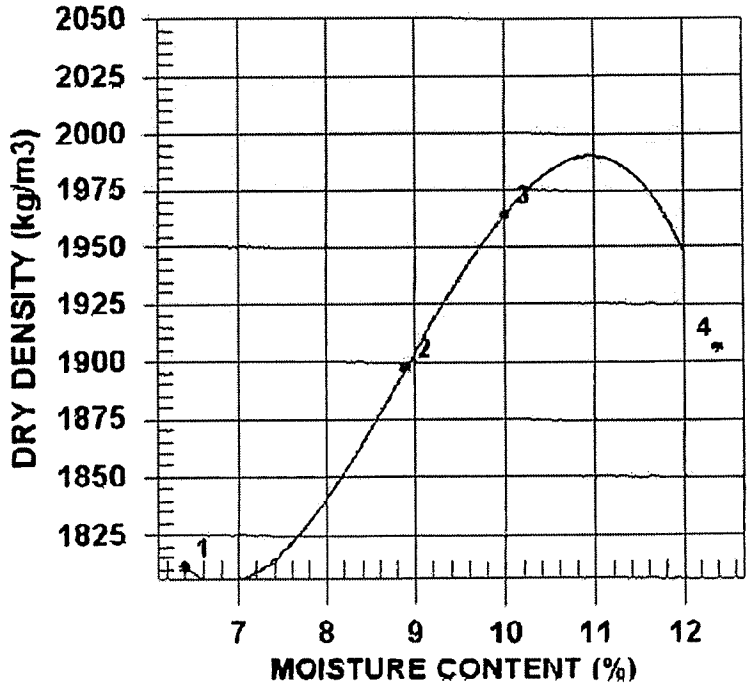
PROJECT Mount Polley Construction Program
Stage 6

Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 15 DATE TESTED 2008.Sep.10 DATE RECEIVED 2008.Sep.05 DATE SAMPLED 2008.Aug.26

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client		
TESTED BY	LT	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
SUPPLIER			
SOURCE	R-S6-ZS-08/08	RAMMER TYPE	Automatic
MATERIAL IDENTIFICATION		PREPARATION	Moist
MAJOR COMPONENT	TILL	OVERSIZE CORRECTION METHOD	ASTM 4718
SIZE		RETAINED 4.75mm SCREEN	15.0 %
DESCRIPTION		OVERSIZE SPECIFIC GRAVITY	2.67
ROCK TYPE		TOTAL NUMBER OF TRIALS	4



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1927	1811	6.4
2	2066	1897	8.9
3	2160	1964	10.0
4	2142	1906	12.4

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	1990	11.0
OVERSIZE CORRECTED	2070	9.5

COMMENTS
SPECIFIC GRAVITY (COARSE) = 2.665

SPECIFIC GRAVITY (FINES) = 2.647

PER.

GeoNorth Engineering
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

EVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

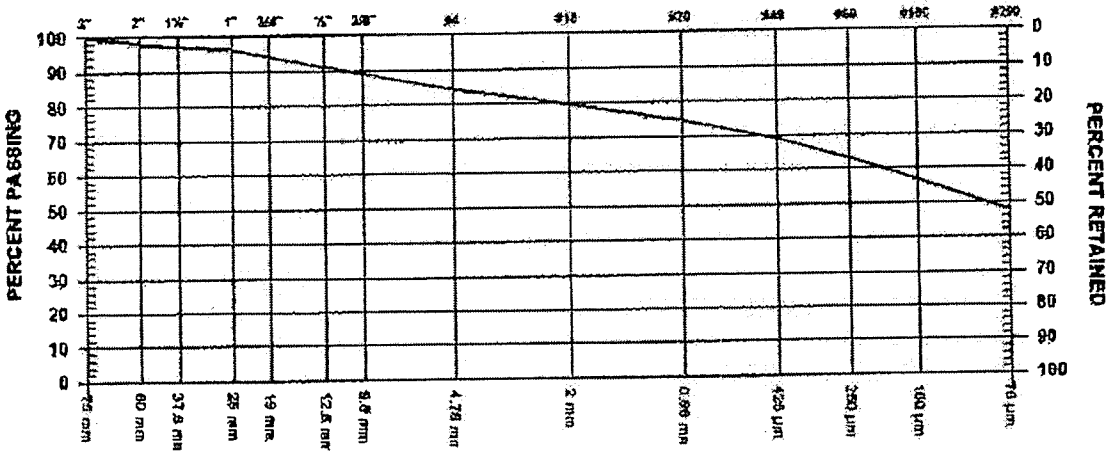
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 16 DATE RECEIVED 2008.Sep.22 DATE TESTED 2008.Sep.24 DATE SAMPLED 2008.Sep.17

SUPPLIER
SOURCE R-S6-ZS-09/08
SPECIFICATION
MATERIAL TYPE TILL

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



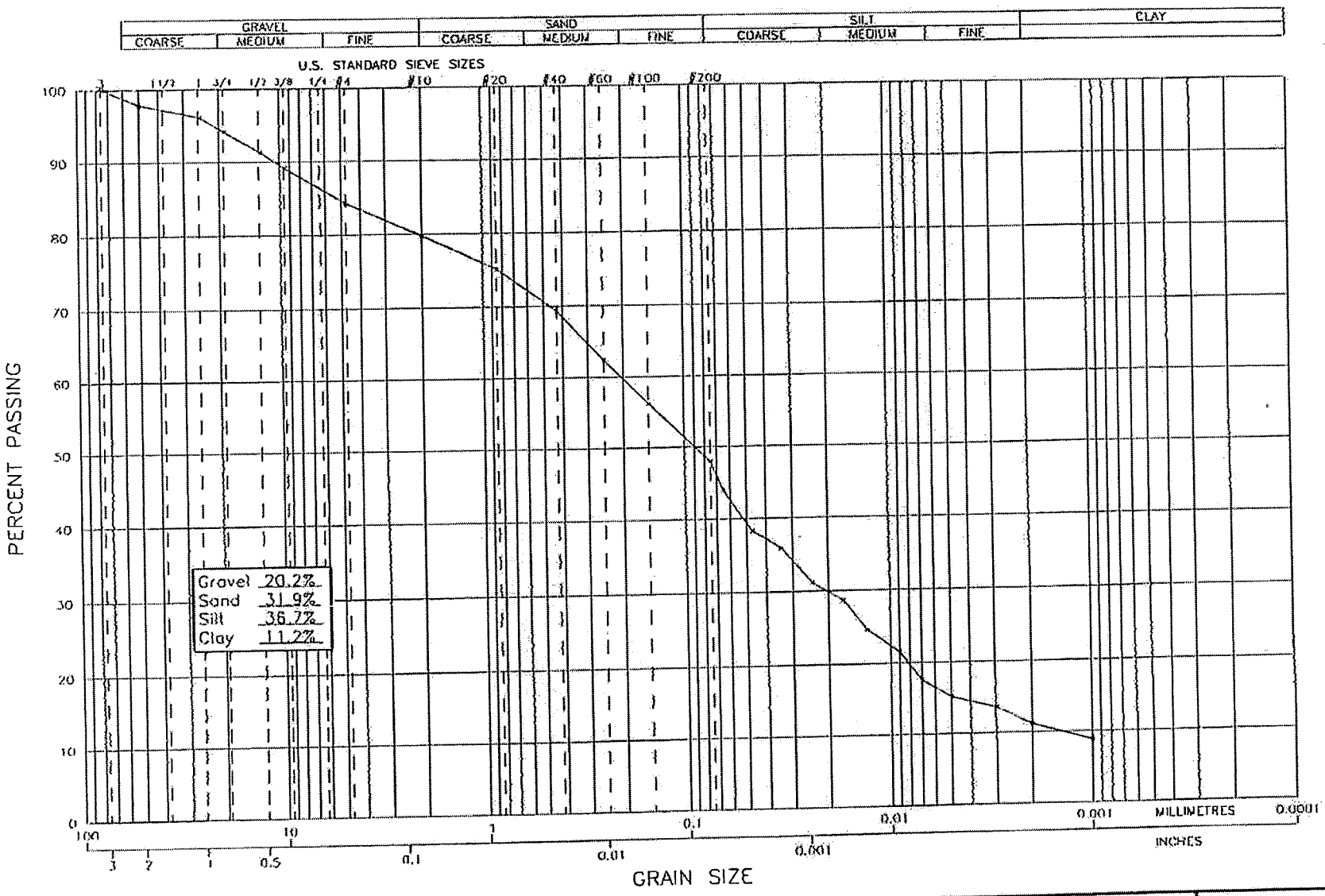
GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	100.0	
2"	50 mm	97.9	
1 1/2"	37.5 mm		
1"	25 mm	96.2	
3/4"	19 mm	94.3	
1/2"	12.5 mm	91.3	
3/8"	9.5 mm	89.1	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	84.3	
No. 10	2.00 mm	79.7	
No. 20	850 µm	74.7	
No. 40	425 µm	69.1	
No. 60	250 µm	62.8	
No. 100	150 µm	56.5	
No. 200	75 µm	47.8	

MOISTURE CONTENT 10.2%

COMMENTS
Location: SE, Chainage: 12+00, Elevation: 952.7m, Offset: c/l

PER.



A2-42

GEONORTH ENGINEERING LTD. 1301 Kelliher Road Prince George, B.C. V2L 5S8 Tel. (250) 564-4304 Fax (250) 564-9323	MT. POLLEY MINING CORPORATION ATTN: KNIGHT PIESOLD CONSULTING MOUNT POLLEY CONSTRUCTION PROGRAM STAGE 6 GRAIN SIZE ANALYSIS OF R-S6-ZS-09/08	SCALE: N.T.S.	DATE: 2008/09/29
		PROJECT NO: K-2585	PLATE NO. 2585-B16

GeoNorth Engineering

Hydrometer Analysis

Test Designation: ASTM D-422

Client: Mount Polley Mining Corp. / Knight Piesold				Date: Sept 29, 2008
Project Name: MPCP - Stage 6				**Project #: K-2585**
Source/Location: R-S6-ZS-09/08				Type: TILL
Sample #:	Test #:	**Hole #:**	**Depth:**	Time:
Sampled By: Client	Tested By: DJ			Checked By: NK
Date Sampled: 09.17.08	Date Received: 09.22.08			Date Tested: 09.24.08

Initial Moisture Content	
Tare No.	
Wet Wt. & Tare	1091.3
Dry Wt. & Tare	1006.9
Water Wt.	84.4
Tare Wt.	179.8
Wt. Of Dry Soil	827.1
Moisture Content %	**10.2**
Dry Wt. Of Sample from Initial Moisture	
=(100xWet Soil Wt.)/(100 + Initial Moisture)	

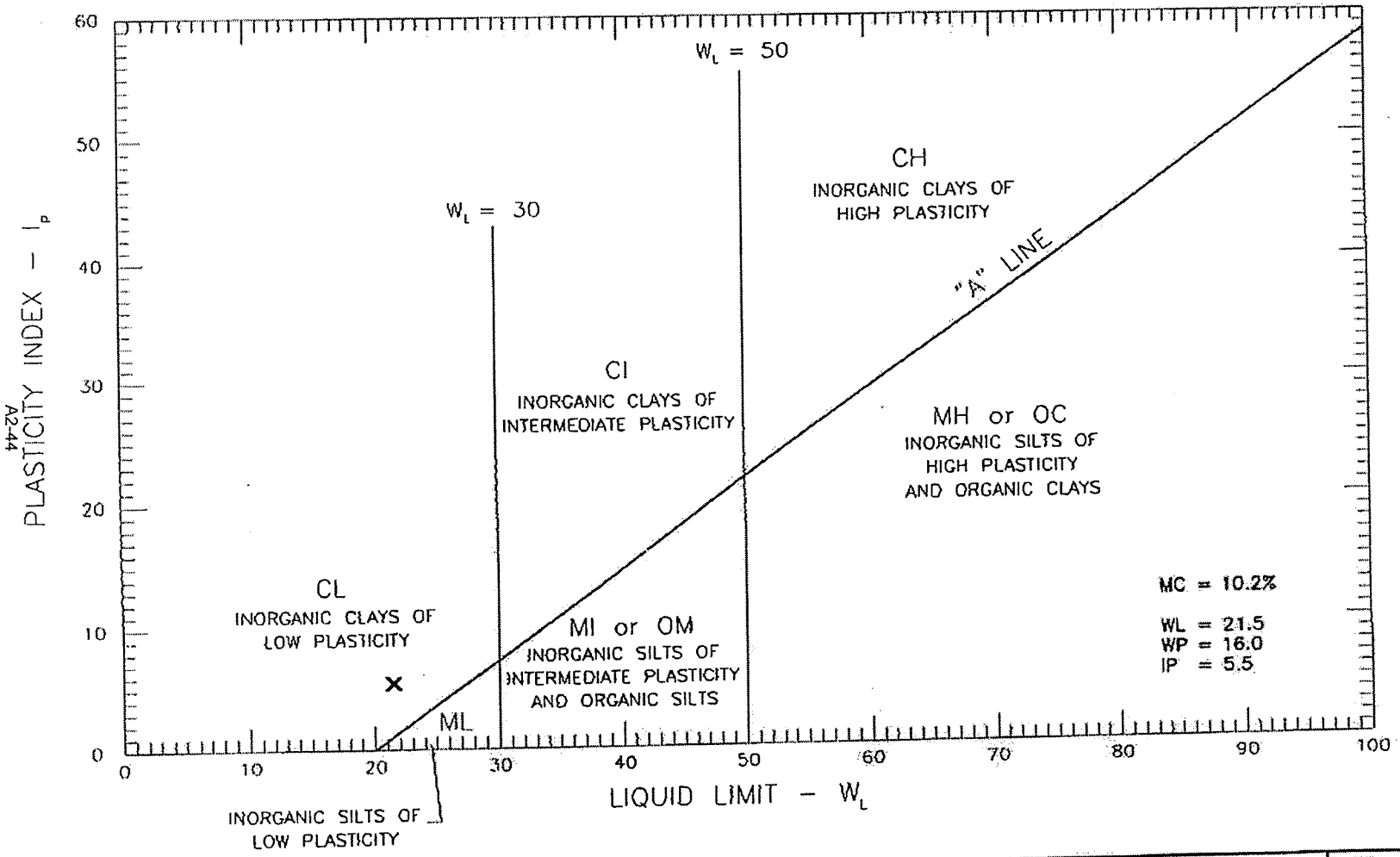
Sieve Analysis			
Sieve No.	**Weight Retained**	**Total Wt. Passing**	**% Finer Than Orig. Samp.**
38.1			
25.4			
19.0			
12.5			
9.5			
4.75			
10	**SEE WASHED SIEVE**		
Total			

Hydrometer Sieve Analysis				
Sieve No.	**Weight Retained**	**Total Wt. Finer Than**	**% Finer Than**	**% Finer Than Orig Samp.**
10		50.0	100.0	**79.8**
20	2.9	47.1	94.2	**75.2**
40	3.7	43.4	86.8	**69.3**
60	4.3	39.1	78.2	**62.4**
100	3.9	35.2	70.4	**56.2**
200	5.2	30.0	60.0	**47.9**
Pan	30.0			
Total	50.0			
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	0.798	0.5	34.0	21.0	0.01348	27.5	11.8	4.849	0.065	55.0	**43.9**
50.0	0.798	1	30.5	21.0	0.01348	24.0	12.3	3.512	0.047	48.0	**38.3**
50.0	0.798	2	29.0	21.0	0.01348	22.5	12.6	2.508	0.034	45.0	**35.9**
50.0	0.798	4	26.0	21.0	0.01348	19.5	13.1	1.808	0.024	39.0	**31.1**
50.0	0.798	8	24.5	21.0	0.01348	18.0	13.3	1.291	0.017	36.0	**28.7**
50.0	0.798	15	22.0	21.0	0.01348	15.5	13.7	0.957	0.013	31.0	**24.7**
50.0	0.798	30	20.0	21.0	0.01348	13.5	14.1	0.685	0.009	27.0	**21.5**
50.0	0.798	60	17.5	21.0	0.01348	11.0	14.5	0.491	0.007	22.0	**17.6**
50.0	0.798	120	16.0	21.0	0.01348	9.5	14.7	0.350	0.005	19.0	**15.2**
50.0	0.798	240	15.0	21.0	0.01348	8.5	14.9	0.249	0.003	17.0	**13.6**
50.0	0.798	480	13.5	21.0	0.01348	7.0	15.1	0.178	0.002	14.0	**11.2**
50.0	0.798	1440	12.0	21.0	0.01348	5.5	15.4	0.103	0.001	11.0	**8.8**

Hydrometer #: 794968	Graduate #: 1	Dispersing Agent: Sodium Hex	Amount: 125ml
Density of Solids:			
Description of Sample:			

NOELOO



GeoNorth Engineering Ltd.
1301 Kelliher Road
Prince George, B.C. V2L 5S8
Tel. (250) 564-4304 Fax (250) 564-9323

MT. POLLEY MINING CORPORATION
ATTN: KNIGHT PIESOLD CONSULTING
MOUNT POLLEY CONSTRUCTION PROGRAM
STAGE 6
ATTERBERG LIMITS OF R-S6-ZS-09/08

SCALE:	DATE:
N.T.S.	2008/09/29
PROJECT NO:	PLATE NO.
K-2585	2585-C16

GeoNorth Engineering [ ].
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

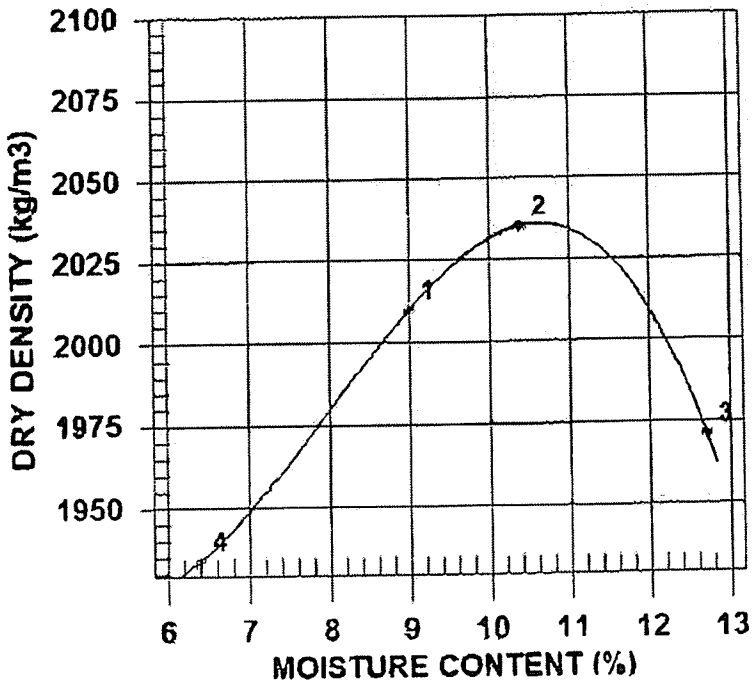
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely

CONTRACTOR

PROCTOR NO. 16 DATE TESTED 2008.Sep.24 DATE RECEIVED 2008.Sep.22 DATE SAMPLED 2008.Sep.17

INSITU MOISTURE	N/A %	COMPACTION STANDARD	Standard Proctor, ASTM D698
SAMPLED BY	Client	COMPACTION PROCEDURE	A: 101.6mm Mold, Passing 4.75mm
TESTED BY	DJ	RAMMER TYPE	Automatic
SUPPLIER		PREPARATION	Moist
SOURCE	R-S6-ZS-09/08	OVERSIZE CORRECTION METHOD	ASTM 4718
MATERIAL IDENTIFICATION		RETAINED 4.75mm SCREEN	15.0 %
MAJOR COMPONENT	TILL	OVERSIZE SPECIFIC GRAVITY	2.67
SIZE	50MM	TOTAL NUMBER OF TRIALS	4
DESCRIPTION			
ROCK TYPE			



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	2191	2010	9.0
2	2247	2035	10.4
3	2221	1971	12.7
4	2058	1934	6.4

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED	2040	10.5
OVERSIZE CORRECTED	2120	9.0

COMMENTS
SPECIFIC GRAVITY (COARSE) = 2.672

SPECIFIC GRAVITY (FINES) = 2.681

PER.

Knight Piésold
CONSULTING

APPENDIX A3

ZONE U RECORD

(Pages A3-1 to A3-4)

GeoNorth Engineering
1301 Kelliher Road Prince George, BC 5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

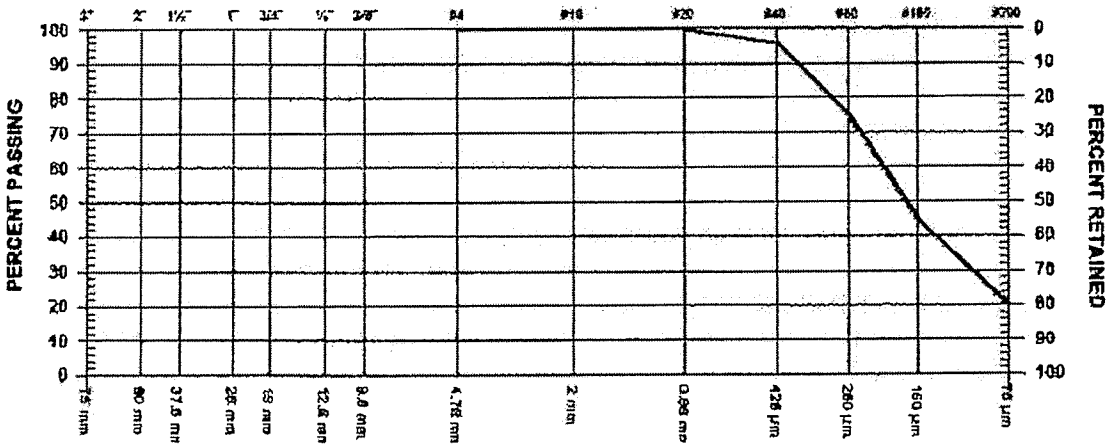
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 35 DATE RECEIVED 2008.Oct.03 DATE TESTED 2008.Oct.08 DATE SAMPLED 2008.Sep.27

SUPPLIER
SOURCE R-S6-ZU-02/08
SPECIFICATION
MATERIAL TYPE Zone U Sand Cell

SAMPLED BY CLIENT
TESTED BY EM
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		
1/2"	12.5 mm		
3/8"	9.5 mm	100.0	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	99.9	
No. 10	2.00 mm	99.8	
No. 20	850 µm	99.6	
No. 40	425 µm	96.0	
No. 60	250 µm	75.3	
No. 100	150 µm	44.6	
No. 200	75 µm	20.1	

MOISTURE CONTENT 8.5%

COMMENTS
LOCATION: SE ZONE U, CHAINAGE: 07+00m, ELEVATION: 951.9m

PER

GeoNorth Engineering
1301 Kelliher Road Prince George, BC -5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

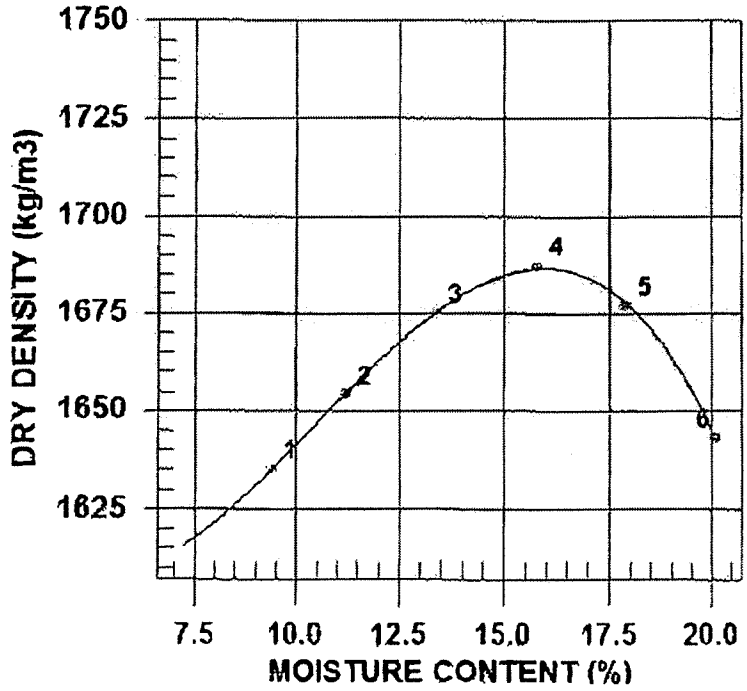
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

PROCTOR NO. 17 DATE TESTED 2008.Oct.08 DATE RECEIVED 2008.Oct.03 DATE SAMPLED 2008.Sep.27

INSITU MOISTURE N/A %
SAMPLED BY CLIENT
TESTED BY LT
SUPPLIER ZONE U SAND CELL
SOURCE R-S6-ZU-02/08
MATERIAL IDENTIFICATION
MAJOR COMPONENT SAND
SIZE
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor, ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold, Passing 4.75mm
RAMMER TYPE Automatic
PREPARATION Moist
OVERSIZE CORRECTION METHOD None
RETAINED 4.75mm SCREEN %
OVERSIZE SPECIFIC GRAVITY
TOTAL NUMBER OF TRIALS 6



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1789	1635	9.4
2	1839	1654	11.2
3	1899	1675	13.4
4	1953	1687	15.8
5	1977	1677	17.9
6	1973	1643	20.1

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED OVERSIZE CORRECTED	1690	16.0

COMMENTS
LOCATION: SE ZONE U, CHAINAGE: 07+00m, ELEVATION: 951.9m

PER.

1301 Kelliher Road Prince George, BC V2K 5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS
10 20 40 60 SERIES

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

ATTN: Ron Martel @ 250-790-2268

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

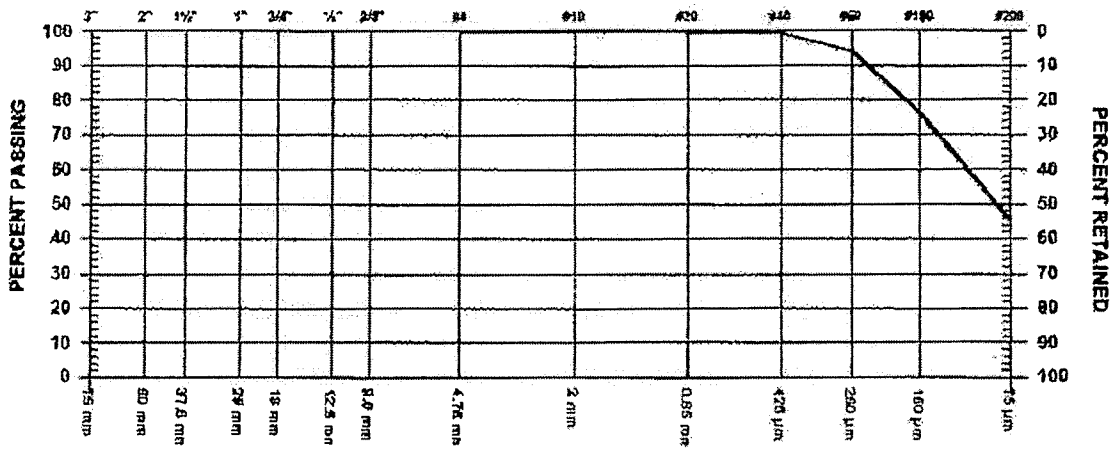
PROJECT Mount Polley Construction Program
Stage 6
CONTRACTOR

Mount Polley Mine
Likely

SIEVE TEST NO. 36 DATE RECEIVED 2008.Oct.03 DATE TESTED 2008.Oct.08 DATE SAMPLED 2008.Sep.27

SUPPLIER
SOURCE R-S6-ZU-03/08
SPECIFICATION
MATERIAL TYPE Zone U Sand Cell

SAMPLED BY CLIENT
TESTED BY EM
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		
1/2"	12.5 mm		
3/8"	9.5 mm	100.0	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	99.9	
No. 10	2.00 mm	99.8	
No. 20	850 µm	99.7	
No. 40	425 µm	99.3	
No. 60	250 µm	94.0	
No. 100	150 µm	76.2	
No. 200	75 µm	45.3	

MOISTURE CONTENT 7.7%

COMMENTS
LOCATION: PE ZONE U, CHAINAGE: 42+50m, ELEVATION: 951.9m

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC .5S8
Phone (250)564-4304; fax (250)564-9323

MOISTURE - DENSITY RELATIONSHIP REPORT

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

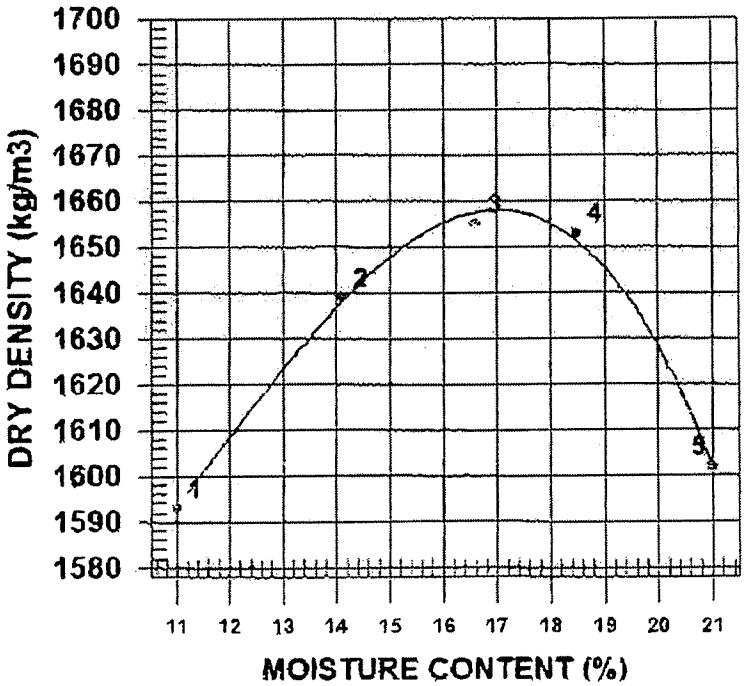
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

PROCTOR NO. 18 DATE TESTED 2008.Oct.08 DATE RECEIVED 2008.Oct.03 DATE SAMPLED 2008.Sep.27

INSITU MOISTURE N/A %
SAMPLED BY CLIENT
TESTED BY LT
SUPPLIER ZONE U SAND CELL
SOURCE R-S6-ZU-03/08
MATERIAL IDENTIFICATION
MAJOR COMPONENT SAND
SIZE
DESCRIPTION
ROCK TYPE

COMPACTION STANDARD Standard Proctor, ASTM D698
COMPACTION PROCEDURE A: 101.6mm Mold, Passing 4.75mm
RAMMER TYPE Automatic
PREPARATION Moist
OVERSIZE CORRECTION METHOD None
RETAINED 4.75mm SCREEN %
OVERSIZE SPECIFIC GRAVITY
TOTAL NUMBER OF TRIALS 5



TRIAL NUMBER	WET DENSITY (kg/m3)	DRY DENSITY (kg/m3)	MOISTURE CONTENT (%)
1	1768	1593	11.0
2	1870	1639	14.1
3	1930	1655	16.6
4	1959	1653	18.5
5	1939	1602	21.0

	MAXIMUM DRY DENSITY (kg/m3)	OPTIMUM MOISTURE CONTENT (%)
CALCULATED OVERSIZE CORRECTED	1660	17.0

COMMENTS
LOCATION: PE ZONE U, CHAINAGE: 42+50m, ELEVATION: 951.9m

Knight Piésold
CONSULTING

APPENDIX A4

ZONE F RECORD

(Pages A4-1 to A4-16)

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

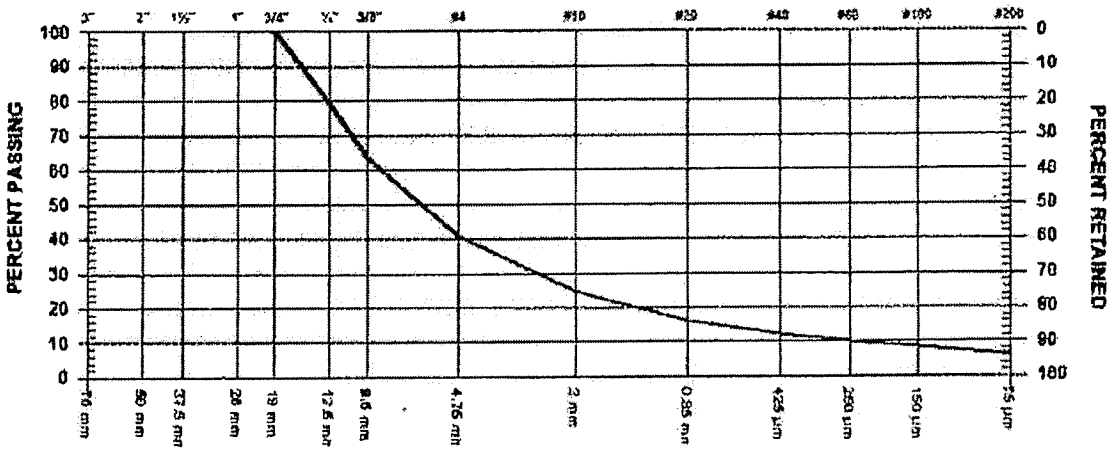
PROJECT Mount Polley Construction Program
Stage 6
CONTRACTOR

Mount Polley Mine
Likely

SIEVE TEST NO. 23 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Sep.30 DATE SAMPLED 2008.Sep.23

SUPPLIER
SOURCE R-S6-XF-29/08
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		
3/4"	19 mm	100.0	
1/2"	12.5 mm	79.3	
3/8"	9.5 mm	63.5	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	40.9	
No. 10	2.00 mm	24.8	
No. 20	850 µm	16.3	
No. 40	425 µm	12.3	
No. 60	250 µm	10.0	
No. 100	150 µm	8.4	
No. 200	75 µm	6.6	

COMMENTS
LOCATION: ME, CHAINAGE: 21+00, ELEVATION: 953.0

 2008.Oct.07 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564 [illegible]3

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

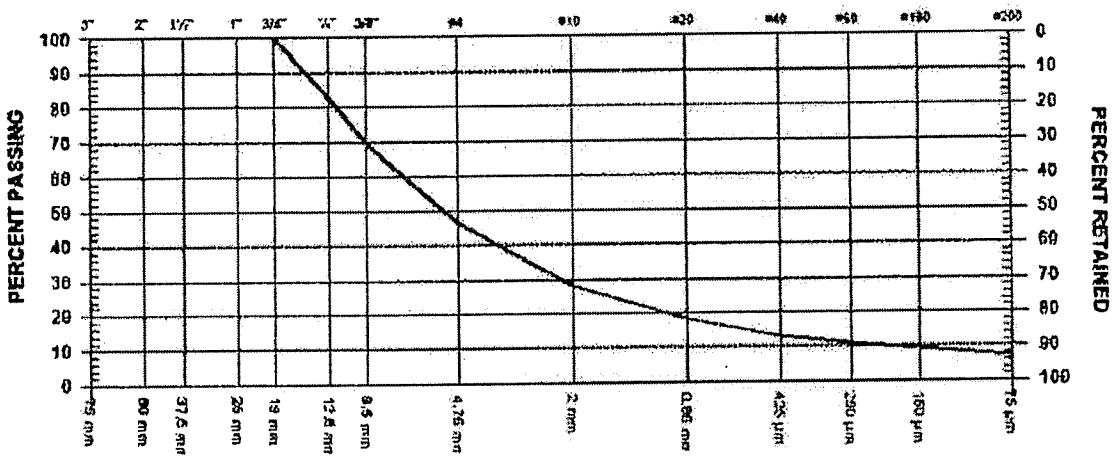
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 24 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Sep.30 DATE SAMPLED 2008.Sep.23

SUPPLIER
SOURCE R-S6-ZF-30/08
SPECIFICATION
MATERIAL TYPE Filler

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	82.5	
3/8"	9.5 mm	69.5	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	46.4	
No. 10	2.00 mm	28.1	
No. 20	850 µm	18.1	
No. 40	425 µm	13.4	
No. 60	250 µm	11.0	
No. 100	150 µm	9.4	
No. 200	75 µm	7.4	

COMMENTS
LOCATION: ME, CHAINAGE: 22+50, ELEVATION: 953.0

PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564 3

SIEVE ANALYSIS
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

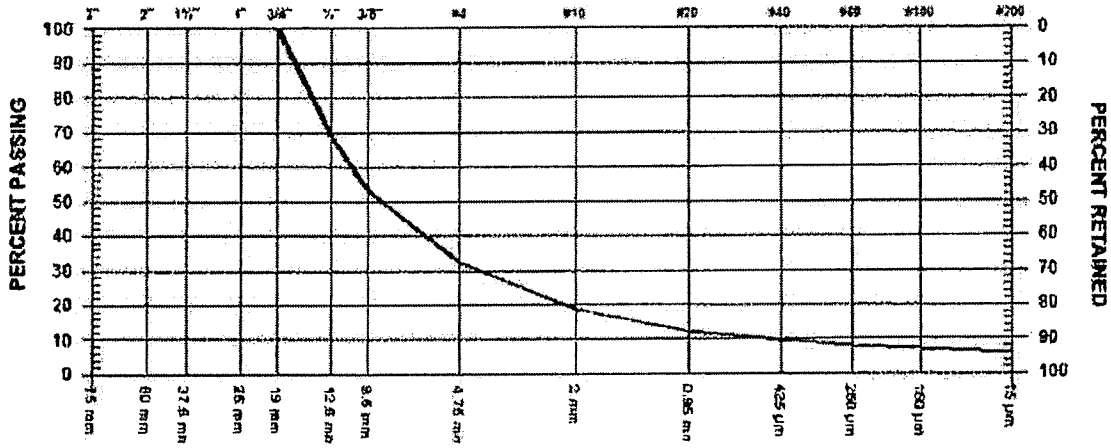
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 25 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Oct.01 DATE SAMPLED 2008.Sep.23

SUPPLIER
SOURCE R-S6-ZF-31/08
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		
3/4"	19 mm	100.0	
1/2"	12.5 mm	68.9	
3/8"	9.5 mm	53.2	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	32.5	
No. 10	2.00 mm	18.8	
No. 20	850 µm	12.5	
No. 40	425 µm	9.8	
No. 60	250 µm	8.3	
No. 100	150 µm	7.2	
No. 200	75 µm	5.8	

COMMENTS
LOCATION: MH, CHAINAGE: 23+50, ELEVATION: 953.0

PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

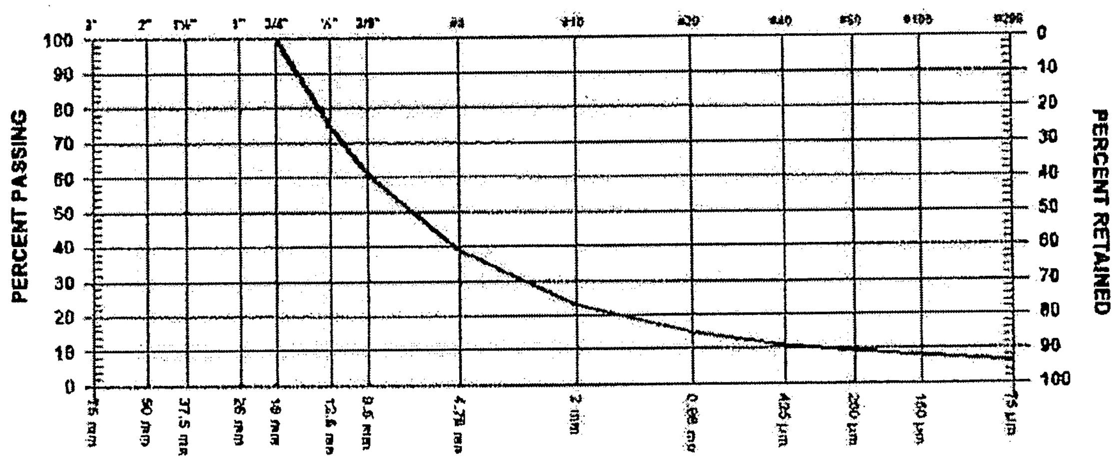
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program Stage 6 — Mount Polley Mine, Likely
CONTRACTOR

SIEVE TEST NO. 26 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Oct.01 DATE SAMPLED 2008.Sep.23

SUPPLIER
SOURCE R-S6-ZF-32/08
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		
3/4"	19	mm	100.0	
1/2"	12.5	mm	74.5	
3/8"	9.5	mm	60.9	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	38.9	
No. 10	2.00	mm	22.8	
No. 20	850	µm	14.7	
No. 40	425	µm	11.1	
No. 60	250	µm	9.2	
No. 100	150	µm	7.9	
No. 200	75	µm	6.2	

COMMENTS
LOCATION: ME, CHAINAGE: 24+50, ELEVATION: 954.0

Page 1 of 1 2008.Oct.07 GeoNorth Engineering Ltd. PER. [signature]

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1301 Kelliher Road Prince George, BC V2L5S8
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SIEVE ANALYSIS
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L 1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

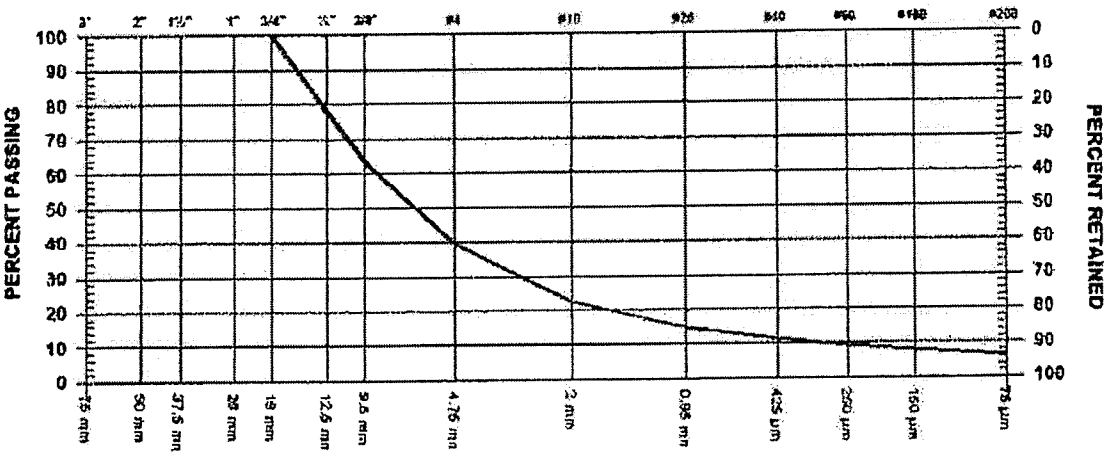
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 27 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Oct.01 DATE SAMPLED 2008.Sep.24

SUPPLIER
SOURCE R-S6-ZF-33/08
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		
3/4"	19 mm	100.0	
1/2"	12.5 mm	77.9	
3/8"	9.5 mm	63.3	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	39.6	
No. 10	2.00 mm	22.6	
No. 20	850 µm	15.0	
No. 40	425 µm	11.5	
No. 60	250 µm	9.5	
No. 100	150 µm	8.1	
No. 200	75 µm	6.4	

COMMENTS
LOCATION: ME, CHAINAGE: 26+00, ELEVATION: 954.0

PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564 3

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

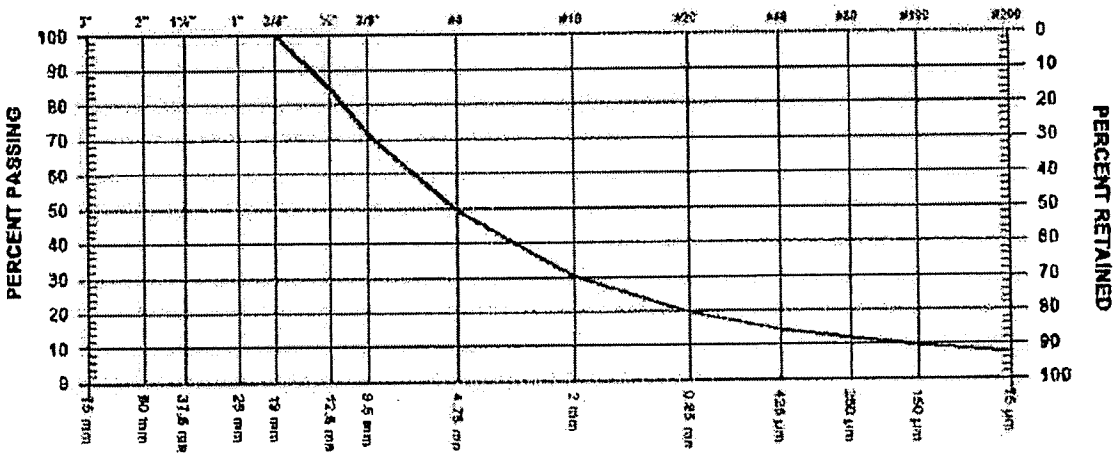
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 28 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Oct.01 DATE SAMPLED 2008.Sep.24

SUPPLIER
SOURCE R-S6-ZF-34/08
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		
3/4"	19 mm	100.0	
1/2"	12.5 mm	84.9	
3/8"	9.5 mm	71.7	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	49.3	
No. 10	2.00 mm	30.2	
No. 20	850 µm	19.6	
No. 40	425 µm	14.5	
No. 60	250 µm	11.8	
No. 100	150 µm	9.9	
No. 200	75 µm	7.7	

COMMENTS
LOCATION: ME, CHAINAGE: 27+00, ELEVATION: 953.0

 2008.Oct.07 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC 5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

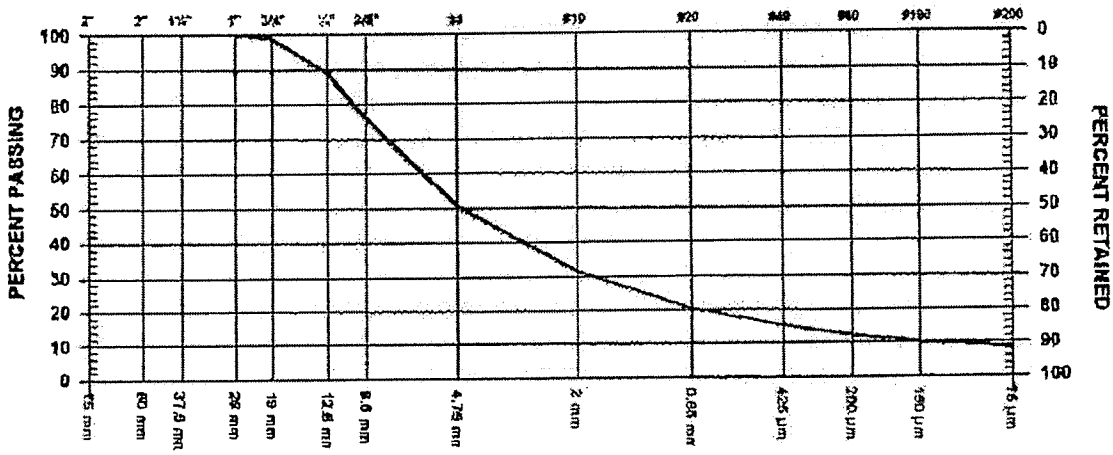
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 29 DATE RECEIVED 2008.Oct.03 DATE TESTED 2008.Oct.07 DATE SAMPLED 2008.Sep.26

SUPPLIER
SOURCE R-S6-ZF-35/08
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	98.7	
1/2"	12.5 mm	89.0	
3/8"	9.5 mm	75.6	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	50.6	
No. 10	2.00 mm	31.7	
No. 20	850 µm	20.5	
No. 40	425 µm	15.2	
No. 60	250 µm	12.2	
No. 100	150 µm	10.3	
No. 200	75 µm	8.5	

COMMENTS
LOCATION: 19+50m ME, CHAINAGE: 19+50m, ELEVATION 953.5m

PER. _____

1301 Kelliher Road Prince George, BC .5S8
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SIEVE ANALYSIS
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

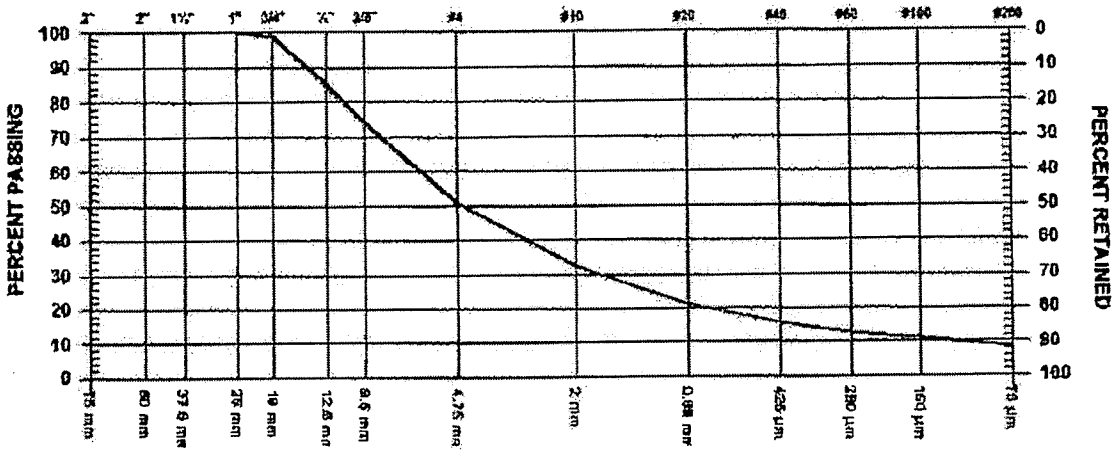
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 30 DATE RECEIVED 2008.Oct.03 DATE TESTED 2008.Oct.07 DATE SAMPLED 2008.Sep.26

SUPPLIER
SOURCE R-S6-ZF-36/08
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	98.6	
1/2"	12.5 mm	85.1	
3/8"	9.5 mm	73.9	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	50.8	
No. 10	2.00 mm	32.3	
No. 20	850 µm	21.3	
No. 40	425 µm	15.9	
No. 60	250 µm	12.9	
No. 100	150 µm	10.9	
No. 200	75 µm	8.7	

COMMENTS
LOCATION: ME, CHAINAGE: 18+00m, ELEVATION: 953.5

PER

1301 Kelliher Road Prince George, BC .5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

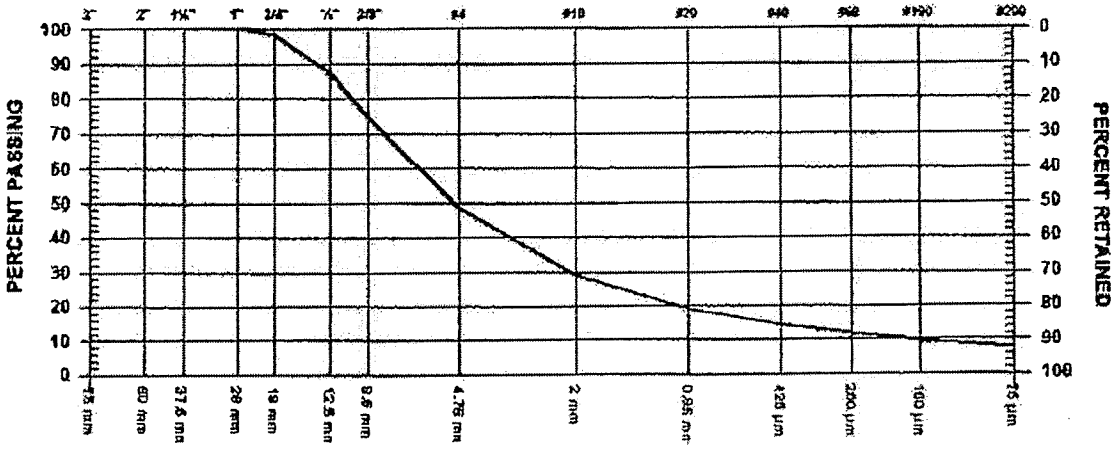
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 31 DATE RECEIVED 2008.Oct.03 DATE TESTED 2008.Oct.07 DATE SAMPLED 2008.Sep.27

SUPPLIER
SOURCE R-S6-ZF-37/08
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	98.2	
1/2"	12.5 mm	87.1	
3/8"	9.5 mm	74.5	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	48.7	
No. 10	2.00 mm	28.8	
No. 20	850 µm	19.0	
No. 40	425 µm	14.4	
No. 60	250 µm	11.7	
No. 100	150 µm	9.9	
No. 200	75 µm	7.8	

COMMENTS
LOCATION: ME, CHAINAGE: 16+50m, ELEVATION: 954m

 2008.Oct.14 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC 5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

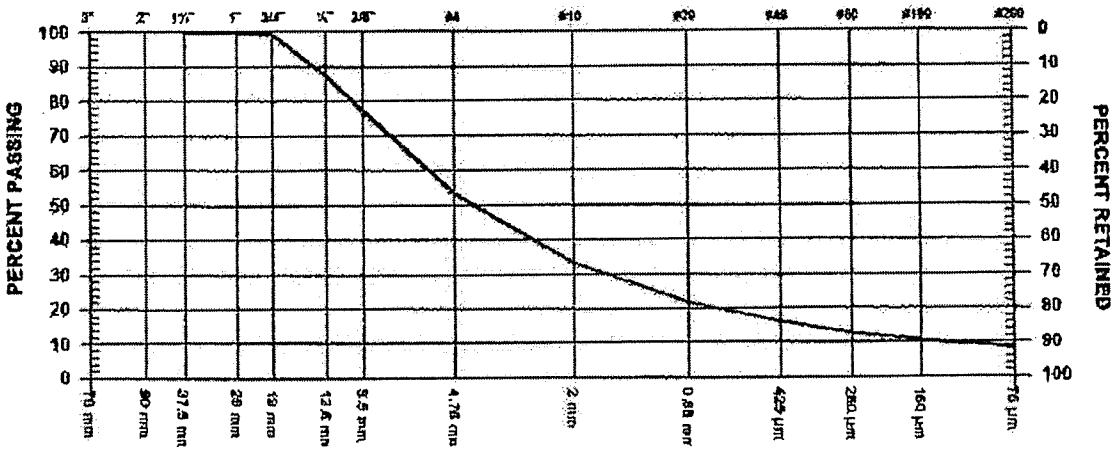
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 32 DATE RECEIVED 2008.Oct.03 DATE TESTED 2008.Oct.07 DATE SAMPLED 2008.Sep.27

SUPPLIER
SOURCE R-S6-ZF-38/08
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	99.7	
3/4"	19 mm	99.1	
1/2"	12.5 mm	87.2	
3/8"	9.5 mm	76.9	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	53.3	
No. 10	2.00 mm	33.1	
No. 20	850 µm	21.6	
No. 40	425 µm	16.1	
No. 60	250 µm	12.9	
No. 100	150 µm	10.8	
No. 200	75 µm	8.5	

COMMENTS
LOCATION: SE, CHAINAGE: 15+25m, ELEVATION: 954.0m

 2008.Oct.14 GeoNorth Engineering Ltd. PER. _____

1301 Kelliher Road Prince George, BC .5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

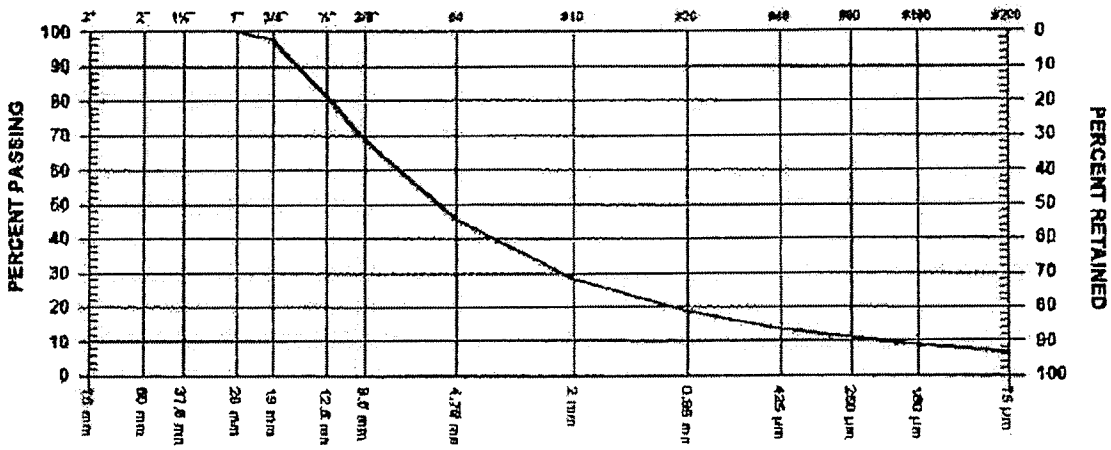
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 33 DATE RECEIVED 2008.Oct.03 DATE TESTED 2008.Oct.07 DATE SAMPLED 2008.Sep.27

SUPPLIER
SOURCE R-S6-ZF-39/08
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	81.4	
3/8"	9.5 mm	68.4	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	45.5	
No. 10	2.00 mm	28.2	
No. 20	850 µm	18.6	
No. 40	425 µm	13.8	
No. 60	250 µm	10.9	
No. 100	150 µm	8.9	
No. 200	75 µm	6.7	

COMMENTS
LOCATION: PE, CHAINAGE: 28+50m, ELEVATION: 954.0m

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2N 5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

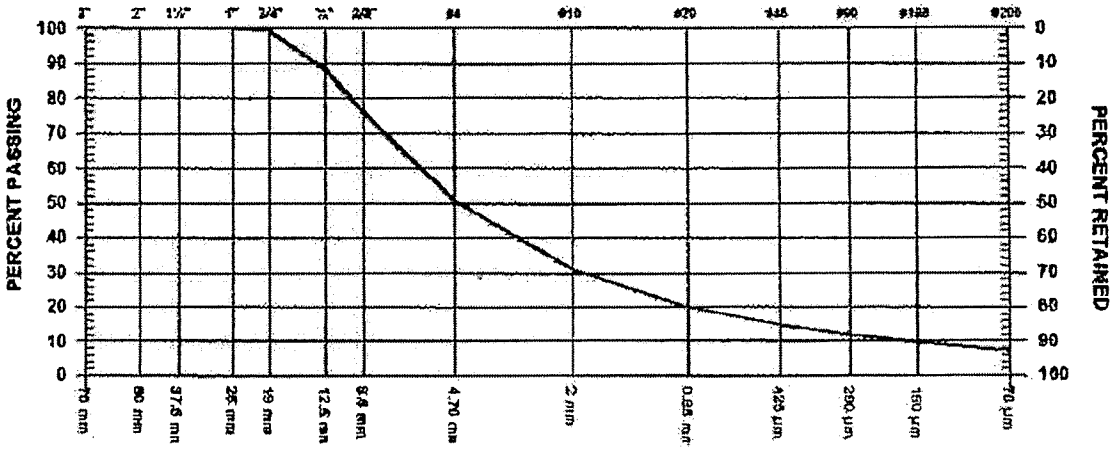
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 34 DATE RECEIVED 2008.Oct.03 DATE TESTED 2008.Oct.07 DATE SAMPLED 2008.Sep.27

SUPPLIER
SOURCE R-S6-ZF-40/08
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	99.2	
1/2"	12.5 mm	88.3	
3/8"	9.5 mm	75.6	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	50.8	
No. 10	2.00 mm	30.9	
No. 20	850 µm	20.1	
No. 40	425 µm	14.8	
No. 60	250 µm	11.7	
No. 100	150 µm	9.7	
No. 200	75 µm	7.4	

COMMENTS
LOCATION: PE, CHAINAGE: 30+00m, ELEVATION: 953.5m

 2008.Oct.14 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2N 5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

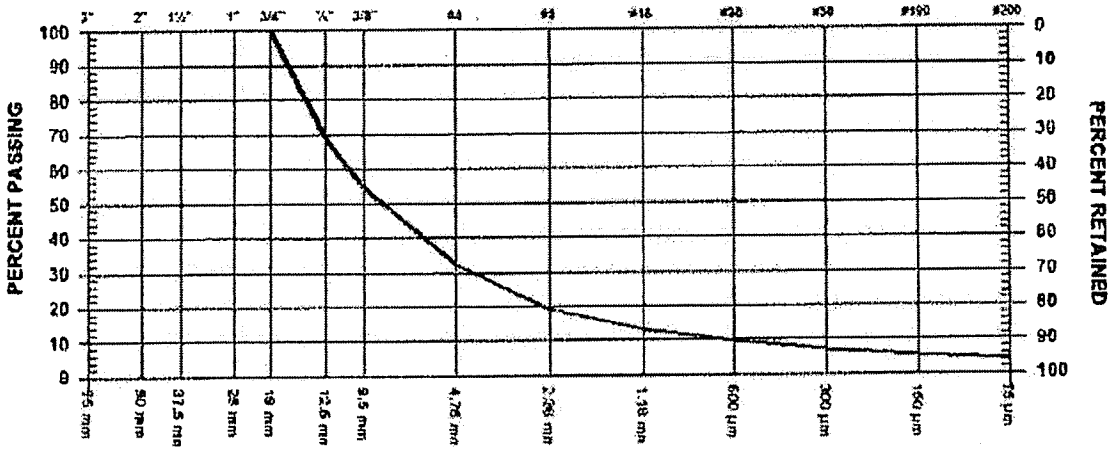
PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 49 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.07 DATE SAMPLED 2008.Oct.29

SUPPLIER
SOURCE R-S6-ZF-55/08
SPECIFICATION
MATERIAL TYPE In Situ 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		
3/4"	19 mm	100.0	
1/2"	12.5 mm	69.0	
3/8"	9.5 mm	54.6	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	32.3	
No. 8	2.36 mm	19.3	
No. 16	1.18 mm	13.0	
No. 30	600 µm	9.6	
No. 50	300 µm	7.3	
No. 100	150 µm	5.5	
No. 200	75 µm	4.1	

COMMENTS
LOCATION: PE, CHAINAGE: 46+00, ELEVATION: 954.0

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

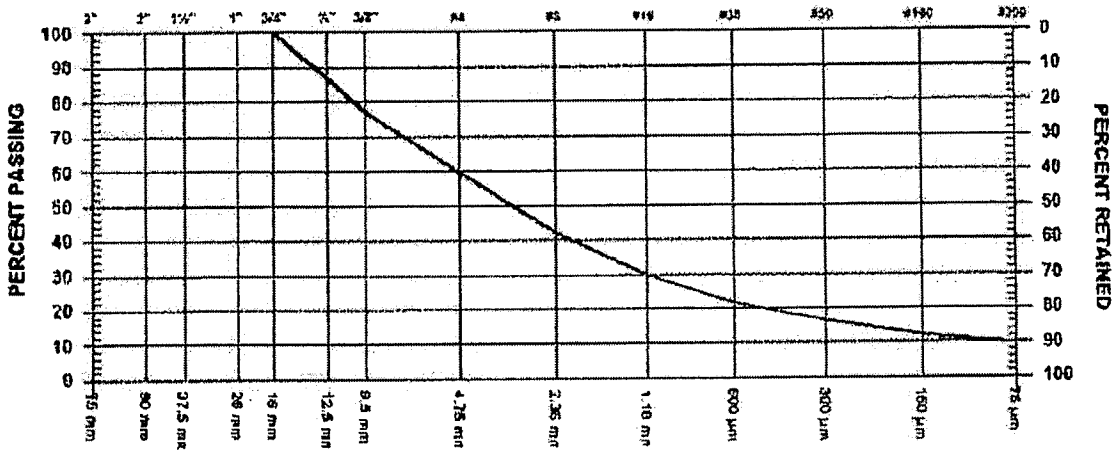
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 50 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.07 DATE SAMPLED 2008.Oct.27

SUPPLIER
SOURCE R-S6-ZF-56/08
SPECIFICATION
MATERIAL TYPE In Situ 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		
3/4"	19 mm	100.0	
1/2"	12.5 mm	86.8	
3/8"	9.5 mm	77.2	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	59.6	
No. 8	2.36 mm	42.2	
No. 16	1.18 mm	30.0	
No. 30	600 µm	21.7	
No. 50	300 µm	16.4	
No. 100	150 µm	12.5	
No. 200	75 µm	9.8	

COMMENTS
LOCATION: PE, CHAINAGE: 44+50, ELEVATION: 954.1

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

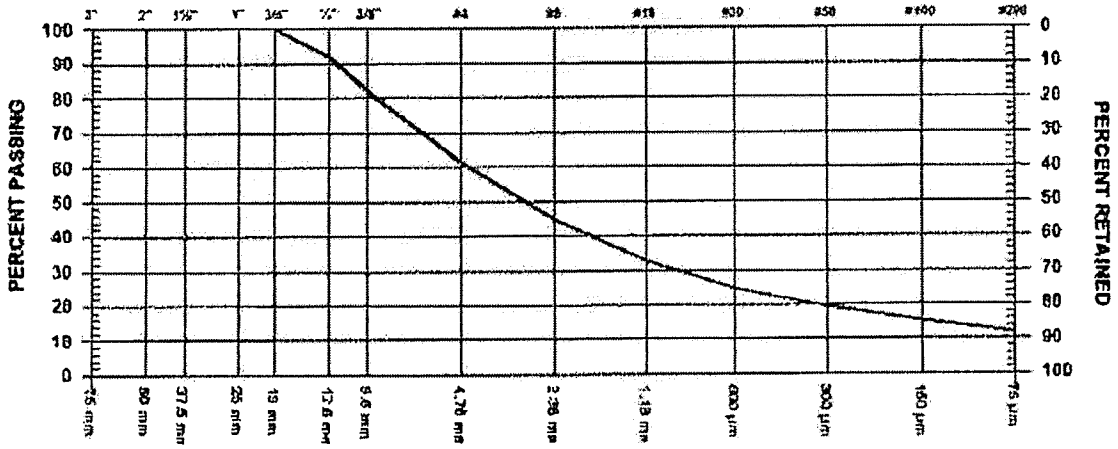
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 51 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.07 DATE SAMPLED 2008.Oct.27

SUPPLIER
SOURCE R-S6-ZF-57/08
SPECIFICATION
MATERIAL TYPE In Situ 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		
3/4"	19 mm	100.0	
1/2"	12.5 mm	92.0	
3/8"	9.5 mm	82.3	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	61.3	
No. 8	2.36 mm	44.5	
No. 16	1.18 mm	32.9	
No. 30	600 µm	24.9	
No. 50	300 µm	19.5	
No. 100	150 µm	15.3	
No. 200	75 µm	12.1	

COMMENTS
LOCATION: PE, CHAINAGE: 42150, ELEVATION: 954.0

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

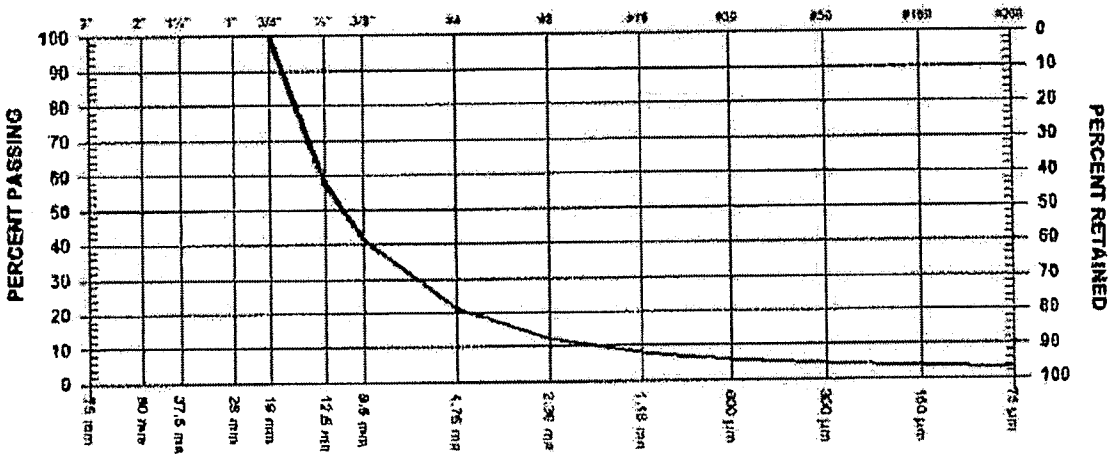
PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 52 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.07 DATE SAMPLED 2008.Oct.27

SUPPLIER
SOURCE R-S6-ZF-58/08
SPECIFICATION
MATERIAL TYPE In Situ 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		
3/4"	19 mm	100.0	
1/2"	12.5 mm	57.5	
3/8"	9.5 mm	41.5	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	21.4	
No. 8	2.36 mm	12.2	
No. 16	1.18 mm	8.0	
No. 30	600 µm	6.0	
No. 50	300 µm	4.8	
No. 100	150 µm	3.8	
No. 200	75 µm	3.1	

COMMENTS
LOCATION: PE, CHAINAGE: 41+00, ELEVATION: 954.0

PER. _____

Knight Piésold
CONSULTING

APPENDIX A5

ZONE T RECORD

(Pages A5-1 to A5-18)

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564 3

10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

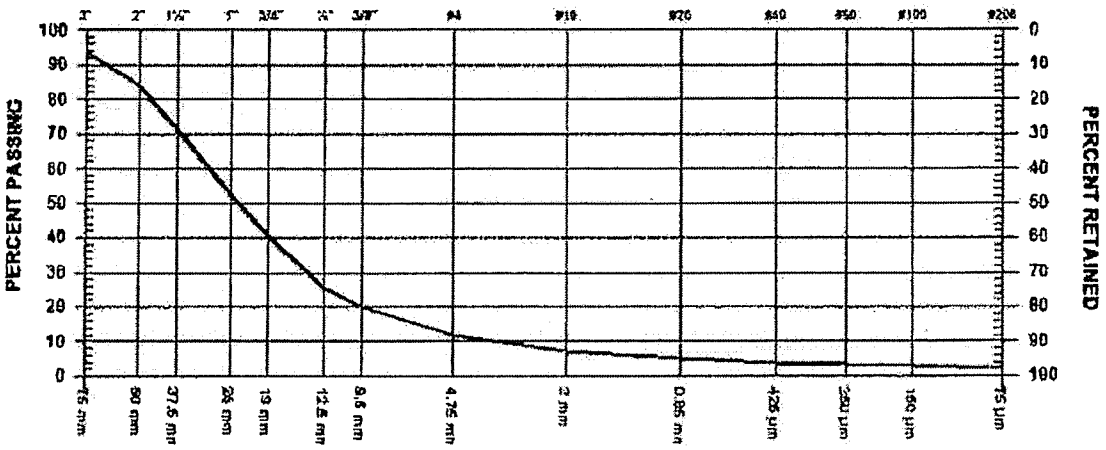
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 17 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Sep.30 DATE SAMPLED 2008.Sep.04

SUPPLIER
SOURCE R-S6-ZT-15/08
SPECIFICATION
MATERIAL TYPE Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	93.5	
2"	50 mm	83.7	
1 1/2"	37.5 mm	71.3	
1"	25 mm	52.2	
3/4"	19 mm	40.3	
1/2"	12.5 mm	25.6	
3/8"	9.5 mm	20.1	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	11.8	
No. 10	2.00 mm	7.2	
No. 20	850 µm	5.1	
No. 40	425 µm	4.0	
No. 60	250 µm	3.3	
No. 100	150 µm	2.8	
No. 200	75 µm	2.1	

COMMENTS
100% PASSING THE 4"
LOCATION: ME, CHAINAGE: 18+00, ELEVATION: 952.0

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564 13

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

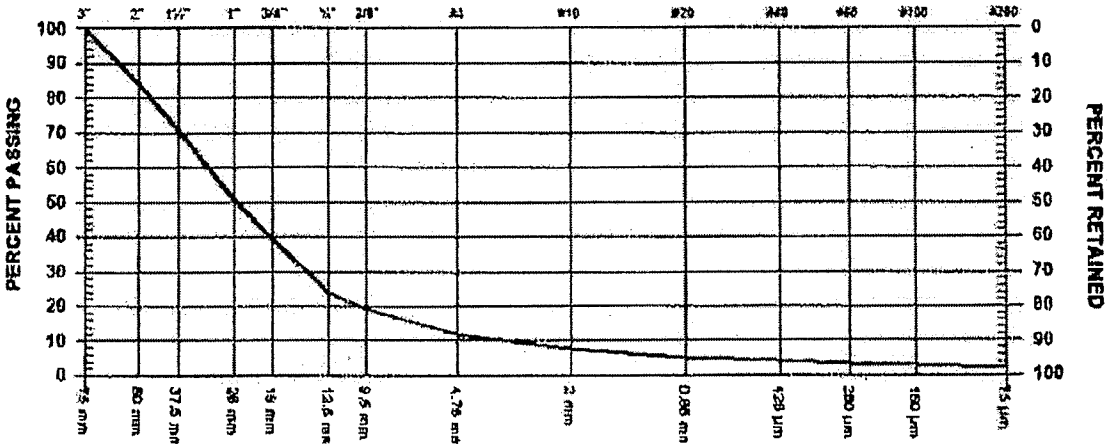
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 18 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Sep.30 DATE SAMPLED 2008.Sep.04

SUPPLIER
SOURCE R-S6-ZT-16/08
SPECIFICATION
MATERIAL TYPE Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	100.0	
2"	50 mm	83.9	
1 1/2"	37.5 mm	70.6	
1"	25 mm	50.5	
3/4"	19 mm	39.2	
1/2"	12.5 mm	24.0	
3/8"	9.5 mm	19.0	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	11.8	
No. 10	2.00 mm	7.5	
No. 20	850 µm	5.3	
No. 40	425 µm	4.1	
No. 60	250 µm	3.4	
No. 100	150 µm	2.8	
No. 200	75 µm	2.2	

COMMENTS
LOCATION: ME, CHAINAGE: 16+00, ELEVATION: 952.0

Page 1 of 1 2008.Oct.07 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
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SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

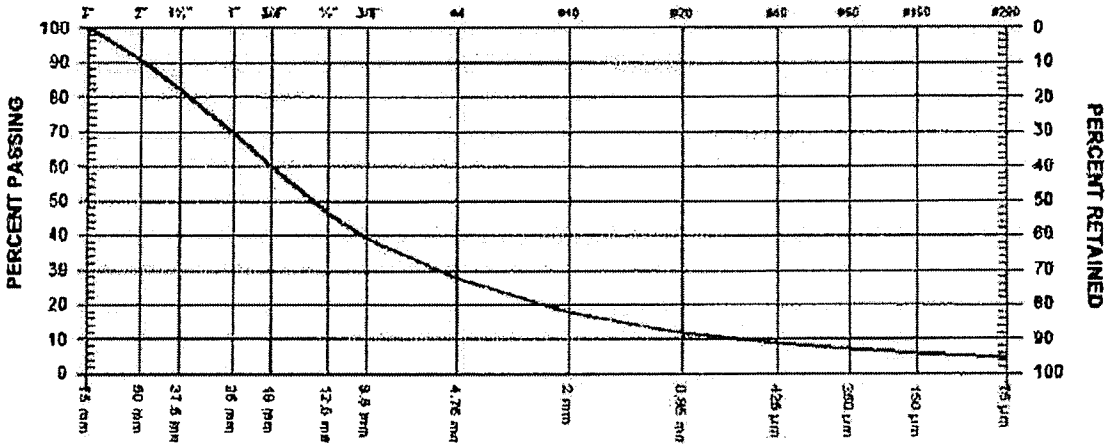
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 19 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Sep.30 DATE SAMPLED 2008.Sep.17

SUPPLIER
SOURCE R-S6-ZT-17/08
SPECIFICATION
MATERIAL TYPE Zone T

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	90.9	
1 1/2"	37.5	mm	82.3	
1"	25	mm	69.3	
3/4"	19	mm	60.1	
1/2"	12.5	mm	46.4	
3/8"	9.5	mm	39.1	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	27.8	
No. 10	2.00	mm	17.7	
No. 20	850	µm	11.8	
No. 40	425	µm	8.8	
No. 60	250	µm	7.2	
No. 100	150	µm	6.1	
No. 200	75	µm	4.9	

COMMENTS
LOCATION: SR, CHAINAGE: 07+80, ELEVATION: 952.3

 2008.Oct.07 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)56[illegible]3

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

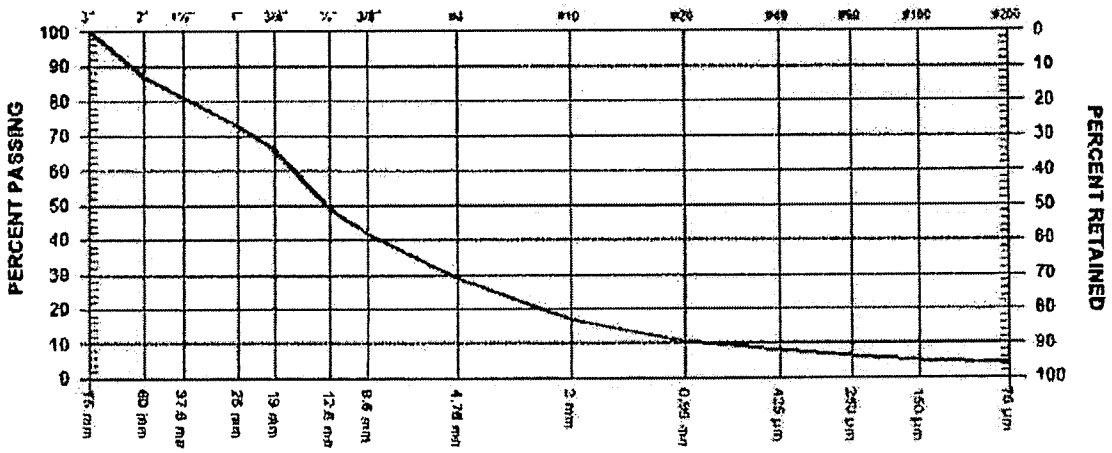
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 20 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Sep.30 DATE SAMPLED 2008.Sep.23

SUPPLIER
SOURCE R-S6-2T-18/08
SPECIFICATION
MATERIAL TYPE Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	100.0	
2"	50	mm	87.0	
1 1/2"	37.5	mm	80.9	
1"	25	mm	72.9	
3/4"	19	mm	65.9	
1/2"	12.5	mm	49.0	
3/8"	9.5	mm	41.8	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	29.0	
No. 10	2.00	mm	17.2	
No. 20	850	µm	10.7	
No. 40	425	µm	7.9	
No. 60	250	µm	6.4	
No. 100	150	µm	5.3	
No. 200	75	µm	4.3	

COMMENTS
LOCATION: ME, CHAINAGE: 24+50, ELEVATION: 954.0

Page 1 of 1 2008.Oct.07 GeoNorth Engineering Ltd. PER.

OCT. 7. 2008 4:57PM GeoNorth Engineering 604 9323
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-4323

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

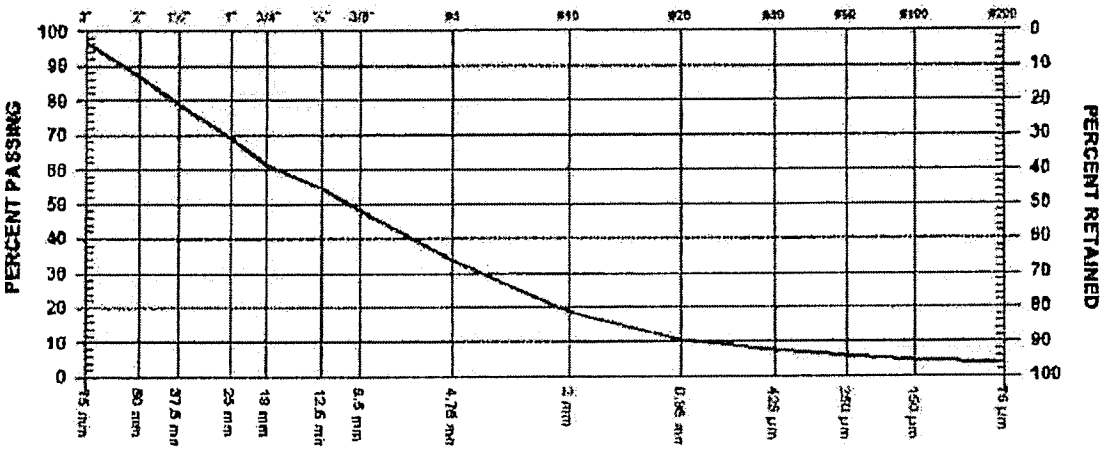
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 21 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Sep.30 DATE SAMPLED 2008.Sep.23

SUPPLIER
SOURCE R-S6-ZT-19/08
SPECIFICATION
MATERIAL TYPE Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	96.5	
2"	50 mm	86.7	
1 1/2"	37.5 mm	78.9	
1"	25 mm	68.9	
3/4"	19 mm	61.4	
1/2"	12.5 mm	54.5	
3/8"	9.5 mm	48.0	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	33.5	
No. 10	2.00 mm	18.9	
No. 20	850 µm	10.8	
No. 40	425 µm	7.5	
No. 60	250 µm	5.9	
No. 100	150 µm	4.8	
No. 200	75 µm	3.7	

COMMENTS
100% PASSING THE 4"
LOCATION: ME, CHAINAGE: 26+00, ELEVATION: 954.0

Page 1 of 1 2008.Oct.07 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564 3

SIEVE ANALYSIS REPORT
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

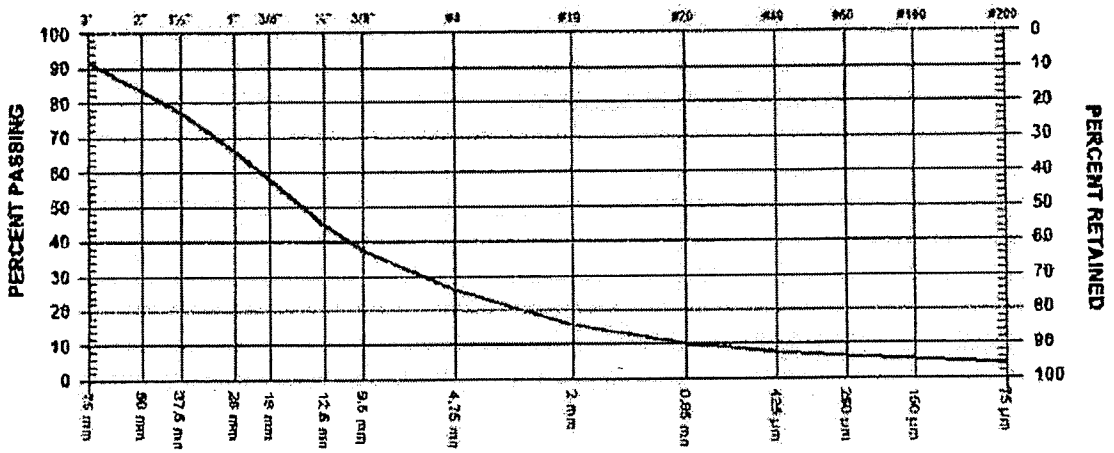
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 22 DATE RECEIVED 2008.Sep.29 DATE TESTED 2008.Sep.30 DATE SAMPLED 2008.Sep.24

SUPPLIER
SOURCE R-S6-ZT-20/08
SPECIFICATION
MATERIAL TYPE Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3" 4"	75	mm	91.5	
2"	50	mm	83.5	
1 1/2"	37.5	mm	76.9	
1"	25	mm	66.2	
3/4"	19	mm	57.8	
1/2"	12.5	mm	44.6	
3/8"	9.5	mm	37.5	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	25.8	
No. 10	2.00	mm	15.9	
No. 20	850	µm	10.4	
No. 40	425	µm	7.8	
No. 60	250	µm	6.4	
No. 100	150	µm	5.4	
No. 200	75	µm	4.3	

COMMENTS
100% PASSING THE 5", 91.5% PASSING THE 4" (NO RETAINS ON THE 3")
LOCATION: ME, CHAINAGE 26100, ELEVATION: 954.0

PER. _____

1301 Kelliher Road Prince George, BC _5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS
10 20 40 60 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

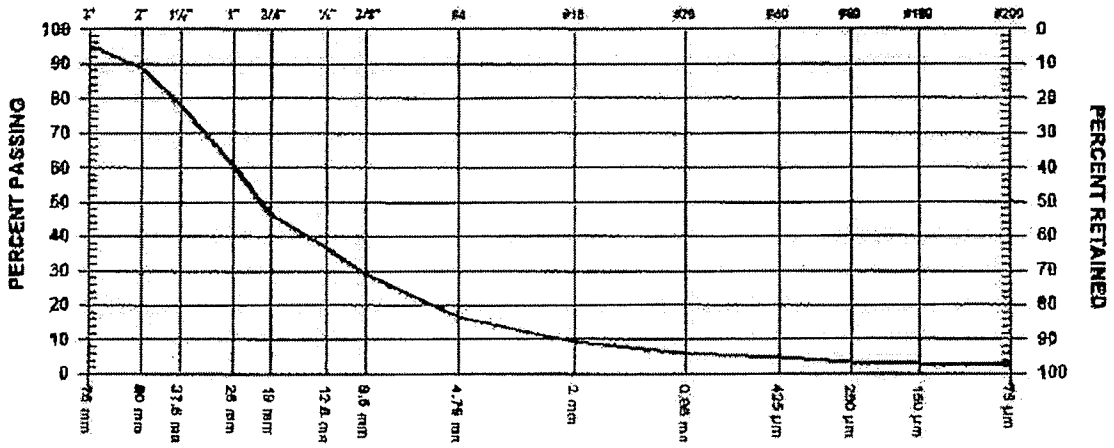
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 37 DATE RECEIVED 2008.Oct.03 DATE TESTED 2008.Oct.08 DATE SAMPLED 2008.Sep.26

SUPPLIER
SOURCE R-S6-ZT-21/08
SPECIFICATION
MATERIAL TYPE Transition

SAMPLED BY CLIENT
TESTED BY EM
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	95.5	
2"	50 mm	88.4	
1 1/2"	37.5 mm	77.7	
1"	25 mm	60.5	
3/4"	19 mm	46.2	
1/2"	12.5 mm	36.4	
3/8"	9.5 mm	29.0	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	16.7	
No. 10	2.00 mm	9.5	
No. 20	850 µm	6.0	
No. 40	425 µm	4.5	
No. 60	250 µm	3.6	
No. 100	150 µm	3.1	
No. 200	75 µm	2.5	

COMMENTS
100% PASSING THE 4"
LOCATION: ME, CHAINAGE: 19+50m, ELEVATION: 954.0m

PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC [illegible]5S8
Phone (250)564-4304; fax (250)564-[illegible]

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

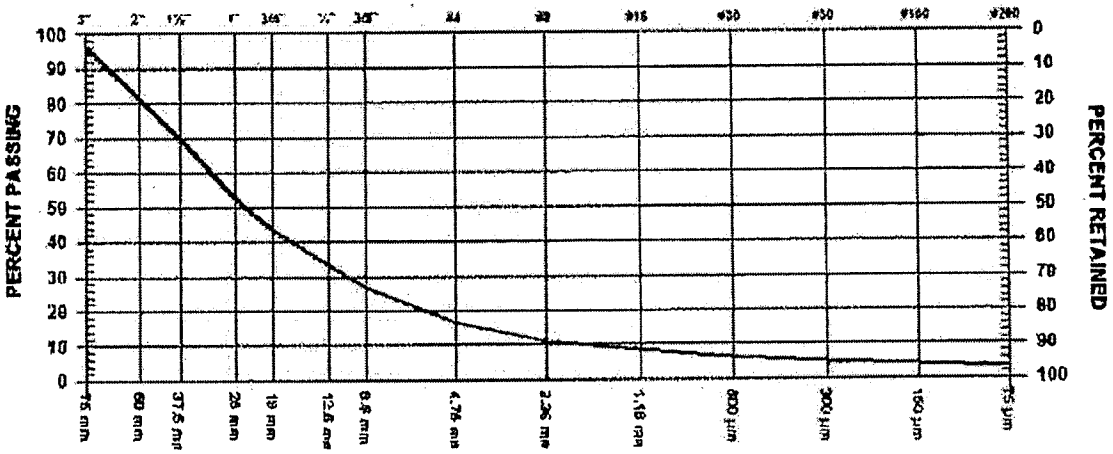
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 38 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.06 DATE SAMPLED 2008.Oct.27

SUPPLIER
SOURCE R-S6-XT-22/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	96.1	
2"	50	mm	81.3	
1 1/2"	37.5	mm	70.0	
1"	25	mm	52.4	
3/4"	19	mm	43.5	
1/2"	12.5	mm	33.3	
3/8"	9.5	mm	27.0	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	16.8	
No. 8	2.36	mm	11.2	
No. 16	1.18	mm	8.5	
No. 30	600	µm	6.6	
No. 50	300	µm	5.3	
No. 100	150	µm	4.1	
No. 200	75	µm	3.2	

COMMENTS
100% PASSING THE 4"
LOCATION: PE, CHAINAGE: 46+00, ELEVATION: 953.5

PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9523

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

Mount Polley Mining Corp. ATTN:
Knight Piesold
P.O Box 12
Likely, BC
V0L 1N0

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

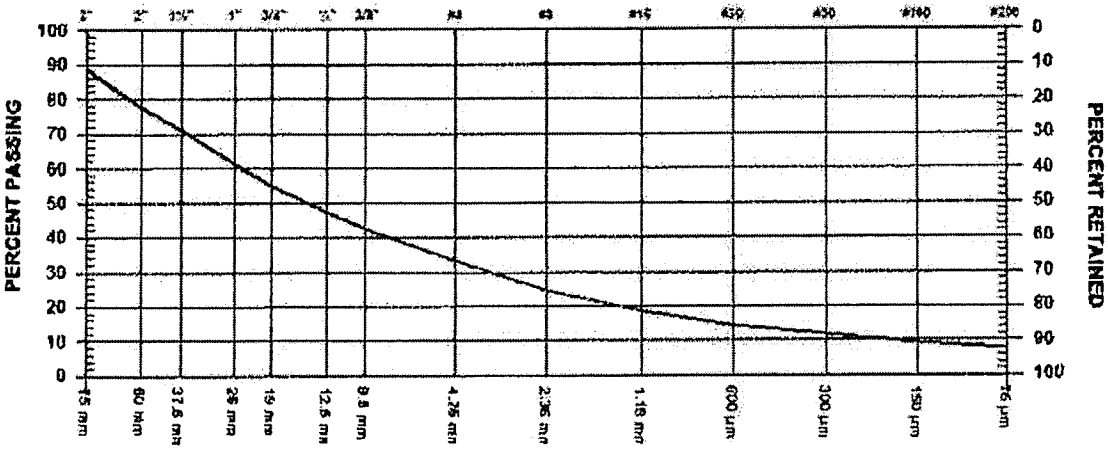
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 39 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.06 DATE SAMPLED 2008.Oct.27

SUPPLIER
SOURCE R-S6-ZT-23/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	88.7	
2"	50	mm	77.5	
1 1/2"	37.5	mm	71.0	
1"	25	mm	61.1	
3/4"	19	mm	55.0	
1/2"	12.5	mm	47.4	
3/8"	9.5	mm	42.7	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	33.1	
No. 8	2.36	mm	24.6	
No. 16	1.18	mm	18.6	
No. 30	600	µm	14.5	
No. 50	300	µm	11.7	
No. 100	150	µm	9.4	
No. 200	75	µm	7.6	

COMMENTS
100% PASSING THE 5" 93.1% PASSING THE 4"
LOCATION: PE, CHAINAGE: 42+50, ELEVATION: 954.0

Page 1 of 1 2008.Nov.12 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

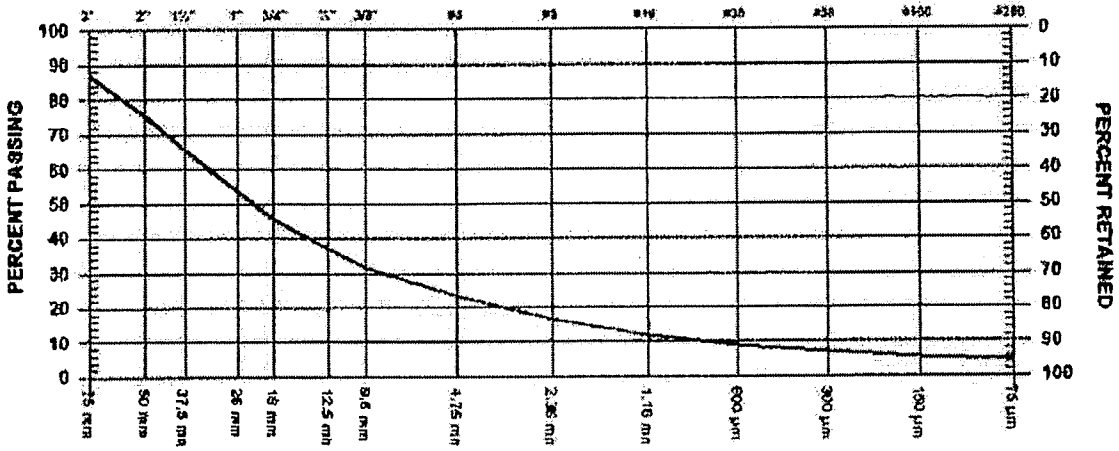
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 40 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.06 DATE SAMPLED 2008.Oct.29

SUPPLIER
SOURCE R-S6-ZT-24/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	86.8	
2"	50	mm	75.2	
1 1/2"	37.5	mm	65.4	
1"	25	mm	53.7	
3/4"	19	mm	45.5	
1/2"	12.5	mm	37.0	
3/8"	9.5	mm	31.6	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	23.5	
No. 8	2.36	mm	16.6	
No. 16	1.18	mm	12.1	
No. 30	600	µm	9.1	
No. 50	300	µm	7.1	
No. 100	150	µm	5.6	
No. 200	75	µm	4.5	

COMMENTS
100% PASSING THE 5" 93.6% PASSING THE 4"
LOCATION: PE, CHAINAGE: 6+00, ELEVATION: 954.0

Page 1 of 1 2008.Nov.12 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC [illegible].558
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
c.c. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

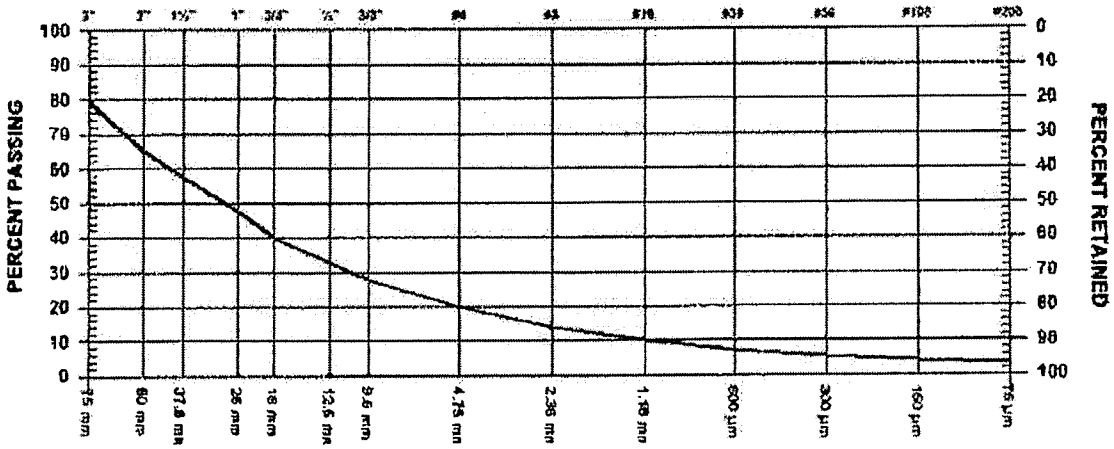
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 41 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.06 DATE SAMPLED 2008.Oct.29

SUPPLIER
SOURCE R-S6-ZT-25/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	79.2	
2"	50	mm	65.1	
1 1/2"	37.5	mm	57.5	
1"	25	mm	47.6	
3/4"	19	mm	40.0	
1/2"	12.5	mm	32.6	
3/8"	9.5	mm	27.8	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	20.1	
No. 8	2.36	mm	14.1	
No. 16	1.18	mm	10.2	
No. 30	600	µm	7.4	
No. 50	300	µm	5.6	
No. 100	150	µm	4.3	
No. 200	75	µm	3.3	

COMMENTS
100% PASSING THE 5" 92.5% PASSING THE 4"
LOCATION: SE, CHAINAGE: 8+50, ELEVATION: 954.0

Page 1 of 1 2008.Nov.12 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L 5S8
Phone (250)564-4304; fax (250)564-5243

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

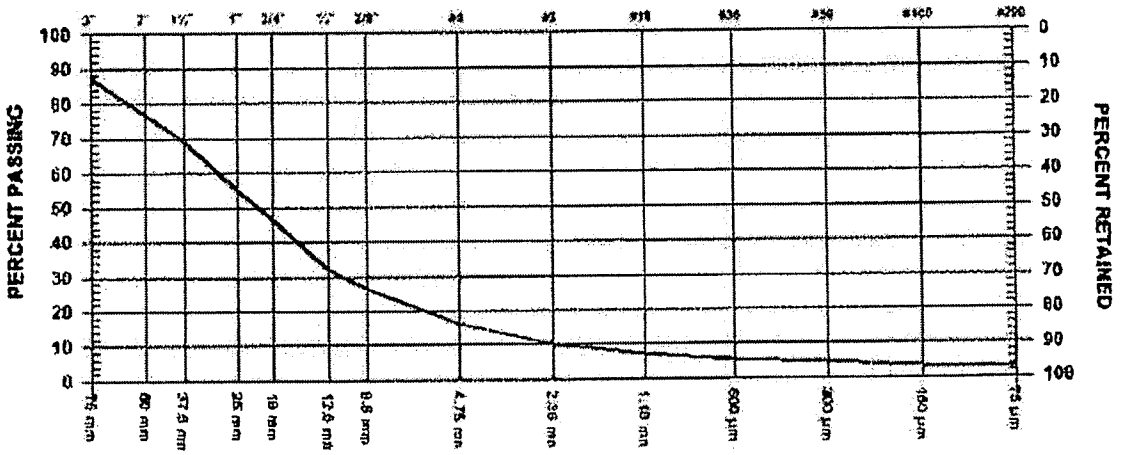
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 42 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.06 DATE SAMPLED 2008.Oct.29

SUPPLIER
SOURCE R-S6-2T-26/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	87.1	
2"	50 mm	76.7	
1 1/2"	37.5 mm	68.8	
1"	25 mm	54.7	
3/4"	19 mm	46.6	
1/2"	12.5 mm	32.0	
3/8"	9.5 mm	26.2	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	16.3	
No. 8	2.36 mm	10.2	
No. 16	1.18 mm	7.2	
No. 30	600 µm	5.6	
No. 50	300 µm	4.5	
No. 100	150 µm	3.6	
No. 200	75 µm	2.9	

COMMENTS
100% PASSING THE 5" 94.5% PASSING THE 4"
LOCATION: BC, CHAINAGE: 13+00, ELEVATION: 954.0

Page 1 of 1 2008.Nov.12 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC [illegible].558
Phone (250)564-4304; fax (250)564-6523

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

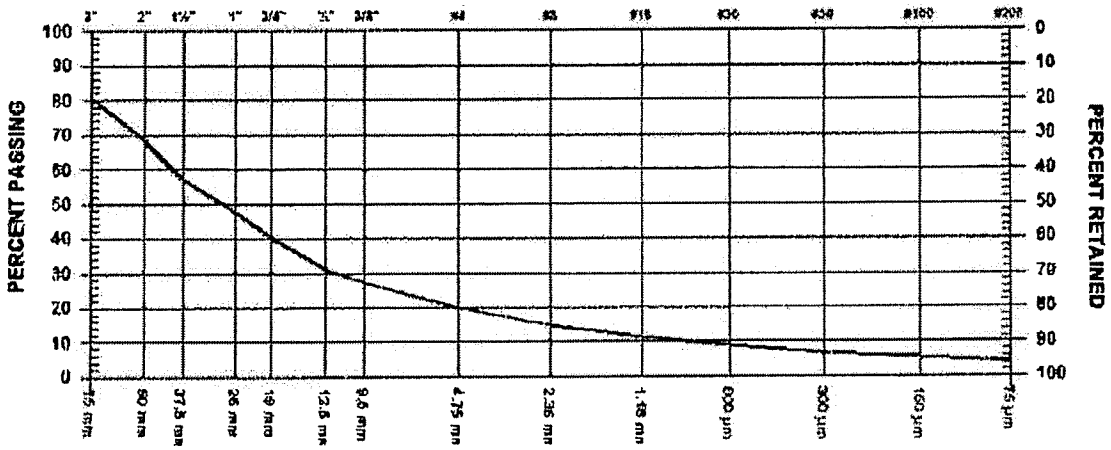
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6
Mount Polley Mine
Likely
CONTRACTOR

SIEVE TEST NO. 43 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.06 DATE SAMPLED 2008.Oct.29

SUPPLIER
SOURCE R-S6-ZT-27/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	80.6	
2"	50 mm	68.5	
1 1/2"	37.5 mm	57.2	
1"	25 mm	47.8	
3/4"	19 mm	40.5	
1/2"	12.5 mm	31.3	
3/8"	9.5 mm	27.4	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	20.2	
No. 8	2.36 mm	15.1	
No. 16	1.18 mm	11.5	
No. 30	600 µm	8.8	
No. 50	300 µm	6.9	
No. 100	150 µm	5.4	
No. 200	75 µm	4.3	

COMMENTS
100% PASSING THR 4"
LOCATION: MR, CHAINAGE: 16+00, ELEVATION: 954.0

Page 1 of 1 2008.Nov.12 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-5023

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

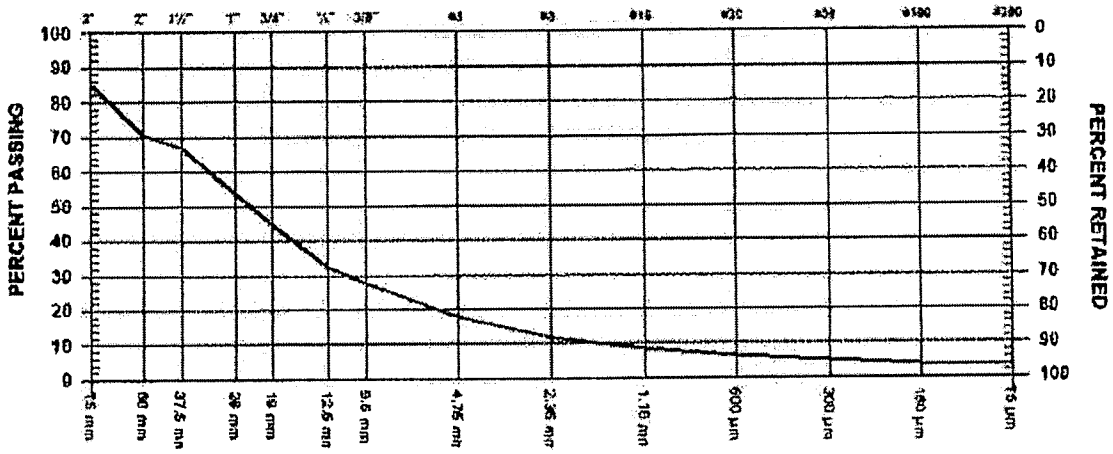
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 44 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.07 DATE SAMPLED 2008.Oct.29

SUPPLIER
SOURCE R-S6-ZT-28/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	85.2	
2"	50 mm	70.5	
1 1/2"	37.5 mm	67.0	
1"	25 mm	53.5	
3/4"	19 mm	44.8	
1/2"	12.5 mm	32.5	
3/8"	9.5 mm	27.5	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	17.7	
No. 8	2.36 mm	12.0	
No. 16	1.18 mm	8.5	
No. 30	600 µm	6.4	
No. 50	300 µm	5.1	
No. 100	150 µm	4.0	
No. 200	75 µm	3.2	

COMMENTS
100% PASSING THE 5" 89.4% PASSING THE 4"
LOCATION: ME, CHAINAGE: 22100, ELEVATION: 954.0

Page 1 of 1 2008.Nov.12 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC [illegible]5S8
Phone (250)564-4304; fax (250)564-[illegible]

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

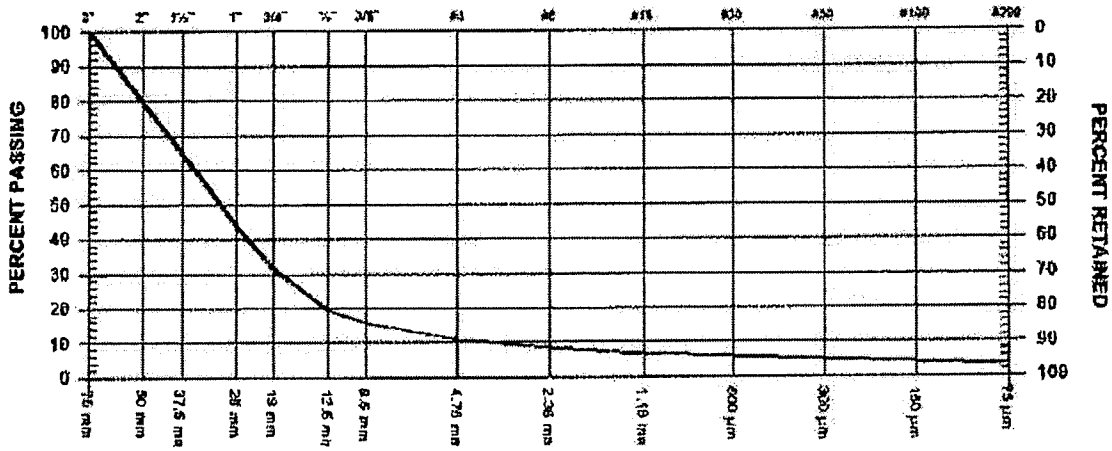
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 45 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.07 DATE SAMPLED 2008.Oct.29

SUPPLIER
SOURCE R-S6-ZT-29/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	100.0	
2"	50 mm	79.7	
1 1/2"	37.5 mm	64.9	
1"	25 mm	43.7	
3/4"	19 mm	31.4	
1/2"	12.5 mm	19.6	
3/8"	9.5 mm	15.7	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	11.2	
No. 8	2.36 mm	8.6	
No. 16	1.18 mm	7.0	
No. 30	600 µm	6.0	
No. 50	300 µm	5.1	
No. 100	150 µm	4.2	
No. 200	75 µm	3.5	

COMMENTS
LOCATION: PE, CHAINAGE: 30100, ELEVATION: 954.0

Page 1 of 1 2008.Nov.12 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kellher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program
Stage 6

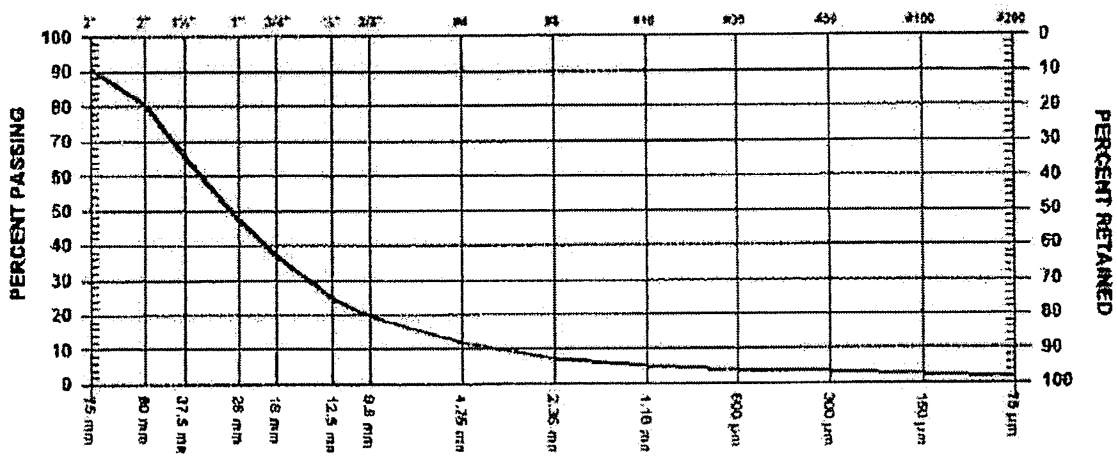
Mount Polley Mine
Likely

CONTRACTOR

SIEVE TEST NO. 46 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.07 DATE SAMPLED 2008.Oct.29

SUPPLIER
SOURCE R-S6-ZT-30/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	90.7	
2"	50	mm	80.6	
1 1/2"	37.5	mm	65.6	
1"	25	mm	47.1	
3/4"	19	mm	37.1	
1/2"	12.5	mm	24.8	
3/8"	9.5	mm	19.5	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	11.7	
No. 8	2.36	mm	7.3	
No. 16	1.18	mm	5.2	
No. 30	600	µm	4.0	
No. 50	300	µm	3.2	
No. 100	150	µm	2.4	
No. 200	75	µm	1.8	

COMMENTS
100% PASSING THE 5" 93.7% PASSING THE 4"
LOCATION: PE, CHAINAGE: 33+00, ELEVATION: 954.0

Page 1 of 1 2008.Nov.12 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
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SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

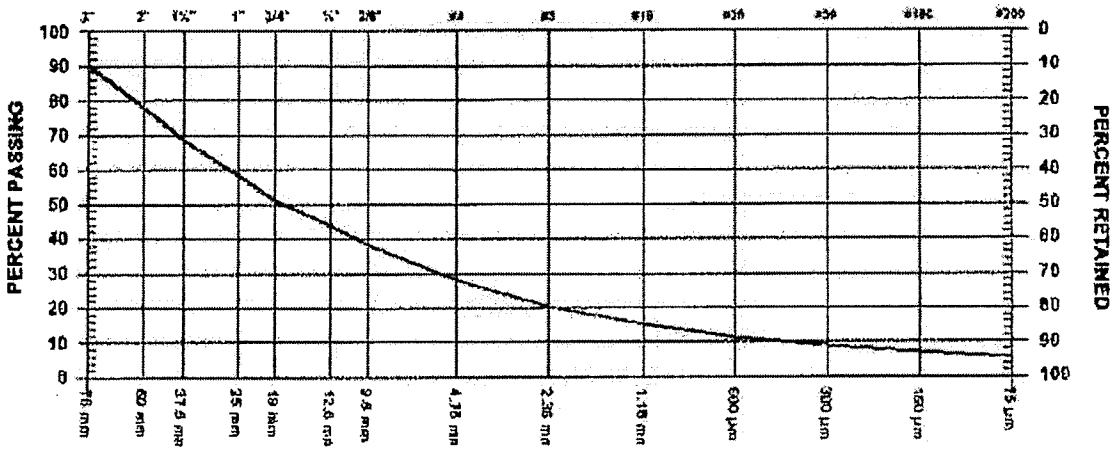
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 47 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.07 DATE SAMPLED 2008.Oct.29

SUPPLIER
SOURCE R-S6-ZT-31/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES			PERCENT PASSING	GRADATION LIMITS
3"	75	mm	90.2	
2"	50	mm	77.8	
1 1/2"	37.5	mm	68.5	
1"	25	mm	58.5	
3/4"	19	mm	51.3	
1/2"	12.5	mm	43.7	
3/8"	9.5	mm	38.2	

SAND SIZES AND FINES			PERCENT PASSING	GRADATION LIMITS
No. 4	4.75	mm	28.1	
No. 8	2.36	mm	20.6	
No. 16	1.18	mm	15.3	
No. 30	600	µm	11.6	
No. 50	300	µm	9.0	
No. 100	150	µm	7.1	
No. 200	75	µm	5.7	

COMMENTS
100% PASSING THE 4"
LOCATION: PE, CHAINAGE: 36+00, ELEVATION: 954.0

Page 1 of 1 2008.Nov.12 GeoNorth Engineering Ltd. PER.

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9523

SIEVE ANALYSIS REPORT
8 16 30 50 SERIES

PROJECT NO. K 2585
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
V0L -1N0

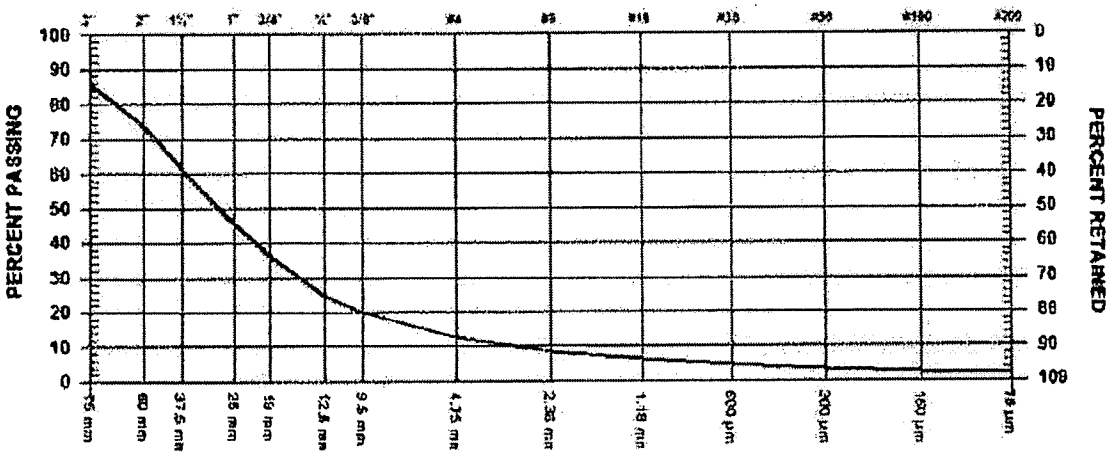
ATTN: Ron Martel @ 250-790-2268

PROJECT Mount Polley Construction Program — Mount Polley Mine
Stage 6 — Likely
CONTRACTOR

SIEVE TEST NO. 48 DATE RECEIVED 2008.Nov.03 DATE TESTED 2008.Nov.07 DATE SAMPLED 2008.Oct.29

SUPPLIER
SOURCE R-S6-ZT-32/08
SPECIFICATION
MATERIAL TYPE In Situ Transition

SAMPLED BY Client
TESTED BY DJ
TEST METHOD WASHED



GRAVEL SIZES		PERCENT PASSING	GRADATION LIMITS
3"	75 mm	85.7	
2"	50 mm	73.7	
1 1/2"	37.5 mm	61.2	
1"	25 mm	45.5	
3/4"	19 mm	36.2	
1/2"	12.5 mm	24.6	
3/8"	9.5 mm	20.2	

SAND SIZES AND FINES		PERCENT PASSING	GRADATION LIMITS
No. 4	4.75 mm	12.9	
No. 8	2.36 mm	8.6	
No. 16	1.18 mm	6.2	
No. 30	600 µm	4.6	
No. 50	300 µm	3.5	
No. 100	150 µm	2.7	
No. 200	75 µm	2.1	

COMMENTS
100% PASSING THE 5" 93.5% PASSING THE 4"
LOCATION: PE, CHAINAGE: 39+00, ELEVATION: 954.0

Page 1 of 1 2008.Nov.12 GeoNorth Engineering Ltd. PER.

Knight Piésold
CONSULTING

APPENDIX A6

SOUTH EMBANKMENT CONCRETE ENCASEMENT
CONCRETE STRENGTH TEST RESULTS

(Pages A6-1 to A6-2)

1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

TEST REPORT

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

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

ATTN: Ron Martel @ 250-790-2268

PROJECT M.P. Construction Program Stage 4/5
Materials Testing

Mount Polley Mining Corp.
Likely

SET NO. 4 NO. OF SPECIMENS 4 DATE RECEIVED 2007.Oct.11 DATE CAST 2007.Oct.03

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (mm^2)	COMPRESSIVE OR FLEXURAL STRENGTH (MPa)	FAILURE TYPE
A	Oct.12	9	102.0	204.0	245	8171	30.0	A
B	Oct.17	14	102.0	204.0	314	8171	38.4	B
C	Oct.31	28	102.0	204.0	353	8171	43.2	C
D	Oct.31	28	102.0	204.0	373	8171	45.6	D
								E
								F

SPECIFIED STRENGTH 30 MPa @ 28 DAYS
CEMENT CONTENT kg/m³ TYPE 50
POZZOLAN CONTENT kg/m³ TYPE
MAXIMUM SIZE AGGREGATE 20 mm
BATCH TIME
ADMIXTURES

CONCRETE TEMPERATURE °C
MEASURED SLUMP mm
MEASURED AIR %
PLASTIC DENSITY kg/m³
CAST TIME

AIR TEMPERATURE °C
SPECIFIED SLUMP ± mm
SPECIFIED AIR 6.0 ± %
HARDENED DENSITY 2450 kg/m³
CAST BY CLIENT ENT

CURING CONDITIONS
MOULD TYPE PLASTIC
INITIAL CURING TEMP:MAXIMUM °C MINIMUM °C

SUPPLIER
MIX NO. 30MPA-20MM
TRUCK NO. TICKET NO.
LOAD VOL. m³ CUM. VOL. m³
WATER ADDED AUTH. BY

LOCATION
South Embankment Toe Drain - 2nd Pour
R-36-CON-SE2/07

COMMENTS
SPECIMENS WERE CAST BY CLIENT.

Page 1 of 1 2007.Nov.01

GeoNorth Engineering Ltd. PER

GeoNorth Engineering Ltd.
1301 Kelliher Road Prince George, BC V2L5S8
Phone (250)564-4304; fax (250)564-9323

CONCRETE TEST REPORT

PROJECT NO. K 2036
CLIENT Mount Polley Mining Corp. Attn:
C.C. Knight Piesold Consulting

TO
Mount Polley Mining Corp. Attn:
Knight Piesold
P.O Box 12
Likely, BC
VOL -1NO

ATTN: Ron Martel @ 250-790-2268

PROJECT M.P. Construction Program Stage 4/5
Materials Testing

Mount Polley Mining Corp.
Likely

SET NO. 3 NO. OF SPECIMENS 4 DATE RECEIVED 2007.Sep.27 DATE CAST 2007.Sep.20

SPECIMEN NUMBER	DATE TESTED	AGE AT TEST (DAYS)	AVERAGE DIAMETER (mm) OR SIDE (mm x mm)	AVERAGE LENGTH OR SPAN (mm)	MAXIMUM LOAD (kN)	AVERAGE CROSS-SECTIONAL AREA (mm²)	COMPRESSIVE OR FLEXURAL STRENGTH (MPa)	FAILURE TYPE
A	Sep.28	8	102.0	204.0	215	8171	26.3	A X
B	Oct.04	14	102.0	204.0	270	8171	33.0	B
C	Oct.18	28	102.0	204.0	296	8171	36.2	C
D	Oct.18	28	102.0	204.0	318	8171	38.9	D
								E
								F

SPECIFIED STRENGTH 30 MPa @ 28 DAYS
CEMENT CONTENT kg/m³ TYPE 50
POZZOLAN CONTENT kg/m³ TYPE
MAXIMUM SIZE AGGREGATE 20 mm
BATCH TIME
ADMIXTURES
WRDA + AEA
GLENIUM 125ml
DELVO 500ml

SUPPLIER
MIX NO. 30MPA-20MM
TRUCK NO. TICKET NO.
LOAD VOL. m³ CUM. VOL. m³
WATER ADDED AUTH. BY

CONCRETE TEMPERATURE °C
MEASURED SLUMP mm
MEASURED AIR %
PLASTIC DENSITY kg/m³
CAST TIME

AIR TEMPERATURE °C
SPECIFIED SLUMP ± mm
SPECIFIED AIR 6.0 ± %
HARDENED DENSITY 2429 kg/m³
CAST BY CLIENT

CURING CONDITIONS MOULD TYPE PLASTIC
INITIAL CURING TEMP:MAXIMUM °C MINIMUM °C

LOCATION
R-S6-CON-SE1/07

COMMENTS
SPECIMENS RECEIVED IN LABORATORY FOR CURING 7 DAYS AFTER CAST DATE.

Page 1 of 1 2007.Oct.18

GeoNorth Engineering Ltd. PER.

Knight Piésold
CONSULTING

APPENDIX B

NUCLEAR DENSOMETER

Appendix B1 Zone S Record

Appendix B2 Zone U Record

Knight Piésold
CONSULTING

APPENDIX B1

ZONE S RECORD

(Pages B1-1 to B1-14)

#N/A

Rev'd 4-Dec-08

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23

DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m³)	Optimum Moisture (%)	Dry Density (kg/m³)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
1	PE 46+00	951	S	0.2	2094	9.1	2071	9.25	98.9	95.0	Pass
2	PE 45+75	951	S	0.2	2094	9.1	2018	10.19	96.4	95.0	Pass
3	PE 45+25	951	S	0.2	2094	9.1	2031	9.58	97.0	95.0	Pass
4	PE 43+25	951.3	S	0.2	2094	9.1	1996	9.94	95.3	95.0	Pass
5	PE 43+25	951.3	S	0.2	2094	9.1	2004	9.09	95.7	95.0	Pass
6	PE 40+65	951	S	0.2	2094	9.1	2007	10.14	95.8	95.0	Pass
7	PE 39+30	951	S	0.2	2094	9.1	2019	8.23	96.4	95.0	Pass
8	PE 38+75	951	S	0.2	2094	9.1	2087	7.63	99.6	95.0	Pass
9	PE 38+25	951	S	0.2	2094	9.1	2042	8.32	97.5	95.0	Pass
10	PE 41+25	951.3	S	0.2	2094	9.1	2023	10.08	96.6	95.0	Pass
11	PE 41+50	951.3	S	0.2	2094	9.1	2011	10.84	96.0	95.0	Pass
12	PE 41+75	951.3	S	0.2	2094	9.1	2055	9.97	98.1	95.0	Pass
13	PE 37+50	951	S	0.2	2094	9.1	2080	7.94	99.3	95.0	Pass
14	PE 37+00	951	S	0.2	2094	9.1	2093	7.27	99.9	95.0	Pass
15	PE 36+50	951	S	0.2	2094	9.1	2012	9.12	96.1	95.0	Pass
16	PE 42+25 DS	951.3	S	0.2	2094	9.1	2053	11.05	98.0	95.0	Pass
17	PE 42+50 DS	951.3	S	0.2	2094	9.1	2050	8.65	97.9	95.0	Pass
18	PE 42+50 DS	951.3	S	0.2	2094	9.1	2070	8.67	98.8	95.0	Pass
19	PE 42+50 US	951.3	S	0.2	2094	9.1	2009	9.38	95.9	95.0	Pass
20	PE 43+00 C	951.3	S	0.2	2094	9.1	2051	8.89	97.9	95.0	Pass
21	PE 43+00 US	951.3	S	0.2	2094	9.1	2064	9.18	98.5	95.0	Pass
22	PE 43+25 US	951.3	S	0.2	2094	9.1	2060	8.14	98.4	95.0	Pass
23	PE 43+50 DS	951.3	S	0.2	2094	9.1	2135	8.02	101.9	95.0	Pass
24	PE 43+75 C	951.3	S	0.2	2094	9.1	2092	7.70	99.9	95.0	Pass
25	PE 44+25 US	951.3	S	0.2	2094	9.1	2045	8.16	97.6	95.0	Pass
26	PE 44+75 C	951.3	S	0.2	2094	9.1	2020	7.88	96.4	95.0	Pass
27	PE 45+00 DS	951.3	S	0.2	2094	9.1	2082	7.92	99.4	95.0	Pass
28	PE 45+50 US	951.3	S	0.2	2094	9.1	2038	9.03	97.3	95.0	Pass
29	PE 45+85 C	951.3	S	0.2	2094	9.1	2073	8.34	99.0	95.0	Pass
30	PE 42+75 US	951.3	S	0.2	2094	9.1	2059	9.78	98.3	95.0	Pass
31	PE 42+75 DS	951.3	S	0.2	2094	9.1	2052	9.94	98.0	95.0	Pass
32	PE 42+50 DS	951.3	S	0.2	2094	9.1	2027	10.24	96.8	95.0	Pass
33	PE 42+50 US	951.3	S	0.2	2094	9.1	2044	10.07	97.6	95.0	Pass
34	PE 40+75 US	951.3	S	0.2	2094	9.1	2019	9.64	96.4	95.0	Pass
35	PE 40+10 C	951.3	S	0.2	2094	9.1	1995	10.29	95.3	95.0	Pass
36	PE 40+75 C	951.3	S	0.2	2094	9.1	2014	10.95	96.2	95.0	Pass
37	PE 41+25 DS	951.3	S	0.2	2094	9.1	1993	10.43	95.2	95.0	Pass
38	PE 41+75 US	951.3	S	0.2	2094	9.1	2022	11.36	96.5	95.0	Pass
39	PE 39+50	951.3	S	0.2	2094	9.1	2002	11.93	95.6	95.0	Pass
40	PE 40+25 C	951.3	S	0.2	2094	9.1	2011	11.04	96.0	95.0	Pass
41	PE 40+50 C	951.3	S	0.2	2094	9.1	2074	10.49	99.0	95.0	Pass
42	PE 41+00 US	951.3	S	0.2	2094	9.1	2034	10.17	97.1	95.0	Pass
43	PE 41+50 C	951.3	S	0.2	2094	9.1	2072	10.30	98.9	95.0	Pass
44	PE 40+00 US	951.3	S	0.2	2094	9.1	2002	11.18	95.6	95.0	Pass
45	PE 39+65 US	951.3	S	0.2	2094	9.1	2049	11.78	97.8	95.0	Pass
46	PE 39+10 DS	951.3	S	0.2	2094	9.1	1994	11.19	95.2	95.0	Pass
47	PE 39+10 US	951.3	S	0.2	2094	9.1	2060	11.65	98.4	95.0	Pass
48	PE 39+05 C	951.3	S	0.2	2094	9.1	2041	12.18	97.5	95.0	Pass
49	PE 38+65 C	951.3	S	0.2	2094	9.1	2047	10.27	97.7	95.0	Pass
50	PE 38+65 US	951.3	S	0.2	2094	9.1	2033	11.31	97.1	95.0	Pass
51	PE 38+50 C	951.3	S	0.2	2094	9.1	2001	11.14	95.5	95.0	Pass
52	PE 38+35 DS	951.3	S	0.2	2094	9.1	2026	11.30	96.7	95.0	Pass
53	PE 38+00 US	951.3	S	0.2	2094	9.1	2032	10.69	97.0	95.0	Pass
54	PE 37+75 DS	951.3	S	0.2	2094	9.1	2102	10.26	100.4	95.0	Pass
55	PE 37+65 C	951.3	S	0.2	2094	9.1	2035	10.90	97.2	95.0	Pass
56	PE 39+10 DS	951.3	S	0.2	2094	9.1	2034	9.79	97.1	95.0	Pass
57	PE 39+25 C	951.3	S	0.2	2094	9.1	2021	11.52	96.5	95.0	Pass
58	PE 39+50 C	951.3	S	0.2	2094	9.1	2057	10.82	98.2	95.0	Pass
59	PE 42+55 DS	951.6	S	0.2	2094	9.1	2026	8.86	96.7	95.0	Pass
60	PE 41+95 US	951.6	S	0.2	2094	9.1	2059	9.76	98.3	95.0	Pass
61	PE 41+75 US	951.6	S	0.2	2094	9.1	1997	9.88	95.4	95.0	Pass
62	PE 41+70 DS	951.6	S	0.2	2094	9.1	2087	9.31	99.6	95.0	Pass
63	PE 42+30 US	951.6	S	0.2	2094	9.1	2013	11.28	96.1	95.0	Pass
64	PE 36+90 US	951.3	S	0.2	2094	9.1	1999	8.96	95.4	95.0	Pass
65	PE 36+90 C	951.3	S	0.2	2094	9.1	1992	10.02	95.1	95.0	Pass
66	PE 36+35 C	951.3	S	0.2	2094	9.1	2008	9.68	95.9	95.0	Pass
67	PE 36+00 C	951.3	S	0.2	2094	9.1	2013	9.25	96.1	95.0	Pass
68	PE 36+00 DS	951.3	S	0.2	2094	9.1	2005	10.43	95.7	95.0	Pass
69	PE 36+00 US	951.3	S	0.2	2094	9.1	2034	9.16	97.1	95.0	Pass
70	PE 35+65 US	951.3	S	0.2	2094	9.1	2057	10.02	98.2	95.0	Pass
71	PE 35+40 US	951.3	S	0.2	2094	9.1	2040	9.77	97.4	95.0	Pass
72	PE 35+40 DS	951.3	S	0.2	2094	9.1	1996	10.59	95.3	95.0	Pass
73	PE 35+20 C	951.3	S	0.2	2094	9.1	2022	10.53	96.5	95.0	Pass
74	PE 35+00 US	951.3	S	0.2	2094	9.1	2008	9.60	95.9	95.0	Pass
75	PE 34+75 DS	951.3	S	0.2	2094	9.1	2009	11.61	95.9	95.0	Pass
76	PE 34+50 C	951.3	S	0.2	2094	9.1	2034	11.41	97.1	95.0	Pass
77	PE 34+30 US	951.3	S	0.2	2094	9.1	2037	10.97	97.3	95.0	Pass
78	PE 34+05 US	951.3	S	0.2	2094	9.1	2039	8.53	97.4	95.0	Pass
79	PE 33+75 US	951.3	S	0.2	2094	9.1	2011	10.16	96.0	95.0	Pass
80	PE 32+50 C	951.3	S	0.2	2094	9.1	2069	8.92	98.8	95.0	Pass
81	PE 32+25 US	951.3	S	0.2	2094	9.1	1992	10.32	95.1	95.0	Pass
82	ME 26+15 DS	951.0	S	0.2	2094	9.1	2009	10.46	95.9	95.0	Pass
83	ME 26+00 C	951.0	S	0.2	2094	9.1	2069	9.21	98.8	95.0	Pass
84	ME 24+50 US	951.0	S	0.2	2094	9.1	2017	11.60	96.3	95.0	Pass
85	ME 25+00 C	951.3	S	0.2	2094	9.1	2106	11.40	100.6	95.0	Pass

#N/A

RevD 4-Dec-08

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23

DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m³)	Optimum Moisture (%)	Dry Density (kg/m³)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
86	ME 26+00 C	951.3	S	0.2	2094	9.1	2009	10.07	95.9	95.0	Pass
87	ME 25+50 C	951.3	S	0.2	2094	9.1	2049	9.29	97.8	95.0	Pass
88	ME 24+50 DS	951.3	S	0.2	2094	9.1	2020	10.55	96.4	95.0	Pass
89	ME 24+15 C	951.0	S	0.2	2094	9.1	2006	10.72	95.8	95.0	Pass
90	ME 26+50 C	951.0	S	0.2	2094	9.1	2080	9.80	99.3	95.0	Pass
91	ME 24+25 C	951.3	S	0.2	2094	9.1	2006	11.07	95.8	95.0	Pass
92	ME 24+00 US	951.3	S	0.2	2094	9.1	2002	10.53	95.6	95.0	Pass
93	ME 23+75 US	951.3	S	0.2	2094	9.1	2056	9.69	98.2	95.0	Pass
94	ME 23+75 C	951.3	S	0.2	2094	9.1	2096	9.82	100.1	95.0	Pass
95	SE 06+00 C	951.3	S	0.2	2094	9.1	2049	10.59	97.8	95.0	Pass
96	SE 06+25 US	951.3	S	0.2	2094	9.1	2034	10.56	97.1	95.0	Pass
97	SE 06+50 US	951.3	S	0.2	2094	9.1	2072	11.01	98.9	95.0	Pass
98	SE 06+55 C	951.3	S	0.2	2094	9.1	1997	10.30	95.4	95.0	Pass
99	SE 06+75 DS	951.3	S	0.2	2094	9.1	2066	10.92	98.6	95.0	Pass
100	SE 07+25 US	951.3	S	0.2	2094	9.1	2244	8.83	107.1	95.0	Pass
101	SE 07+50 US	951.3	S	0.2	2094	9.1	2083	10.11	99.5	95.0	Pass
102	SE 07+75 C	951.3	S	0.2	2094	9.1	2006	10.24	95.8	95.0	Pass
103	SE 08+00 US	951.3	S	0.2	2094	9.1	2093	8.75	99.9	95.0	Pass
104	SE 08+25 DS	951.3	S	0.2	2094	9.1	2012	10.94	96.1	95.0	Pass
105	ME 23+75 C	951.6	S	0.2	2094	9.1	2101	9.65	100.3	95.0	Pass
106	ME 24+00 US	951.6	S	0.2	2094	9.1	2112	8.69	100.8	95.0	Pass
107	ME 24+50 DS	951.6	S	0.2	2094	9.1	2090	10.00	99.8	95.0	Pass
108	ME 25+00 C	951.6	S	0.2	2094	9.1	2081	7.76	99.4	95.0	Pass
109	ME 25+50 US	951.6	S	0.2	2094	9.1	2040	9.47	97.4	95.0	Pass
110	ME 26+00 DS	951.6	S	0.2	2094	9.1	2044	9.59	97.6	95.0	Pass
111	ME 26+75 C	951.6	S	0.2	2094	9.1	2081	8.51	99.4	95.0	Pass
112	SE 08+25 US	951.3	S	0.2	2094	9.1	2085	8.95	99.6	95.0	Pass
113	SE 08+50 C	951.3	S	0.2	2094	9.1	2125	8.98	101.5	95.0	Pass
114	SE 08+50 DS	951.3	S	0.2	2094	9.1	2078	9.47	99.2	95.0	Pass
115	SE 08+75 US	951.3	S	0.2	2094	9.1	2024	9.29	96.6	95.0	Pass
116	SE 08+80 C	951.3	S	0.2	2094	9.1	2008	10.05	95.9	95.0	Pass
117	SE 09+00 C	951.3	S	0.2	2094	9.1	2102	9.43	100.4	95.0	Pass
118	SE 09+25 US	951.3	S	0.2	2094	9.1	2044	9.15	97.6	95.0	Pass
119	SE 09+50 DS	951.3	S	0.2	2094	9.1	2121	9.11	101.3	95.0	Pass
120	SE 06+00 DS	951.6	S	0.2	2094	9.1	2101	9.18	100.3	95.0	Pass
121	SE 06+50 US	951.6	S	0.2	2094	9.1	2020	8.79	96.4	95.0	Pass
122	SE 07+00 C	951.6	S	0.2	2094	9.1	2069	9.10	98.8	95.0	Pass
123	SE 07+50 US	951.6	S	0.2	2094	9.1	2019	9.07	96.4	95.0	Pass
124	SE 08+00 C	951.6	S	0.2	2094	9.1	2058	9.37	98.3	95.0	Pass
125	SE 08+50 US	951.6	S	0.2	2094	9.1	2023	9.24	96.6	95.0	Pass
126	SE 08+75 C	951.6	S	0.2	2094	9.1	2036	9.51	97.2	95.0	Pass
127	SE 09+00 US	951.6	S	0.2	2094	9.1	2003	10.23	95.6	95.0	Pass
128	SE 08+50 C	951.6	S	0.2	2094	9.1	2015	9.60	96.2	95.0	Pass
129	PE 32+00 DS	951.3	S	0.2	2094	9.1	2097	10.33	100.1	95.0	Pass
130	PE 31+75 US	951.3	S	0.2	2094	9.1	2040	10.46	97.4	95.0	Pass
131	PE 31+25 C	951.3	S	0.2	2094	9.1	2019	8.85	96.4	95.0	Pass
132	PE 30+75 US	951.3	S	0.2	2094	9.1	2059	8.80	98.3	95.0	Pass
133	PE 30+25 C	951.3	S	0.2	2094	9.1	2048	8.47	97.8	95.0	Pass
134	PE 29+25 C	951.3	S	0.2	2094	9.1	2093	9.89	99.9	95.0	Pass
135	PE 28+75 US	951.3	S	0.2	2094	9.1	2006	9.59	95.8	95.0	Pass
136	PE 28+25 C	951.3	S	0.2	2094	9.1	2052	9.02	98.0	95.0	Pass
137	PE 28+00 US	951.3	S	0.2	2094	9.1	2061	10.09	98.4	95.0	Pass
138	ME 27+75 DS	951.3	S	0.2	2094	9.1	2014	9.49	96.2	95.0	Pass
139	ME 27+65 US	951.3	S	0.2	2094	9.1	2018	9.40	96.4	95.0	Pass
140	ME 27+30 C	951.3	S	0.2	2094	9.1	2107	9.07	100.6	95.0	Pass
141	ME 27+05 DS	951.3	S	0.2	2094	9.1	2237	7.00	106.8	95.0	Pass
142	ME 27+45 C	951.6	S	0.2	2094	9.1	2100	9.03	100.3	95.0	Pass
143	ME 27+75 US	951.6	S	0.2	2094	9.1	2025	7.95	96.7	95.0	Pass
144	PE 28+75 DS	951.6	S	0.2	2094	9.1	1997	8.75	95.4	95.0	Pass
145	PE 28+50 C	951.6	S	0.2	2094	9.1	2043	9.15	97.5	95.0	Pass
146	ME 23+50 C	951.3	S	0.2	2094	9.1	2037	10.99	97.3	95.0	Pass
147	ME 23+25 US	951.3	S	0.2	2094	9.1	2142	8.96	102.3	95.0	Pass
148	ME 23+00 DS	951.3	S	0.2	2094	9.1	2094	8.77	100.0	95.0	Pass
149	ME 22+75 US	951.3	S	0.2	2094	9.1	2060	9.44	98.4	95.0	Pass
150	ME 22+50 C	951.3	S	0.2	2094	9.1	2100	8.78	100.3	95.0	Pass
151	ME 22+25 US	951.3	S	0.2	2094	9.1	2030	9.79	96.9	95.0	Pass
152	ME 22+00 C	951.3	S	0.2	2094	9.1	2085	8.57	99.6	95.0	Pass
153	ME 24+50 C	951.6	S	0.2	2094	9.1	2024	10.76	96.6	95.0	Pass
154	PE 32+00 C	951.6	S	0.2	2094	9.1	2049	7.94	97.8	95.0	Pass
155	PE 31+25 US	951.6	S	0.2	2094	9.1	2036	7.53	97.2	95.0	Pass
156	PE 30+50 DS	951.6	S	0.2	2094	9.1	2009	7.99	95.9	95.0	Pass
157	PE 29+75 C	951.6	S	0.2	2094	9.1	2009	9.99	95.9	95.0	Pass
158	PE 29+25 US	951.6	S	0.2	2094	9.1	2022	9.45	96.5	95.0	Pass
159	ME 23+50 C	951.6	S	0.2	2094	9.1	2111	9.07	100.8	95.0	Pass
160	ME 23+25 US	951.6	S	0.2	2094	9.1	2076	9.56	99.1	95.0	Pass
161	ME 22+75 C	951.6	S	0.2	2094	9.1	2052	9.30	98.0	95.0	Pass
162	ME 22+50 US	951.6	S	0.2	2094	9.1	2092	9.02	99.9	95.0	Pass
163	ME 22+25 DS	951.6	S	0.2	2094	9.1	2070	9.07	98.8	95.0	Pass
164	ME 22+00 C	951.6	S	0.2	2094	9.1	2030	9.84	96.9	95.0	Pass
165	PE 33+25 C	951.6	S	0.2	2094	9.1	2035	7.29	97.2	95.0	Pass
166	PE 33+75 DS	951.6	S	0.2	2094	9.1	2108	7.41	100.7	95.0	Pass
167	PE 34+00 US	951.6	S	0.2	2094	9.1	2009	6.83	95.9	95.0	Pass
168	PE 34+50 C	951.6	S	0.2	2094	9.1	2082	6.92	99.4	95.0	Pass
169	PE 35+50 DS	951.6	S	0.2	2094	9.1	2063	7.46	98.5	95.0	Pass
170	PE 36+50 C	951.6	S	0.2	2094	9.1	2181	5.41	104.1	95.0	Pass
171	PE 37+25 US	951.6	S	0.2	2094	9.1	2023	6.58	96.6	95.0	Pass
172	PE 37+75 DS	951.6	S	0.2	2094	9.1	2140	6.28	102.2	95.0	Pass

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Rev'd 4-Dec-08

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23

DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m^3)	Optimum Moisture (%)	Dry Density (kg/m^3)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
173	PE 38+25 C	951.6	S	0.2	2094	9.1	2116	6.07	101.0	95.0	Pass
174	ME 21+75 C	951.3	S	0.2	2094	9.1	1998	9.09	95.4	95.0	Pass
175	ME 21+50 US	951.3	S	0.2	2094	9.1	2080	9.37	99.3	95.0	Pass
176	ME 21+25 DS	951.3	S	0.2	2094	9.1	2118	9.04	101.1	95.0	Pass
177	ME 21+00 US	951.3	S	0.2	2094	9.1	2069	9.63	98.8	95.0	Pass
178	SE 0+600 C	951.9	S	0.2	2094	9.1	2116	8.27	101.0	95.0	Pass
179	SE 0+650 DS	951.9	S	0.2	2094	9.1	2083	9.27	99.5	95.0	Pass
180	SE 0+700 US	951.9	S	0.2	2094	9.1	2121	9.19	101.3	95.0	Pass
181	SE 0+700 C	951.9	S	0.2	2094	9.1	2129	8.28	101.7	95.0	Pass
182	SE 0+750 DS	951.9	S	0.2	2094	9.1	2160	8.18	103.1	95.0	Pass
183	SE 0+800 US	951.9	S	0.2	2094	9.1	2068	9.33	98.7	95.0	Pass
184	SE 0+850 C	951.9	S	0.2	2094	9.1	2178	8.01	104.0	95.0	Pass
185	SE 0+900 US	951.9	S	0.2	2094	9.1	2063	7.29	98.5	95.0	Pass
186	SE 0+950 US	951.9	S	0.2	2094	9.1	2053	9.31	98.0	95.0	Pass
187	ME 2+175 US	952.0	S	0.2	2094	9.1	2087	11.0	99.6	95.0	Pass
188	ME 2+150 C	952.0	S	0.2	2094	9.1	2092	10.7	99.9	95.0	Pass
189	ME 2+125 US	952.0	S	0.2	2094	9.1	2094	10.3	100.0	95.0	Pass
190	ME 2+100 US	952.0	S	0.2	2094	9.1	2120	9.8	101.2	95.0	Pass
191	ME 2+075 US	951.9	S	0.2	2094	9.1	2003	11.64	95.6	95.0	Pass
192	ME 2+050 US	951.4	S	0.2	2094	9.1	2048	10.38	97.8	95.0	Pass
193	ME 2+025 US	951.4	S	0.2	2094	9.1	2065	10.1	98.6	95.0	Pass
194	ME 2+010 US	951.4	S	0.2	2094	9.1	2083	10.5	99.5	95.0	Pass
195	ME 2+000 DS	951.3	S	0.2	2094	9.1	2115	10.5	101.0	95.0	Pass
196	ME 1+975 C	951.3	S	0.2	2094	9.1	2017	10.73	96.3	95.0	Pass
197	ME 1+950 US	951.3	S	0.2	2094	9.1	2068	10.4	98.7	95.0	Pass
198	ME 1+920 C	951.3	S	0.2	2094	9.1	2042	11.04	97.5	95.0	Pass
199	ME 1+900 US	951.3	S	0.2	2094	9.1	2097	9.7	100.1	95.0	Pass
200	ME 1+875 DS	951.3	S	0.2	2094	9.1	2068	11.11	98.7	95.0	Pass
201	ME 1+850 C	951.3	S	0.2	2094	9.1	2070	9.6	98.8	95.0	Pass
202	ME 1+825 DS	951.3	S	0.2	2094	9.1	2013	10.0	96.1	95.0	Pass
203	ME 1+800 C	951.3	S	0.2	2094	9.1	2071	10.96	98.9	95.0	Pass
204	ME 1+775 DS	951.3	S	0.2	2094	9.1	2058	10.8	98.3	95.0	Pass
205	ME 1+750 US	951.3	S	0.2	2094	9.1	2053	10.0	98.0	95.0	Pass
206	ME 1+725 C	951.3	S	0.2	2094	9.1	2023	10.6	96.6	95.0	Pass
207	ME 1+700 US	951.3	S	0.2	2094	9.1	2043	10.46	97.5	95.0	Pass
208	ME 1+675 DS	951.3	S	0.2	2094	9.1	2101	9.7	100.3	95.0	Pass
209	ME 1+590 DS	951.3	S	0.2	2094	9.1	2108	9.99	100.7	95.0	Pass
210	ME 1+615 DS	951.3	S	0.2	2094	9.1	2136	9.1	102.0	95.0	Pass
211	ME 1+615 US	951.3	S	0.2	2094	9.1	2060	9.7	98.4	95.0	Pass
212	ME 1+650 DS	951.3	S	0.2	2094	9.1	2131	9.33	101.7	95.0	Pass
213	ME 2+065 C	951.9	S	0.2	2094	9.1	2116	9.7	101.0	95.0	Pass
214	ME 2+050 US	951.7	S	0.2	2094	9.1	2108	9.7	100.7	95.0	Pass
215	ME 2+025 C	951.7	S	0.2	2094	9.1	2106	10.2	100.6	95.0	Pass
216	ME 2+000 DS	951.7	S	0.2	2094	9.1	2120	9.7	101.2	95.0	Pass
217	ME 1+980 US	951.7	S	0.2	2094	9.1	2071	9.55	98.9	95.0	Pass
218	ME 1+980 C	951.7	S	0.2	2094	9.1	2088	10.3	99.7	95.0	Pass
219	ME 1+950 DS	951.9	S	0.2	2094	9.1	2113	9.5	100.9	95.0	Pass
220	ME 1+925 US	951.9	S	0.2	2094	9.1	2042	11.29	97.5	95.0	Pass
221	ME 1+900 US	951.9	S	0.2	2094	9.1	2060	10.6	98.4	95.0	Pass
222	ME 1+725 C	951.6	S	0.2	2094	9.1	2077	9.14	99.2	95.0	Pass
223	ME 1+750 US	951.6	S	0.2	2094	9.1	1997	10.0	95.4	95.0	Pass
224	ME 1+775 DS	951.6	S	0.2	2094	9.1	2010	10.4	96.0	95.0	Pass
225	ME 1+825 US	951.6	S	0.2	2094	9.1	2074	10.17	99.0	95.0	Pass
226	ME 1+850 DS	951.9	S	0.2	2094	9.1	2061	9.8	98.4	95.0	Pass
227	ME 1+875 C	951.9	S	0.2	2094	9.1	2045	11.31	97.6	95.0	Pass
228	ME 1+575 C	951.7	S	0.2	2094	9.1	1998	10.7	95.4	95.0	Pass
229	ME 1+600 US	951.7	S	0.2	2094	9.1	2081	9.72	99.4	95.0	Pass
230	ME 1+625 C	951.7	S	0.2	2094	9.1	2069	9.83	98.8	95.0	Pass
231	ME 1+675 C	951.7	S	0.2	2094	9.1	2033	9.32	97.1	95.0	Pass
232	ME 1+700 US	951.7	S	0.2	2094	9.1	2094	9.12	100.0	95.0	Pass
233	SE 0+975 C	951.6	S	0.2	2094	9.1	2159	7.2	103.1	95.0	Pass
234	SE 1+000 US	951.6	S	0.2	2094	9.1	2061	9.34	98.4	95.0	Pass
235	SE 1+025 DS	951.6	S	0.2	2094	9.1	2121	8.7	101.3	95.0	Pass
236	SE 1+050 C	951.6	S	0.2	2094	9.1	2136	9.03	102.0	95.0	Pass
237	SE 1+075 US	951.6	S	0.2	2094	9.1	2116	9.5	101.0	95.0	Pass
238	SE 1+100 DS	951.6	S	0.2	2094	9.1	2099	9.28	100.2	95.0	Pass
239	SE 1+125 C	951.6	S	0.2	2094	9.1	2082	9.98	99.4	95.0	Pass
240	SE 1+150 DS	951.6	S	0.2	2094	9.1	2086	9.0	99.6	95.0	Pass
241	SE 1+175 C	951.6	S	0.2	2094	9.1	2041	9.36	97.5	95.0	Pass
242	SE 0+975 US	951.9	S	0.2	2094	9.1	2065	10.24	98.6	95.0	Pass
243	SE 1+000 DS	951.9	S	0.2	2094	9.1	2103	9.8	100.4	95.0	Pass
244	SE 1+020 C	951.9	S	0.2	2094	9.1	2093	10.68	99.9	95.0	Pass
245	ME 1+575 DS	951.9	S	0.2	2094	9.1	2075	9.39	99.1	95.0	Pass
246	ME 1+600 US	951.9	S	0.2	2094	9.1	2078	9.42	99.2	95.0	Pass
247	ME 1+625 DS	951.9	S	0.2	2094	9.1	2089	9.3	99.7	95.0	Pass
248	ME 1+650 C	951.9	S	0.2	2094	9.1	2070	9.46	98.8	95.0	Pass
249	ME 1+675 DS	951.9	S	0.2	2094	9.1	2067	8.6	98.7	95.0	Pass
250	ME 1+700 C	951.9	S	0.2	2094	9.1	2075	9.62	99.1	95.0	Pass
251	ME 1+725 DS	951.9	S	0.2	2094	9.1	2042	9.7	97.5	95.0	Pass
252	ME 1+750 US	951.9	S	0.2	2094	9.1	2099	9.27	100.2	95.0	Pass
253	ME 1+775 C	951.9	S	0.2	2094	9.1	2131	8.9	101.7	95.0	Pass
254	ME 1+800 DS	951.9	S	0.2	2094	9.1	2135	8.65	101.9	95.0	Pass
255	ME 1+825 US	951.9	S	0.2	2094	9.1	2139	8.7	102.1	95.0	Pass
256	SE 1+050 C	951.9	S	0.2	2094	9.1	2147	8.57	102.5	95.0	Pass
257	SE 1+075 DS	951.9	S	0.2	2094	9.1	2051	9.9	97.9	95.0	Pass
258	SE 1+100 US	951.9	S	0.2	2094	9.1	2066	10.69	98.6	95.0	Pass
259	SE 1+125 C	951.9	S	0.2	2094	9.1	2110	9.5	100.7	95.0	Pass

#N/A

Rev'd 4-Dec-08

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23

DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m³)	Optimum Moisture (%)	Dry Density (kg/m³)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
260	SE 1+200 DS	951.7	S	0.2	2094	9.1	2150	9.1	102.7	95.0	Pass
261	SE 1+225 US	951.6	S	0.2	2094	9.1	2079	8.8	99.3	95.0	Pass
262	SE 1+275 C	951.6	S	0.2	2094	9.1	2102	10.2	100.4	95.0	Pass
263	SE 1+200 C	951.9	S	0.2	2094	9.1	2128	8.9	101.6	95.0	Pass
264	SE 1+250 US	951.9	S	0.2	2094	9.1	2079	9.5	99.3	95.0	Pass
265	SE 1+300 DS	951.9	S	0.2	2094	9.1	2074	10.1	99.0	95.0	Pass
266	PE 4+640 C	950.3	S	0.2	2094	9.1	2121	9.7	101.3	95.0	Pass
267	PE 4+670 C	950.3	S	0.2	2094	9.1	2095	10.6	100.0	95.0	Pass
268	PE 4+630 DS	950.6	S	0.2	2094	9.1	2077	10.4	99.2	95.0	Pass
269	PE 4+650 US	951.0	S	0.2	2094	9.1	2069	10.9	98.8	95.0	Pass
270	PE 4+630 DS	950.9	S	0.2	2094	9.1	2147	9.4	102.5	95.0	Pass
271	PE 4+660 C	953.3	S	0.2	2094	9.1	2102	10.2	100.4	95.0	Pass
272	PE 4+640 DS	951.2	S	0.2	2094	9.1	2061	10.7	98.4	95.0	Pass
273	PE 4+670 C	951.2	S	0.2	2094	9.1	2122	10.3	101.3	95.0	Pass
274	PE 4+630 DS	951.9	S	0.2	2094	9.1	2095	10.4	100.0	95.0	Pass
275	PE 4+650 C	951.8	S	0.2	2094	9.1	2127	9.2	101.6	95.0	Pass
276	PE 4+630 C	951.9	S	0.2	2094	9.1	2080	10.7	99.3	95.0	Pass
277	ME 26+00 W	951.3	S	0.2	2094	9.1	2029	7.5	96.9	95.0	Pass
278	ME 25+75 W	951.3	S	0.2	2094	9.1	2026	6.8	96.7	95.0	Pass
279	ME 25+50 W	951.3	S	0.2	2094	9.1	2089	8.1	99.7	95.0	Pass
280	ME 25+25 W	951.3	S	0.2	2094	9.1	2039	8.9	97.4	95.0	Pass
281	ME 25+25 C	951.9	S	0.2	2094	9.1	2015	5.5	96.2	95.0	Pass
282	ME 25+00 W	951.3	S	0.2	2094	9.1	2016	10.4	96.3	95.0	Pass
283	ME 24+75 W	951.3	S	0.2	2094	9.1	2039	8.2	97.4	95.0	Pass
284	ME 24+75 US	951.9	S	0.2	2094	9.1	2043	7.3	97.5	95.0	Pass
285	ME 24+50 W	951.3	S	0.2	2094	9.1	2100	7.9	100.3	95.0	Pass
286	ME 24+25 W	951.3	S	0.2	2094	9.1	2145	8.4	102.4	95.0	Pass
287	ME 24+25 C	951.3	S	0.2	2094	9.1	2085	6.9	99.6	95.0	Pass
288	ME 23+25 C	951.6	S	0.2	2094	9.1	2066	7.0	98.6	95.0	Pass
289	ME 22+75 C	951.6	S	0.2	2094	9.1	2095	6.7	100.0	95.0	Pass
290	ME 23+00 W	951.3	S	0.2	2094	9.1	2044	8.4	97.6	95.0	Pass
291	ME 23+25 W	951.3	S	0.2	2094	9.1	1991	7.1	95.1	95.0	Pass
292	ME 23+75 W	951.3	S	0.2	2094	9.1	2032	9.7	97.0	95.0	Pass
293	ME 26+25 W	951.3	S	0.2	2094	9.1	2051	7.7	97.9	95.0	Pass
294	ME 26+25 C	951.9	S	0.2	2094	9.1	2064	5.5	98.5	95.0	Pass
295	ME 26+50 W	951.3	S	0.2	2094	9.1	2036	7.2	97.2	95.0	Pass
296	ME 26+75 W	951.3	S	0.2	2094	9.1	1994	8.0	95.2	95.0	Pass
297	ME 27+25 US	951.6	S	0.2	2094	9.1	2083	6.8	99.5	95.0	Pass
298	PE 28+25 C	951.9	S	0.2	2094	9.1	2039	6.0	97.4	95.0	Pass
299	PE 28+75 DS	951.9	S	0.2	2094	9.1	2180	5.9	104.1	95.0	Pass
300	PE 29+25 C	951.9	S	0.2	2094	9.1	1992	5.2	95.1	95.0	Pass
301	PE 29+75 US	951.9	S	0.2	2094	9.1	2006	6.6	95.8	95.0	Pass
302	PE 30+25 DS	951.9	S	0.2	2094	9.1	2134	5.9	101.9	95.0	Pass
303	PE 30+75 C	951.9	S	0.2	2094	9.1	2056	6.5	98.2	95.0	Pass
304	PE 31+25 US	951.9	S	0.2	2094	9.1	2118	7.2	101.1	95.0	Pass
305	PE 31+75 C	951.9	S	0.2	2094	9.1	2128	6.5	101.6	95.0	Pass
306	PE 32+25 US	951.9	S	0.2	2094	9.1	2118	7.2	101.1	95.0	Pass
307	PE 32+75 US	951.9	S	0.2	2094	9.1	2010	6.9	96.0	95.0	Pass
308	PE 33+25 DS	951.9	S	0.2	2094	9.1	2102	6.5	100.4	95.0	Pass
309	PE 33+75 C	951.9	S	0.2	2094	9.1	2141	5.8	102.2	95.0	Pass
310	PE 34+25 C	951.9	S	0.2	2094	9.1	2036	6.1	97.2	95.0	Pass
311	PE 35+00 C	951.9	S	0.2	2094	9.1	2092	6.4	99.9	95.0	Pass
312	PE 35+75 US	951.9	S	0.2	2094	9.1	2080	5.8	99.3	95.0	Pass
313	PE 36+50 DS	951.9	S	0.2	2094	9.1	2034	7.0	97.1	95.0	Pass
314	PE 38+00 C	951.6	S	0.2	2094	9.1	2171	5.7	103.7	95.0	Pass
315	PE 38+75 US	951.6	S	0.2	2094	9.1	2004	6.7	95.7	95.0	Pass
316	PE 39+50 C	951.6	S	0.2	2094	9.1	2145	6.4	102.4	95.0	Pass
317	PE 41+00 C	951.6	S	0.2	2094	9.1	2128	6.1	101.6	95.0	Pass
318	PE 41+75 DS	951.6	S	0.2	2094	9.1	2067	7.0	98.7	95.0	Pass
319	PE 42+50 US	951.6	S	0.2	2094	9.1	2109	7.0	100.7	95.0	Pass
320	PE 43+00 C	951.6	S	0.2	2094	9.1	2086	6.6	99.6	95.0	Pass
321	PE 43+75 US	951.6	S	0.2	2094	9.1	2096	6.0	100.1	95.0	Pass
322	PE 44+50 DS	951.6	S	0.2	2094	9.1	2064	6.6	98.5	95.0	Pass
323	PE 45+25 C	951.6	S	0.2	2094	9.1	2063	6.0	98.5	95.0	Pass
324	PE 46+00 C	951.6	S	0.2	2094	9.1	2099	5.8	100.2	95.0	Pass
325	ME 22+50 US	951.9	S	0.2	2094	9.1	2142	5.6	102.3	95.0	Pass
326	ME 22+00 C	951.9	S	0.2	2094	9.1	2186	5.2	104.4	95.0	Pass
327	ME 22+00 W	951.3	S	0.2	2094	9.1	2043	6.2	97.5	95.0	Pass
328	ME 22+25 W	951.3	S	0.2	2094	9.1	2115	7.9	101.0	95.0	Pass
329	ME 22+50 W	951.3	S	0.2	2094	9.1	2001	6.2	95.5	95.0	Pass
330	ME 22+75 W	951.3	S	0.2	2094	9.1	2082	8.3	99.4	95.0	Pass
331	ME 26+75 W	951.6	S	0.2	2094	9.1	2030	8.0	96.9	95.0	Pass
332	ME 26+50 W	951.6	S	0.2	2094	9.1	2102	7.8	100.4	95.0	Pass
333	ME 26+00 W	951.6	S	0.2	2094	9.1	2119	8.1	101.2	95.0	Pass
334	ME 25+50 W	951.6	S	0.2	2094	9.1	2093	8.0	99.9	95.0	Pass
335	ME 25+00 W	951.6	S	0.2	2094	9.1	2046	7.4	97.7	95.0	Pass
336	ME 24+50 W	951.6	S	0.2	2094	9.1	2077	8.0	99.2	95.0	Pass
337	ME 24+00 W	951.6	S	0.2	2094	9.1	2015	9.9	96.2	95.0	Pass
338	ME 23+50 W	951.6	S	0.2	2094	9.1	2105	9.9	100.5	95.0	Pass
339	ME 22+00 W	951.6	S	0.2	2094	9.1	2063	9.9	98.5	95.0	Pass
340	ME 21+50 W	951.6	S	0.2	2094	9.1	2062	7.3	98.5	95.0	Pass
341	ME 22+50 W	951.6	S	0.2	2094	9.1	2068	9.5	98.7	95.0	Pass
342	ME 23+00 W	951.6	S	0.2	2094	9.1	2023	10.0	96.6	95.0	Pass
343	ME 26+25 US	951.9	S	0.2	2094	9.1	1995	10.2	95.3	95.0	Pass
344	ME 25+50 C	951.9	S	0.2	2094	9.1	2049	9.0	97.8	95.0	Pass
345	ME 25+00 C	951.9	S	0.2	2094	9.1	2053	8.2	98.0	95.0	Pass
346	ME 24+50 DS	951.9	S	0.2	2094	9.1	2032	8.5	97.0	95.0	Pass

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23
DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m^3)	Optimum Moisture (%)	Dry Density (kg/m^3)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
347	ME 24+00 C	951.9	S	0.2	2094	9.1	2057	7.7	98.2	95.0	Pass
348	ME 23+50 C	951.9	S	0.2	2094	9.1	2103	8.7	100.4	95.0	Pass
349	ME 23+00 DS	951.9	S	0.2	2094	9.1	2001	9.0	95.5	95.0	Pass
350	ME 22+50 DS	951.9	S	0.2	2094	9.1	2009	10.0	95.9	95.0	Pass
351	ME 21+50 DS	951.9	S	0.2	2094	9.1	2128	9.5	101.6	95.0	Pass
352	ME 21+00 C	951.9	S	0.2	2094	9.1	2037	9.0	97.3	95.0	Pass
353	ME 26+25 C	952.2	S	0.2	2094	9.1	2006	8.6	95.8	95.0	Pass
354	ME 25+50 US	952.2	S	0.2	2094	9.1	2160	5.4	103.1	95.0	Pass
355	ME 25+00 DS	952.2	S	0.2	2094	9.1	2048	10.2	97.8	95.0	Pass
356	ME 24+50 C	952.2	S	0.2	2094	9.1	2056	9.1	98.2	95.0	Pass
357	ME 24+00 US	952.2	S	0.2	2094	9.1	2023	9.4	96.6	95.0	Pass
358	ME 23+50 DS	952.2	S	0.2	2094	9.1	2054	9.4	98.1	95.0	Pass
359	ME 23+00 C	952.2	S	0.2	2094	9.1	2052	10.4	98.0	95.0	Pass
360	ME 22+50 C	952.2	S	0.2	2094	9.1	2057	10.2	98.2	95.0	Pass
361	ME 21+50 C	952.2	S	0.2	2094	9.1	2070	8.4	98.8	95.0	Pass
362	ME 21+00 US	952.2	S	0.2	2094	9.1	1995	10.0	95.3	95.0	Pass
363	SE 13+25 US	951.3	S	0.2	2094	9.1	2062	9.7	98.5	95.0	Pass
364	SE 13+50 DS	951.3	S	0.2	2094	9.1	1990	9.8	95.0	95.0	Pass
365	SE 13+75 C	951.3	S	0.2	2094	9.1	2099	8.7	100.2	95.0	Pass
366	SE 14+00 US	951.3	S	0.2	2094	9.1	2050	9.7	97.9	95.0	Pass
367	SE 14+25 C	951.3	S	0.2	2094	9.1	2069	11.3	98.8	95.0	Pass
368	SE 14+50 DS	951.3	S	0.2	2094	9.1	2052	10.5	98.0	95.0	Pass
369	ME 26+25 C	952.5	S	0.2	2094	9.1	2063	8.5	98.5	95.0	Pass
370	ME 25+50 US	952.5	S	0.2	2094	9.1	2103	7.8	100.4	95.0	Pass
371	ME 25+00 DS	952.5	S	0.2	2094	9.1	2043	8.9	97.5	95.0	Pass
372	ME 24+50 C	952.5	S	0.2	2094	9.1	2062	9.8	98.5	95.0	Pass
373	ME 24+00 US	952.5	S	0.2	2094	9.1	2067	7.5	98.7	95.0	Pass
374	ME 23+50 DS	952.5	S	0.2	2094	9.1	2076	9.2	99.1	95.0	Pass
375	SE 13+25 US	951.6	S	0.2	2094	9.1	2083	8.2	99.5	95.0	Pass
376	SE 13+75 DS	951.6	S	0.2	2094	9.1	2058	7.1	98.3	95.0	Pass
377	SE 14+25 C	951.6	S	0.2	2094	9.1	2061	7.2	98.4	95.0	Pass
378	SE 14+75 US	951.6	S	0.2	2094	9.1	2119	8.2	101.2	95.0	Pass
379	SE 15+25 C	951.6	S	0.2	2094	9.1	2116	6.5	101.0	95.0	Pass
380	ME 15+50 DS	951.6	S	0.2	2094	9.1	2097	8.2	100.1	95.0	Pass
381	ME 23+00 C	952.5	S	0.2	2094	9.1	2159	8.1	103.1	95.0	Pass
382	ME 22+50 US	952.5	S	0.2	2094	9.1	2069	8.5	98.8	95.0	Pass
383	ME 22+00 C	952.5	S	0.2	2094	9.1	2059	8.1	98.3	95.0	Pass
384	ME 21+50 US	952.5	S	0.2	2094	9.1	2054	10.1	98.1	95.0	Pass
385	ME 21+00 DS	952.5	S	0.2	2094	9.1	2066	10.2	98.6	95.0	Pass
386	SE 6+25 C	951.6	S	0.2	2094	9.1	2089	10.1	99.7	95.0	Pass
387	ME 26+25 US	952.8	S	0.2	2094	9.1	2152	7.1	102.8	95.0	Pass
388	ME 25+50 C	952.8	S	0.2	2094	9.1	2064	7.2	98.5	95.0	Pass
389	ME 25+00 DS	952.8	S	0.2	2094	9.1	2064	8.8	98.5	95.0	Pass
390	ME 24+50 C	952.8	S	0.2	2094	9.1	2189	7.6	104.5	95.0	Pass
391	ME 24+00 US	952.8	S	0.2	2094	9.1	2111	8.4	100.8	95.0	Pass
392	ME 23+50 C	952.8	S	0.2	2094	9.1	2082	7.9	99.4	95.0	Pass
393	ME 23+00 US	952.8	S	0.2	2094	9.1	2063	9.7	98.5	95.0	Pass
394	SE 6+15 DS	951.7	S	0.2	2094	9.1	2066	10.0	98.6	95.0	Pass
395	SE 6+00 C	953.2	S	0.2	2094	9.1	2042	10.6	97.5	95.0	Pass
396	ME 22+50 C	952.8	S	0.2	2094	9.1	2207	7.5	105.4	95.0	Pass
397	ME 22+00 US	952.8	S	0.2	2094	9.1	2047	8.0	97.7	95.0	Pass
398	ME 21+50 DS	952.8	S	0.2	2094	9.1	2054	9.1	98.1	95.0	Pass
399	ME 21+00 C	952.8	S	0.2	2094	9.1	2080	8.9	99.3	95.0	Pass
400	SE 6+10 C	952.0	S	0.2	2094	9.1	2073	9.5	99.0	95.0	Pass
401	SE 6+00 US	953.5	S	0.2	2094	9.1	2008	10.1	95.9	95.0	Pass
402	ME 26+25 US	953.1	S	0.2	2094	9.1	2077	9.2	99.2	95.0	Pass
403	ME 25+75 C	953.1	S	0.2	2094	9.1	2083	9.3	99.5	95.0	Pass
404	ME 25+25 C	953.1	S	0.2	2094	9.1	2080	8.9	99.3	95.0	Pass
405	ME 24+50 C	953.1	S	0.2	2094	9.1	2063	10.5	98.5	95.0	Pass
406	ME 24+00 DS	953.1	S	0.2	2094	9.1	2062	10.1	98.5	95.0	Pass
407	ME 23+50 C	953.1	S	0.2	2094	9.1	2024	11.5	96.6	95.0	Pass
408	ME 23+00 US	953.1	S	0.2	2094	9.1	2102	10.6	100.4	95.0	Pass
409	ME 27+25 W	951.3	S	0.2	2094	9.1	2033	10.2	97.1	95.0	Pass
410	ME 27+75 W	951.3	S	0.2	2094	9.1	2076	7.4	99.1	95.0	Pass
411	ME 28+00 W	951.3	S	0.2	2094	9.1	2021	9.0	96.5	95.0	Pass
412	PE 28+25 W	951.3	S	0.2	2094	9.1	2035	9.2	97.2	95.0	Pass
413	PE 28+50 W	951.3	S	0.2	2094	9.1	2003	10.2	95.6	95.0	Pass
414	PE 28+95 W	951.3	S	0.2	2094	9.1	2089	8.8	99.7	95.0	Pass
415	PE 29+50 W	951.3	S	0.2	2094	9.1	2026	9.8	96.7	95.0	Pass
416	ME 27+25 W	951.6	S	0.2	2094	9.1	1995	10.0	95.3	95.0	Pass
417	ME 27+00 W	951.6	S	0.2	2094	9.1	2092	9.2	99.9	95.0	Pass
418	ME 27+75 W	951.6	S	0.2	2094	9.1	2038	9.8	97.3	95.0	Pass
419	PE 28+25 W	951.6	S	0.2	2094	9.1	2114	9.0	100.9	95.0	Pass
420	PE 28+50 W	951.6	S	0.2	2094	9.1	2024	10.6	96.6	95.0	Pass
421	PE 29+00 W	951.6	S	0.2	2094	9.1	1998	10.6	95.4	95.0	Pass
422	PE 29+50 W	951.6	S	0.2	2094	9.1	2038	10.1	97.3	95.0	Pass
423	ME 22+50 C	953.1	S	0.2	2094	9.1	2052	8.8	98.0	95.0	Pass
424	ME 22+00 DS	953.1	S	0.2	2094	9.1	2031	9.3	97.0	95.0	Pass
425	ME 21+50 US	953.1	S	0.2	2094	9.1	2053	10.0	98.0	95.0	Pass
426	ME 21+00 C	953.1	S	0.2	2094	9.1	2045	8.5	97.6	95.0	Pass
427	PE 29+00 W	951.9	S	0.2	2094	9.1	2075	9.6	99.1	95.0	Pass
428	PE 28+50 W	951.9	S	0.2	2094	9.1	2098	8.4	100.2	95.0	Pass
429	PE 28+00 W	951.9	S	0.2	2094	9.1	2075	10.1	99.1	95.0	Pass
430	ME 27+25 W	951.9	S	0.2	2094	9.1	2086	9.1	99.6	95.0	Pass
431	ME 26+75 W	953.6	S	0.2	2094	9.1	2061	9.6	98.4	95.0	Pass
432	ME 26+00 C	953.6	S	0.2	2094	9.1	2040	11.2	97.4	95.0	Pass
433	ME 25+50 DS	953.6	S	0.2	2094	9.1	2077	9.7	99.2	95.0	Pass

#N/A

Rev'd 4-Dec-08

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23

DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m³)	Optimum Moisture (%)	Dry Density (kg/m³)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
434	ME 25+00 US	953.6	S	0.2	2094	9.1	2101	10.1	100.3	95.0	Pass
435	ME 24+50 DS	953.6	S	0.2	2094	9.1	2068	10.2	98.7	95.0	Pass
436	ME 24+00 C	953.6	S	0.2	2094	9.1	2098	9.5	100.2	95.0	Pass
437	ME 23+50 US	953.6	S	0.2	2094	9.1	2043	10.2	97.5	95.0	Pass
438	ME 23+00 C	953.6	S	0.2	2094	9.1	2038	10.5	97.3	95.0	Pass
439	PE 31+00 W	952.6	S	0.2	2094	9.1	2009	10.6	95.9	95.0	Pass
440	PE 30+50 W	952.3	S	0.2	2094	9.1	2094	9.5	100.0	95.0	Pass
441	PE 30+00 W	952.3	S	0.2	2094	9.1	2170	8.1	103.6	95.0	Pass
442	ME 26+75 US	952.2	S	0.2	2094	9.1	2112	9.3	100.8	95.0	Pass
443	ME 27+25 DS	952.2	S	0.2	2094	9.1	2091	8.9	99.8	95.0	Pass
444	ME 27+75 US	952.2	S	0.2	2094	9.1	2035	10.0	97.2	95.0	Pass
445	PE 28+25 C	952.2	S	0.2	2094	9.1	2052	9.6	98.0	95.0	Pass
446	PE 28+75 C	952.2	S	0.2	2094	9.1	2071	10.3	98.9	95.0	Pass
447	PE 29+25 US	952.2	S	0.2	2094	9.1	2120	9.3	101.2	95.0	Pass
448	PE 29+50 W	951.6	S	0.2	2094	9.1	2048	10.0	97.8	95.0	Pass
449	PE 30+00 W	951.6	S	0.2	2094	9.1	2050	10.9	97.9	95.0	Pass
450	PE 30+50 W	951.6	S	0.2	2094	9.1	2037	10.8	97.3	95.0	Pass
451	ME 22+75 US	953.6	S	0.2	2094	9.1	2100	9.9	100.3	95.0	Pass
452	ME 22+25 C	953.6	S	0.2	2094	9.1	2103	9.1	100.4	95.0	Pass
453	ME 21+75 DS	953.6	S	0.2	2094	9.1	2085	9.3	99.6	95.0	Pass
454	ME 21+25 US	953.6	S	0.2	2094	9.1	2086	10.1	99.6	95.0	Pass
455	PE 31+50 W	952.0	S	0.2	2094	9.1	2069	10.9	98.8	95.0	Pass
456	PE 31+00 W	952.0	S	0.2	2094	9.1	2111	9.6	100.8	95.0	Pass
457	PE 30+50 W	952.0	S	0.2	2094	9.1	2158	10.4	103.0	95.0	Pass
458	PE 30+00 W	952.0	S	0.2	2094	9.1	2064	11.1	98.5	95.0	Pass
459	ME 26+75 C	952.6	S	0.2	2094	9.1	2028	11.4	96.8	95.0	Pass
460	PE 27+25 DS	952.6	S	0.2	2094	9.1	2014	10.6	96.2	95.0	Pass
461	PE 27+75 DS	952.6	S	0.2	2094	9.1	2049	11.5	97.8	95.0	Pass
462	PE 28+25 C	952.6	S	0.2	2094	9.1	2046	10.8	97.7	95.0	Pass
463	PE 29+50 C	952.3	S	0.2	2094	9.1	2037	12.0	97.3	95.0	Pass
464	PE 30+00 C	952.3	S	0.2	2094	9.1	2049	10.3	97.8	95.0	Pass
465	PE 30+50 DS	952.3	S	0.2	2094	9.1	2049	10.4	97.8	95.0	Pass
466	PE 31+00 US	952.3	S	0.2	2094	9.1	2077	9.9	99.2	95.0	Pass
467	PE 28+75 C	952.6	S	0.2	2094	9.1	2026	9.8	96.7	95.0	Pass
468	PE 29+15 C	952.6	S	0.2	2094	9.1	2043	10.2	97.5	95.0	Pass
469	PE 31+40 C	952.3	S	0.2	2094	9.1	2046	11.1	97.7	95.0	Pass
470	PE 31+25 US	952.3	S	0.2	2094	9.1	2041	11.7	97.5	95.0	Pass
471	PE 30+75 C	952.3	S	0.2	2094	9.1	2013	11.2	96.1	95.0	Pass
472	PE 30+25 US	952.3	S	0.2	2094	9.1	2024	11.8	96.6	95.0	Pass
473	PE 29+75 US	952.3	S	0.2	2094	9.1	2058	11.1	98.3	95.0	Pass
474	ME 26+50 W	951.3	S	0.2	2094	9.1	2079	8.5	99.3	95.0	Pass
475	PE 35+50 W	951.3	S	0.2	2094	9.1	2132	9.4	101.8	95.0	Pass
476	PE 34+50 US	951.3	S	0.2	2094	9.1	2156	8.5	102.9	95.0	Pass
477	PE 33+50 W	951.3	S	0.2	2094	9.1	2018	9.5	96.4	95.0	Pass
478	PE 32+75 W	951.3	S	0.2	2094	9.1	2008	8.8	95.9	95.0	Pass
479	PE 32+00 W	951.3	S	0.2	2094	9.1	2128	8.4	101.6	95.0	Pass
480	PE 28+25 US	952.7	S	0.2	2094	9.1	2072	9.7	98.9	95.0	Pass
481	PE 28+00 DS	952.7	S	0.2	2094	9.1	2071	9.8	98.9	95.0	Pass
482	ME 27+50 C	952.7	S	0.2	2094	9.1	2114	9.3	100.9	95.0	Pass
483	ME 26+90 C	952.7	S	0.2	2094	9.1	2113	8.1	100.9	95.0	Pass
484	PE 28+65 DS	952.7	S	0.2	2094	9.1	1995	12.2	95.3	95.0	Pass
485	PE 28+65 C	952.7	S	0.2	2094	9.1	2013	11.1	96.1	95.0	Pass
486	PE 29+50 US	952.7	S	0.2	2094	9.1	2047	9.8	97.7	95.0	Pass
487	PE 30+90 US	952.6	S	0.2	2094	9.1	2049	9.6	97.8	95.0	Pass
488	PE 30+25 C	952.6	S	0.2	2094	9.1	2005	10.8	95.7	95.0	Pass
489	PE 29+75 US	952.9	S	0.2	2094	9.1	2037	11.4	97.3	95.0	Pass
490	PE 29+00 DS	952.9	S	0.2	2094	9.1	2001	10.6	95.5	95.0	Pass
491	PE 31+40 DS	952.9	S	0.2	2094	9.1	2068	9.6	98.7	95.0	Pass
492	PE 31+75 W	952.9	S	0.2	2094	9.1	2038	10.0	97.3	95.0	Pass
493	PE 32+50 W	952.9	S	0.2	2094	9.1	2051	10.1	97.9	95.0	Pass
494	PE 33+00 W	952.9	S	0.2	2094	9.1	2062	8.8	98.5	95.0	Pass
495	PE 33+75 W	952.9	S	0.2	2094	9.1	2116	8.0	101.0	95.0	Pass
496	PE 34+25 W	951.9	S	0.2	2094	9.1	2018	10.7	96.4	95.0	Pass
497	PE 35+00 W	951.9	S	0.2	2094	9.1	2112	8.6	100.8	95.0	Pass
498	ME 26+75 C	953.2	S	0.2	2094	9.1	2046	10.3	97.7	95.0	Pass
499	ME 27+25 US	953.2	S	0.2	2094	9.1	2036	10.1	97.2	95.0	Pass
500	ME 27+75 US	953.2	S	0.2	2094	9.1	2039	10.4	97.4	95.0	Pass
501	PE 28+25 US	953.2	S	0.2	2094	9.1	2050	10.4	97.9	95.0	Pass
502	PE 28+75 DS	953.2	S	0.2	2094	9.1	2105	9.3	100.5	95.0	Pass
503	PE 29+25 C	953.2	S	0.2	2094	9.1	2067	9.6	98.7	95.0	Pass
504	PE 29+75 DS	953.2	S	0.2	2094	9.1	2045	10.9	97.6	95.0	Pass
505	PE 30+25 C	953.2	S	0.2	2094	9.1	2079	10.1	99.3	95.0	Pass
506	PE 31+40 US	953.0	S	0.2	2094	9.1	2065	10.3	98.6	95.0	Pass
507	PE 31+00 DS	953.0	S	0.2	2094	9.1	2058	10.4	98.3	95.0	Pass
508	PE 30+50 C	953.0	S	0.2	2094	9.1	2093	9.9	99.9	95.0	Pass
509	ME 26+70 US	953.3	S	0.2	2094	9.1	2122	8.6	101.3	95.0	Pass
510	ME 27+25 DS	953.3	S	0.2	2094	9.1	2035	10.9	97.2	95.0	Pass
511	ME 27+75 US	953.3	S	0.2	2094	9.1	2010	9.7	96.0	95.0	Pass
512	PE 28+25 C	953.5	S	0.2	2094	9.1	2096	8.0	100.1	95.0	Pass
513	PE 28+75 US	953.5	S	0.2	2094	9.1	2005	11.4	95.7	95.0	Pass
514	PE 29+00 C	953.5	S	0.2	2094	9.1	2065	9.2	98.6	95.0	Pass
515	PE 30+50 C	953.3	S	0.2	2094	9.1	2067	10.4	98.7	95.0	Pass
516	PE 30+00 US	953.3	S	0.2	2094	9.1	2016	12.6	96.3	95.0	Pass
517	PE 29+50 DS	953.3	S	0.2	2094	9.1	2052	9.7	98.0	95.0	Pass
518	PE 31+25 US	953.3	S	0.2	2094	9.1	2075	9.9	99.1	95.0	Pass
519	ME 26+50 DS	953.0	S	0.2	2094	9.1	2049	10.2	97.8	95.0	Pass
520	ME 27+50 DS	953.7	S	0.2	2094	9.1	2080	9.1	99.3	95.0	Pass

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23
DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m³)	Optimum Moisture (%)	Dry Density (kg/m³)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
521	PE 28+00 US	953.7	S	0.2	2094	9.1	2006	10.6	95.8	95.0	Pass
522	PE 28+50 C	953.7	S	0.2	2094	9.1	2067	10.2	98.7	95.0	Pass
523	PE 37+50 W	951.3	S	0.2	2094	9.1	2144	8.0	102.4	95.0	Pass
524	PE 37+00 W	951.3	S	0.2	2094	9.1	2128	7.6	101.6	95.0	Pass
525	PE 36+50 W	951.3	S	0.2	2094	9.1	2034	7.7	97.1	95.0	Pass
526	PE 36+25 W	951.3	S	0.2	2094	9.1	2115	8.3	101.0	95.0	Pass
527	PE 35+50 W	951.6	S	0.2	2094	9.1	2103	8.6	100.4	95.0	Pass
528	PE 35+00 W	951.9	S	0.2	2094	9.1	2057	10.1	98.2	95.0	Pass
529	PE 34+75 W	951.9	S	0.2	2094	9.1	2052	9.8	98.0	95.0	Pass
530	PE 35+50 W	951.9	S	0.2	2094	9.1	2040	10.0	97.4	95.0	Pass
531	PE 31+25 C	953.6	S	0.2	2094	9.1	2062	9.5	98.5	95.0	Pass
532	PE 30+75 US	953.6	S	0.2	2094	9.1	2021	9.2	96.5	95.0	Pass
533	PE 30+25 DS	953.6	S	0.2	2094	9.1	2078	9.6	99.2	95.0	Pass
534	PE 29+15 US	953.9	S	0.2	2094	9.1	2071	8.4	98.9	95.0	Pass
535	PE 28+50 DS	953.9	S	0.2	2094	9.1	2032	9.3	97.0	95.0	Pass
536	PE 32+00 W	952.1	S	0.2	2094	9.1	2105	9.3	100.5	95.0	Pass
537	PE 32+35 W	952.1	S	0.2	2094	9.1	2064	10.5	98.5	95.0	Pass
538	PE 36+50 W	951.9	S	0.2	2094	9.1	2060	10.4	98.4	95.0	Pass
539	PE 37+00 W	951.9	S	0.2	2094	9.1	2078	9.8	99.2	95.0	Pass
540	PE 36+25 W	952.3	S	0.2	2094	9.1	2053	10.4	98.0	95.0	Pass
541	PE 35+75 W	951.9	S	0.2	2094	9.1	2051	11.1	97.9	95.0	Pass
542	PE 35+25 W	952.3	S	0.2	2094	9.1	2049	11.2	97.8	95.0	Pass
543	PE 34+65 W	952.3	S	0.2	2094	9.1	2052	9.4	98.0	95.0	Pass
544	PE 33+25 W	952.2	S	0.2	2094	9.1	2028	9.6	96.8	95.0	Pass
545	PE 32+75 W	952.3	S	0.2	2094	9.1	2004	9.9	95.7	95.0	Pass
546	ME 26+75 C	953.6	S	0.2	2094	9.1	2117	8.3	101.1	95.0	Pass
547	ME 26+90 C	953.6	S	0.2	2094	9.1	2052	10.1	98.0	95.0	Pass
548	ME 27+40 DS	953.6	S	0.2	2094	9.1	2082	8.9	99.4	95.0	Pass
549	PE 31+75 C	953.2	S	0.2	2094	9.1	2063	9.5	98.5	95.0	Pass
550	PE 32+25 C	953.2	S	0.2	2094	9.1	2072	9.4	98.9	95.0	Pass
551	PE 33+00 US	953.2	S	0.2	2094	9.1	2023	11.3	96.6	95.0	Pass
552	PE 33+50 DS	953.2	S	0.2	2094	9.1	2019	11.0	96.4	95.0	Pass
553	PE 34+00 C	952.3	S	0.2	2094	9.1	2032	10.9	97.0	95.0	Pass
554	PE 34+50 US	952.3	S	0.2	2094	9.1	2005	11.0	95.7	95.0	Pass
555	PE 37+75 W	951.3	S	0.2	2094	9.1	2085	9.0	99.6	95.0	Pass
556	PE 38+25 W	951.3	S	0.2	2094	9.1	2083	7.5	99.5	95.0	Pass
557	PE 38+75 W	951.3	S	0.2	2094	9.1	2067	9.7	98.7	95.0	Pass
558	PE 39+25 W	951.3	S	0.2	2094	9.1	2077	9.7	99.2	95.0	Pass
559	PE 36+50 C	952.3	S	0.2	2094	9.1	2112	10.3	100.8	95.0	Pass
560	PE 35+75 C	952.3	S	0.2	2094	9.1	2039	10.7	97.4	95.0	Pass
561	PE 37+00 DS	952.3	S	0.2	2094	9.1	2047	9.4	97.7	95.0	Pass
562	PE 37+50 US	952.3	S	0.2	2094	9.1	2068	10.0	98.7	95.0	Pass
563	PE 38+00 W	951.6	S	0.2	2094	9.1	2102	9.9	100.4	95.0	Pass
564	PE 38+50 W	951.6	S	0.2	2094	9.1	2012	10.7	96.1	95.0	Pass
565	PE 38+50 W	951.6	S	0.2	2094	9.1	2074	9.4	99.0	95.0	Pass
566	PE 39+00 W	951.6	S	0.2	2094	9.1	2055	10.3	98.1	95.0	Pass
567	PE 31+75 C	952.6	S	0.2	2094	9.1	2017	10.6	96.3	95.0	Pass
568	PE 32+35 DS	952.6	S	0.2	2094	9.1	2008	10.9	95.9	95.0	Pass
569	PE 33+00 US	952.6	S	0.2	2094	9.1	2004	10.4	95.7	95.0	Pass
570	PE 34+00 DS	952.6	S	0.2	2094	9.1	2032	10.0	97.0	95.0	Pass
571	PE 34+50 C	952.6	S	0.2	2094	9.1	2055	9.8	98.1	95.0	Pass
572	PE 35+00 US	952.6	S	0.2	2094	9.1	2013	10.8	96.1	95.0	Pass
573	PE 35+65 C	952.6	S	0.2	2094	9.1	2039	10.7	97.4	95.0	Pass
574	PE 36+25 DS	952.6	S	0.2	2094	9.1	2061	10.8	98.4	95.0	Pass
575	PE 36+75 US	952.6	S	0.2	2094	9.1	2028	11.1	96.8	95.0	Pass
576	PE 37+50 C	952.6	S	0.2	2094	9.1	2010	10.7	96.0	95.0	Pass
577	PE 39+00 W	951.9	S	0.2	2094	9.1	2070	10.8	98.8	95.0	Pass
578	PE 37+75 W	951.9	S	0.2	2094	9.1	2007	12.2	95.8	95.0	Pass
579	PE 37+25 C	952.9	S	0.2	2094	9.1	2035	10.5	97.2	95.0	Pass
580	PE 36+75 US	952.9	S	0.2	2094	9.1	2016	11.5	96.3	95.0	Pass
581	PE 33+75 US	952.9	S	0.2	2094	9.1	1995	11.2	95.3	95.0	Pass
582	PE 34+75 C	952.9	S	0.2	2094	9.1	2066	10.0	98.6	95.0	Pass
583	PE 35+25 US	952.9	S	0.2	2094	9.1	2017	9.9	96.3	95.0	Pass
584	PE 35+75 C	952.9	S	0.2	2094	9.1	2056	10.8	98.2	95.0	Pass
585	PE 36+25 DS	952.9	S	0.2	2094	9.1	2010	11.0	96.0	95.0	Pass
586	ME 22+00 DS	954.0	S	0.2	2094	9.1	2003	12.1	95.6	95.0	Pass
587	ME 22+00 US	954.0	S	0.2	2094	9.1	2047	11.3	97.7	95.0	Pass
588	ME 21+50 C	954.0	S	0.2	2094	9.1	2079	9.8	99.3	95.0	Pass
589	ME 22+50 C	954.0	S	0.2	2094	9.1	2004	11.0	95.7	95.0	Pass
590	ME 24+85 C	954.0	S	0.2	2094	9.1	2022	10.8	96.5	95.0	Pass
591	ME 24+50 C	954.0	S	0.2	2094	9.1	2045	10.6	97.6	95.0	Pass
592	ME 24+00 US	954.0	S	0.2	2094	9.1	2007	12.2	95.8	95.0	Pass
593	ME 23+50 US	954.0	S	0.2	2094	9.1	2020	11.4	96.4	95.0	Pass
594	ME 23+25 C	954.0	S	0.2	2094	9.1	2015	11.0	96.2	95.0	Pass
595	ME 25+00 DS	954.0	S	0.2	2094	9.1	2043	11.3	97.5	95.0	Pass
596	ME 25+50 US	954.0	S	0.2	2094	9.1	2034	11.1	97.1	95.0	Pass
597	ME 26+35 DS	954.0	S	0.2	2094	9.1	1999	12.1	95.4	95.0	Pass
598	ME 26+75 C	954.0	S	0.2	2094	9.1	2028	11.8	96.8	95.0	Pass
599	ME 26+75 DS	953.3	S	0.2	2094	9.1	2067	11.2	98.7	95.0	Pass
600	ME 27+00C	954.0	S	0.2	2094	9.1	2040	11.2	97.4	95.0	Pass
601	ME 27+50 US	954.0	S	0.2	2094	9.1	2018	12.0	96.4	95.0	Pass
602	PE 28+00 DS	954.0	S	0.2	2094	9.1	2056	10.6	98.2	95.0	Pass
603	PE 28+50 C	954.0	S	0.2	2094	9.1	2060	10.0	98.4	95.0	Pass
604	PE 29+00 DS	954.0	S	0.2	2094	9.1	2024	11.5	96.6	95.0	Pass
605	PE 29+50 US	954.0	S	0.2	2094	9.1	2032	11.5	97.0	95.0	Pass
606	PE 30+00 C	954.0	S	0.2	2094	9.1	2047	11.5	97.7	95.0	Pass
607	PE 30+50 US	953.8	S	0.2	2094	9.1	2052	11.0	98.0	95.0	Pass

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23
DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m^3)	Optimum Moisture (%)	Dry Density (kg/m^3)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
608	PE 31+00 DS	953.8	S	0.2	2094	9.1	2009	12.3	95.9	95.0	Pass
609	PE 31+50 C	953.4	S	0.2	2094	9.1	2028	11.3	96.8	95.0	Pass
610	PE 32+50 C	952.9	S	0.2	2094	9.1	2039	11.5	97.4	95.0	Pass
611	PE 33+00 DS	953.2	S	0.2	2094	9.1	2052	10.5	98.0	95.0	Pass
612	PE 33+50 US	953.2	S	0.2	2094	9.1	2007	11.5	95.8	95.0	Pass
613	PE 34+00 C	953.2	S	0.2	2094	9.1	2006	11.4	95.8	95.0	Pass
614	PE 34+50 C	953.2	S	0.2	2094	9.1	2037	10.7	97.3	95.0	Pass
615	PE 36+25 DS	953.2	S	0.2	2094	9.1	2026	10.5	96.7	95.0	Pass
616	PE 35+75 C	953.2	S	0.2	2094	9.1	2049	11.0	97.8	95.0	Pass
617	PE 35+25 US	953.2	S	0.2	2094	9.1	2045	10.4	97.6	95.0	Pass
618	PE 37+00 C	953.2	S	0.2	2094	9.1	2040	10.3	97.4	95.0	Pass
619	PE 37+50 US	953.2	S	0.2	2094	9.1	2018	10.9	96.4	95.0	Pass
620	ME 22+50 C	954.0	S	0.2	2094	9.1	2061	10.3	98.4	95.0	Pass
621	ME 23+00 C	954.0	S	0.2	2094	9.1	2022	10.5	96.5	95.0	Pass
622	ME 24+50 C	954.0	S	0.2	2094	9.1	2026	10.7	96.7	95.0	Pass
623	ME 24+75 US	954.0	S	0.2	2094	9.1	2017	10.4	96.3	95.0	Pass
624	ME 25+25 DS	954.0	S	0.2	2094	9.1	2018	11.2	96.4	95.0	Pass
625	ME 25+75 C	954.0	S	0.2	2094	9.1	2052	11.0	98.0	95.0	Pass
626	ME 26+25 US	954.0	S	0.2	2094	9.1	2018	11.6	96.4	95.0	Pass
627	ME 26+75 US	954.0	S	0.2	2094	9.1	2029	10.9	96.9	95.0	Pass
628	ME 27+25 C	954.0	S	0.2	2094	9.1	2064	10.3	98.5	95.0	Pass
629	PE 29+70 DS	954.0	S	0.2	2094	9.1	2041	11.0	97.5	95.0	Pass
630	PE 30+15 US	954.0	S	0.2	2094	9.1	2027	10.7	96.8	95.0	Pass
631	PE 31+25 US	954.0	S	0.2	2094	9.1	2031	10.2	97.0	95.0	Pass
632	PE 31+75 DS	953.2	S	0.2	2094	9.1	2001	11.1	95.5	95.0	Pass
633	PE 32+25 C	953.5	S	0.2	2094	9.1	2017	10.2	96.3	95.0	Pass
634	PE 32+75 DS	954.0	S	0.2	2094	9.1	2007	10.2	95.8	95.0	Pass
635	PE 33+25 C	954.0	S	0.2	2094	9.1	2003	10.2	95.6	95.0	Pass
636	PE 34+25 DS	953.7	S	0.2	2094	9.1	2021	11.3	96.5	95.0	Pass
637	PE 34+75 US	953.7	S	0.2	2094	9.1	2016	10.2	96.3	95.0	Pass
638	PE 35+75 DS	953.7	S	0.2	2094	9.1	1992	11.4	95.1	95.0	Pass
639	PE 36+75 US	953.7	S	0.2	2094	9.1	2009	10.6	95.9	95.0	Pass
640	PE 36+25 DS	954.0	S	0.2	2094	9.1	2006	10.5	95.8	95.0	Pass
641	PE 39+75 W	951.3	S	0.2	2094	9.1	2049	9.1	97.8	95.0	Pass
642	PE 40+25 W	951.3	S	0.2	2094	9.1	2194	8.3	104.8	95.0	Pass
643	PE 40+75 W	951.3	S	0.2	2094	9.1	2044	9.8	97.6	95.0	Pass
644	PE 41+25 W	951.3	S	0.2	2094	9.1	2066	9.6	98.6	95.0	Pass
645	PE 41+75 W	951.3	S	0.2	2094	9.1	2066	9.9	98.6	95.0	Pass
646	PE 37+25 W	953.7	S	0.2	2094	9.1	2009	12.2	95.9	95.0	Pass
647	PE 37+75 C	952.3	S	0.2	2094	9.1	1996	11.3	95.3	95.0	Pass
648	PE 38+75 W	952.0	S	0.2	2094	9.1	2007	11.4	95.8	95.0	Pass
649	PE 39+25 W	951.6	S	0.2	2094	9.1	2026	10.9	96.7	95.0	Pass
650	PE 39+75 W	951.6	S	0.2	2094	9.1	2018	11.0	96.4	95.0	Pass
651	PE 40+75 W	951.6	S	0.2	2094	9.1	2012	11.5	96.1	95.0	Pass
652	PE 41+25 W	951.6	S	0.2	2094	9.1	2005	12.1	95.7	95.0	Pass
653	ME 26+50 C	954.0	S	0.2	2094	9.1	2016	10.7	96.3	95.0	Pass
654	PE 30+40 DS	954.0	S	0.2	2094	9.1	2042	10.3	97.5	95.0	Pass
655	PE 30+90 DS	954.0	S	0.2	2094	9.1	1992	11.7	95.1	95.0	Pass
656	PE 31+50 C	954.0	S	0.2	2094	9.1	2006	11.7	95.8	95.0	Pass
657	PE 32+00 C	953.8	S	0.2	2094	9.1	2065	10.4	98.6	95.0	Pass
658	PE 33+50 C	954.0	S	0.2	2094	9.1	1993	12.0	95.2	95.0	Pass
659	PE 35+00 C	954.0	S	0.2	2094	9.1	1997	12.3	95.4	95.0	Pass
660	PE 35+50 DS	954.0	S	0.2	2094	9.1	2011	11.6	96.0	95.0	Pass
661	PE 36+25 US	954.0	S	0.2	2094	9.1	2080	10.7	99.3	95.0	Pass
662	PE 32+50 C	954.0	S	0.2	2094	9.1	2012	11.7	96.1	95.0	Pass
663	PE 37+00 C	954.0	S	0.2	2094	9.1	2000	11.5	95.5	95.0	Pass
664	PE 37+50 US	954.0	S	0.2	2094	9.1	2028	10.9	96.8	95.0	Pass
665	PE 42+25 CL	951.3	S	0.2	2094	9.1	2079	10.1	99.3	95.0	Pass
666	PE 42+75 CL	951.2	S	0.2	2094	9.1	2029	11.2	96.9	95.0	Pass
667	PE 43+25 US	951.2	S	0.2	2094	9.1	1999	10.8	95.4	95.0	Pass
668	PE 43+50 CL	951.1	S	0.2	2094	9.1	2049	11.1	97.8	95.0	Pass
669	PE 44+25 CL	951.3	S	0.2	2094	9.1	2095	10.7	100.0	95.0	Pass
670	PE 44+50 DS	951.2	S	0.2	2094	9.1	2030	11.4	96.9	95.0	Pass
671	PE 42+25 DS	951.6	S	0.2	2094	9.1	2028	11.9	96.8	95.0	Pass
672	PE 43+25 CL	951.8	S	0.2	2094	9.1	2013	10.9	96.1	95.0	Pass
673	PE 44+00 US	951.5	S	0.2	2094	9.1	2023	10.8	96.6	95.0	Pass
674	PE 45+00 CL	951.1	S	0.2	2094	9.1	2092	9.8	99.9	95.0	Pass
675	PE 45+50 US	951.0	S	0.2	2094	9.1	2195	9.8	104.8	95.0	Pass
676	PE 45+85 CL	951.2	S	0.2	2094	9.1	2045	9.3	97.6	95.0	Pass
677	PE 42+25 US	951.8	S	0.2	2094	9.1	2018	11.8	96.4	95.0	Pass
678	PE 42+75 DS	951.7	S	0.2	2094	9.1	2064	10.6	98.5	95.0	Pass
679	PE 43+25 CL	952.0	S	0.2	2094	9.1	2046	10.4	97.7	95.0	Pass
680	PE 43+75 DS	951.8	S	0.2	2094	9.1	2018	11.2	96.4	95.0	Pass
681	PE 44+25 US	951.8	S	0.2	2094	9.1	2090	10.4	99.8	95.0	Pass
682	PE 44+75 US	951.4	S	0.2	2094	9.1	2047	10.7	97.7	95.0	Pass
683	PE 45+25 CL	951.4	S	0.2	2094	9.1	1997	11.4	95.4	95.0	Pass
684	PE 44+75 CL	951.5	S	0.2	2094	9.1	2018	11.3	96.4	95.0	Pass
685	PE 37+50 US	953.5	S	0.2	2094	9.1	1992	11.5	95.1	95.0	Pass
686	PE 38+00 DS	952.7	S	0.2	2094	9.1	2077	10.2	99.2	95.0	Pass
687	PE 38+50 CL	952.8	S	0.2	2094	9.1	2013	10.9	96.1	95.0	Pass
688	PE 39+00 US	952.6	S	0.2	2094	9.1	2008	9.9	95.9	95.0	Pass
689	PE 39+50 CL	952.0	S	0.2	2094	9.1	1997	10.9	95.4	95.0	Pass
690	PE 40+00 DS	951.9	S	0.2	2094	9.1	2105	8.7	100.5	95.0	Pass
691	PE 40+50 US	951.6	S	0.2	2094	9.1	2091	8.7	99.8	95.0	Pass
692	PE 41+00 CL	952.0	S	0.2	2094	9.1	2126	8.6	101.5	95.0	Pass
693	PE 41+50 DS	951.9	S	0.2	2094	9.1	2045	9.1	97.6	95.0	Pass
694	PE 42+00 DS	951.9	S	0.2	2094	9.1	2079	9.6	99.3	95.0	Pass

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23
DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m^3)	Optimum Moisture (%)	Dry Density (kg/m^3)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
695	PE 42+50 US	952.1	S	0.2	2094	9.1	2105	8.5	100.5	95.0	Pass
696	PE 43+00 DS	952.3	S	0.2	2094	9.1	2026	10.4	96.7	95.0	Pass
697	PE 43+50 CL	952.3	S	0.2	2094	9.1	2088	8.5	99.7	95.0	Pass
698	PE 44+00 CL	952.2	S	0.2	2094	9.1	2071	9.6	98.9	95.0	Pass
699	PE 45+00 US	951.9	S	0.2	2094	9.1	2050	9.4	97.9	95.0	Pass
700	PE 45+50 US	951.8	S	0.2	2094	9.1	2049	10.8	97.8	95.0	Pass
701	PE 44+50 US	952.1	S	0.2	2094	9.1	2074	9.7	99.0	95.0	Pass
702	PE 37+50 DS	952.9	S	0.2	2094	9.1	2039	10.1	97.4	95.0	Pass
703	PE 38+25 DS	952.9	S	0.2	2094	9.1	2002	11.3	95.6	95.0	Pass
704	PE 38+75 CL	953.0	S	0.2	2094	9.1	2023	10.4	96.6	95.0	Pass
705	PE 39+25 US	952.5	S	0.2	2094	9.1	1993	11.6	95.2	95.0	Pass
706	PE 39+75 US	952.4	S	0.2	2094	9.1	2028	11.3	96.8	95.0	Pass
707	PE 40+25 CL	952.3	S	0.2	2094	9.1	2023	11.7	96.6	95.0	Pass
708	PE 40+75 DS	952.2	S	0.2	2094	9.1	2003	12.3	95.6	95.0	Pass
709	PE 41+25 DS	952.1	S	0.2	2094	9.1	2034	11.2	97.1	95.0	Pass
710	PE 41+75 DS	952.0	S	0.2	2094	9.1	2016	11.5	96.3	95.0	Pass
711	PE 42+25 US	952.2	S	0.2	2094	9.1	2041	10.8	97.5	95.0	Pass
712	PE 42+75 CL	952.4	S	0.2	2094	9.1	2042	11.8	97.5	95.0	Pass
713	PE 43+25 DS	952.5	S	0.2	2094	9.1	2036	11.2	97.2	95.0	Pass
714	PE 44+25 CL	952.2	S	0.2	2094	9.1	2017	10.6	96.3	95.0	Pass
715	PE 44+75 US	952.2	S	0.2	2094	9.1	2014	11.7	96.2	95.0	Pass
716	PE 45+25 DS	952.0	S	0.2	2094	9.1	2036	11.2	97.2	95.0	Pass
717	PE 37+50 CL	953.7	S	0.2	2094	9.1	2117	9.1	101.1	95.0	Pass
718	PE 38+00 US	953.2	S	0.2	2094	9.1	2032	10.8	97.0	95.0	Pass
719	PE 38+50 DS	953.3	S	0.2	2094	9.1	2023	10.1	96.6	95.0	Pass
720	PE 39+00 CL	953.2	S	0.2	2094	9.1	2061	8.8	98.4	95.0	Pass
721	PE 39+50 US	952.6	S	0.2	2094	9.1	2009	10.6	95.9	95.0	Pass
722	PE 40+00 CL	952.4	S	0.2	2094	9.1	2080	10.1	99.3	95.0	Pass
723	PE 40+50 US	952.4	S	0.2	2094	9.1	2032	10.9	97.0	95.0	Pass
724	PE 41+00 DS	952.2	S	0.2	2094	9.1	2099	10.5	100.2	95.0	Pass
725	PE 41+50 CL	952.3	S	0.2	2094	9.1	1994	12.3	95.2	95.0	Pass
726	PE 42+00 DS	952.0	S	0.2	2094	9.1	2076	10.0	99.1	95.0	Pass
727	PE 42+50 US	952.4	S	0.2	2094	9.1	1997	12.2	95.4	95.0	Pass
728	PE 43+00 DS	952.7	S	0.2	2094	9.1	2123	9.7	101.4	95.0	Pass
729	PE 43+50 CL	952.7	S	0.2	2094	9.1	2062	9.7	98.5	95.0	Pass
730	PE 44+00 US	952.5	S	0.2	2094	9.1	2047	9.7	97.7	95.0	Pass
731	PE 44+50 CL	952.2	S	0.2	2094	9.1	2086	9.9	99.6	95.0	Pass
732	PE 45+50 DS	952.2	S	0.2	2094	9.1	2040	11.0	97.4	95.0	Pass
733	ME 16+00 DS	950.8	S	0.2	2094	9.1	2051	10.9	97.9	95.0	Pass
734	ME 16+50 DS	951.1	S	0.2	2094	9.1	2032	10.5	97.0	95.0	Pass
735	ME 17+00 DS	951.1	S	0.2	2094	9.1	2059	10.3	98.3	95.0	Pass
736	PE 31+25 US	953.8	S	0.2	2094	9.1	1998	12.7	95.4	95.0	Pass
737	PE 32+25 DS	953.9	S	0.2	2094	9.1	2037	11.6	97.3	95.0	Pass
738	PE 32+70 C	953.9	S	0.2	2094	9.1	1995	11.2	95.3	95.0	Pass
739	PE 33+50 C	954.1	S	0.2	2094	9.1	2042	11.6	97.5	95.0	Pass
740	ME 17+50 DS	951.2	S	0.2	2094	9.1	2094	10.4	100.0	95.0	Pass
741	ME 18+00 DS	951.2	S	0.2	2094	9.1	2092	9.7	99.9	95.0	Pass
742	ME 18+50 DS	951.5	S	0.2	2094	9.1	2088	9.9	99.7	95.0	Pass
743	ME 19+00 DS	951.4	S	0.2	2094	9.1	2034	10.5	97.1	95.0	Pass
744	ME 19+50 DS	951.4	S	0.2	2094	9.1	2022	9.3	96.5	95.0	Pass
745	ME 16+25 DS	951.3	S	0.2	2094	9.1	2013	11.5	96.1	95.0	Pass
746	ME 16+75DS	951.5	S	0.2	2094	9.1	2022	10.0	96.5	95.0	Pass
747	ME 17+25DS	951.4	S	0.2	2094	9.1	2018	11.2	96.4	95.0	Pass
748	ME 17+75DS	951.4	S	0.2	2094	9.1	2092	9.8	99.9	95.0	Pass
749	ME 18+25DS	951.6	S	0.2	2094	9.1	2073	10.7	99.0	95.0	Pass
750	ME 18+75DS	951.6	S	0.2	2094	9.1	1991	12.0	95.1	95.0	Pass
751	ME 19+25DS	951.7	S	0.2	2094	9.1	2044	12.3	97.6	95.0	Pass
752	ME 19+70DS	951.7	S	0.2	2094	9.1	2006	12.2	95.8	95.0	Pass
753	ME 19+85DS	951.3	S	0.2	2094	9.1	2037	8.8	97.3	95.0	Pass
754	ME 20+25DS	950.9	S	0.2	2094	9.1	2129	10.3	101.7	95.0	Pass
755	ME 20+75DS	951.0	S	0.2	2094	9.1	2022	8.9	96.5	95.0	Pass
756	ME 16+50DS	951.8	S	0.2	2094	9.1	2017	11.2	96.3	95.0	Pass
757	ME 17+00 DS	951.9	S	0.2	2094	9.1	2015	10.5	96.2	95.0	Pass
758	ME 17+50 DS	951.8	S	0.2	2094	9.1	2016	10.7	96.3	95.0	Pass
759	ME 18+00 DS	951.8	S	0.2	2094	9.1	1994	10.8	95.2	95.0	Pass
760	ME 18+50 DS	952.1	S	0.2	2094	9.1	2040	10.0	97.4	95.0	Pass
761	ME 19+00 DS	952.0	S	0.2	2094	9.1	2007	11.5	95.8	95.0	Pass
762	ME 19+50 DS	951.9	S	0.2	2094	9.1	2067	9.3	98.7	95.0	Pass
763	ME 20+50 DS	951.2	S	0.2	2094	9.1	2091	8.6	99.8	95.0	Pass
764	ME 20+75 DS	951.4	S	0.2	2094	9.1	2078	8.9	99.2	95.0	Pass
765	PE 37+75 DS	953.3	S	0.2	2094	9.1	2033	9.6	97.1	95.0	Pass
766	PE 38+25 DS	953.4	S	0.2	2094	9.1	2080	8.5	99.3	95.0	Pass
767	PE 38+75 DS	953.5	S	0.2	2094	9.1	2080	9.5	99.3	95.0	Pass
768	PE 39+25 DS	953.0	S	0.2	2094	9.1	2086	9.3	99.6	95.0	Pass
769	PE 39+75 DS	952.9	S	0.2	2094	9.1	2132	7.7	101.8	95.0	Pass
770	ME 16+25 US	952.0	S	0.2	2094	9.1	2086	10.1	99.6	95.0	Pass
771	ME 16+75 C	952.2	S	0.2	2094	9.1	2083	10.2	99.5	95.0	Pass
772	ME 17+25 DS	952.2	S	0.2	2094	9.1	2099	9.6	100.2	95.0	Pass
773	ME 17+75 US	952.1	S	0.2	2094	9.1	2085	9.5	99.6	95.0	Pass
774	ME 18+25 C	952.3	S	0.2	2094	9.1	2080	10.6	99.3	95.0	Pass
775	ME 18+75 C	952.5	S	0.2	2094	9.1	2071	10.5	98.9	95.0	Pass
776	ME 19+25 US	952.4	S	0.2	2094	9.1	2091	10.8	99.8	95.0	Pass
777	ME 19+75 DS	952.2	S	0.2	2094	9.1	2103	10.8	100.4	95.0	Pass
778	ME 20+25 DS	951.3	S	0.2	2094	9.1	2031	10.2	97.0	95.0	Pass
779	ME 20+75 DS	951.5	S	0.2	2094	9.1	2038	10.8	97.3	95.0	Pass
780	ME 20+75 DS	951.8	S	0.2	2094	9.1	2047	10.1	97.7	95.0	Pass
781	ME 20+25 DS	951.6	S	0.2	2094	9.1	2063	10.5	98.5	95.0	Pass

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23
DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m³)	Optimum Moisture (%)	Dry Density (kg/m³)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
782	ME 16+25 US	952.4	S	0.2	2094	9.1	2045	10.3	97.6	95.0	Pass
783	ME 16+75 C	952.5	S	0.2	2094	9.1	2127	8.9	101.6	95.0	Pass
784	ME 17+25 US	952.5	S	0.2	2094	9.1	2137	9.2	102.0	95.0	Pass
785	ME 17+75 DS	952.4	S	0.2	2094	9.1	2092	10.2	99.9	95.0	Pass
786	ME 18+25 C	952.6	S	0.2	2094	9.1	2131	9.6	101.7	95.0	Pass
787	ME 18+75 US	952.8	S	0.2	2094	9.1	2117	9.6	101.1	95.0	Pass
788	ME 19+25 C	952.3	S	0.2	2094	9.1	2142	8.5	102.3	95.0	Pass
789	ME 19+75 DS	952.8	S	0.2	2094	9.1	2163	8.5	103.3	95.0	Pass
790	ME 20+25 DS	951.9	S	0.2	2094	9.1	2149	7.7	102.6	95.0	Pass
791	ME 20+75 DS	952.2	S	0.2	2094	9.1	2083	9.3	99.5	95.0	Pass
792	PE 40+25 CL	952.7	S	0.2	2094	9.1	2014	9.3	96.2	95.0	Pass
793	PE 41+75 DS	952.6	S	0.2	2094	9.1	2076	9.3	99.1	95.0	Pass
794	PE 42+25 CL	952.7	S	0.2	2094	9.1	2049	9.9	97.8	95.0	Pass
795	PE 42+75 DS	952.9	S	0.2	2094	9.1	2041	9.8	97.5	95.0	Pass
796	PE 43+25 DS	953.1	S	0.2	2094	9.1	2052	9.5	98.0	95.0	Pass
797	ME 16+00 DS	951.2	S	0.2	2094	9.1	2043	9.8	97.5	95.0	Pass
798	SE 15+50 DS	951.2	S	0.2	2094	9.1	2086	10.5	99.6	95.0	Pass
799	SE 15+00 DS	951.3	S	0.2	2094	9.1	2033	8.9	97.1	95.0	Pass
800	SE 14+50 DS	951.2	S	0.2	2094	9.1	2001	10.2	95.5	95.0	Pass
801	SE 14+00 DS	951.2	S	0.2	2094	9.1	2105	9.2	100.5	95.0	Pass
802	PE 43+75 DS	952.8	S	0.2	2094	9.1	2055	9.7	98.1	95.0	Pass
803	PE 44+25 CL	952.9	S	0.2	2094	9.1	2086	9.7	99.6	95.0	Pass
804	ME 20+75 DS	952.5	S	0.2	2094	9.1	2053	9.8	98.0	95.0	Pass
805	ME 20+25 CL	952.2	S	0.2	2094	9.1	2075	10.0	99.1	95.0	Pass
806	ME 19+75 DS	952.8	S	0.2	2094	9.1	2132	9.5	101.8	95.0	Pass
807	ME 19+25 CL	952.9	S	0.2	2094	9.1	2064	9.0	98.5	95.0	Pass
808	ME 18+75 DS	953.0	S	0.2	2094	9.1	2142	8.9	102.3	95.0	Pass
809	ME 18+25 US	952.9	S	0.2	2094	9.1	2114	9.4	100.9	95.0	Pass
810	ME 17+75 US	952.7	S	0.2	2094	9.1	2000	9.0	95.5	95.0	Pass
811	ME 17+25 DS	952.8	S	0.2	2094	9.1	2058	8.3	98.3	95.0	Pass
812	ME 16+75 CL	952.9	S	0.2	2094	9.1	2136	8.5	102.0	95.0	Pass
813	ME 16+25	952.7	S	0.2	2094	9.1	2068	8.1	98.7	95.0	Pass
814	SE 13+25 DS	951.4	S	0.2	2094	9.1	2074	9.8	99.0	95.0	Pass
815	SE 13+75 DS	951.3	S	0.2	2094	9.1	2030	8.4	96.9	95.0	Pass
816	ME 20+75 CL	952.6	S	0.2	2094	9.1	2138	8.9	102.1	95.0	Pass
817	ME 20+25 US	952.6	S	0.2	2094	9.1	2091	9.3	99.8	95.0	Pass
818	ME 16+00 DS	951.6	S	0.2	2094	9.1	2069	10.5	98.8	95.0	Pass
819	SE 15+50 DS	951.5	S	0.2	2094	9.1	2071	9.8	98.9	95.0	Pass
820	PE 44+75 DS	952.3	S	0.2	2094	9.1	2154	7.8	102.8	95.0	Pass
821	PE 45+25 DS	952.4	S	0.2	2094	9.1	2030	9.5	96.9	95.0	Pass
822	SE 15+00 DS	951.8	S	0.2	2094	9.1	2088	10.4	99.7	95.0	Pass
823	SE 14+50 DS	951.7	S	0.2	2094	9.1	2065	11.0	98.6	95.0	Pass
824	SE 14+00 DS	951.7	S	0.2	2094	9.1	2049	11.0	97.8	95.0	Pass
825	SE 13+50 DS	951.6	S	0.2	2094	9.1	2087	10.1	99.6	95.0	Pass
826	SE 13+00 DS	951.5	S	0.2	2094	9.1	2035	10.7	97.2	95.0	Pass
827	ME 19+75 US	953.1	S	0.2	2094	9.1	2065	10.5	98.6	95.0	Pass
828	ME 19+25 CL	953.3	S	0.2	2094	9.1	2082	10.2	99.4	95.0	Pass
829	ME 16+00 CL	952.0	S	0.2	2094	9.1	2213	9.2	105.7	95.0	Pass
830	SE 15+50 CL	951.9	S	0.2	2094	9.1	2044	10.3	97.6	95.0	Pass
831	SE 15+00 DS	952.0	S	0.2	2094	9.1	2033	9.9	97.1	95.0	Pass
832	ME 18+75 US	953.4	S	0.2	2094	9.1	2117	9.2	101.1	95.0	Pass
833	ME 18+25 US	953.2	S	0.2	2094	9.1	2089	10.1	99.7	95.0	Pass
834	ME 17+75 DS	953.1	S	0.2	2094	9.1	2038	10.1	97.3	95.0	Pass
835	ME 17+25 CL	953.0	S	0.2	2094	9.1	2104	9.9	100.5	95.0	Pass
836	ME 16+75 US	953.2	S	0.2	2094	9.1	2102	9.7	100.4	95.0	Pass
837	SE 12+50 DS	951.4	S	0.2	2094	9.1	2105	9.4	100.5	95.0	Pass
838	SE 12+00 DS	951.4	S	0.2	2094	9.1	2206	8.2	105.3	95.0	Pass
839	SE 11+50 DS	951.2	S	0.2	2094	9.1	2057	8.0	98.2	95.0	Pass
840	SE 14+50 DS	952.0	S	0.2	2094	9.1	2031	10.0	97.0	95.0	Pass
841	SE 14+00 DS	952.0	S	0.2	2094	9.1	2078	10.0	99.2	95.0	Pass
842	SE 13+50 DS	951.8	S	0.2	2094	9.1	2113	8.9	100.9	95.0	Pass
843	SE 13+00 DS	951.8	S	0.2	2094	9.1	2085	9.0	99.6	95.0	Pass
844	SE 11+00 DS	951.1	S	0.2	2094	9.1	2063	8.4	98.5	95.0	Pass
845	SE 10+50 DS	951.2	S	0.2	2094	9.1	2041	9.0	97.5	95.0	Pass
846	SE 10+00 DS	951.3	S	0.2	2094	9.1	2134	7.9	101.9	95.0	Pass
847	SE 12+00 DS	951.7	S	0.2	2094	9.1	2053	10.7	98.0	95.0	Pass
848	ME 20+00 DS	951.3	S	0.2	2094	9.1	2124	8.7	101.4	95.0	Pass
849	ME 19+50 US	952.9	S	0.2	2094	9.1	2054	9.6	98.1	95.0	Pass
850	SE 11+50 DS	951.4	S	0.2	2094	9.1	2031	10.1	97.0	95.0	Pass
851	SE 11+00 DS	951.4	S	0.2	2094	9.1	2124	8.8	101.4	95.0	Pass
852	SE 10+50 DS	951.5	S	0.2	2094	9.1	2123	8.3	101.4	95.0	Pass
853	SE 10+00 DS	951.5	S	0.2	2094	9.1	2094	9.2	100.0	95.0	Pass
854	SE 12+50 DS	951.6	S	0.2	2094	9.1	2014	11.9	96.2	95.0	Pass
855	ME 20+75 DS	952.8	S	0.2	2094	9.1	2110	9.5	100.7	95.0	Pass
856	ME 20+25 US	952.8	S	0.2	2094	9.1	2051	9.1	97.9	95.0	Pass
857	ME 19+00 CL	953.7	S	0.2	2094	9.1	2034	10.6	97.1	95.0	Pass
858	ME 18+50 DS	953.7	S	0.2	2094	9.1	2077	9.8	99.2	95.0	Pass
859	ME 18+00 US	953.4	S	0.2	2094	9.1	2089	10.2	99.7	95.0	Pass
860	ME 16+50	953.2	S	0.2	2094	9.1	2024	10.0	96.6	95.0	Pass
861	ME 16+00	952.2	S	0.2	2094	9.1	2083	9.5	99.5	95.0	Pass
862	SE 15+50 DS	952.1	S	0.2	2094	9.1	2079	10.2	99.3	95.0	Pass
863	SE 15+00 CL	952.0	S	0.2	2094	9.1	2091	10.1	99.8	95.0	Pass
864	SE 14+50 US	951.2	S	0.2	2094	9.1	2058	10.0	98.3	95.0	Pass
865	SE 14+00 CL	952.0	S	0.2	2094	9.1	2040	10.6	97.4	95.0	Pass
866	SE 13+50 DS	952.0	S	0.2	2094	9.1	2006	11.6	95.8	95.0	Pass
867	SE 13+00 DS	952.0	S	0.2	2094	9.1	2097	9.0	100.1	95.0	Pass
868	SE 12+50 DS	951.4	S	0.2	2094	9.1	2124	9.5	101.4	95.0	Pass

#N/A

Rev'd 4-Dec-08

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23

DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m^3)	Optimum Moisture (%)	Dry Density (kg/m^3)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
869	SE 12+00 DS	952.0	S	0.2	2094	9.1	2014	10.7	96.2	95.0	Pass
870	SE 11+50 DS	951.7	S	0.2	2094	9.1	2056	10.0	98.2	95.0	Pass
871	SE 10+00 DS	951.7	S	0.2	2094	9.1	2070	9.9	98.8	95.0	Pass
872	SE 10+50 DS	951.8	S	0.2	2094	9.1	2187	9.5	104.4	95.0	Pass
873	SE 10+00 DS	951.8	S	0.2	2094	9.1	2073	10.7	99.0	95.0	Pass
874	ME 20+75 US	953.1	S	0.2	2094	9.1	2026	9.8	96.7	95.0	Pass
875	ME 20+25 CL	953.1	S	0.2	2094	9.1	2069	9.5	98.8	95.0	Pass
876	ME 19+75 DS	953.5	S	0.2	2094	9.1	2004	10.9	95.7	95.0	Pass
877	ME 19+25 US	953.6	S	0.2	2094	9.1	2036	11.3	97.2	95.0	Pass
878	ME 18+75 DS	954.1	S	0.2	2094	9.1	2065	11.0	98.6	95.0	Pass
879	ME 18+25 CL	953.5	S	0.2	2094	9.1	2020	11.3	96.4	95.0	Pass
880	ME 16+75 US	953.5	S	0.2	2094	9.1	2032	11.1	97.0	95.0	Pass
881	ME 17+25 US	953.5	S	0.2	2094	9.1	2009	12.5	95.9	95.0	Pass
882	ME 16+25 CL	952.9	S	0.2	2094	9.1	2045	10.9	97.6	95.0	Pass
883	PE 37+75 CL	953.7	S	0.2	2094	9.1	2091	8.5	99.8	95.0	Pass
884	PE 38+25 DS	953.7	S	0.2	2094	9.1	2011	8.2	96.0	95.0	Pass
885	ME 20+75 US	953.2	S	0.2	2094	9.1	2028	11.8	96.8	95.0	Pass
886	ME 20+25 US	953.2	S	0.2	2094	9.1	2040	12.4	97.4	95.0	Pass
887	ME 19+75 US	953.5	S	0.2	2094	9.1	2028	11.5	96.8	95.0	Pass
888	ME 19+25 DS	954.0	S	0.2	2094	9.1	2064	10.0	98.5	95.0	Pass
889	ME 18+75 CL	954.0	S	0.2	2094	9.1	2040	11.5	97.4	95.0	Pass
890	ME 18+25 CL	953.6	S	0.2	2094	9.1	1995	12.6	95.3	95.0	Pass
891	ME 17+75 US	953.6	S	0.2	2094	9.1	2100	11.8	100.3	95.0	Pass
892	ME 17+25 DS	953.4	S	0.2	2094	9.1	1992	11.9	95.1	95.0	Pass
893	ME 16+75 CL	953.5	S	0.2	2094	9.1	2026	11.8	96.7	95.0	Pass
894	ME 16+25 US	953.1	S	0.2	2094	9.1	2072	10.6	98.9	95.0	Pass
895	ME 20+75 US	953.1	S	0.2	2094	9.1	2001	11.2	95.5	95.0	Pass
896	ME 20+25 CL	935.3	S	0.2	2094	9.1	2016	11.5	96.3	95.0	Pass
897	ME 19+75 DS	953.8	S	0.2	2094	9.1	1995	10.9	95.3	95.0	Pass
898	ME 19+25	954.0	S	0.2	2094	9.1	2001	10.7	95.5	95.0	Pass
899	ME 18+50	954.0	S	0.2	2094	9.1	2045	10.2	97.6	95.0	Pass
900	ME 18+00 DS	954.0	S	0.2	2094	9.1	2017	12.1	96.3	95.0	Pass
901	ME 17+50 DS	954.0	S	0.2	2094	9.1	1991	11.9	95.1	95.0	Pass
902	ME 17+00 CL	953.6	S	0.2	2094	9.1	1995	12.4	95.3	95.0	Pass
903	ME 16+50 CL	953.7	S	0.2	2094	9.1	2042	12.8	97.5	95.0	Pass
904	ME 20+75 US	953.6	S	0.2	2094	9.1	2010	12.3	96.0	95.0	Pass
905	ME 19+75 US	954.0	S	0.2	2094	9.1	2014	11.5	96.2	95.0	Pass
906	ME 16+00 DS	952.5	S	0.2	2094	9.1	2013	9.3	96.1	95.0	Pass
907	PE 38+75 US	953.9	S	0.2	2094	9.1	2055	7.2	98.1	95.0	Pass
908	PE 39+25 CL	953.3	S	0.2	2094	9.1	2040	7.7	97.4	95.0	Pass
909	PE 39+75	953.2	S	0.2	2094	9.1	2154	7.6	102.8	95.0	Pass
910	PE 40+25 US	953.0	S	0.2	2094	9.1	2097	7.9	100.1	95.0	Pass
911	PE 40+75 DS	953.0	S	0.2	2094	9.1	2087	8.3	99.6	95.0	Pass
912	PE 41+25 CL	952.8	S	0.2	2094	9.1	2055	8.2	98.1	95.0	Pass
913	PE 41+75 US	952.8	S	0.2	2094	9.1	2078	7.5	99.2	95.0	Pass
914	PE 42+25	952.8	S	0.2	2094	9.1	2201	7.7	105.1	95.0	Pass
915	PE 42+75	953.2	S	0.2	2094	9.1	2119	8.1	101.2	95.0	Pass
916	SE 15+50	952.3	S	0.2	2094	9.1	2017	11.2	96.3	95.0	Pass
917	SE 14+50	952.5	S	0.2	2094	9.1	2006	11.3	95.8	95.0	Pass
918	ME 16+50	953.9	S	0.2	2094	9.1	2046	10.7	97.7	95.0	Pass
919	ME 17+00	953.9	S	0.2	2094	9.1	2116	9.6	101.0	95.0	Pass
920	ME 20+75	953.9	S	0.2	2094	9.1	2062	10.7	98.5	95.0	Pass
921	ME 20+25	953.9	S	0.2	2094	9.1	2013	12.4	96.1	95.0	Pass
922	SE 15+00 CL	952.4	S	0.2	2094	9.1	2011	11.6	96.0	95.0	Pass
923	PE 43+25	953.1	S	0.2	2094	9.1	2107	9.1	100.6	95.0	Pass
924	PE 43+75	952.9	S	0.2	2094	9.1	2075	9.6	99.1	95.0	Pass
925	PE 44+25	952.8	S	0.2	2094	9.1	2120	8.5	101.2	95.0	Pass
926	PE 44+75 CL	952.6	S	0.2	2094	9.1	2025	10.9	96.7	95.0	Pass
927	PE 45+25 US	952.6	S	0.2	2094	9.1	2065	9.0	98.6	95.0	Pass
928	SE 14+00 CL	952.4	S	0.2	2094	9.1	1995	11.1	95.3	95.0	Pass
929	SE 13+50 US	952.3	S	0.2	2094	9.1	2019	11.0	96.4	95.0	Pass
930	SE 13+00 DS	952.2	S	0.2	2094	9.1	2030	10.6	96.9	95.0	Pass
931	SE 11+50 US	951.9	S	0.2	2094	9.1	2041	10.1	97.5	95.0	Pass
932	SE 11+00 DS	951.9	S	0.2	2094	9.1	2001	12.0	95.5	95.0	Pass
933	SE 10+50 US	952.0	S	0.2	2094	9.1	2015	11.2	96.2	95.0	Pass
934	SE 10+00 CL	951.8	S	0.2	2094	9.1	2000	12.0	95.5	95.0	Pass
935	PE 27+75 CL	954.0	S	0.2	2094	9.1	2033	10.8	97.1	95.0	Pass
936	PE 38+75 CL	954.0	S	0.2	2094	9.1	2028	11.5	96.8	95.0	Pass
937	PE 39+25 US	953.5	S	0.2	2094	9.1	2010	12.1	96.0	95.0	Pass
938	PE 39+75 DS	953.4	S	0.2	2094	9.1	2047	10.8	97.7	95.0	Pass
939	PE 40+25 DS	953.2	S	0.2	2094	9.1	2034	10.3	97.1	95.0	Pass
940	PE 40+75 CL	953.1	S	0.2	2094	9.1	2089	10.0	99.7	95.0	Pass
941	PE 41+25 US	953.0	S	0.2	2094	9.1	2041	10.0	97.5	95.0	Pass
942	PE 41+75 US	953.0	S	0.2	2094	9.1	2014	10.9	96.2	95.0	Pass
943	PE 42+25 CL	953.1	S	0.2	2094	9.1	2063	10.0	98.5	95.0	Pass
944	PE 42+75 DS	953.5	S	0.2	2094	9.1	2090	10.6	99.8	95.0	Pass
945	PE 43+25 CL	953.6	S	0.2	2094	9.1	2035	10.4	97.2	95.0	Pass
946	PE 38+50	953.9	S	0.2	2094	9.1	2085	10.3	99.6	95.0	Pass
947	PE 40+00	951.3	S	0.2	2094	9.1	2133	10.6	101.8	95.0	Pass
948	PE 40+50	951.3	S	0.2	2094	9.1	2060	11.2	98.4	95.0	Pass
949	PE 41+00	953.3	S	0.2	2094	9.1	2033	11.5	97.1	95.0	Pass
950	PE 43+75 US	953.3	S	0.2	2094	9.1	1990	12.0	95.0	95.0	Pass
951	PE 44+25 US	953.2	S	0.2	2094	9.1	2021	12.3	96.5	95.0	Pass
952	PE 44+75 US	953.0	S	0.2	2094	9.1	1994	11.7	95.2	95.0	Pass
953	PE 45+25 DS	952.6	S	0.2	2094	9.1	2045	10.6	97.6	95.0	Pass
954	ME 15+75 CL	952.7	S	0.2	2094	9.1	2034	10.8	97.1	95.0	Pass
955	SE 15+25 DS	952.8	S	0.2	2094	9.1	2034	11.6	97.1	95.0	Pass

#N/A

Rev'd 4-Dec-08

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23

DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m³)	Optimum Moisture (%)	Dry Density (kg/m³)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
956	PE 39+25	953.9	S	0.2	2094	9.1	2023	10.6	96.6	95.0	Pass
957	PE 39+75	953.9	S	0.2	2094	9.1	2022	10.8	96.5	95.0	Pass
958	PE 40+75 DS	953.6	S	0.2	2094	9.1	2058	10.0	98.3	95.0	Pass
959	PE 41+25 US	953.1	S	0.2	2094	9.1	2028	10.9	96.8	95.0	Pass
960	PE 41+75 DS	953.2	S	0.2	2094	9.1	2059	11.6	98.3	95.0	Pass
961	PE 42+75 CL	953.5	S	0.2	2094	9.1	2008	10.9	95.9	95.0	Pass
962	PE 43+25 US	953.7	S	0.2	2094	9.1	2014	10.8	96.2	95.0	Pass
963	PE 43+75 CL	953.6	S	0.2	2094	9.1	2035	10.3	97.2	95.0	Pass
964	PE 44+75 CL	953.0	S	0.2	2094	9.1	2075	10.2	99.1	95.0	Pass
965	PE 40+75 CL	953.8	S	0.2	2094	9.1	2071	10.1	98.9	95.0	Pass
966	PE 41+25 DS	953.6	S	0.2	2094	9.1	2066	10.1	98.6	95.0	Pass
967	PE 41+75 CL	953.5	S	0.2	2094	9.1	2053	10.1	98.0	95.0	Pass
968	PE 42+25 US	953.0	S	0.2	2094	9.1	2033	10.4	97.1	95.0	Pass
969	PE 42.75 DS	953.9	S	0.2	2094	9.1	2059	10.3	98.3	95.0	Pass
970	PE 43+25 US	954.0	S	0.2	2094	9.1	2014	11.6	96.2	95.0	Pass
971	PE 43+75 CL	953.8	S	0.2	2094	9.1	2012	11.7	96.1	95.0	Pass
972	PE 44+24 US	953.7	S	0.2	2094	9.1	2024	11.0	96.6	95.0	Pass
973	SE 14+25 CL	952.5	S	0.2	2094	9.1	1997	11.2	95.4	95.0	Pass
974	SE 13+25 CL	952.4	S	0.2	2094	9.1	2113	11.3	100.9	95.0	Pass
975	SE 12+25	952.5	S	0.2	2094	9.1	2010	11.0	96.0	95.0	Pass
976	SE 14+00	952.9	S	0.2	2094	9.1	2008	11.4	95.9	95.0	Pass
977	SE 1100 US	952.4	S	0.2	2094	9.1	2029	10.7	96.9	95.0	Pass
978	SE 1050 C	952.5	S	0.2	2094	9.1	2099	9.5	100.2	95.0	Pass
979	SE 1000 DS	952.5	S	0.2	2094	9.1	2054	10.5	98.1	95.0	Pass
980	ME 1600 C	952.6	S	0.2	2094	9.1	2086	9.6	99.6	95.0	Pass
981	SE 1550 US	953.0	S	0.2	2094	9.1	2044	10.0	97.6	95.0	Pass
982	SE 1500 C	953.1	S	0.2	2094	9.1	2056	9.8	98.2	95.0	Pass
983	SE 1450 US	953.1	S	0.2	2094	9.1	2001	10.1	95.5	95.0	Pass
984	SE 1400 DS	953.3	S	0.2	2094	9.1	2075	9.9	99.1	95.0	Pass
985	SE 1350 C	953.0	S	0.2	2094	9.1	2067	9.9	98.7	95.0	Pass
986	SE 1300 US	953.1	S	0.2	2094	9.1	2111	10.2	100.8	95.0	Pass
987	PE 4000 US	954.0	S	0.2	2094	9.1	2010	12.0	96.0	95.0	Pass
988	PE 4050 DS	954.0	S	0.2	2094	9.1	2050	11.6	97.9	95.0	Pass
989	PE 4100 US	954.0	S	0.2	2094	9.1	2057	10.0	98.2	95.0	Pass
990	PE 4150 US	953.7	S	0.2	2094	9.1	2119	10.2	101.2	95.0	Pass
991	PE 4200 DS	953.8	S	0.2	2094	9.1	2096	10.2	100.1	95.0	Pass
992	PE 4275 C	954.0	S	0.2	2094	9.1	2061	10.1	98.4	95.0	Pass
993	PE 4325 US	954.0	S	0.2	2094	9.1	2118	9.6	101.1	95.0	Pass
994	PE 4375 US	953.9	S	0.2	2094	9.1	2049	11.3	97.8	95.0	Pass
995	PE 4425 C	953.7	S	0.2	2094	9.1	2140	8.8	102.2	95.0	Pass
996	PE 4480 DS	953.5	S	0.2	2094	9.1	2084	9.4	99.5	95.0	Pass
997	PE 4550 C	952.5	S	0.2	2094	9.1	2059	10.9	98.3	95.0	Pass
998	SE 1250 C	952.7	S	0.2	2094	9.1	2122	9.7	101.3	95.0	Pass
999	SE 1200 US	952.7	S	0.2	2094	9.1	2117	9.6	101.1	95.0	Pass
1000	SE 1150 US	952.8	S	0.2	2094	9.1	2131	9.6	101.7	95.0	Pass
1001	SE 1075 C	952.7	S	0.2	2094	9.1	2036	9.3	97.2	95.0	Pass
1002	PE 1075 US	952.7	S	0.2	2094	9.1	2090	10.2	99.8	95.0	Pass
1003	SE 975 W	951.3	S	0.2	2094	9.1	2084	9.6	99.5	95.0	Pass
1004	SE 900 W	951.3	S	0.2	2094	9.1	2118	8.5	101.1	95.0	Pass
1005	SE 850 W	951.3	S	0.2	2094	9.1	2079	12.0	99.3	95.0	Pass
1006	ME 1600 C	953.1	S	0.2	2094	9.1	2137	9.6	102.0	95.0	Pass
1007	SE 1550 C	953.3	S	0.2	2094	9.1	2121	10.3	101.3	95.0	Pass
1008	SE 1475 US	953.3	S	0.2	2094	9.1	2112	10.6	100.8	95.0	Pass
1009	SE 1400 DS	953.3	S	0.2	2094	9.1	2106	11.1	100.6	95.0	Pass
1010	SE 1300 C	953.3	S	0.2	2094	9.1	2096	10.8	100.1	95.0	Pass
1011	SE 1225 US	952.8	S	0.2	2094	9.1	2111	10.9	100.8	95.0	Pass
1012	SE 950 W	951.6	S	0.2	2094	9.1	2102	10.3	100.4	95.0	Pass
1013	SE 900 W	951.6	S	0.2	2094	9.1	2143	9.4	102.3	95.0	Pass
1014	SE 800 W	951.6	S	0.2	2094	9.1	2052	9.6	98.0	95.0	Pass
1015	SE 1100 C	952.7	S	0.2	2094	9.1	2060	10.5	98.4	95.0	Pass
1016	SE 1175 US	952.8	S	0.2	2094	9.1	2112	9.6	100.8	95.0	Pass
1017	SE 950 W	951.9	S	0.2	2094	9.1	2135	8.8	101.9	95.0	Pass
1018	SE 875 W	951.9	S	0.2	2094	9.1	2130	10.0	101.7	95.0	Pass
1019	ME 1625 US	953.7	S	0.2	2094	9.1	2128	9.6	101.6	95.0	Pass
1020	SE 1550 C	953.4	S	0.2	2094	9.1	2096	9.7	100.1	95.0	Pass
1021	SE 1050 DS	953.0	S	0.2	2094	9.1	2158	9.7	103.0	95.0	Pass
1022	SE 975 US	952.4	S	0.2	2094	9.1	2130	9.9	101.7	95.0	Pass
1023	SE 800 C	952.1	S	0.2	2094	9.1	2067	10.9	98.7	95.0	Pass
1024	SE 950 C	952.4	S	0.2	2094	9.1	2106	10.6	100.6	95.0	Pass
1025	SE 1475 C	953.5	S	0.2	2094	9.1	2153	9.6	102.8	95.0	Pass
1026	SE 1400 DS	953.5	S	0.2	2094	9.1	2102	10.0	100.4	95.0	Pass
1027	SE 1325 US	953.5	S	0.2	2094	9.1	2092	10.0	99.9	95.0	Pass
1028	SE 800 DS	952.5	S	0.2	2094	9.1	2015	12.5	96.2	95.0	Pass
1029	SE 975 US	952.3	S	0.2	2094	9.1	2022	12.5	96.5	95.0	Pass
1030	SE 1025 DS	953.3	S	0.2	2094	9.1	2048	11.5	97.8	95.0	Pass
1031	SE 1100 C	953.3	S	0.2	2094	9.1	2030	11.8	96.9	95.0	Pass
1032	SE 1175 US	953.3	S	0.2	2094	9.1	2105	9.9	100.5	95.0	Pass
1033	SE 1250 DS	953.3	S	0.2	2094	9.1	2051	11.6	97.9	95.0	Pass
1034	SE 1300 C	953.3	S	0.2	2094	9.1	2167	9.6	103.5	95.0	Pass
1035	SE 750 W	951.3	S	0.2	2094	9.1	2023	7.9	96.6	95.0	Pass
1036	SE 875 DS	952.7	S	0.2	2094	9.1	2099	10.4	100.2	95.0	Pass
1037	ME 1600 C	953.7	S	0.2	2094	9.1	2072	11.2	98.9	95.0	Pass
1038	SE 1550 US	953.7	S	0.2	2094	9.1	2083	11.4	99.5	95.0	Pass
1039	SE 750 W	951.6	S	0.2	2094	9.1	2112	10.6	100.8	95.0	Pass
1040	SE 750 W	951.9	S	0.2	2094	9.1	2052	10.9	98.0	95.0	Pass
1041	SE 950 C	953.0	S	0.2	2094	9.1	2092	10.9	99.9	95.0	Pass
1042	SE 875 US	953.0	S	0.2	2094	9.1	2089	10.1	99.7	95.0	Pass

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Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23

DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m^3)	Optimum Moisture (%)	Dry Density (kg/m^3)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or
1043	SE 810 DS	953.0	S	0.2	2094	9.1	2100	9.4	100.3	95.0	Pass
1044	SE 1475 DS	953.7	S	0.2	2094	9.1	2060	11.8	98.4	95.0	Pass
1045	SE 1400 C	953.7	S	0.2	2094	9.1	2092	11.1	99.9	95.0	Pass
1046	SE 1325 US	953.7	S	0.2	2094	9.1	2006	10.6	95.8	95.0	Pass
1047	SE 1250 C	953.7	S	0.2	2094	9.1	2013	12.3	96.1	95.0	Pass
1048	SE 1175 C	953.5	S	0.2	2094	9.1	2009	12.9	95.9	95.0	Pass
1049	SE 1025 C	953.6	S	0.2	2094	9.1	2094	9.4	100.0	95.0	Pass
1050	SE 950 C	953.0	S	0.2	2094	9.1	2154	9.8	102.8	95.0	Pass
1051	SE 875 DS	953.0	S	0.2	2094	9.1	2110	9.9	100.7	95.0	Pass
1052	SE 825 DS	953.0	S	0.2	2094	9.1	1999	13.5	95.4	95.0	Pass
1053	SE 725 C	952.3	S	0.2	2094	9.1	2037	10.5	97.3	95.0	Pass
1054	SE 1075 C	953.6	S	0.2	2094	9.1	2020	12.7	96.4	95.0	Pass
1055	SE 1125 DS	953.5	S	0.2	2094	9.1	2063	11.9	98.5	95.0	Pass
1056	ME 1625 DS	954.0	S	0.2	2094	9.1	1999	13.1	95.4	95.0	Pass
1057	SE 1525 US	954.0	S	0.2	2094	9.1	2013	13.3	96.1	95.0	Pass
1058	SE 1535 US	953.8	S	0.2	2094	9.1	2041	12.1	97.5	95.0	Pass
1059	SE 1025 C	953.8	S	0.2	2094	9.1	2116	10.0	101.0	95.0	Pass
1060	SE 950 US	953.3	S	0.2	2094	9.1	2013	13.0	96.1	95.0	Pass
1061	SE 875 DS	953.3	S	0.2	2094	9.1	2065	11.4	98.6	95.0	Pass
1062	PE 3925 C	954.0	S	0.2	2094	9.1	2009	12.8	95.9	95.0	Pass
1063	PE 3975 US	954.0	S	0.2	2094	9.1	2070	10.0	98.8	95.0	Pass
1064	PE 4110 US	954.0	S	0.2	2094	9.1	2064	11.4	98.5	95.0	Pass
1065	PE 4140 US	954.0	S	0.2	2094	9.1	2055	12.3	98.1	95.0	Pass
1066	PE 4650 W	951.0	S	0.2	2094	9.1	2100	7.1	100.3	95.0	Pass
1067	PE 4200 DS	954.0	S	0.2	2094	9.1	2014	11.5	96.2	95.0	Pass
1068	PE 4275 US	954.0	S	0.2	2094	9.1	2035	11.2	97.2	95.0	Pass
1069	PE 4425 DS	954.0	S	0.2	2094	9.1	2113	10.3	100.9	95.0	Pass
1070	PE 4500 US	953.0	S	0.2	2094	9.1	2088	10.1	99.7	95.0	Pass
1071	PE 4550 US	952.7	S	0.2	2094	9.1	1991	12.8	95.1	95.0	Pass
1072	PE 4600 C	951.6	S	0.2	2094	9.1	2010	12.3	96.0	95.0	Pass
1073	PE 4630 US	951.6	S	0.2	2094	9.1	2031	11.6	97.0	95.0	Pass
1074	SE 14+85 C	954.1	S	0.2	2094	9.1	2100	10.9	100.3	95.0	Pass
1075	SE 14+25 DS	954.1	S	0.2	2094	9.1	2018	12.1	96.4	95.0	Pass
1076	SE 13+75 US	954.1	S	0.2	2094	9.1	2065	11.4	98.6	95.0	Pass
1077	SE 13+25 C	954.0	S	0.2	2094	9.1	2044	11.7	97.6	95.0	Pass
1078	SE 12+75 US	954.0	S	0.2	2094	9.1	2135	9.4	101.9	95.0	Pass
1079	SE 12+25 DS	954.0	S	0.2	2094	9.1	2099	10.3	100.2	95.0	Pass
1080	SE 13+25 US	954.0	S	0.2	2094	9.1	2068	10.9	98.7	95.0	Pass
1081	SE 12+50 C	953.8	S	0.2	2094	9.1	2095	10.5	100.0	95.0	Pass
1082	SE 12+00 DS	953.7	S	0.2	2094	9.1	2081	10.3	99.4	95.0	Pass
1083	SE 11+25 US	953.7	S	0.2	2094	9.1	2044	10.9	97.6	95.0	Pass
1084	SE 10+50 C	953.7	S	0.2	2094	9.1	2047	12.0	97.7	95.0	Pass
1085	SE 10+00 DS	953.8	S	0.2	2094	9.1	2023	12.8	96.6	95.0	Pass
1086	PE 44+25 DS	954.0	S	0.2	2094	9.1	2088	9.9	99.7	95.0	Pass
1087	PE 45+00 C	953.9	S	0.2	2094	9.1	2090	9.8	99.8	95.0	Pass
1088	PE 45+50 DS	953.0	S	0.2	2094	9.1	2006	12.1	95.8	95.0	Pass
1089	PE 46+25	951.9	S	0.2	2094	9.1	2084	10.0	99.5	95.0	Pass
1090	SE 9+60 C	953.7	S	0.2	2094	9.1	2077	10.7	99.2	95.0	Pass
1091	SE 8+90 D	953.8	S	0.2	2094	9.1	2000	10.4	95.5	95.0	Pass
1092	SE 8+25 C	953.8	S	0.2	2094	9.1	2078	10.6	99.2	95.0	Pass
1093	SE 7+75 U	953.0	S	0.2	2094	9.1	2066	11.2	98.6	95.0	Pass
1094	SE 7+25 C	952.6	S	0.2	2094	9.1	2069	10.3	98.8	95.0	Pass
1095	SE 6+75 W	951.0	S	0.2	2094	9.1	2180	8.2	104.1	95.0	Pass
1096	SE 12+50 C	954.0	S	0.2	2094	9.1	2129	9.7	101.7	95.0	Pass
1097	SE 12+00 D	954.0	S	0.2	2094	9.1	2067	11.6	98.7	95.0	Pass
1098	SE 8+50 U	954.0	S	0.2	2094	9.1	2020	12.1	96.4	95.0	Pass
1099	SE 9+00 D	954.0	S	0.2	2094	9.1	2008	11.6	95.9	95.0	Pass
1100	SE 9+50 C	954.0	S	0.2	2094	9.1	2076	10.6	99.1	95.0	Pass
1101	SE 10+00 U	954.0	S	0.2	2094	9.1	2026	11.3	96.7	95.0	Pass
1102	SE 10+75 D	954.0	S	0.2	2094	9.1	2053	11.0	98.0	95.0	Pass
1103	SE 11+25 D	954.0	S	0.2	2094	9.1	2107	11.1	100.6	95.0	Pass
1104	SE 7+00 C	952.3	S	0.2	2094	9.1	2035	12.4	97.2	95.0	Pass
1105	SE 7+50 D	953.0	S	0.2	2094	9.1	2029	11.7	96.9	95.0	Pass
1106	SE 8+00 U	953.7	S	0.2	2094	9.1	2163	10.6	103.3	95.0	Pass
1107	SE 8+50 U	954.0	S	0.2	2094	9.1	2010	12.6	96.0	95.0	Pass
1108	SE 9+00 C	954.0	S	0.2	2094	9.1	2069	11.0	98.8	95.0	Pass
1109	SE 9+75 D	954.0	S	0.2	2094	9.1	2034	10.3	97.1	95.0	Pass
1110	SE 10+50 US	954.0	S	0.2	2094	9.1	2098	10.1	100.2	95.0	Pass
1111	SE 6+00 W	952.0	S	0.2	2094	9.1	2007	12.6	95.8	95.0	Pass
1112	SE 6+75 C	952.0	S	0.2	2094	9.1	2064	11.2	98.5	95.0	Pass
1113	SE 8+25 D	953.7	S	0.2	2094	9.1	2059	12.1	98.3	95.0	Pass
1114	SE 8+00 C	953.3	S	0.2	2094	9.1	2038	11.0	97.3	95.0	Pass
1115	SE 6+15 D	952.3	S	0.2	2094	9.1	2056	11.5	98.2	95.0	Pass
1116	SE 6+75 D	952.3	S	0.2	2094	9.1	2023	11.8	96.6	95.0	Pass
1117	SE 7+40 C	953.6	S	0.2	2094	9.1	2071	10.6	98.9	95.0	Pass
1118	SE 8+00 C	954.0	S	0.2	2094	9.1	2050	12.2	97.9	95.0	Pass
1119	SE 7+35 C	953.6	S	0.2	2094	9.1	2029	12.1	96.9	95.0	Pass
1120	SE 6+15 C	952.7	S	0.2	2094	9.1	2041	12.4	97.5	95.0	Pass
1121	SE 6+50 D	952.5	S	0.2	2094	9.1	2049	11.5	97.8	95.0	Pass
1122	SE 7+00 C	953.0	S	0.2	2094	9.1	2060	11.3	98.4	95.0	Pass
1123	SE 5+85 C	953.3	S	0.2	2094	9.1	2021	11.9	96.5	95.0	Pass
1124	SE 7+25 C	954.0	S	0.2	2094	9.1	2062	9.7	98.5	95.0	Pass
1125	SE 7+75 U	953.3	S	0.2	2094	9.1	2044	14.2	97.6	95.0	Pass
1126	SE 5+80 U	953.1	S	0.2	2094	9.1	2037	11.0	97.3	95.0	Pass
1127	SE 6+50 C	952.9	S	0.2	2094	9.1	2038	12.1	97.3	95.0	Pass
1128	SE 6+85 C	953.5	S	0.2	2094	9.1	2036	11.5	97.2	95.0	Pass
1129	SE 7+40 U	953.8	S	0.2	2094	9.1	2036	11.6	97.2	95.0	Pass

#N/A

Rev'd 4-Dec-08

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23

DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	Max. Dry Density (kg/m³)	Optimum Moisture (%)	Dry Density (kg/m³)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or (%)
1130	SE 7+65 D	954.0	S	0.2	2094	9.1	2009	12.4	95.9	95.0	Pass
1131	SE 6+25 C	953.3	S	0.2	2094	9.1	2062	10.9	98.5	95.0	Pass
1132	SE 7+65 C	954.0	S	0.2	2094	9.1	2047	10.9	97.7	95.0	Pass
1133	SE 7+10 U	953.9	S	0.2	2094	9.1	2034	11.7	97.1	95.0	Pass
1134	SE 5+50 C	954.0	S	0.2	2094	9.1	2082	10.8	99.4	95.0	Pass
1135	SE 6+25 C	953.5	S	0.2	2094	9.1	2047	11.5	97.7	95.0	Pass
1136	SE 5+65 U	953.8	S	0.2	2094	9.1	2057	11.3	98.2	95.0	Pass
1137	SE 7+25 D	954.0	S	0.2	2094	9.1	2030	11.2	96.9	95.0	Pass
1138	SE 6+75 D	953.8	S	0.2	2094	9.1	2075	11.7	99.1	95.0	Pass
1139	SE 6+25 C	953.8	S	0.2	2094	9.1	2057	11.8	98.2	95.0	Pass
1140	SE 6+00 D	953.8	S	0.2	2094	9.1	2022	12.3	96.5	95.0	Pass
1141	SE 6+75 U	954.1	S	0.2	2094	9.1	2075	11.7	99.1	95.0	Pass
1142	SE 6+00 C	954.0	S	0.2	2094	9.1	2014	12.3	96.2	95.0	Pass
1143	SE 6+40 U	954.0	S	0.2	2094	9.1	2065	11.6	98.6	95.0	Pass
1144	PE 45+75 C	952.5	S	0.2	2094	9.1	2041	12.2	97.5	95.0	Pass
1145	PE 46+25 U	952.3	S	0.2	2094	9.1	2083	11.2	99.5	95.0	Pass
1146	PE 46+75 U	953.6	S	0.2	2094	9.1	2038	11.6	97.3	95.0	Pass
1147	PE 45+00 C	954.0	S	0.2	2094	9.1	1997	12.3	95.4	95.0	Pass
1148	PE 44+50 US	954.0	S	0.2	2094	9.1	1994	12.2	95.2	95.0	Pass
1149	PE 46+75 U	953.8	S	0.2	2094	9.1	1992	11.8	95.1	95.0	Pass
1150	PE 47+00 C	954.0	S	0.2	2094	9.1	2129	8.7	101.7	95.0	Pass
1151	PE 45+10 D	953.7	S	0.2	2094	9.1	1996	10.7	95.3	95.0	Pass
1152	PE 45+25 CL	953.7	S	0.2	2094	9.1	2056	10.3	98.2	95.0	Pass
1153	PE 45+75 C	952.8	S	0.2	2094	9.1	2021	12.0	96.5	95.0	Pass
1154	PE 44+75 US	954.0	S	0.2	2094	9.1	2036	11.4	97.2	95.0	Pass
1155	PE 46+50 U	953.4	S	0.2	2094	9.1	2086	10.9	99.6	95.0	Pass
1156	PE 46+75 C	954.1	S	0.2	2094	9.1	2060	10.8	98.4	95.0	Pass
1157	PE 45+15 C	954.0	S	0.2	2094	9.1	1999	13.2	95.4	95.0	Pass
1158	PE 45+50 C	953.6	S	0.2	2094	9.1	2051	11.7	97.9	95.0	Pass
1159	PE 46+00 U	953.2	S	0.2	2094	9.1	2006	12.9	95.8	95.0	Pass
1160	PE 46+40 D	953.5	S	0.2	2094	9.1	2038	12.1	97.3	95.0	Pass
1161	PE 47+00 C	954.1	S	0.2	2094	9.1	2017	11.3	96.3	95.0	Pass
1162	PE 45+25 CL	954.1	S	0.2	2094	9.1	2074	10.9	99.0	95.0	Pass
1163	PE 46+00 U	953.5	S	0.2	2094	9.1	2078	11.4	99.2	95.0	Pass
1164	Corner 2	953.5	S	0.2	2094	9.1	1995	12.0	95.3	95.0	Pass
1165	Corner 2	953.9	S	0.2	2094	9.1	2023	11.0	96.6	95.0	Pass
1166	PE45+50	953.8	S	0.2	2094	9.1	2051	12.0	97.9	95.0	Pass
1167	PE46+00	953.5	S	0.2	2094	9.1	2067	11.7	98.7	95.0	Pass
1168	PE46+50	953.4	S	0.2	2094	9.1	2043	11.9	97.5	95.0	Pass
1169	PE45+50	954.1	S	0.2	2094	9.1	2070	11.2	98.8	95.0	Pass
1170	PE46+00	953.8	S	0.2	2094	9.1	2125	11.0	101.5	95.0	Pass
						Minimum	1990	5.2	95.0		
						Maximum	2244	14.2	107.1		
						Average	2059	10.0	98.3		

Comments:

Number of Tests:

	Kg/m³	M.C.
R-S6-ZS-01/08	2080	8.0
R-S6-ZS-02/08	2080	9.5
R-S6-ZS-03/08	2070	10.0
R-S6-ZS-04/08	2140	9.0
R-S6-ZS-05/08	2070	8.0
R-S6-ZS-06/08	2080	9.5
R-S6-ZS-07/08	2150	8.5
R-S6-ZS-08/08	2070	9.5
R-S6-ZS-09/08	2120	9.0
C-S6-ZS-01/08	2140	8.5
C-S6-ZS-02/08	2080	9.5
C-S6-ZS-03/08	2070	10.5
C-S6-ZS-04/08	2090	9.0
C-S6-ZS-05/08	2100	8.0
C-S6-ZS-06/08	2160	8.5
C-S6-ZS-07/08	2010	10.5
average	2094	9.1
min	2010	8.0
max	2160	10.5

Technician: _____ DS: _____ MS: _____ Gauge No: MD70208639 Daily Rep.# _____

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APPENDIX B2

ZONE U RECORD

(Page B2-1)

Knight Piésold CONSULTING

FIELD COMPACTION TESTS (Metric)
NUCLEAR GAUGE

PROJECT NO.: 101-01/23
DATE: May to October 2008

TEST NO.	Location	Elevation (m)	Zone	Test Depth (m)	LABORATORY Max. Dry Density (kg/m³)	LABORATORY Optimum Moisture (%)	FIELD MEASUREMENTS Dry Density (kg/m³)	Moisture Content (%)	Compaction (%)	Compaction Specification (%)	Pass or Fail
1254	PE 45+15 US	951.0	U	0.2	1675	16.5	1881	4.2	112.3	95.0	Pass
1255	PE 43+50 US	951.0	U	0.2	1675	16.5	1792	7.2	107.0	95.0	Pass
1256	PE 42+00 US	951.0	U	0.2	1675	16.5	1739	6.4	103.8	95.0	Pass
1257	PE 41+00 US	951.0	U	0.2	1675	16.5	1924	6.4	114.9	95.0	Pass
1282	SE 6+15 D	951.0	U	0.2	1675	16.5	1832	5.8	109.4	95.0	Pass
1283	SE 6+75 D	951.0	U	0.2	1675	16.5	1987	7.4	118.6	95.0	Pass
1284	SE 7+40 D	951.0	U	0.2	1675	16.5	1846	4.8	110.2	95.0	Pass
1285	SE 8+00 D	951.0	U	0.2	1675	16.5	1657	6.4	98.9	95.0	Pass
1286	SE 8+30 D	951.0	U	0.2	1675	16.5	1769	5.1	105.6	95.0	Pass
1287	SE 9+00 D	951.0	U	0.2	1675	16.5	1746	9.9	104.2	95.0	Pass
1288	SE 9+85 D	951.0	U	0.2	1675	16.5	1761	7.7	105.1	95.0	Pass
1289	SE 10+80 D	951.0	U	0.2	1675	16.5	1754	10.1	104.7	95.0	Pass
1290	PE 41+75 US	951.0	U	0.2	1675	16.5	1702	8.3	101.6	95.0	Pass
1291	PE 40+50 US	951.0	U	0.2	1675	16.5	1710	7.2	102.1	95.0	Pass
1292	PE 38+75 US	951.0	U	0.2	1675	16.5	1813	7.3	108.2	95.0	Pass
1293	PE 37+75 U	951.0	U	0.2	1675	16.5	1710	7.9	102.1	95.0	Pass
1294	PE 36+75 US	951.0	U	0.2	1675	16.5	1854	8.5	110.7	95.0	Pass
						Minimum	1657.0	4.2	98.9		
						Maximum	1987.0	10.1	118.6		
						Median	1769.0	7.2	105.6		
						Standard Deviation	86.5	1.6	5.2		
						Average	1792.8	7.1	107.0		

Comments:	Proctor No.:	Proctor Description:		
Number of Tests:		Kg/m³	M.C.	95%
17	R-S6-ZU-02/08	1690	16.0	1606
	R-S6-ZU-03/08	1660	17.0	1577

Technician: _____ DS: _____ MS: _____ Gauge No: MD70208639 Daily Rep.# _____

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APPENDIX C

PIEZOMETER FIGURES

Appendix C1	Tailings Piezometers
Appendix C2	Foundation Piezometers
Appendix C3	Fill Piezometers
Appendix C4	Drain piezometers

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APPENDIX C1

TAILINGS PIEZOMETERS

(Pages C1-1 to C1-9)

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane A PIEZOPlane A Tailings

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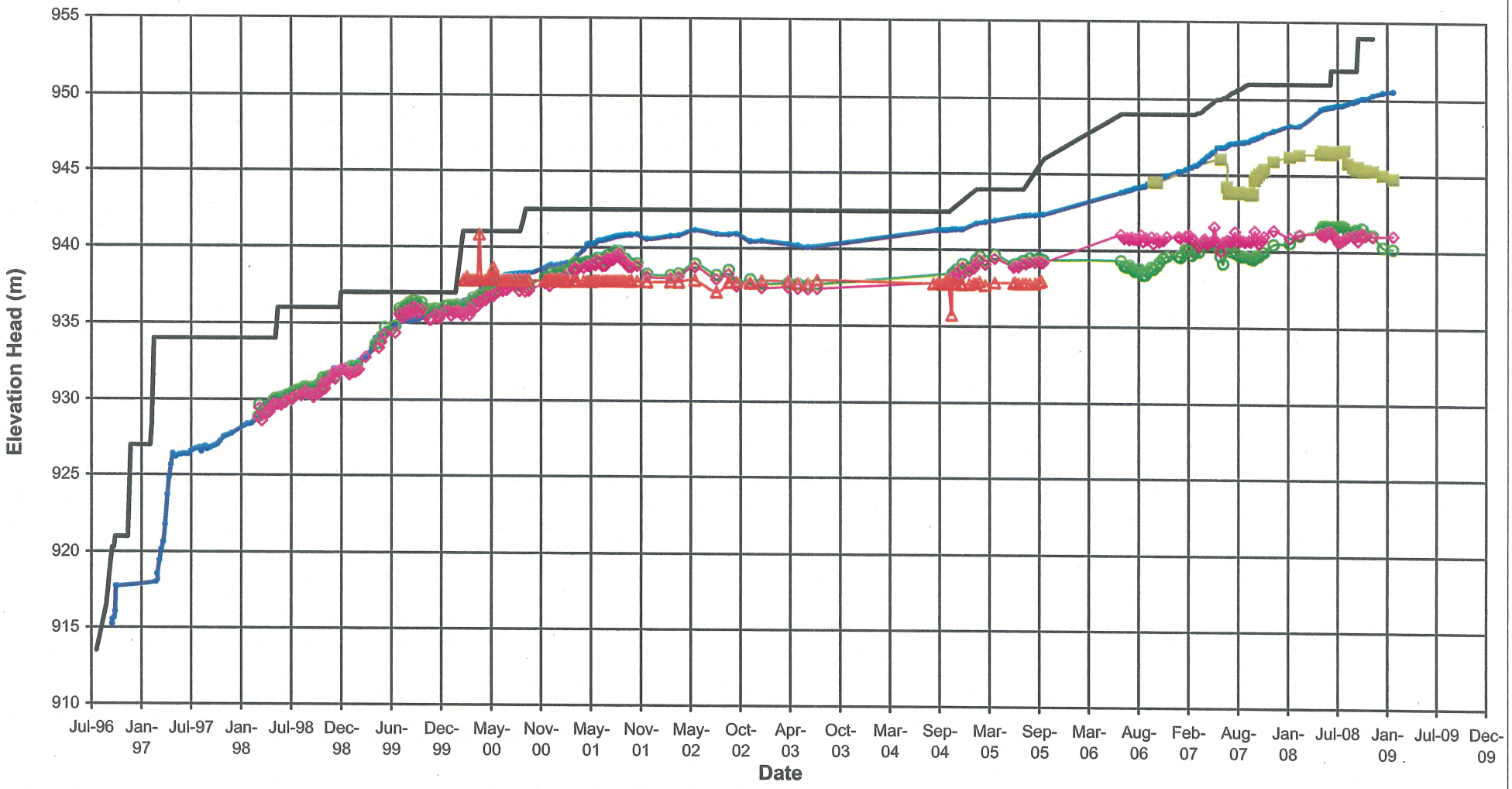

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

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MOUNT POLLEY MINE

PLANE A TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

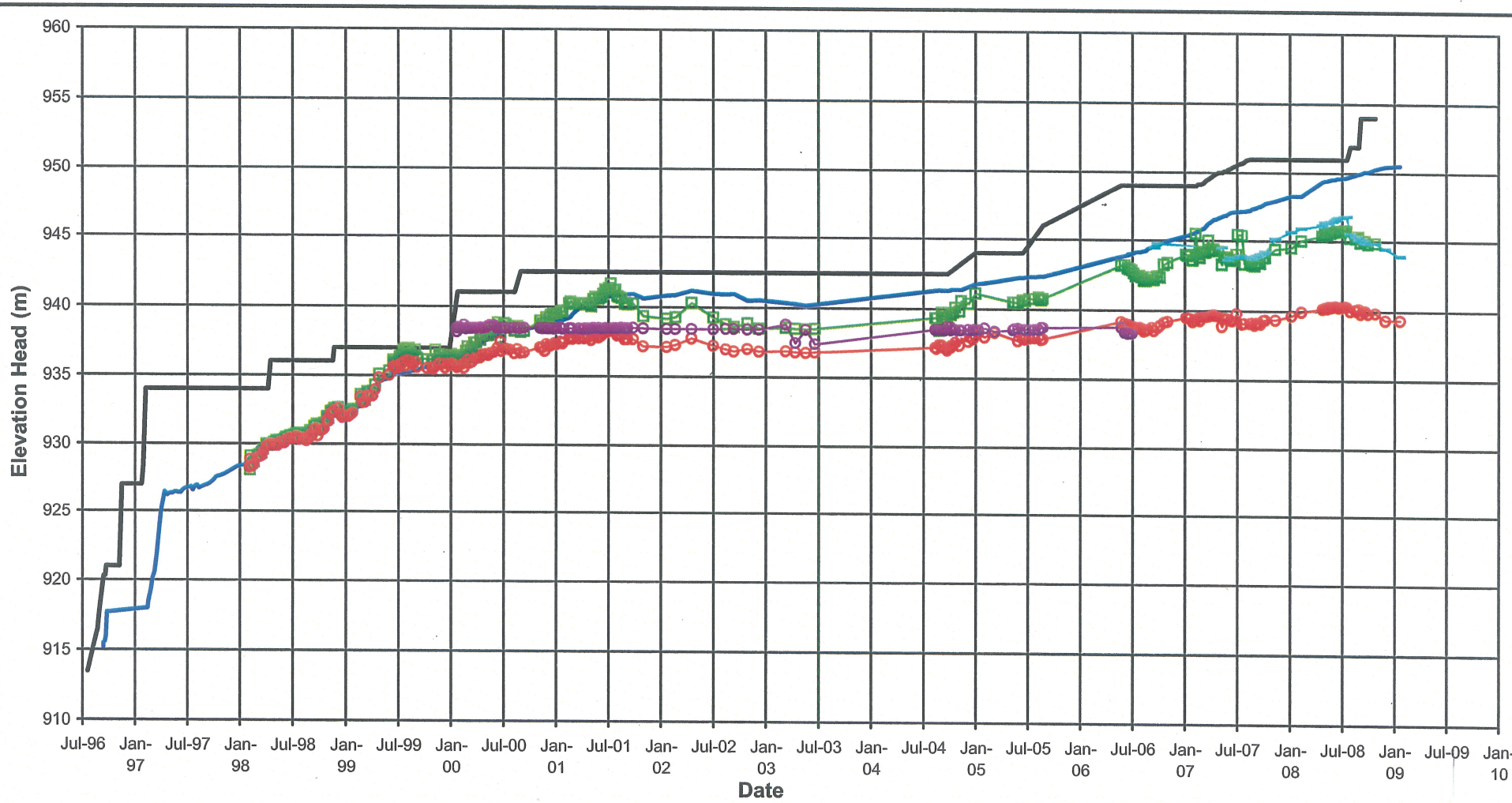
Knight Piésold CONSULTING

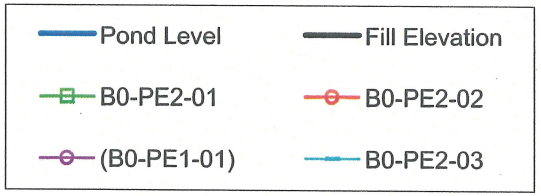
P/A NO. VA101-1/23

REF NO. 1

FIGURE C1-1

REV 0





Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

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MOUNT POLLEY MINE

PLANE B TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C1-2

REV 0

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane C PIEZOPlane C Tailings

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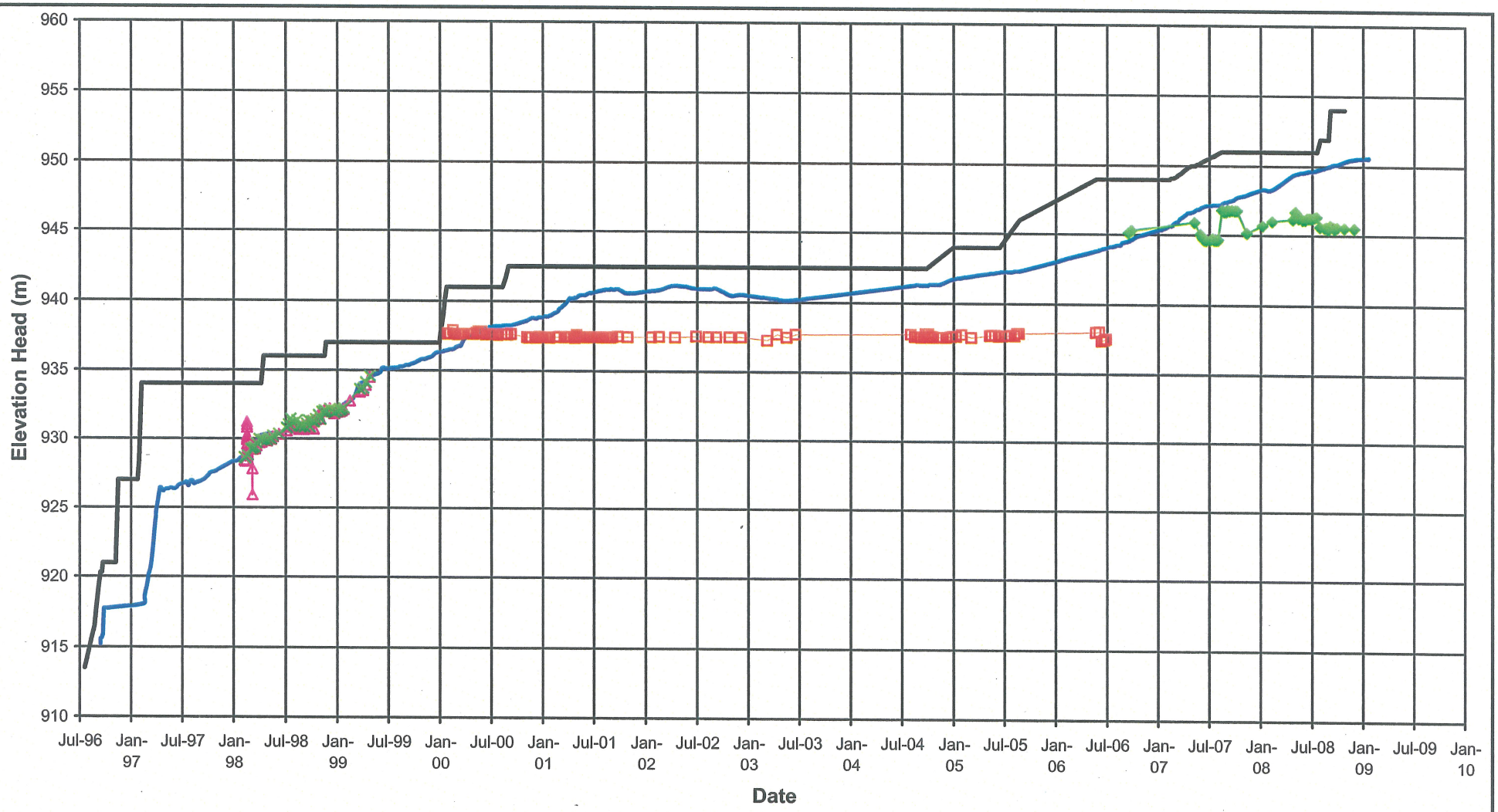

Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

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MOUNT POLLEY MINE

PLANE C TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

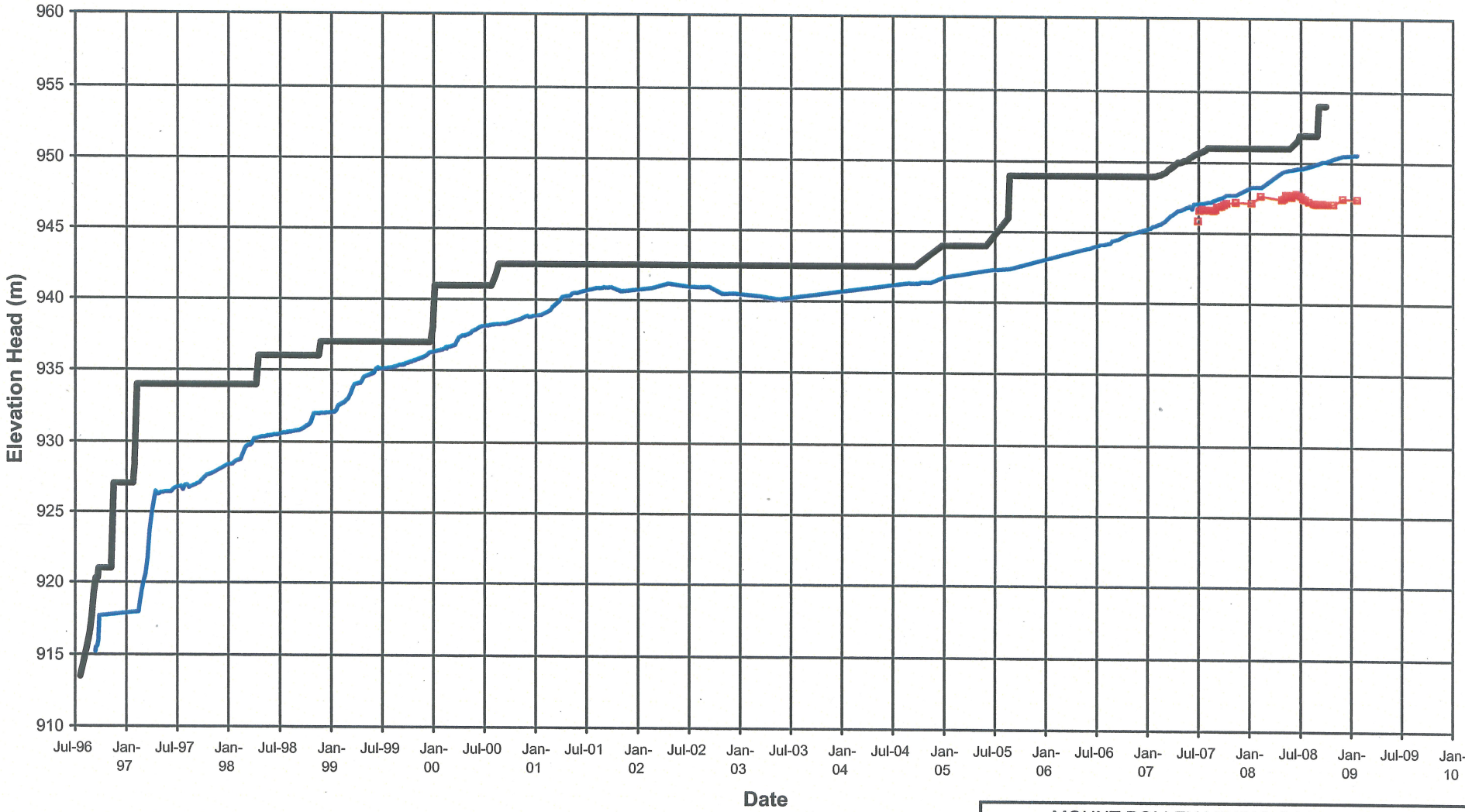
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C1-3

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

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MOUNT POLLEY MINE

PLANE D TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

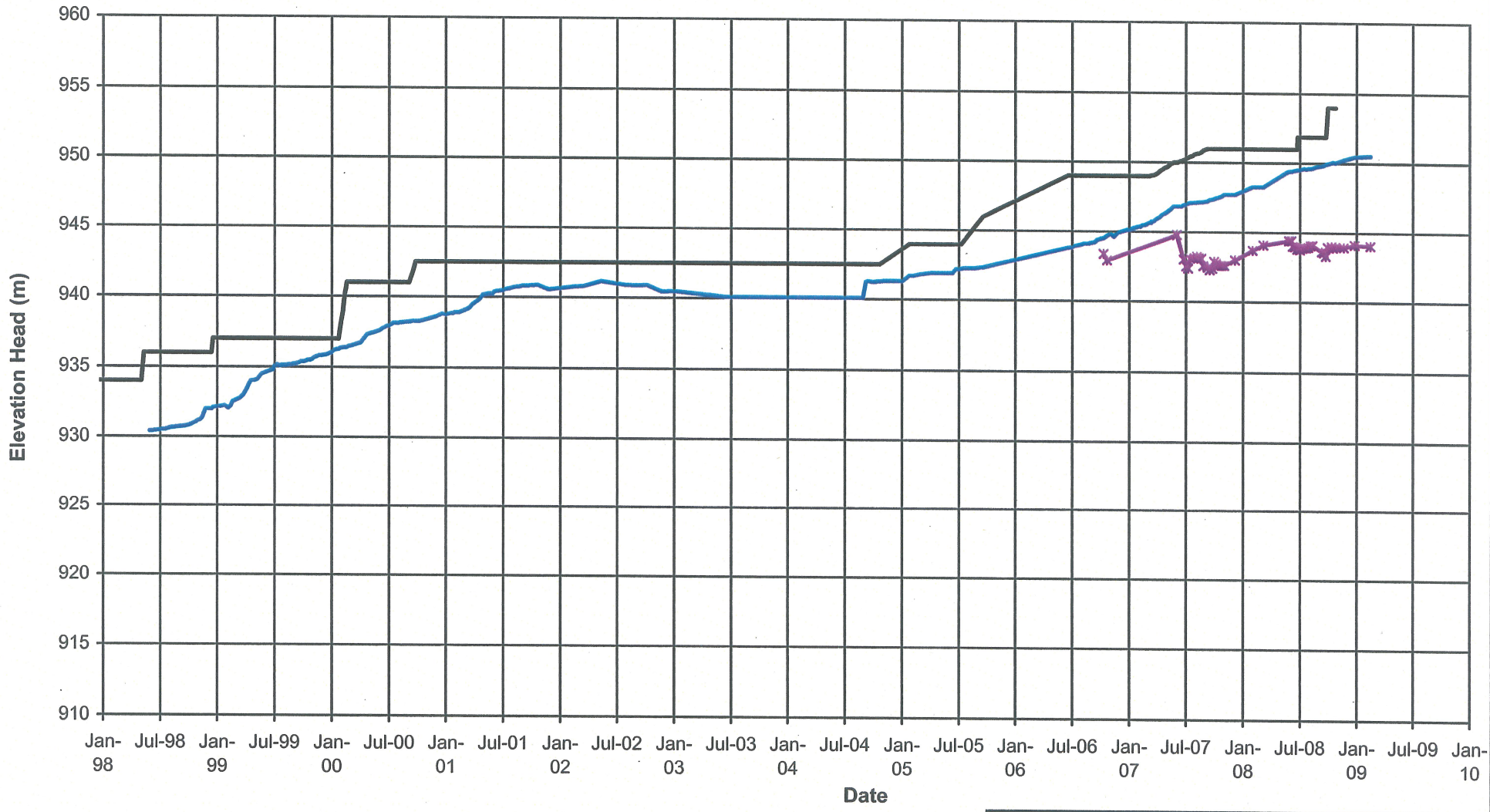
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C1-4

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

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MOUNT POLLEY MINE

PLANE E TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C1-5

REV 0

M:\1\0[illegible]0001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane F PIEZOPlane F Tailings

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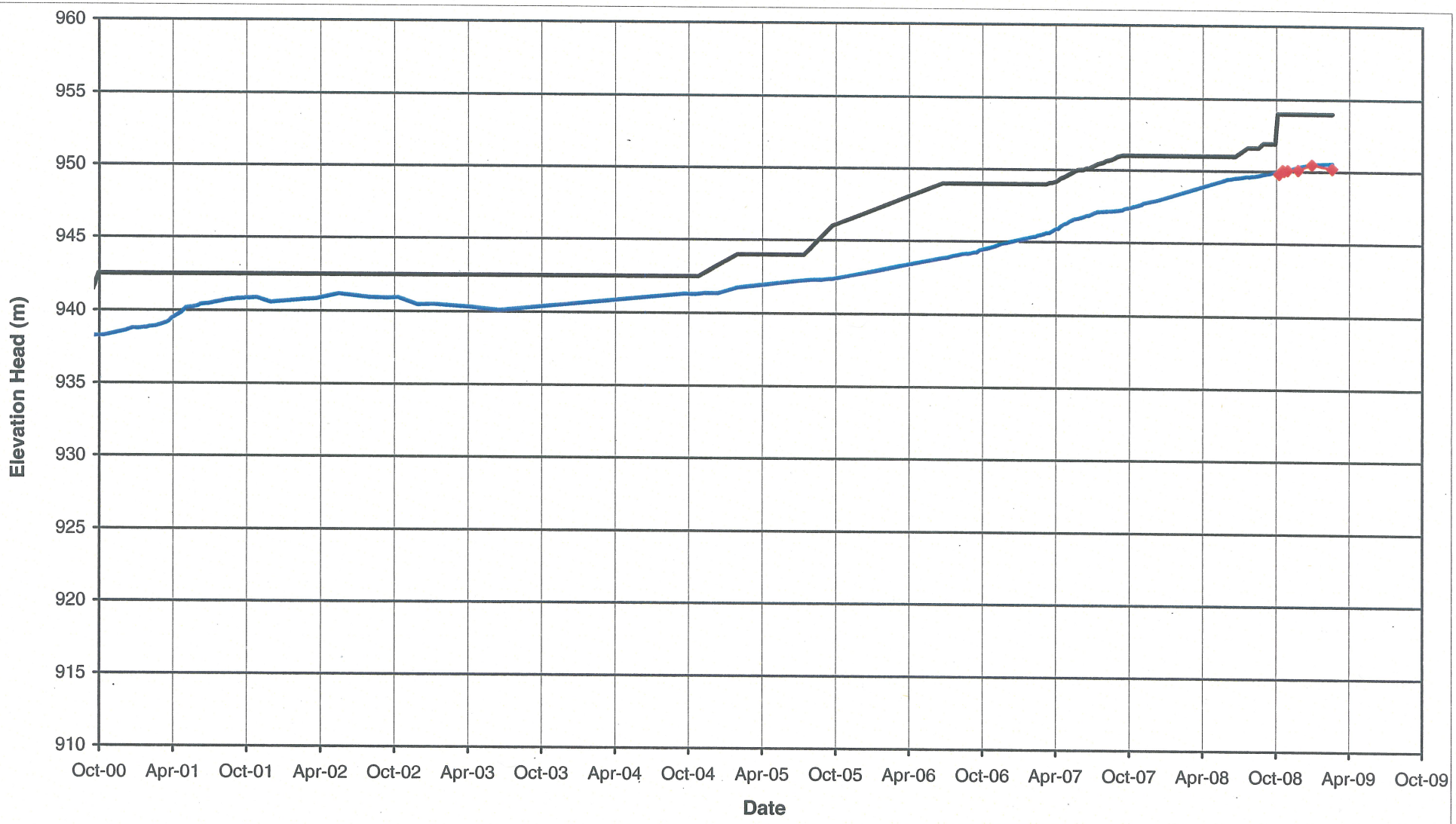

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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE F TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

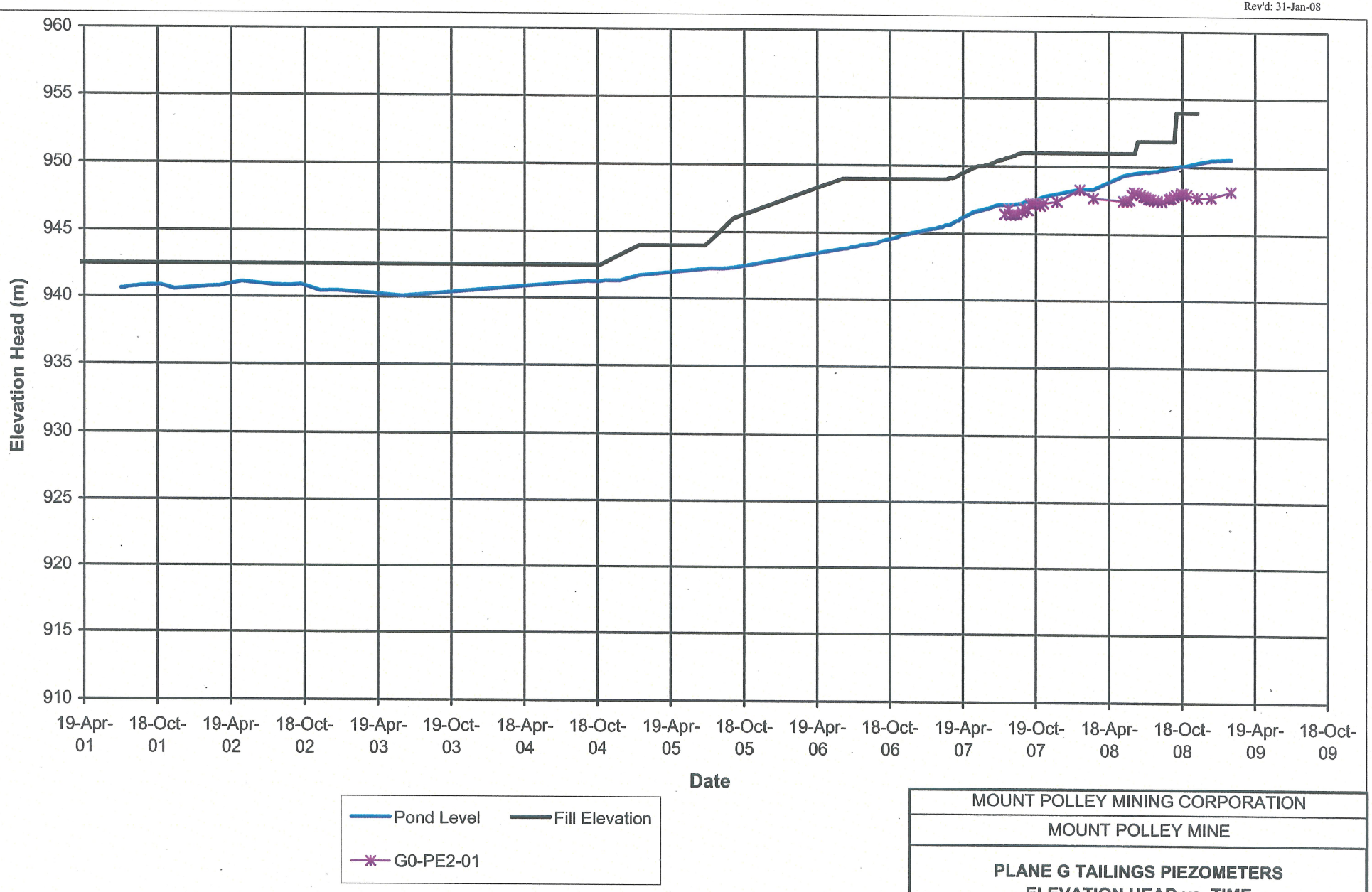
REF NO. 1

FIGURE C1-6

REV 0

M:\1\0[illegible]001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane G PIEZOPlane G [illegible]ings

Pri[illegible]/20095:24 PM
Rev'd: 31-Jan-08



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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE G TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C1-7

REV 0

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane H PIEZOPlane H Tailings

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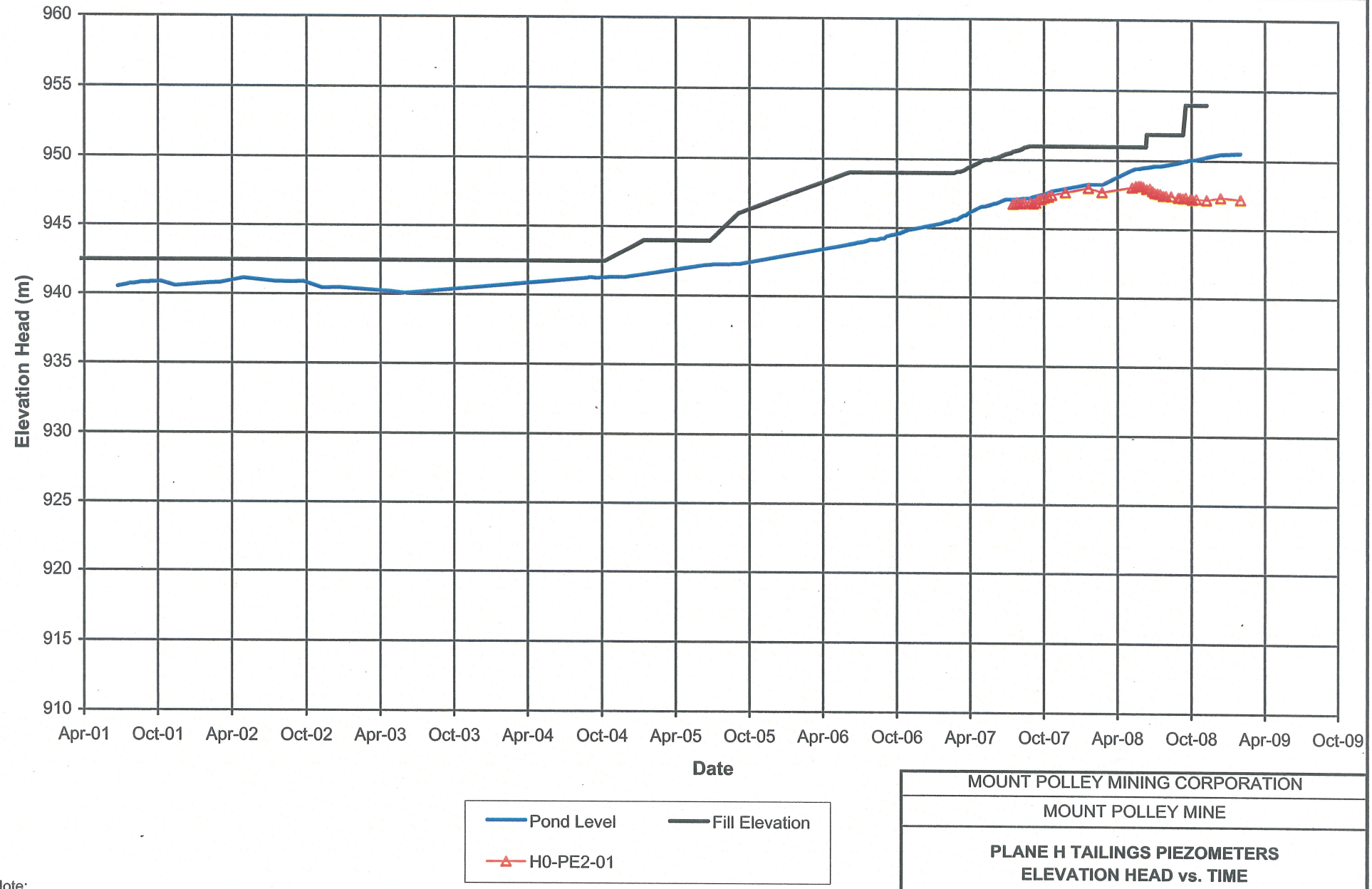
Rev'd 31-Jan-08



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE H TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

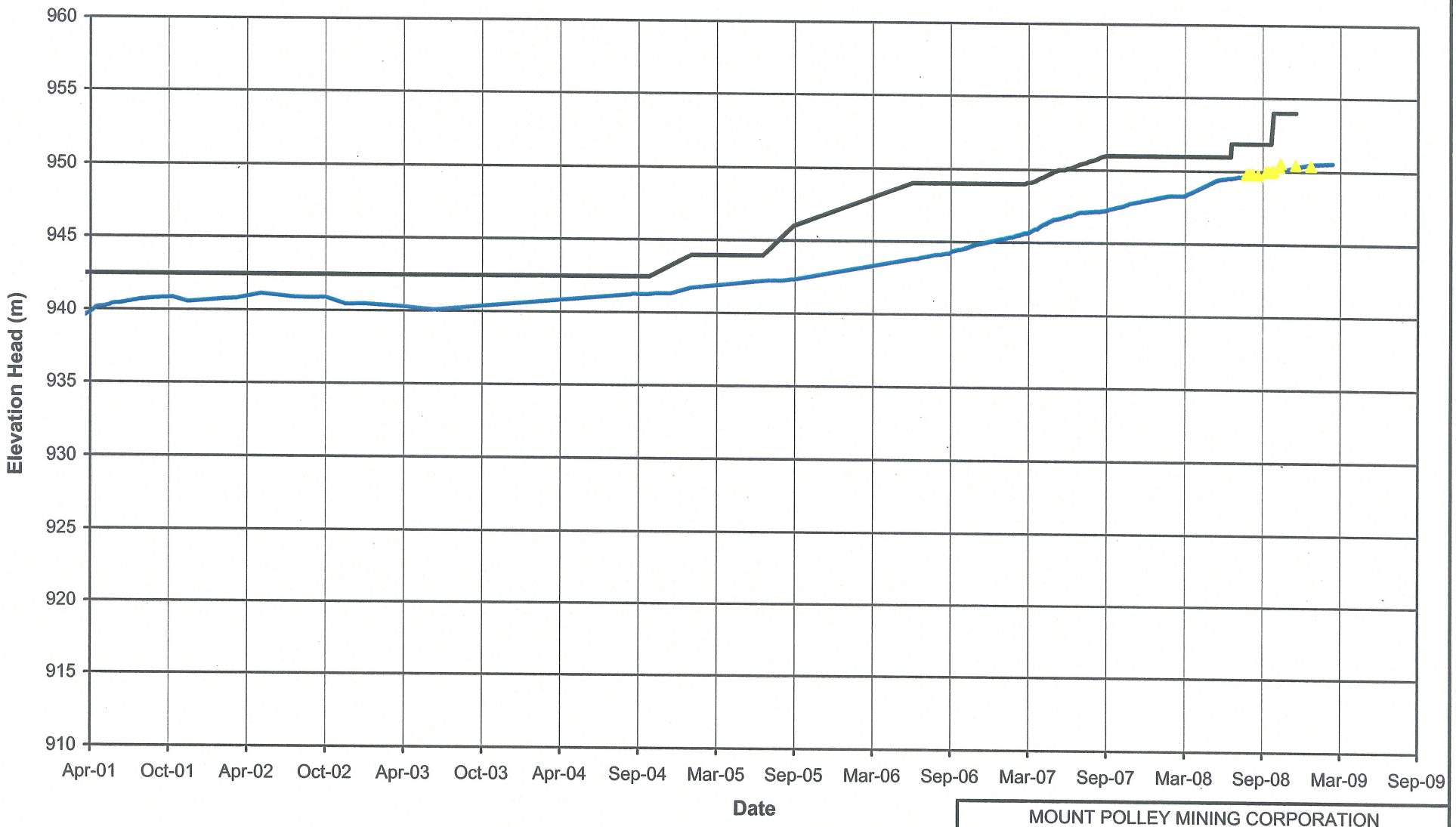
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C1-8

REV 0



Note:
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REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE I TAILINGS PIEZOMETERS
ELEVATION HEAD vs. TIME

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P/A NO. VA101-1/23

REF NO. 1

FIGURE C1-9

REV 0

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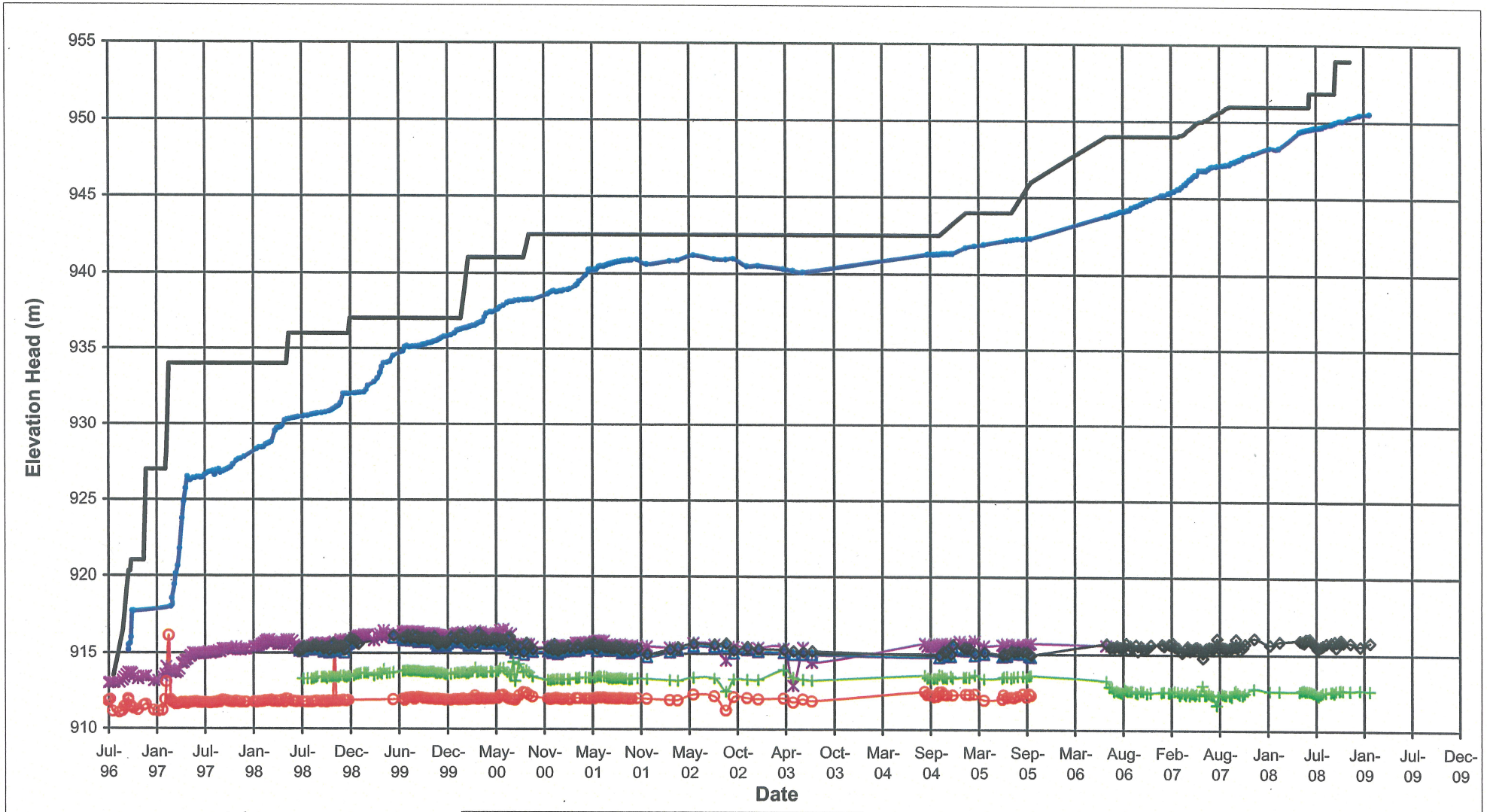
APPENDIX C2

FOUNDATION PIEZOMETERS

(C2-1 to C2-7)



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
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MOUNT POLLEY MINING CORPORATION

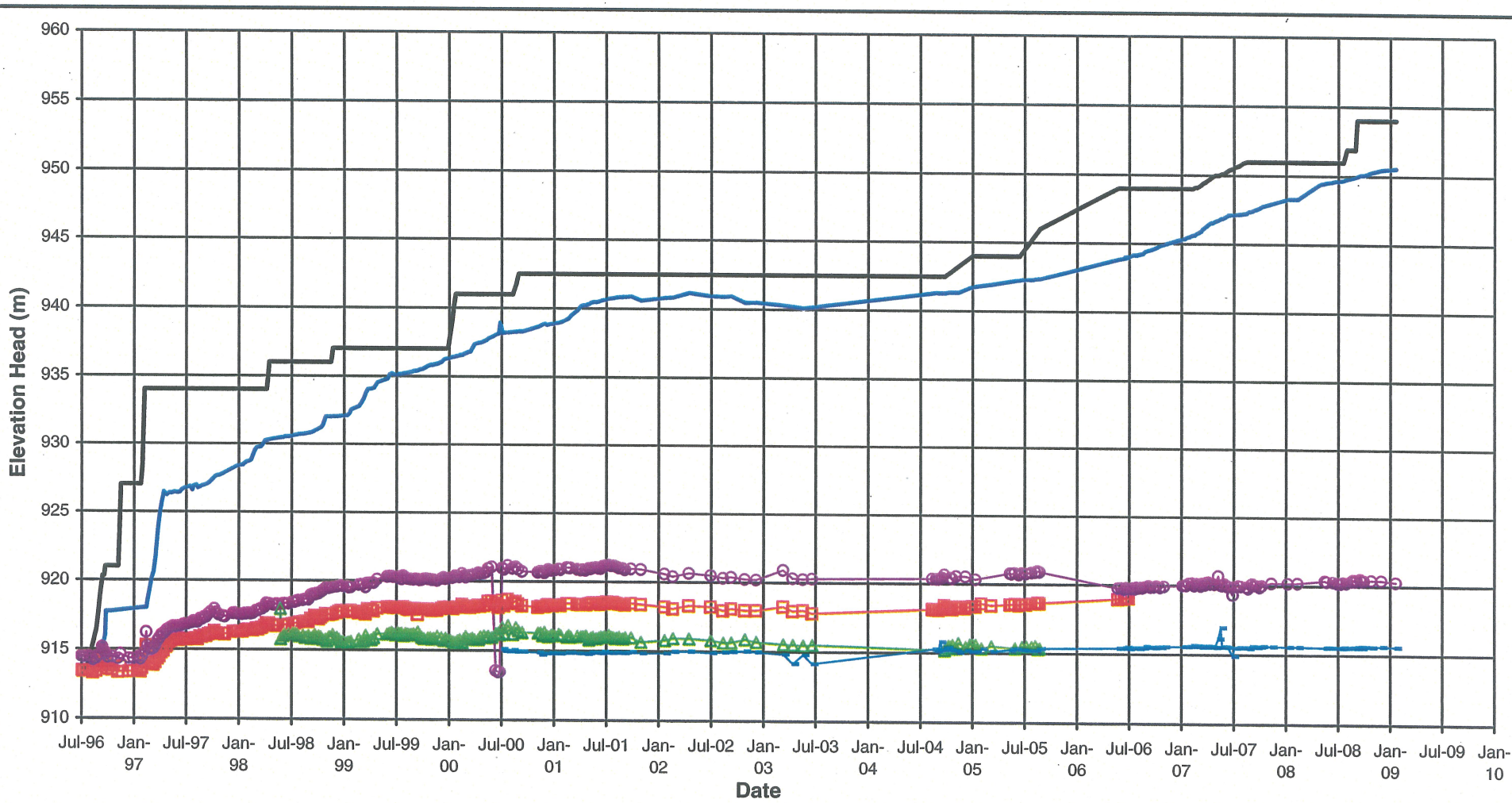
MOUNT POLLEY MINE

PLANE A FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO.	REF NO.
VA101-1/23	1

FIGURE C2-1 REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE B FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

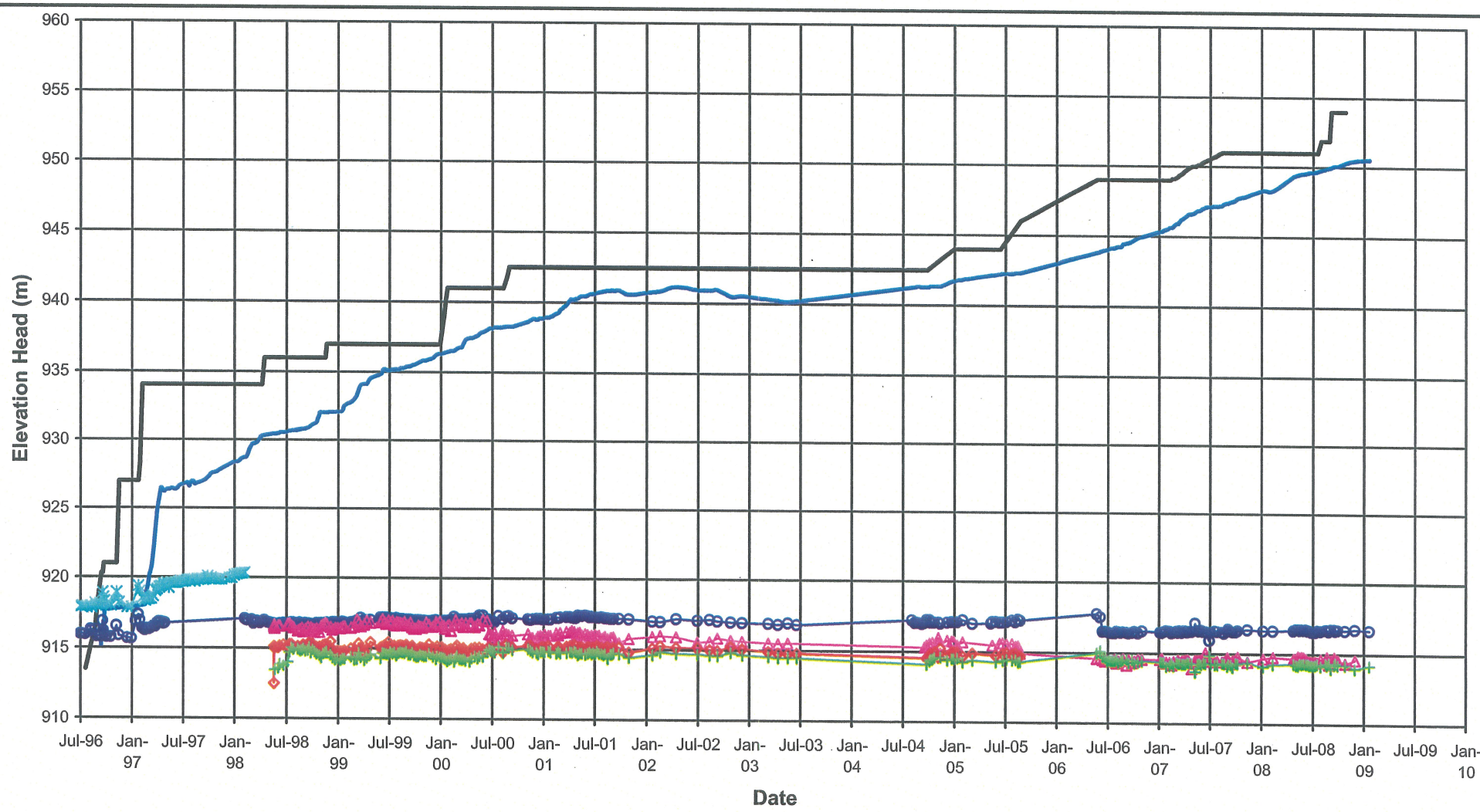
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C2-2

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE C FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

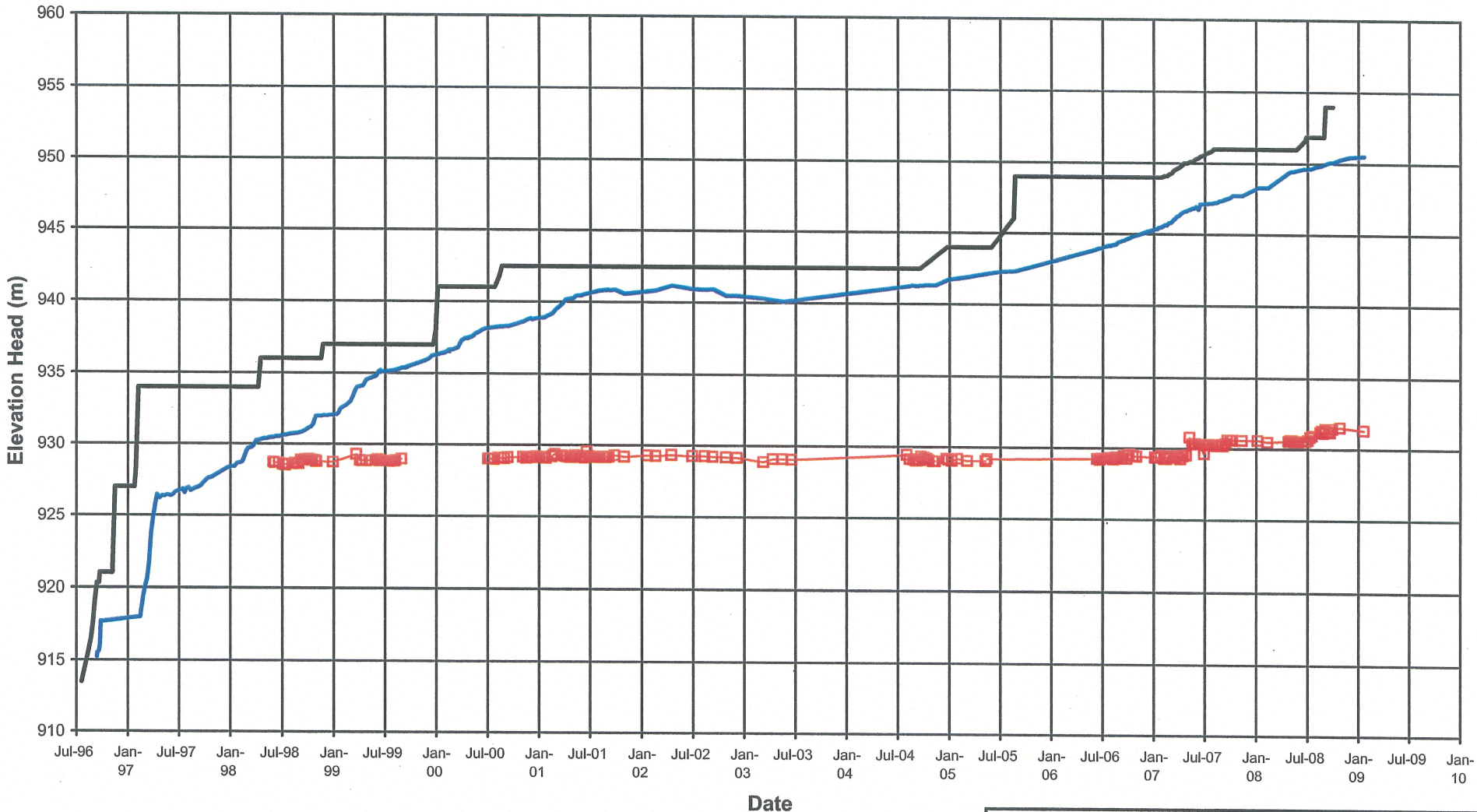
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C2-3

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE D FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO.	REF NO.
VA101-1/23	1

FIGURE C2-4

REV 0

M:\1\0[illegible]0001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane E PIEZO\Plane E Foundation

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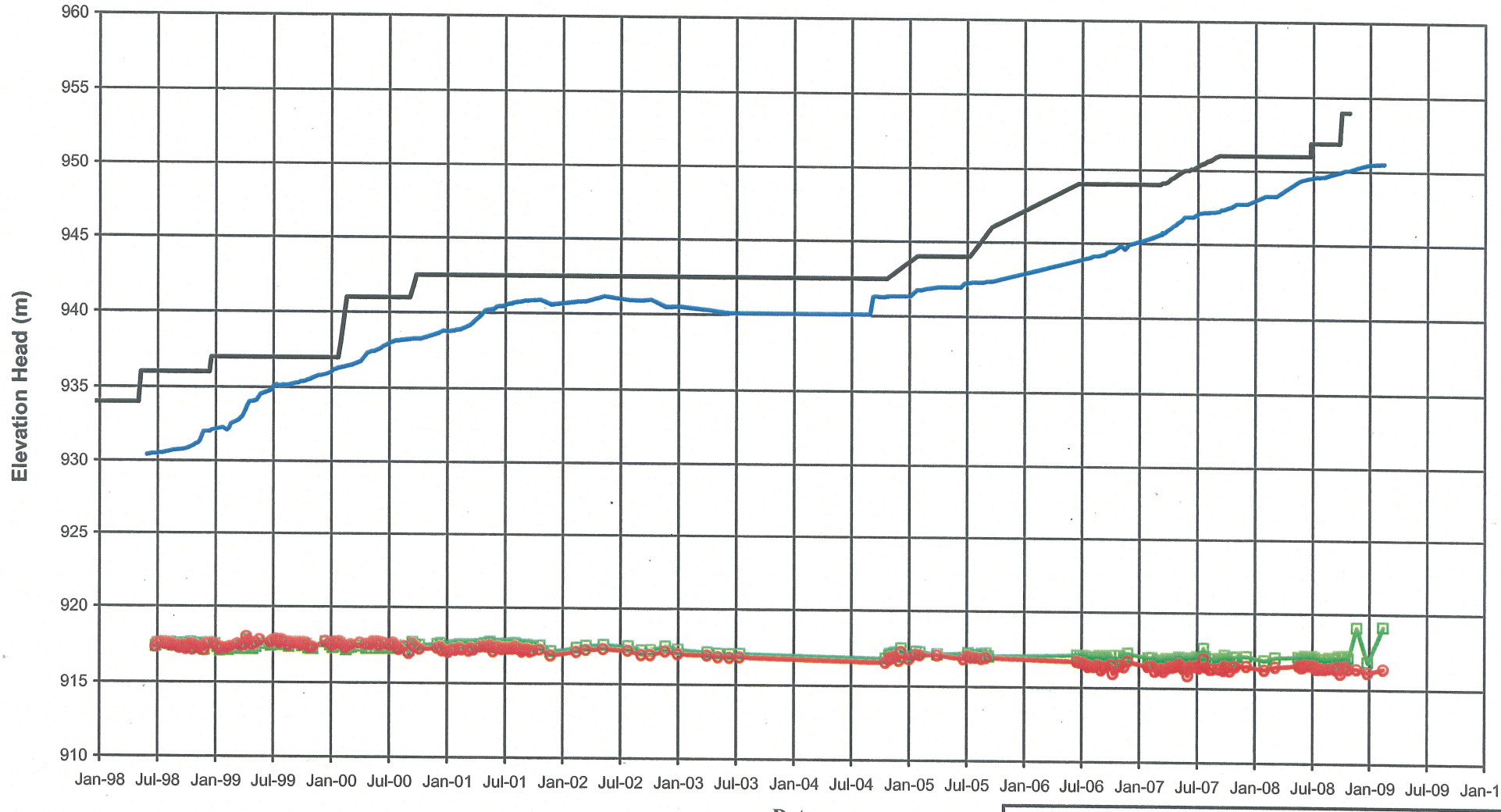


Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE E FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

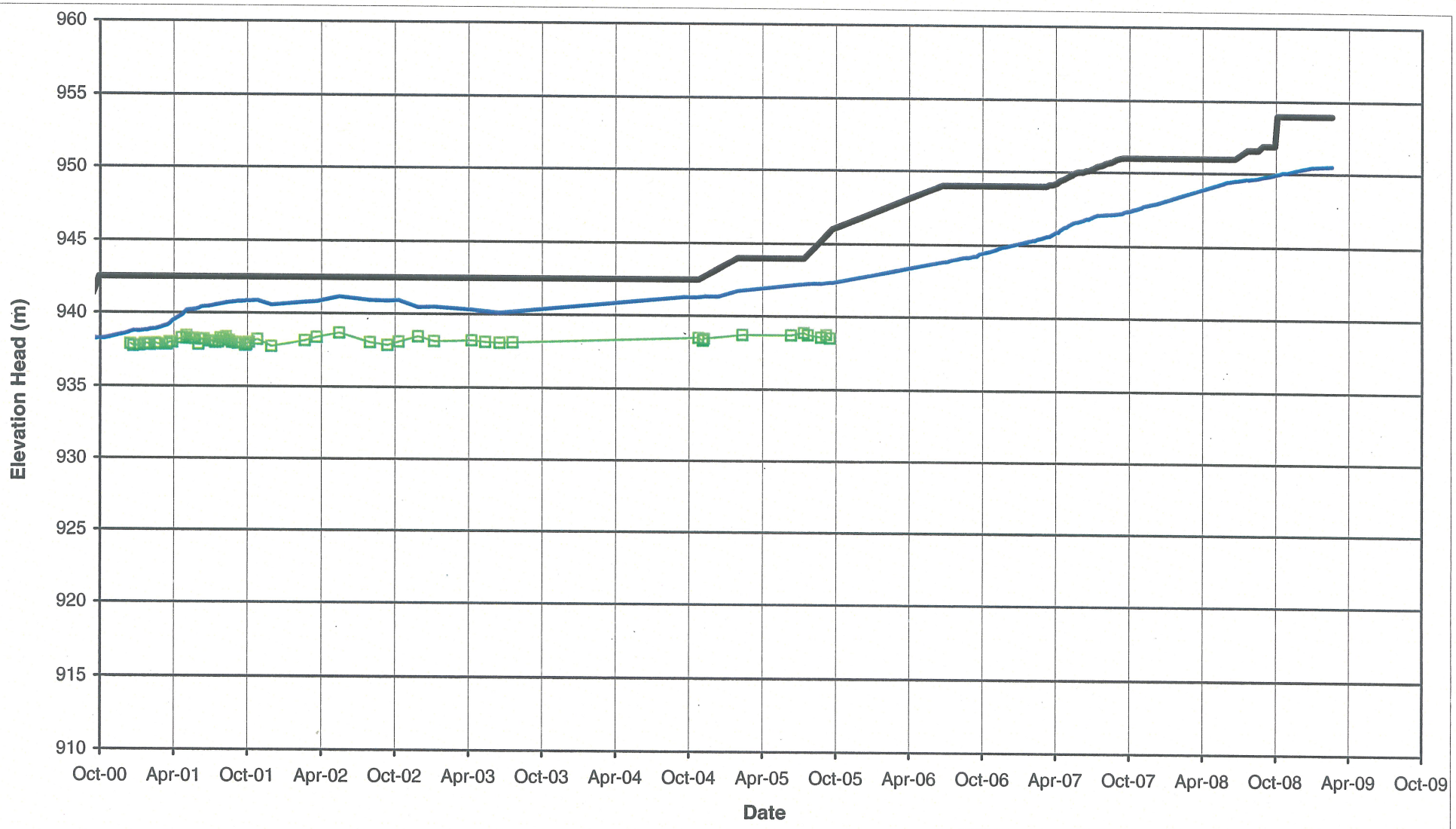
REF NO. 1

FIGURE C2-5

REV 0

M:\1\[illegible]001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane F Pi[illegible]Plane F Foundation

Print 7/6/20099:12 AM



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE F FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

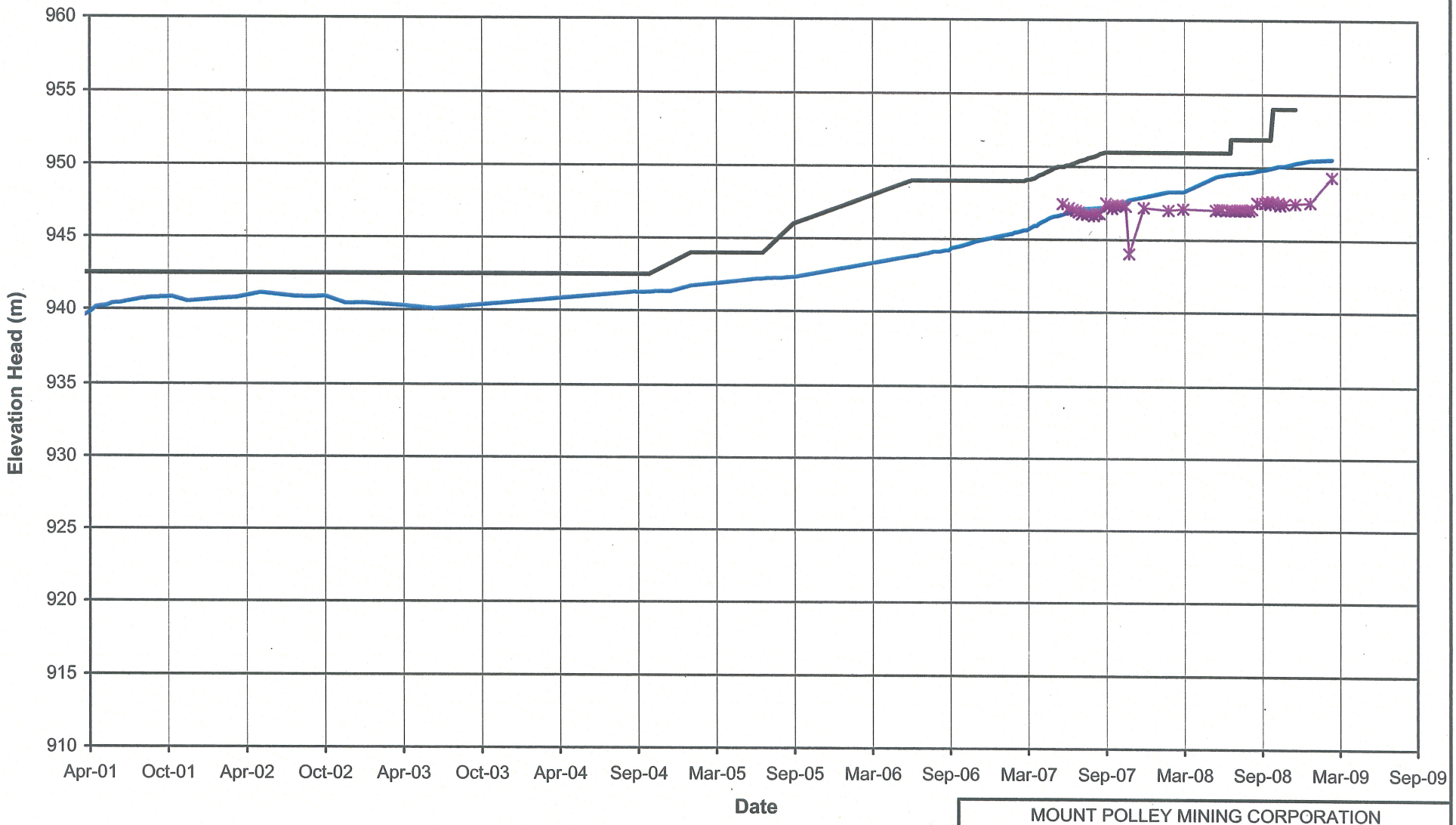
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C2-6

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE I FOUNDATION PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO.	REF NO.
VA101-1/23	1

FIGURE C2-7

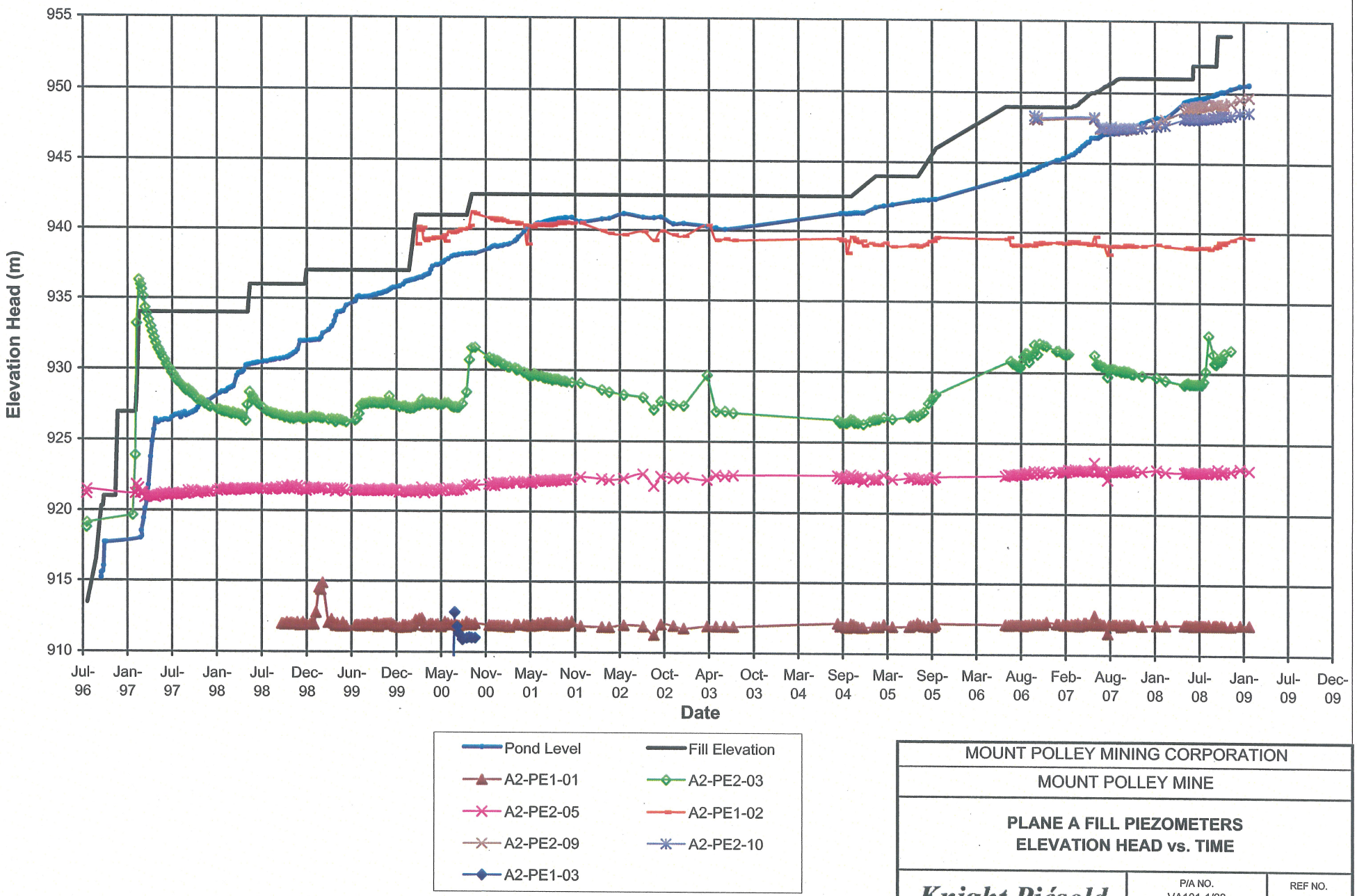
REV 0

Knight Piésold
CONSULTING

APPENDIX C3

FILL PIEZOMETERS

(C3-1 to C3-9)



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE A FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C3-1

REV 0

M:\1\01\...\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane B PIEZOPlane B Pl...

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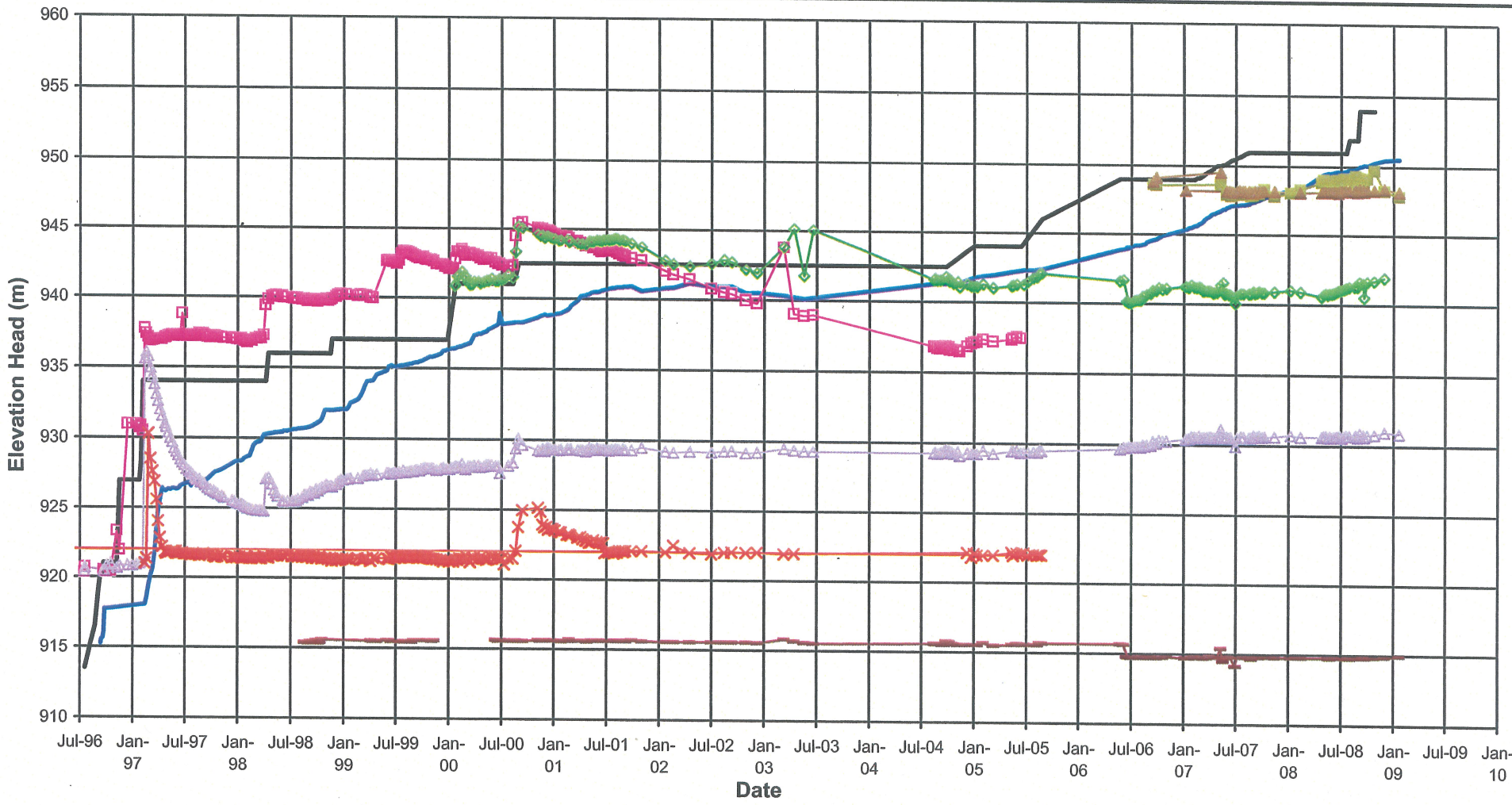
Rev'd 31-Jan-08



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE B FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C3-2

REV 0

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane C PIEZO\Plane C Fill

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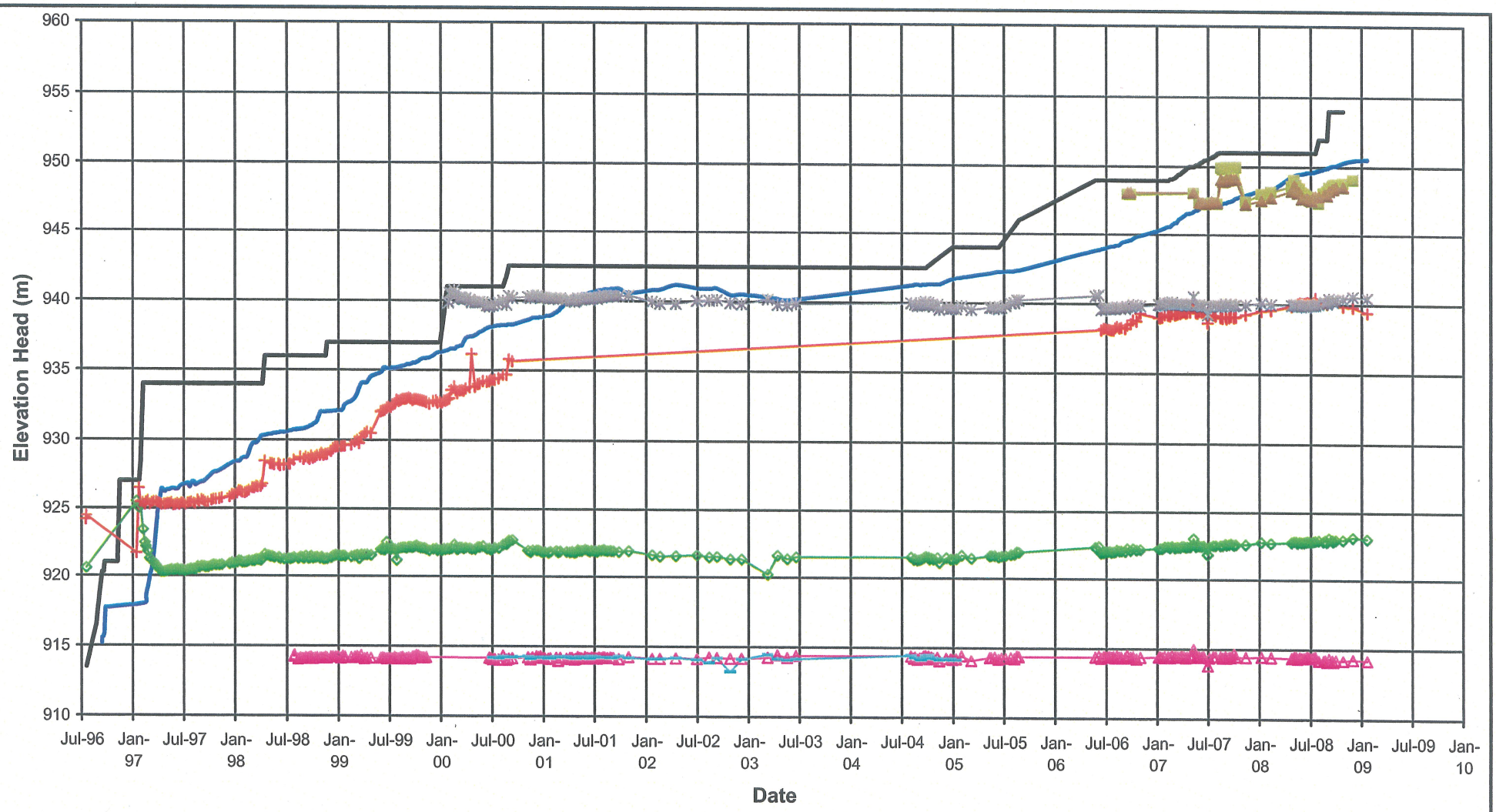


Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE C FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

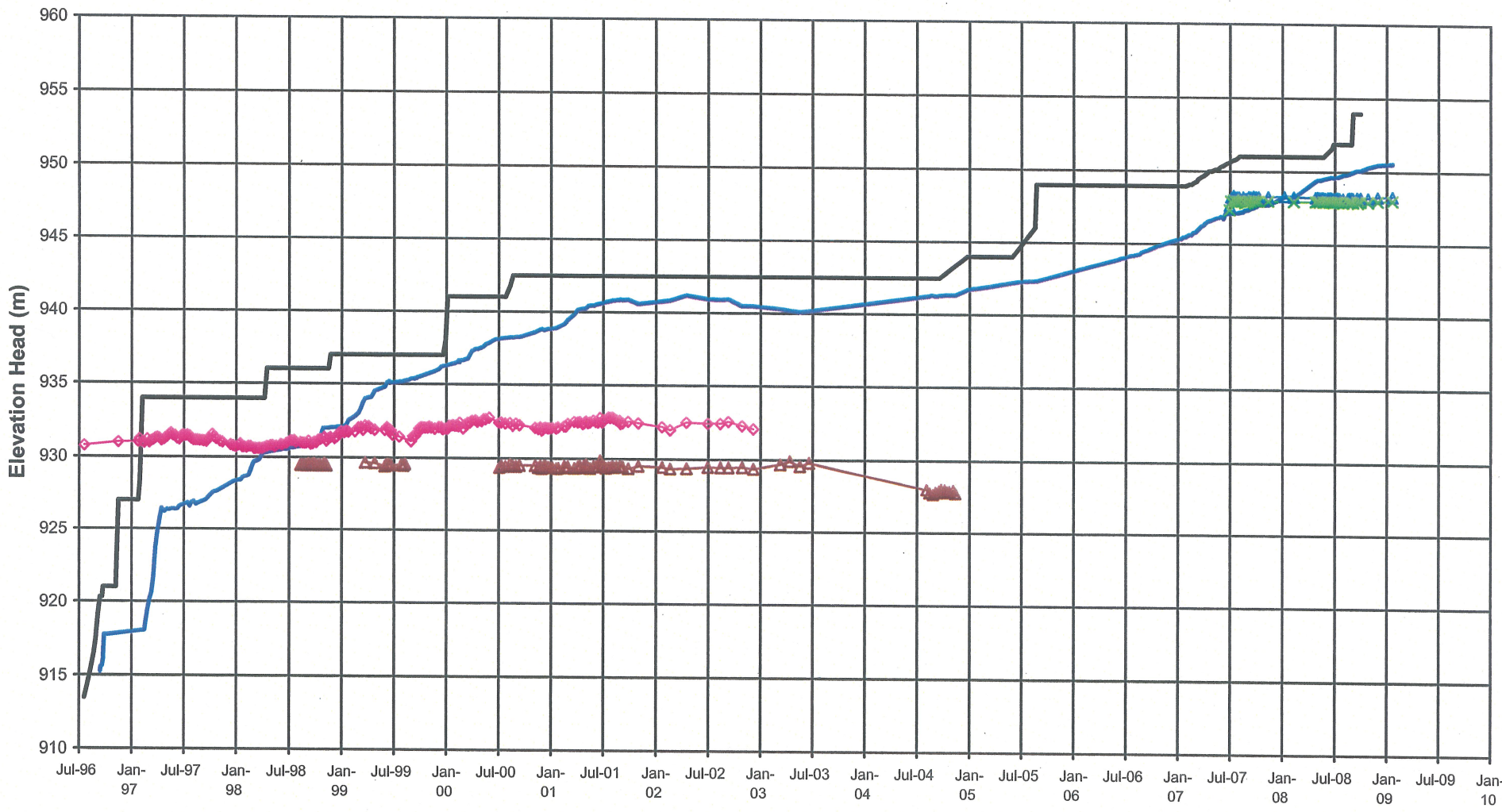
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C3-3

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE D FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

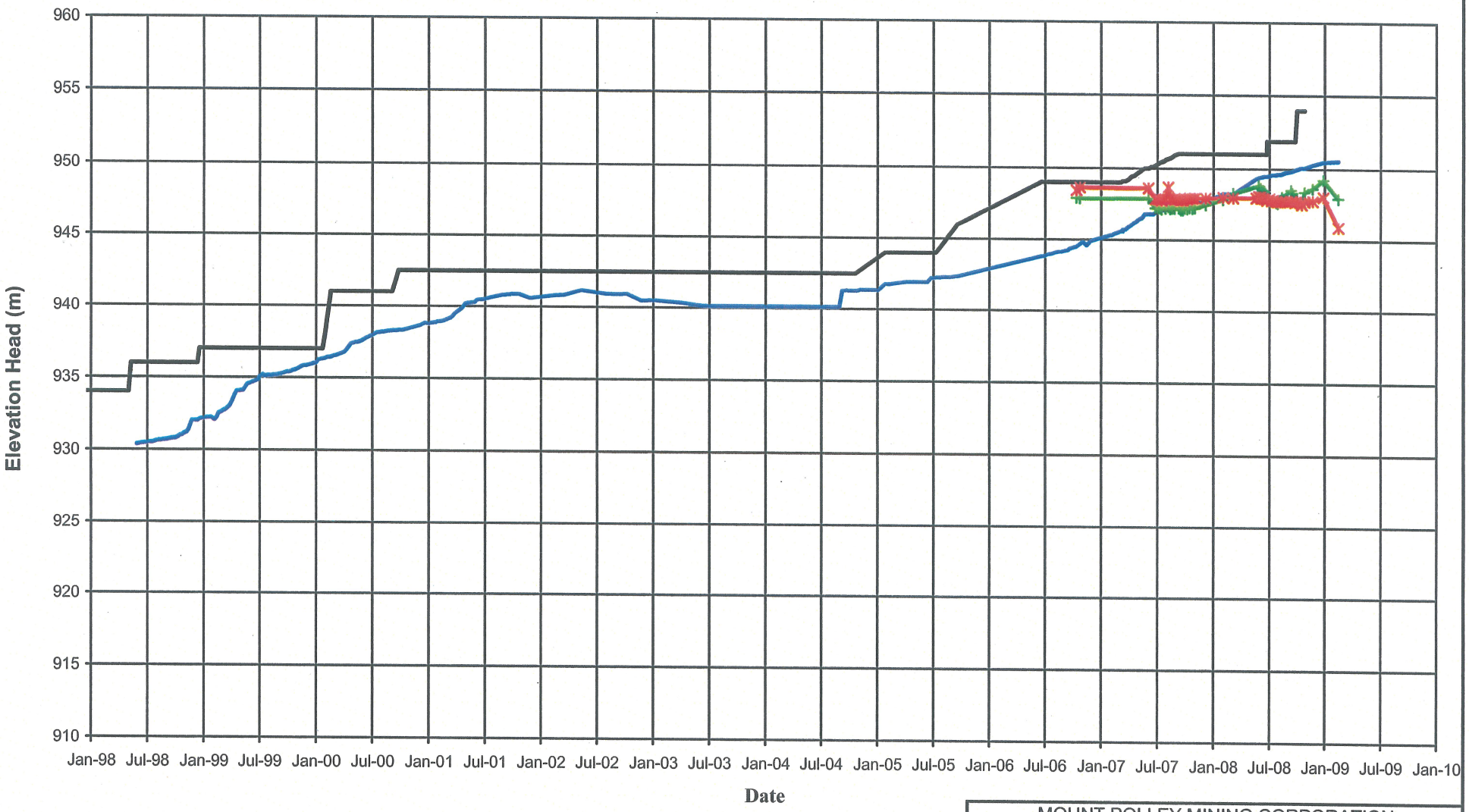
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C3-4

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE E FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO.	REF NO.
VA101-1/23	1

FIGURE C3-5 REV 0

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane F PIEZOPlane F Fill

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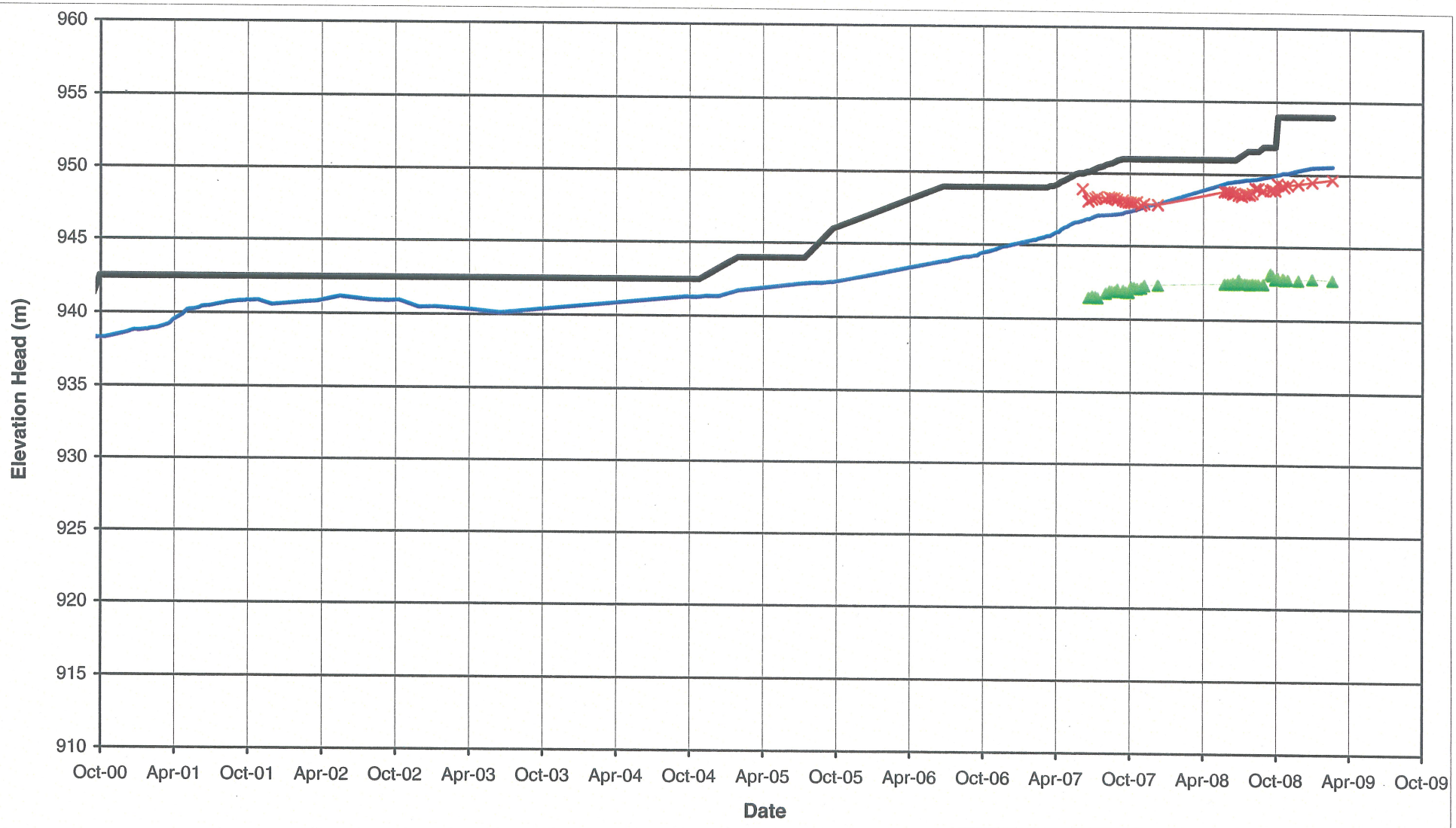


0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG
REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE F FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

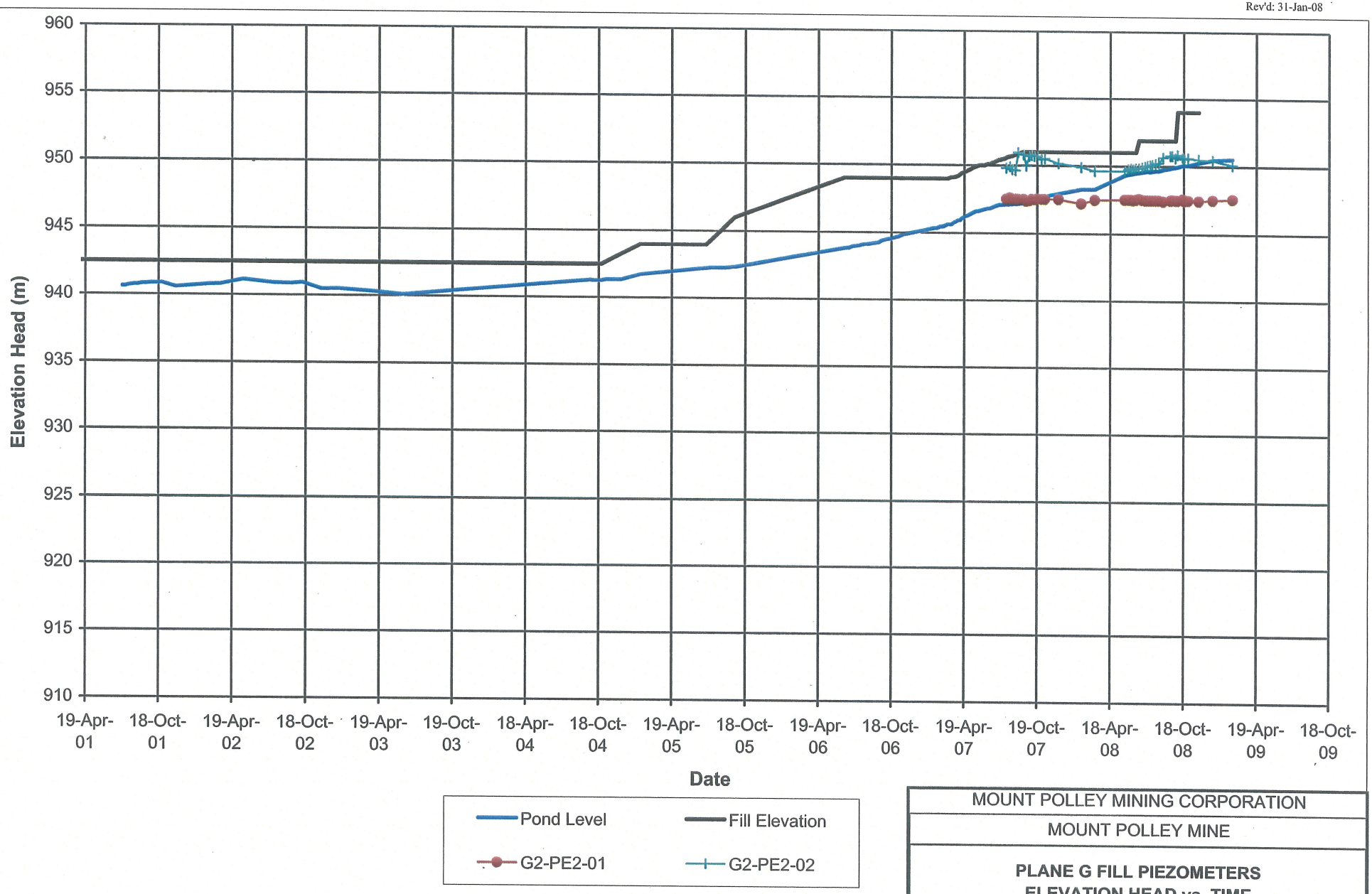
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C3-6

REV 0



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
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MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE G FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C3-7

REV 0

M:\1\01[illegible]001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane H PIEZOPlane H Fi...

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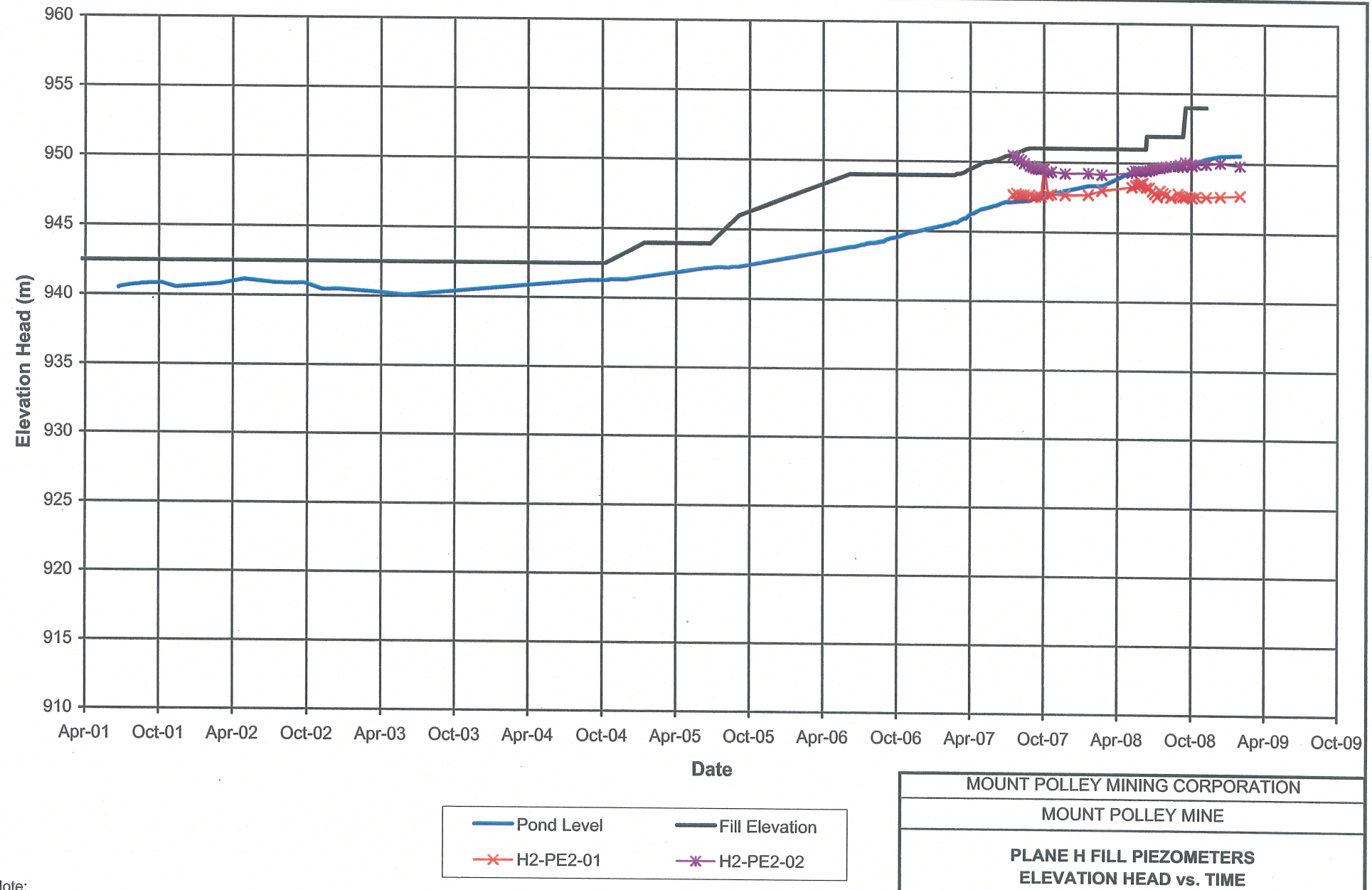
Rev'd 31-Jan-08



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE H FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

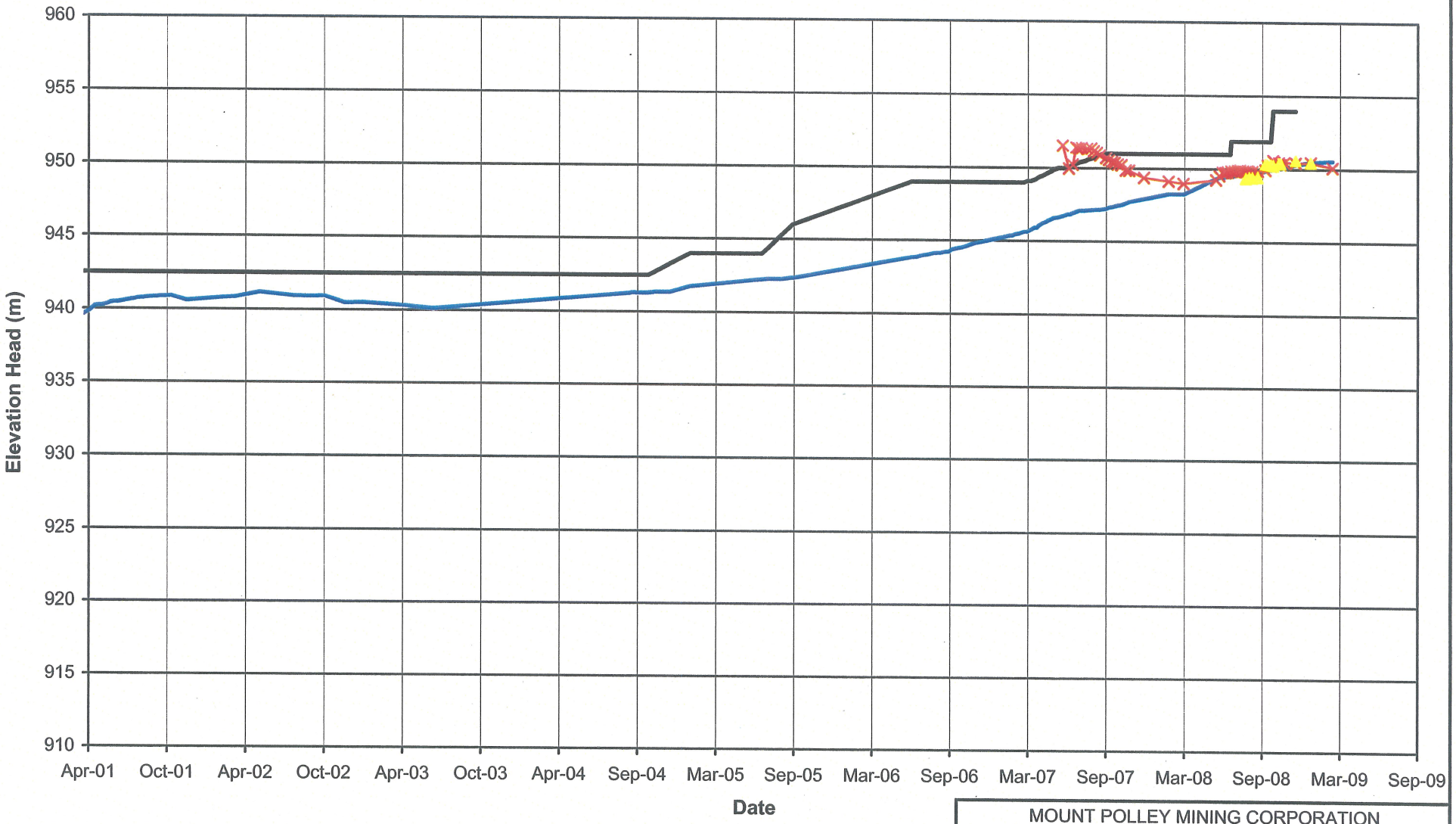
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C3-8

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE I FILL PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C3-9

REV 0

Knight Piésold
CONSULTING

APPENDIX C4

DRAIN PIEZOMETERS

(C4-1 to C4-8)

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane A PIEZOPlane A Drain

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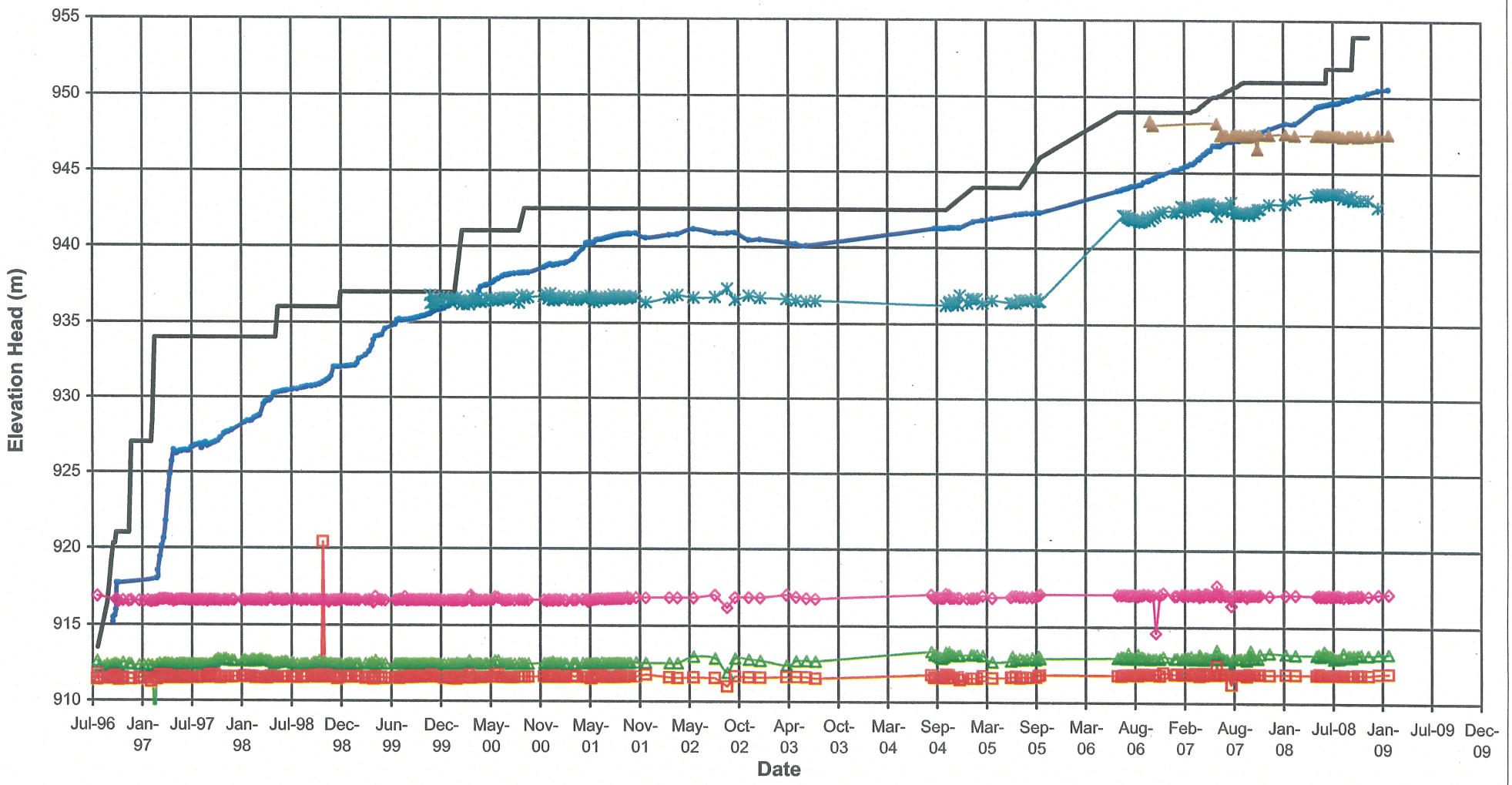
Rev'd 31-Jan-08



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE A DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

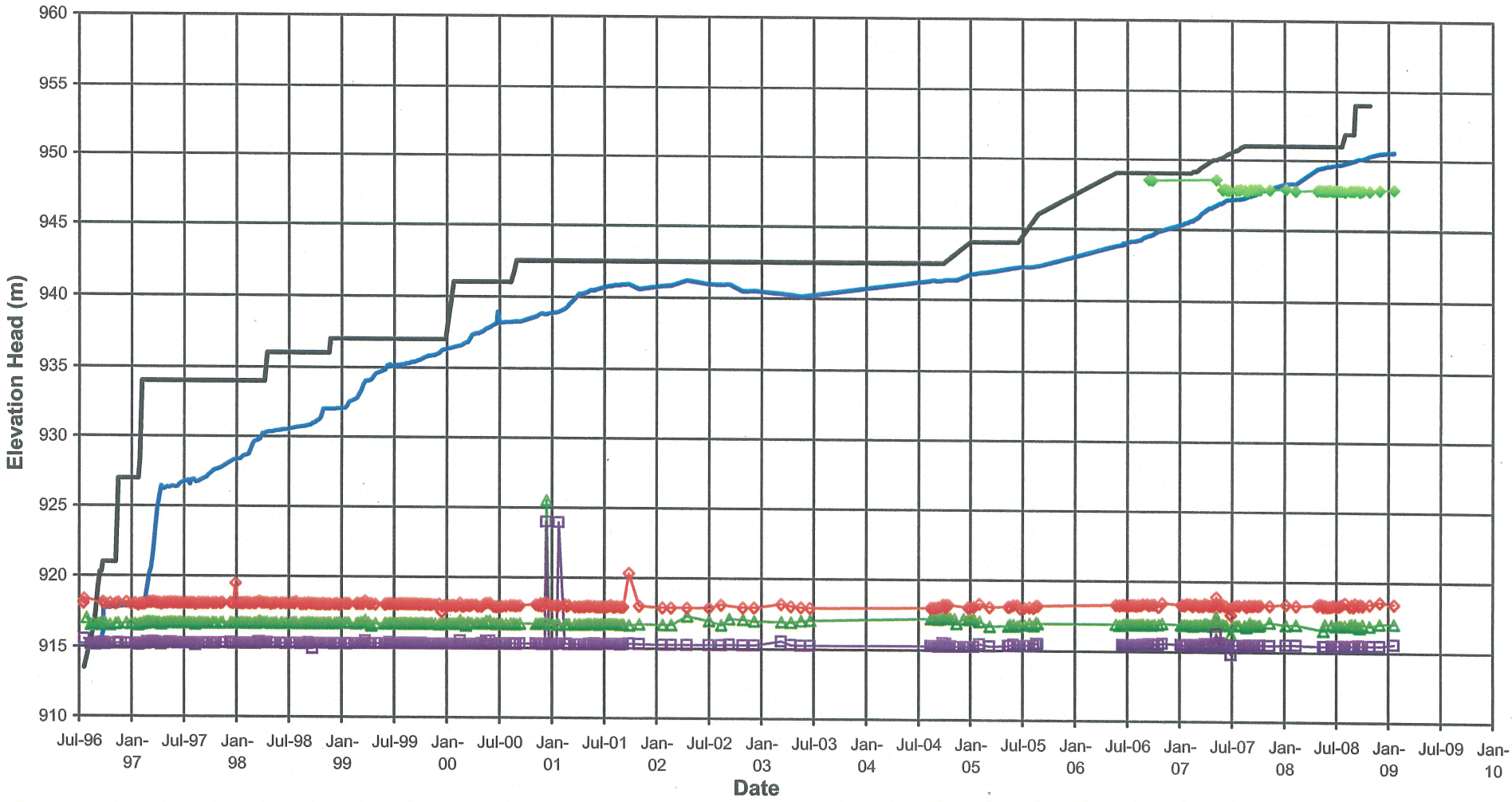
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C4-1

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE B DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

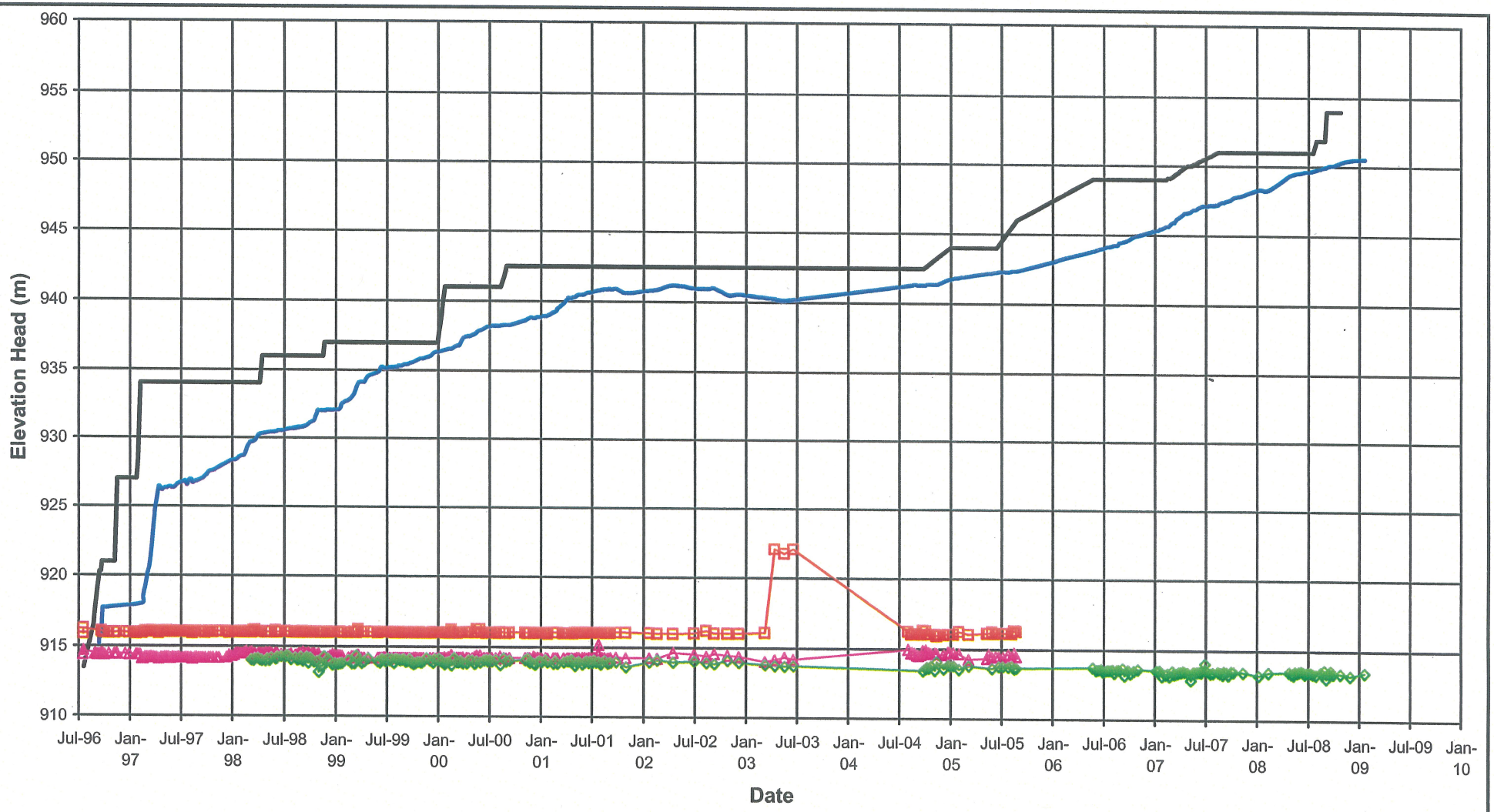
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C4-2

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE C DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C4-3

REV 0

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane D PIEZO\Plane D Drain

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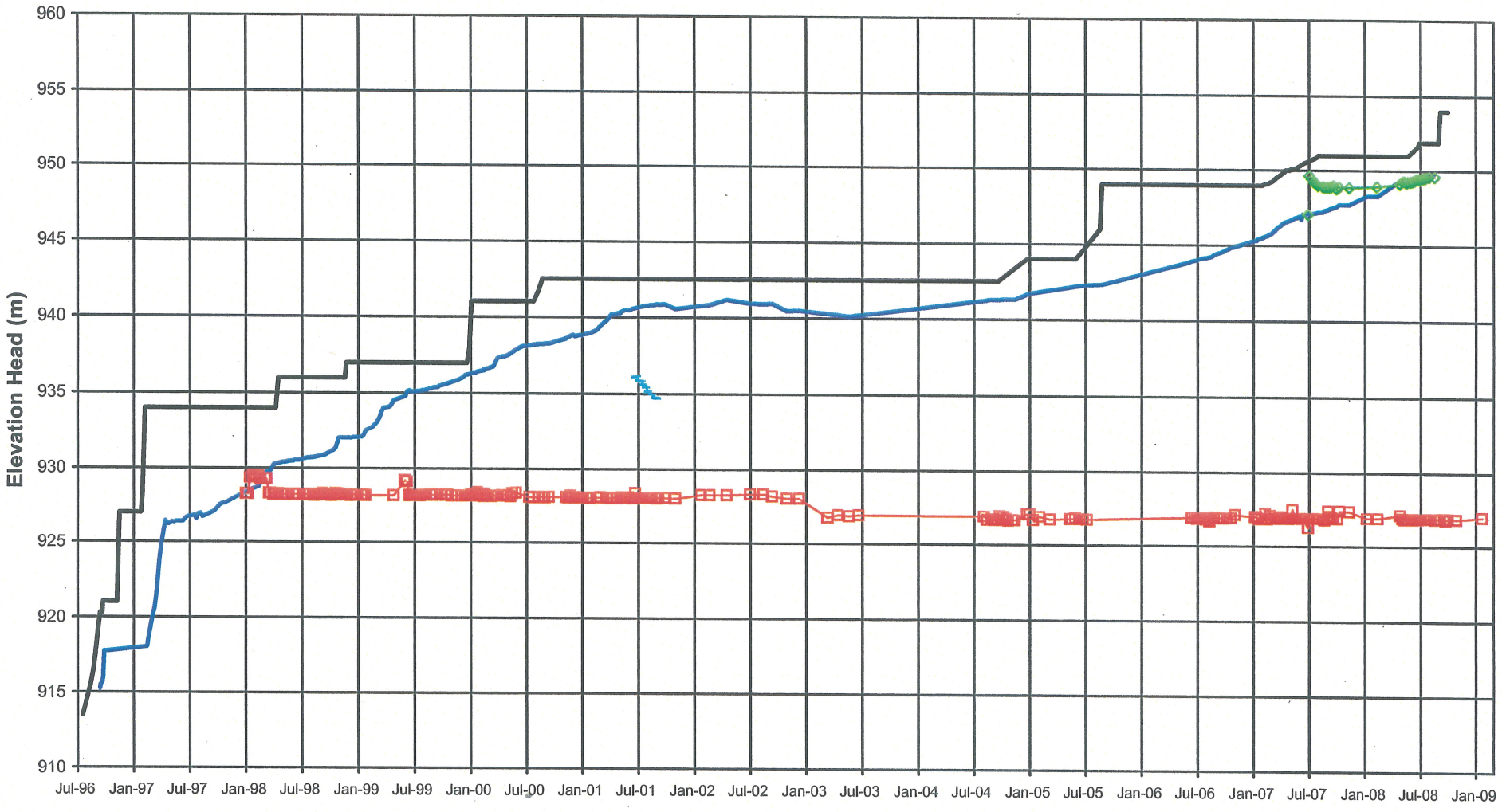


Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE D DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

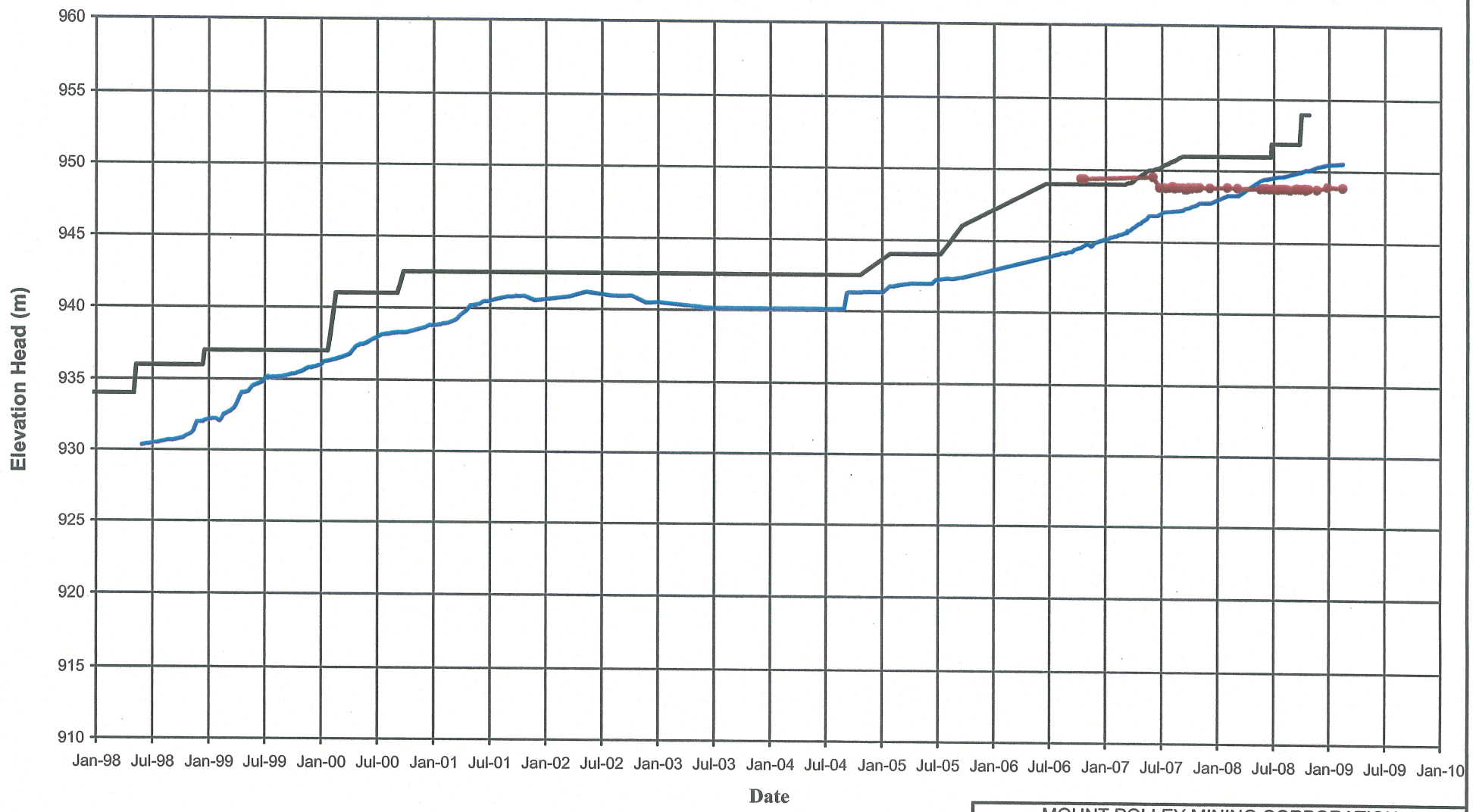
Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C4-4

REV 0



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE E DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

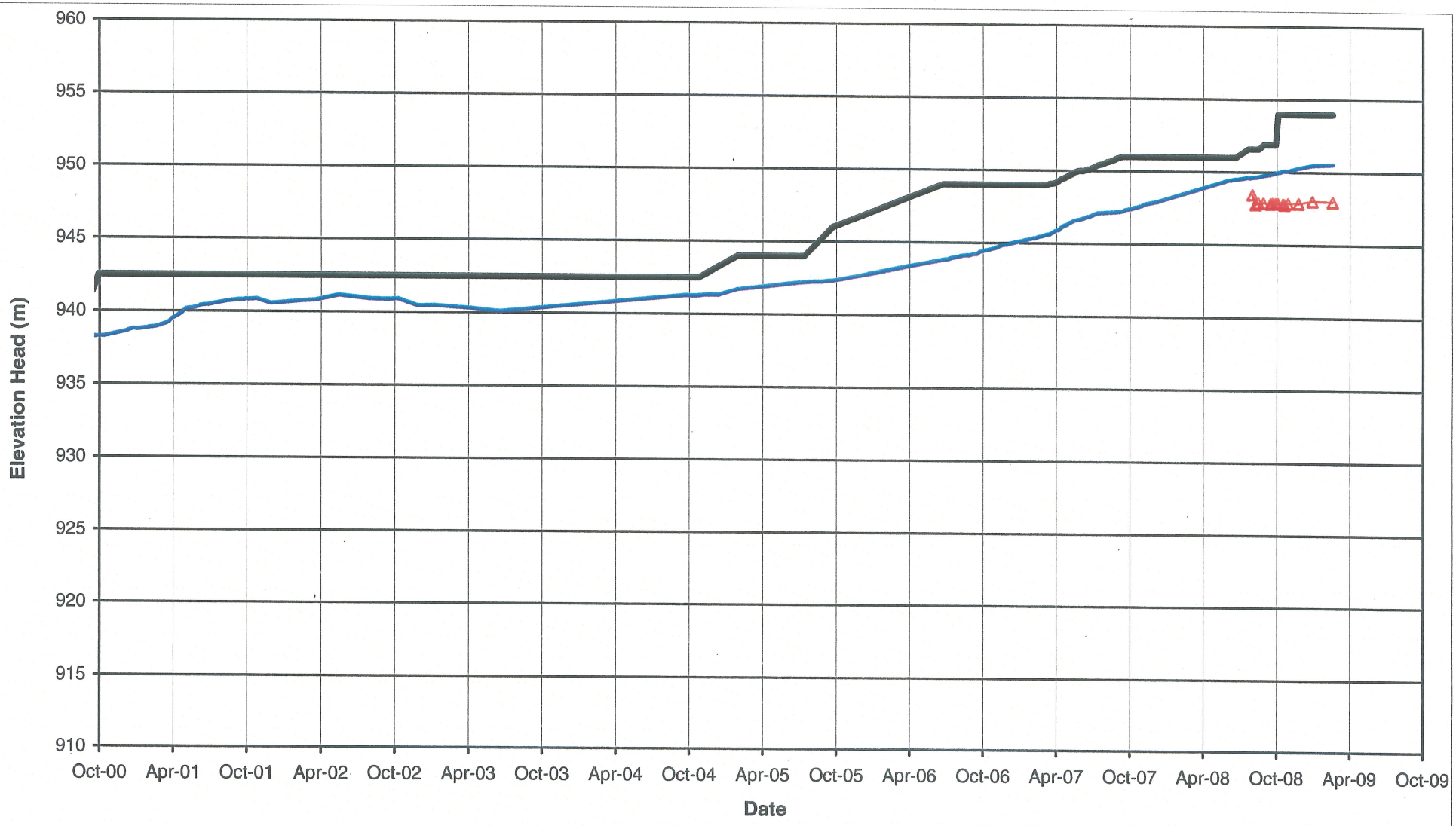
REF NO. 1

FIGURE C4-5

REV 0

M:\1\0[illegible]0001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane F PIEZOPlane F Drain

Print 7/6/2009 9:13 AM



REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE F DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C4-6

REV 0

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane H PIEZOPlane H Drain

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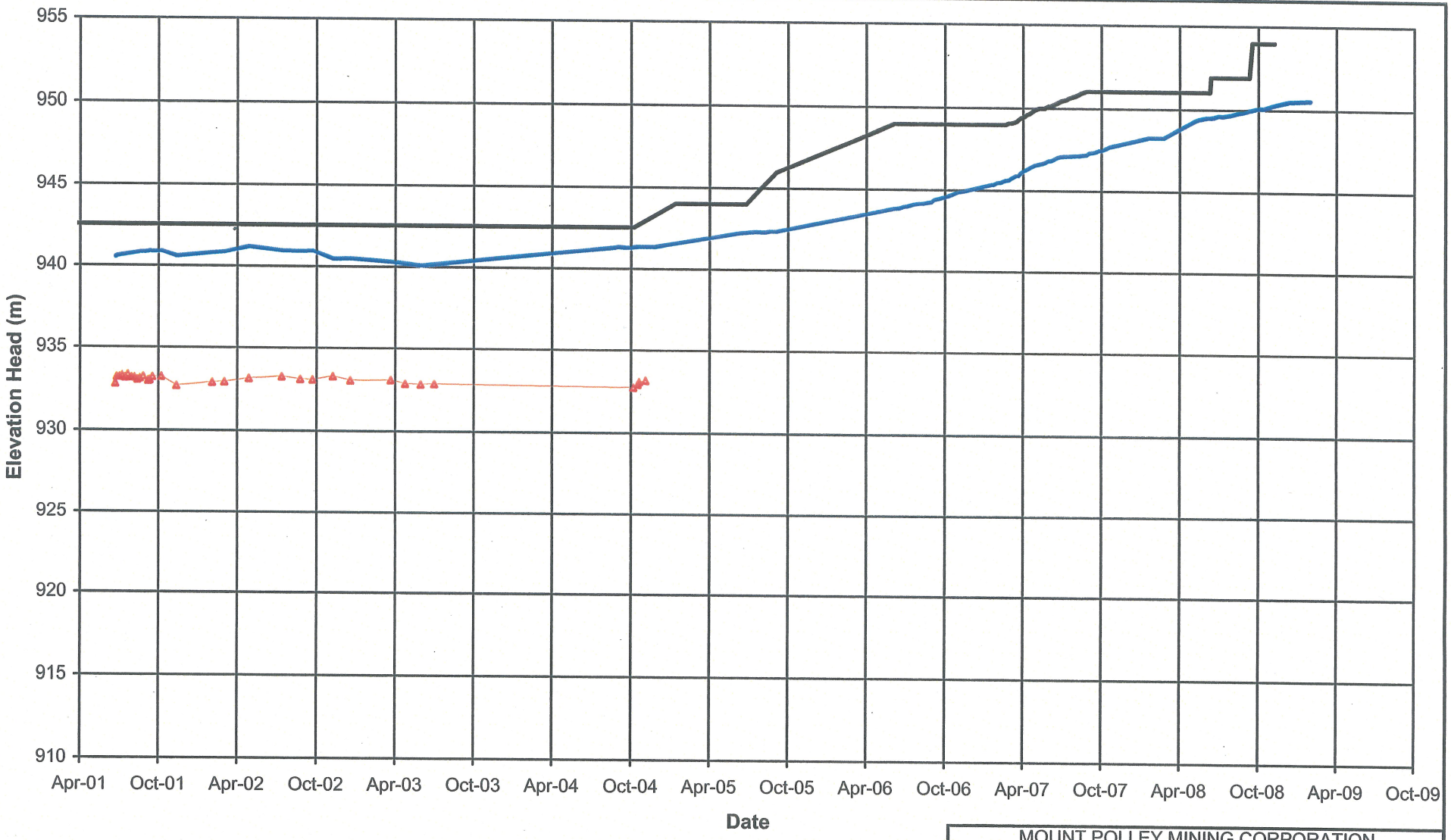
Rev'd 31-Jan-08



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE H DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C4-7

REV 0

M:\1\01\00001\23\A\Data\S6a Field comp Dwnld\S6a\F09 - Piezometer Readings\Plane I PIEZOPlane I Drain

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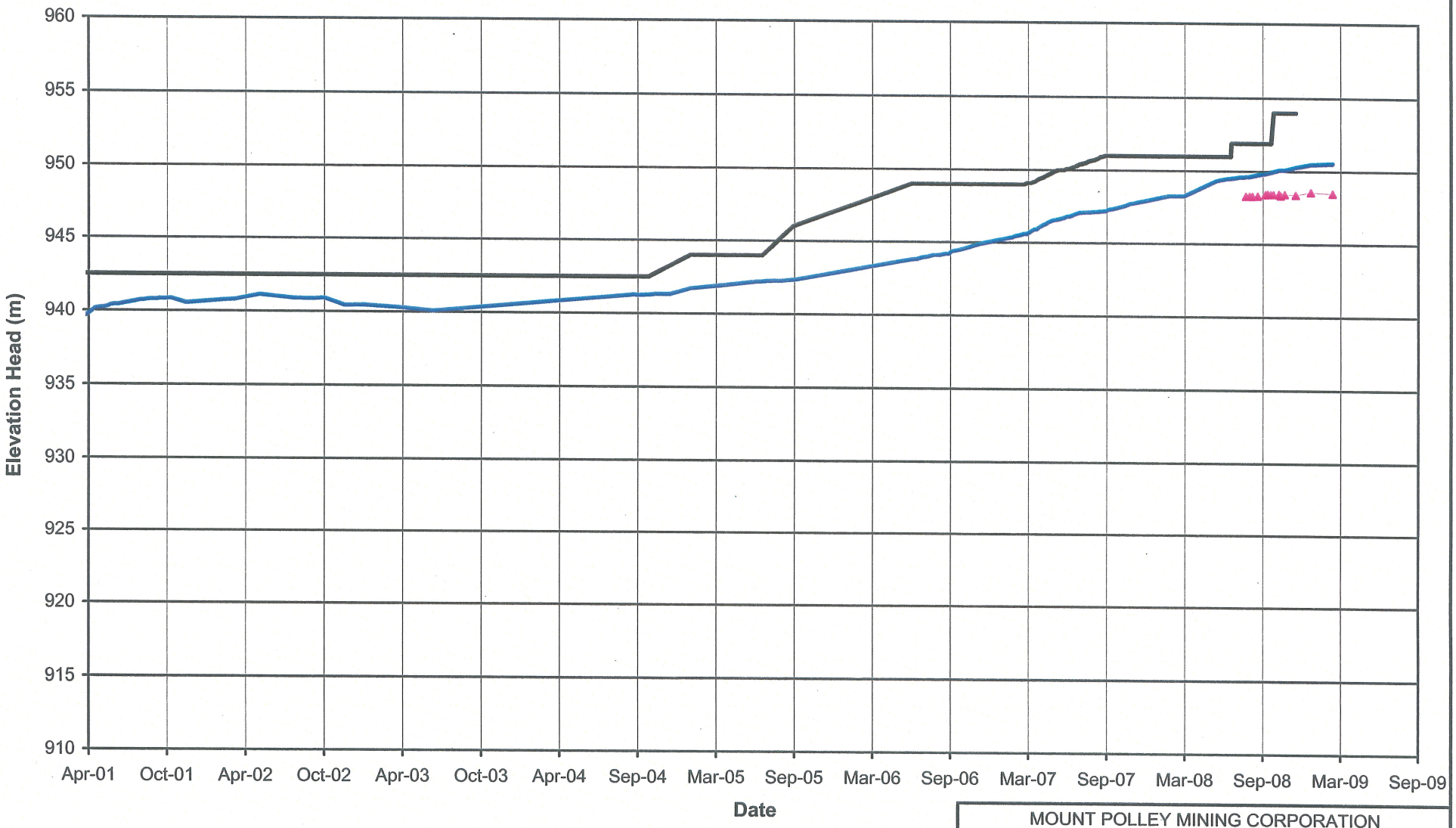
Rev'd: 31-Jan-08



Note:
Piezometers in parentheses no longer functioning

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	03APR09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

PLANE I DRAIN PIEZOMETERS
ELEVATION HEAD vs. TIME

Knight Piésold CONSULTING

P/A NO. VA101-1/23

REF NO. 1

FIGURE C4-8

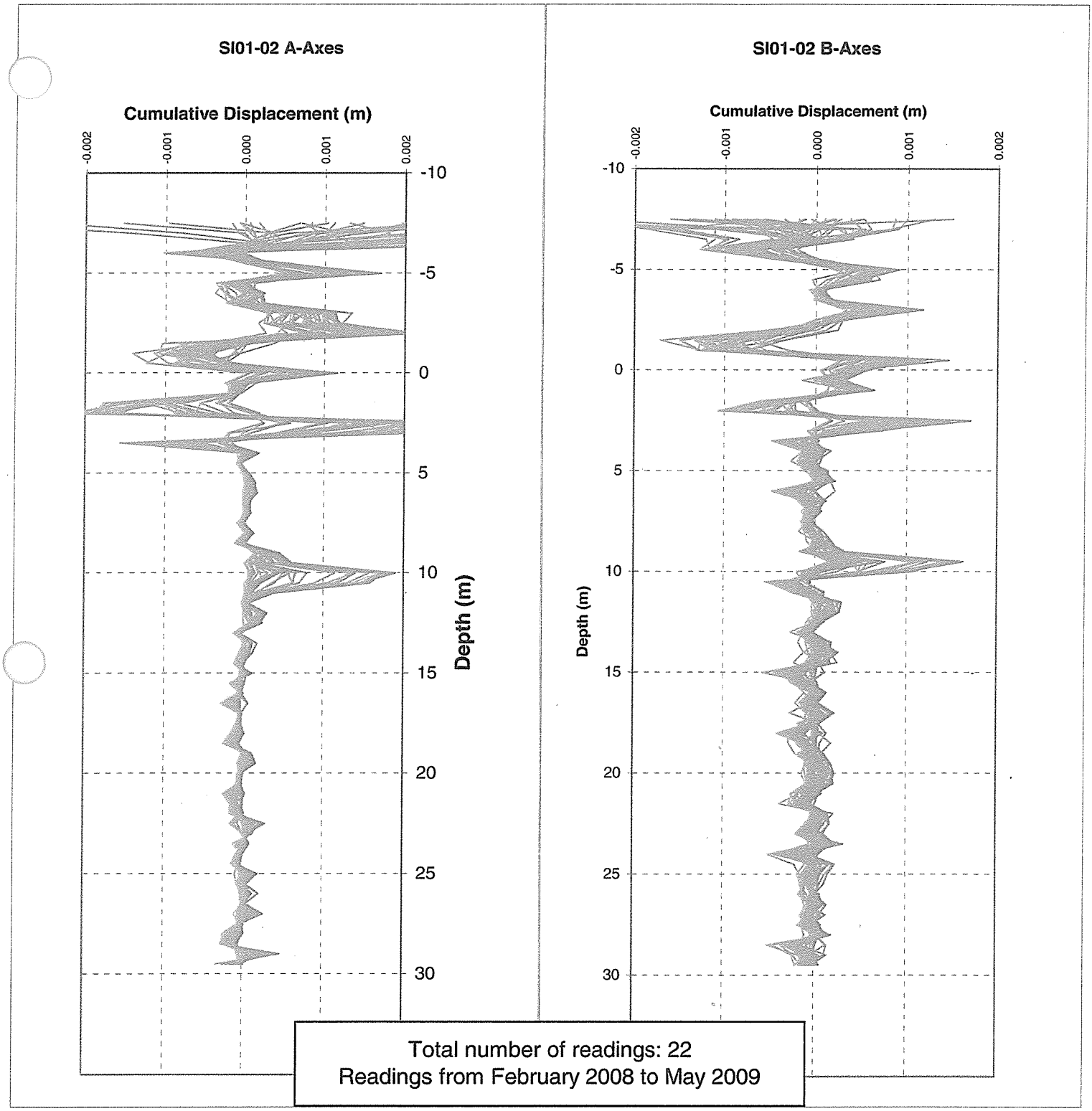
REV 0

Knight Piésold
CONSULTING

APPENDIX D

INCLINOMETER DATA

(Figures D-1 to D-4)



Total number of readings: 22
Readings from February 2008 to May 2009

NOTES:

1. DISPLACEMENT IS CALCULATED BASED ON THE INITIAL DATA SET.
2. NEW DATA STARTED IN FEBRUARY 2007 AS A NEW PROBE WAS PURCHASED.
3. DISPLACEMENT AT 10M DEPTH IS MONITORED ON A WEEKLY BASIS .

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	11May09	ISSUED WITH REPORT VA101-1/23-1	MACS	LJG	LJG

MOUNT POLLEY MINING CORPORATION

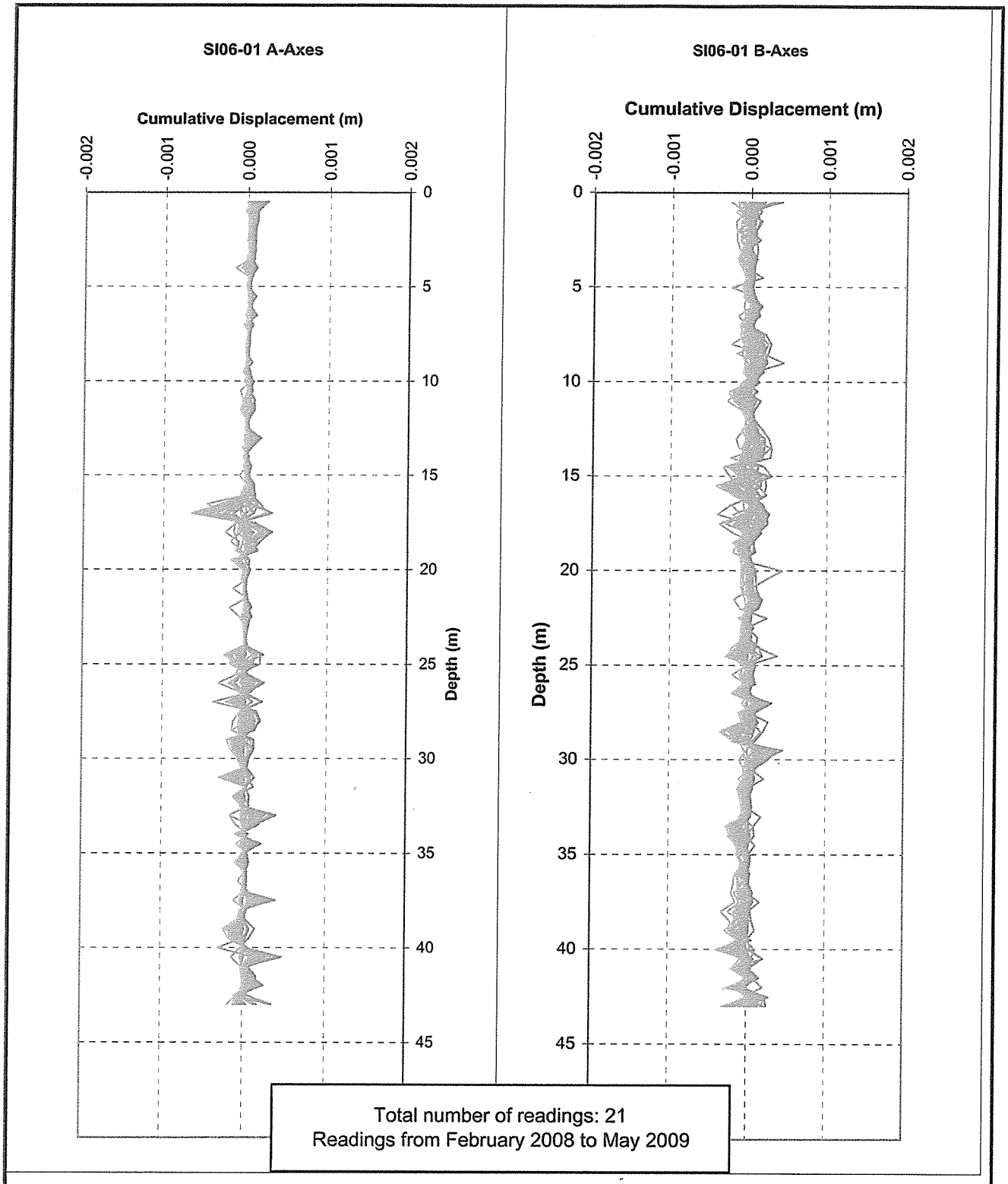
MOUNT POLLEY MINE

DOWN HOLE INCLINOMETER DISPLACEMENT SI01-02

Knight Piésold CONSULTING

P/A NO. VA101-1/23 | REF NO. 1

FIGURE D-1 | REV 0



NOTES:

1. DISPLACEMENT IS CALCULATED BASED ON THE INITIAL DATA SET.
2. NEW DATA STARTED IN FEBRUARY 2007 AS A NEW PROBE WAS PURCHASED.

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

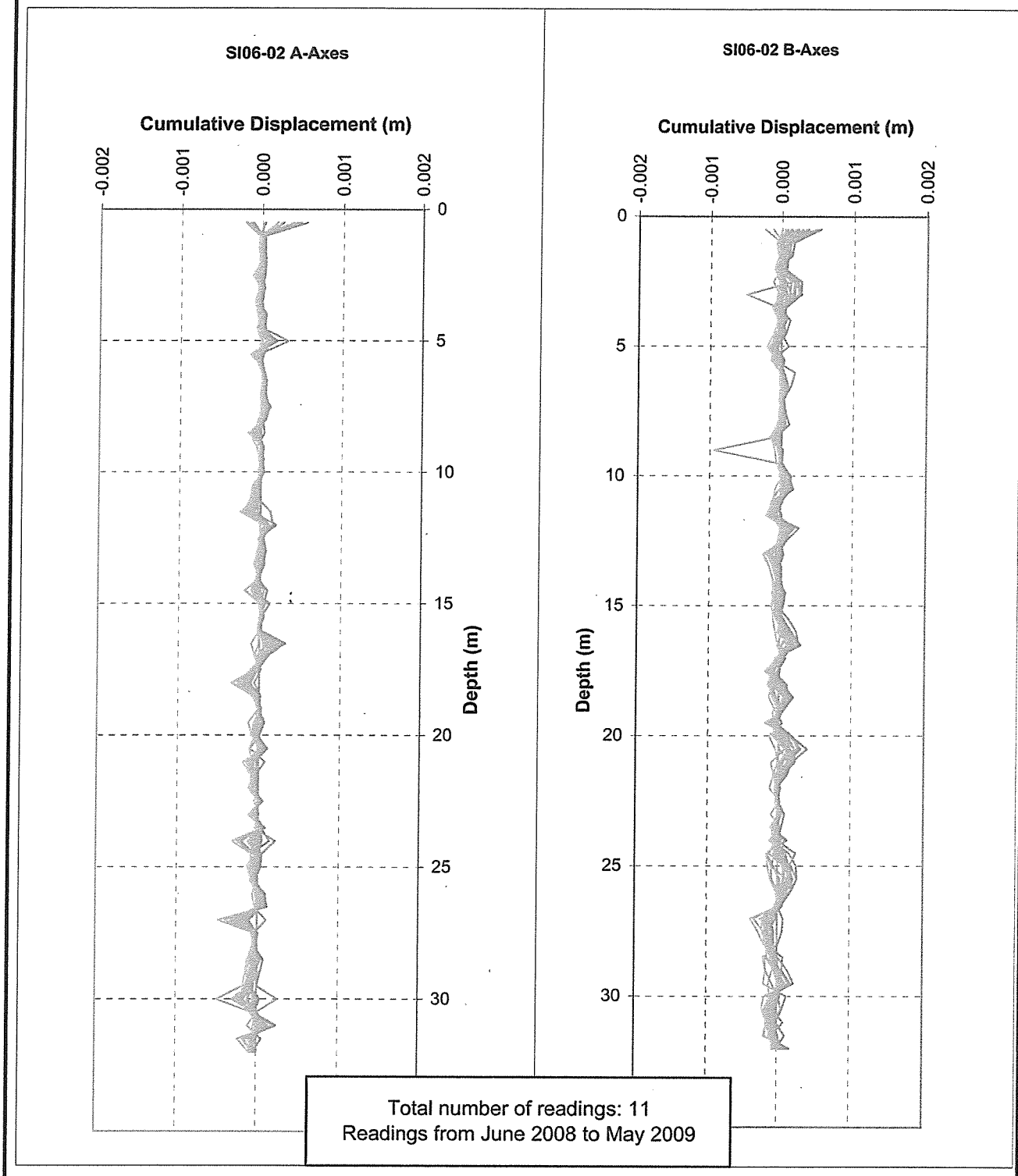
DOWN HOLE INCLINOMETER DISPLACEMENT SI06-01

Knight Piésold CONSULTING

P/A NO. VA101-1/23 | REF NO. 1

FIGURE D-2 | REV 0

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	11MAY09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG



NOTES:

1. DISPLACEMENT IS CALCULATED BASED ON THE INITIAL DATA SET.
2. NEW DATA STARTED IN FEBRUARY 2007 AS A NEW PROBE WAS PURCHASED.

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MOUNT POLLEY MINE

DOWN HOLE INCLINOMETER DISPLACEMENT
SI06-02

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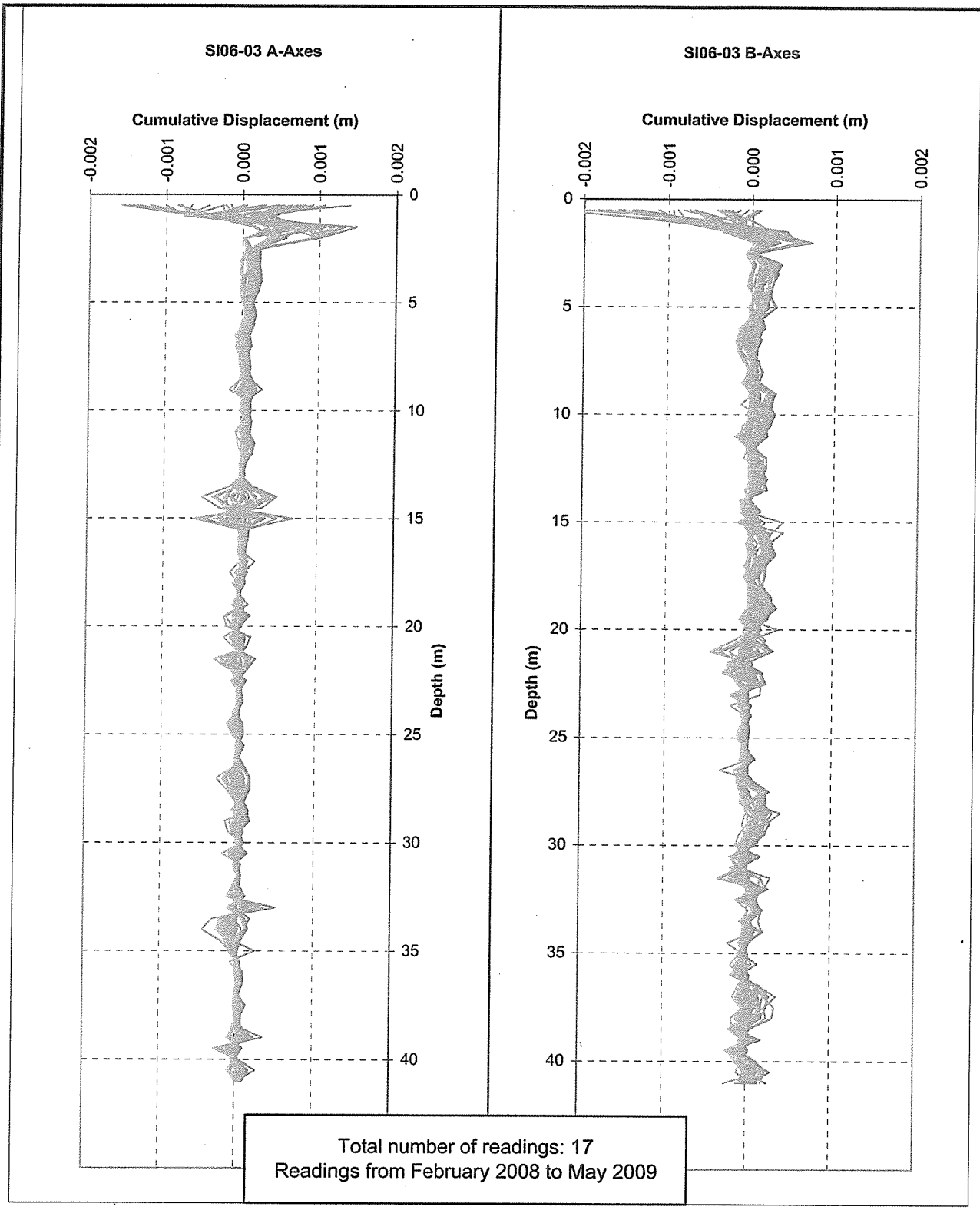
P/A NO. VA101-1/23 | REF NO. 1

FIGURE D-3 | REV 0

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	11MAY09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG



NOTES:

1. DISPLACEMENT IS CALCULATED BASED ON THE INITIAL DATA SET.
2. NEW DATA STARTED IN FEBRUARY 2007 AS A NEW PROBE WAS PURCHASED.

MOUNT POLLEY MINING CORPORATION

MOUNT POLLEY MINE

DOWN HOLE INCLINOMETER DISPLACEMENT SI06-03

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P/A NO. VA101-1/23 | REF NO. 1

FIGURE D-4 | REV 0

REV	DATE	DESCRIPTION	PREP'D	CHK'D	APP'D
0	11MAY09	ISSUED WITH REPORT VA101-1/23-1	JIM	MACS	LJG

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APPENDIX E

PHOTOGRAPHS

(Pages E1 to E16)

PHOTO 1 – Mount Polley Mine Site with the Tailings Storage Facility in the background

PHOTO 2 – Mount Polley Mine Site with the Tailings Storage Facility in the foreground

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MOUNT POLLEY MINE

PHOTO 3 – Placing Till (Zone S) on the Tailings Dam

PHOTO 4 – Romoving Till (Zone S) from Borrow Area 2

PHOTO 5 – The new Perimeter Embankment Borrow Pit

PHOTO 6 – Placing Zone S till material with mine fleet Caterpiller 777's near the end of the construction period

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MOUNT POLLEY MINE

PHOTO 7 – Adding the 777's allowed for a second 'dozer roller team effectively doubling the till production rate

PHOTO 8 – Using the nuclear densometer to confirm field densities of Zone S material.

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MOUNT POLLEY MINE

PHOTO 9 – Zone U sand Cell under construction decant box is shown in the background.

PHOTO 10 – Sand cell decant box.

PHOTO 11 – Sand cell decant box showing the drain opening

PHOTO 12 – Sand cell decant box. Note the control is at the entry to the box.

PHOTO 13 – Using pit waste rock to build Zone U.

PHOTO 14 – Moving the valve sled in preparation for sand cell construction.

PHOTO 15 – Placing Zone F filter material on the 1.5:1 downstream slope.

PHOTO 16 – Placing Zone F filter on the 2:1 upstream slope.

PHOTO 17 – Using a hoe to move the Zone F filter material into its final position.

PHOTO 18 – Compacting the modified design Zone T. This new design is much faster and easier to compact.

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MOUNT POLLEY MINE

PHOTO 19 – Zone F Filter and Zone T transition material on the South Embankment.

PHOTO 20 – Zone C consists of Non Acid Generating (NAG) waste rock from the pits brought to the dam by mine fleet trucks.

PHOTO 21 – Zone C material is pushed into place by a D8 'dozer.

PHOTO 22 – Zone C lifts are kept to less than 2m.

PHOTO 23 – Adding material to the Main Embankment buttress.

PHOTO 24 – Zone FT on the South Embankment abutment.

PHOTO 25 – Zone FT material on the Perimeter Embankment abutment

PHOTO 26 – Piezometer Buckets prior to relocation.

PHOTO 27 – Constructing a sand pile for the piezometers with a rock armor.

PHOTO 28 – South Embankment toe drain concrete encasement.

PHOTO 29 – Main Embankment seepage pond sump.

PHOTO 30 – Perimeter Embankment toe drain flows.

PHOTO 31 – TSF Reclaim Barge.

PHOTO 32 – Mount Polley Mine Tailings Storage Facility.

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APPENDIX F

SITE INVESTIGATION DRILL LOGS

(Pages F1 to F11)

Project:	MOUNT POLLEY MINE	Drill Hole No.	KP08-01
Drilling Co:	Mud Bay	In-Situ Sampler:	
Drilling Method:	Sonic Drill	Elevation:	935 m
Location:	Borrow Area	Total Depth:	19.2 m
Coordinates:	5,819,445 N , 595,951 E	Inclination:	-90

Page 1 of 1
Date Started: May 1, 08
Date Completed: May 1, 08
Logged by: GM
Reviewed by: LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
0	0		GLACIAL TILL Sandy SILT with some clay to CLAY & with some fine gravel with trace cobbles. Poorly graded with sub-round to subangular particles. Very dense. High plasticity. Moist. Massive. Brown to grey-brown.		0		KP08-1-1	//			
5											
10											
15	5										
20											
25											
30					0		KP08-1-2	//			
35	10										
40											
45											
50	15										
55											
60											
65			LACUSTRINE SEDIMENT Clayey SILT. Poorly graded. Very dense. Moderate plasticity. Moist. Massive.		0		KP08-1-3	//			
	20										

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-01

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Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 1

Rev. - 0

SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

M:\1\01\00001\23\A\DATA\BORROW AREA SITE INVESTIGATION - MAY 2008\GINT\BORROW_AREA_SI_JOSIE.GPJ

Date Revised:

Project:	MOUNT POLLEY MINE	Drill Hole No.	KP08-02
Drilling Co:	Mud Bay	In-Situ Sampler:	
Drilling Method:	Sonic Drill	Elevation:	935 m
Location:	Borrow Area	Total Depth:	14.6 m
Coordinates:	5,819,292 N , 596,125 E	Inclination:	-90

Page 1 of 1
Date Started: May 2, 08
Date Completed: May 2, 08
Logged by: GM
Reviewed by: LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
5			GLACIAL TILL CLAY with trace medium grained sand & trace gravel & trace cobbles. Poorly graded with sub-rounded to sub-angular particles. Very dense. Moderate to high plasticity. Moist. Massive. Brown. Zone of grey-brown, very hard, dry to moist till from 2.4 to 5.5 m.		0 0		KP08-2-1 SPT1	// 44/15/36	51		
10											
15	5				0		KP08-2-2	//			
20					0		SPT2	25/30/	30		
25											
30	10										
35			LACUSTRINE SEDIMENT SAND with some clay. Poorly graded. Dense. Low plasticity. Wet. Massive. Brown. From 11 to 14.6 m clay content drops out and sand becomes coarser and drier.		0 0		KP08-2-3 KP08-2-4	// //			
40											
45											
50	15										

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-02

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Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 2

Rev. - 0

F-2

Date Revised:

SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

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Project: MOUNT POLLEY MINE	Drill Hole No. **KP08-04**	Page	1 of 1
Drilling Co: Mud Bay	In-Situ Sampler:	Date Started:	May 1, 08
Drilling Method: Sonic Drill	Elevation: 920 m	Date Completed:	May 2, 08
Location: Borrow Area	Total Depth: 20.7 m	Logged by:	GM
Coordinates: 5,819,414 N , 596,269 E	Inclination: -90	Reviewed by:	LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
0			GLACIAL TILL Sandy SILT with some clay to CLAY and trace fine gravel. Poorly sorted with sub-rounded to sub-angular particles. Very dense. High plasticity. Moist. Massive. Upper 1.2 m is brown in color.		0		KP08-4-2	//			
5					0		KP08-4-1	//			
10											
15	5				0		KP08-4-3	//			
20											
25											
30					0		KP08-4-4	//			
35	10										
40											
45											
50	15		SAND & GRAVEL Medium to coarse SAND & GRAVEL with trace cobbles. Moderate grade with sub-rounded to sub-angular particles. Very dense. Low plasticity. Wet. Massive.		0		SPT1	50//	50		
55					0		KP08-4-5	//			
60											
65	20										
70			LACUSTRINE SEDIMENT Fine SAND. Poorly sorted. Very dense. Low plasticity. Wet. Massive.		0		KP08-4-6	//			
					0		SPT2	50//	50		

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-04

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Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 3

Rev. - 0

SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

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Date Revised:

Project: MOUNT POLLEY MINE	Drill Hole No. **KP08-06**	Page	1 of 1
Drilling Co: Mud Bay	In-Situ Sampler:	Date Started:	May 2, 08
Drilling Method: Sonic Drill	Elevation: 937 m	Date Completed:	May 2, 08
Location: Borrow Area	Total Depth: 13.1 m	Logged by:	GM
Coordinates: 5,819,131 N , 596,297 E	Inclination: -90	Reviewed by:	LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
			GLACIAL TILL Sandy SILT w/ some clay to CLAY with some coarse gravel & trace cobbles. Poorly sorted with sub-rounded to sub-angular particles. Very dense (cored samples are extremely hard). Moderate to high plasticity. Moist. Massive.		0		KP08-6-1	//			
5					0		KP08-6-2	//			
10											
15											
	5		LACUSTRINE SEDIMENT SILT & CLAY with some fine sand. Poorly sorted. Dense. Low plasticity. Wet. Massive.		0		KP08-6-3	//			
20			SAND AND GRAVEL GRAVEL & Coarse SAND with some clay. Moderate grade with sub-rounded to sub-angular particles. Dense. Moderate plasticity. Moist. Massive.		0		KP08-6-4	//			
					0		KP08-6-5	//			
25			LACUSTRINE SEDIMENT Fine SAND & SILT with some clay. Poorly sorted. Dense. Low plasticity. Upper half of interval is wet, lower half is dry. Stratified, 6" clay seam is present in center of interval, dividing wet and dry portions of unit.								
30											
	10										
35			SAND AND GRAVEL GRAVEL & Coarse SAND with some clay. Moderate grade with sub-rounded to sub-angular particles. Dense. Moderate plasticity. Moist. Massive.								
40					0		KP08-6-6	//			
45											

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-06

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Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 4

Rev. - 0

F-4

Date Revised:

SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

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Project:	MOUNT POLLEY MINE	Drill Hole No.	KP08-08	Page	1 of 1
Drilling Co:	Mud Bay	In-Situ Sampler:		Date Started:	May 2, 08
Drilling Method:	Sonic Drill	Elevation:	918 m	Date Completed:	May 2, 08
Location:	Borrow Area	Total Depth:	17.7 m	Logged by:	GM
Coordinates:	5,819,276 N , 596,451 E	Inclination:	-90	Reviewed by:	LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
5	5		GLACIAL TILL Sandy SILT with some clay to CLAY & trace gravel. Poorly sorted with sub-rounded to sub-angular particles. Very dense. High plasticity. Moist. Massive. Brown at the top of the unit, gradually changes to grey till by 4.6 m.		0		KP08-8-1	//			
10					0		KP08-8-2	//			
15					0		KP08-8-3	//			
20											
25											
30	10										
35					0		KP08-8-4	//			
40			LIGHT BROWN LACUSTRINE SEDIMENT SILT with trace clay. Poorly sorted. Very dense. Low plasticity. Wet. Massive. Grain sizes increase with depth into SAND with some gravel with sub-rounded to sub-angular particles.		0		SPT1	50//	50		
45					0		KP08-8-5	//			
50	15				0		KP08-8-6	//			
55											
60					0		SPT2	50//	50		

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-08

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Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 5

Rev. - 0

SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

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Date Revised:

Project: MOUNT POLLEY MINE	Drill Hole No. **KP08-09**	Page	1 of 1
Drilling Co: Mud Bay	In-Situ Sampler:	Date Started:	May 1, 08
Drilling Method: Sonic Drill	Elevation: 921 m	Date Completed:	May 1, 08
Location: Borrow Area	Total Depth: 14.6 m	Logged by:	GM
Coordinates: 5,819,617 N , 596,070 E	Inclination: -90	Reviewed by:	LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
5			GLACIAL TILL Sandy SILT with some clay to CLAY with trace fine gravel & trace cobbles. Poorly sorted with sub-rounded to sub-angular particles. Very dense. High plasticity. Moist. Brown. Stratified with 10-12" thick fine sand lenses at 4.3 m & 7 m.		0		SPT1	50//	50		
10											
15	5				0		KP08-9-1	//			
20											
25											
30			MEDIUM GREY LACUSTRINE SEDIMENT Clayey SILT with trace coarse sand. Poorly sorted with sub-rounded to sub-angular particles. Very dense. Low to moderate plasticity. Moist, shows dilatency when jarred. Massive.		0		KP08-9-2	//			
35	10										
40											
45											
50	15				0		SPT2	50//	50		

SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-09

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Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 6

Rev. - 0

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Date Revised:

Project:	MOUNT POLLEY MINE	Drill Hole No.	KP08-11	Page	1 of 1
Drilling Co:	Mud Bay	In-Situ Sampler:		Date Started:	May 1, 08
Drilling Method:	Sonic Drill	Elevation:	924 m	Date Completed:	May 1, 08
Location:	Borrow Area	Total Depth:	8.5 m	Logged by:	GM
Coordinates:	5,819,744 N , 595,835 E	Inclination:	-90	Reviewed by:	LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
			Loss of Core								
5											
			SAND AND GRAVEL Medium SAND & coarse GRAVEL. Moderately well sorted with sub-rounded particles. Very dense. Low plasticity. Moist to 5.5 m, lower 3 m is dry. Massive. Zone of fine to medium SAND from 2.4 to 5.5 m.		0	☒	SPT1	50//	50	●	
10											
15	5										
					0		KP08-11-1	//			
20											
25											
30											

SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-11

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Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 7

Rev. - 0

M:\1\01\00001\23\A\DATA\BORROW AREA SITE INVESTIGATION - MAY 2008\GINT\BORROW_AREA_SI_JOSIE.GPJ

Date Revised:

Project:	MOUNT POLLEY MINE	Drill Hole No.	KP08-12	Page	1 of 1
Drilling Co:	Mud Bay	In-Situ Sampler:		Date Started:	Apr 30, 08
Drilling Method:	Sonic Drill	Elevation:	933 m	Date Completed:	Apr 30, 08
Location:	Borrow Area	Total Depth:	23.8 m	Logged by:	GM
Coordinates:	5,819,605 N , 595,741 E	Inclination:	-90	Reviewed by:	LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
5			GLACIAL TILL Sandy SILT with some clay to CLAY, with trace gravel from 4 m and down. Poorly sorted with sub-rounded to sub-angular particles. Very dense. High plasticity. Moist. Massive. Brown for the upper 4 m and changes to grey for the rest of the unit.		0		KP08-12-1	//			
					0		SPT1	60//	60		
10											
15	5										
					0		SPT2	50//	50		
20											
					0		KP08-12-2	//			
25											
30											
35	10										
40											
45			LACUSTRINE SEDIMENT Silty SAND w/ some gravel and trace cobbles. Poorly sorted with sub-rounded particles. Very dense. Low plasticity. Dry. Massive. Brown. From 16.8 to 17.7 m the sand content decreases and the clay content increases. From 17.7 to 23.8 m the clay content decreases.								
50	15										
55											
60											
65	20										
70											
75											
80	25										
85											

SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-12

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Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 8

Rev. - 0

Project:	MOUNT POLLEY MINE	Drill Hole No.	KP08-14	Page	1 of 1
Drilling Co:	Mud Bay	In-Situ Sampler:		Date Started:	Apr 29, 08
Drilling Method:	Sonic Drill	Elevation:	931 m	Date Completed:	Apr 30, 08
Location:	Borrow Area	Total Depth:	20.1 m	Logged by:	GM
Coordinates:	5,819,739 N , 595,544 E	Inclination:	-90	Reviewed by:	LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
5			GREY GLACIAL TILL Sandy SILT with some clay to CLAY & trace gravel. Poorly sorted with sub-rounded to sub-angular particles. Very dense. High plasticity. Moist. Massive. Upper 5 m is brown, rest of the unit is grey.		0		SPT1	50//	50		
10					0		SPT2	17/27/32	59		
15	5				0		SPT3	18/42/46	88		
					0		KP08-14-1	//			
20					0		SPT4	50//	50		
25											
30											
	10				0		KP08-14-2	//			
35					0		SPT5	50//	50		
40											
45					0		SPT6	50//	50		
50	15										
55					0		SPT7	50//	50		
60											
65	20										
70											

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-14

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 9

Rev. - 0

SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

M:\1\01\00001\23\A\DATA\BORROW AREA SITE INVESTIGATION - MAY 2008\GINT\BORROW_AREA_SI_JOSIE.GPJ

Date Revised:

Project:	MOUNT POLLEY MINE	Drill Hole No.	KP08-15
Drilling Co:	Mud Bay	In-Situ Sampler:	
Drilling Method:	Sonic Drill	Elevation:	925 m
Location:	Borrow Area	Total Depth:	20.7 m
Coordinates:	5,819,880 N , 595,608 E	Inclination:	-90

Page 1 of 1
Date Started: Apr 30, 08
Date Completed: Apr 30, 08
Logged by: GM
Reviewed by: LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
5			GLACIAL TILL Sandy SILT with some clay to CLAY & trace fine gravel. Poorly sorted with sub-rounded to sub-angular particles. Very dense. High plasticity. Moist. Massive. Brown.		0		KP08-15-1	//			
					0		SPT1	16/18/50	68		
10			LACUSTRINE SEDIMENT Clayey SILT with some medium to coarse gravel. Poorly sorted with sub-rounded to sub-angular particles. Very dense. High plasticity. Wet. Massive.		0		KP08-15-2	//			
15	5				0		KP08-15-3	//			
			GLACIAL TILL Sandy SILT with some clay to CLAY & some fine gravel. Poorly sorted with sub-rounded to sub-angular particles. Very dense. High plasticity. Moist. Massive. Grey.		0		SPT2	50//	50		
20											
25											
30	10										
35			SAND AND GRAVEL Medium to coarse SAND with some fine to coarse gravel. Poorly sorted with sub-rounded to sub-angular particles. Very dense. Low plasticity. Moist. Massive. Layer of GLACIAL TILL from 11.6 to 11.9 m.		0		KP08-15-4	//			
40			LACUSTRINE SEDIMENT Fine SAND & SILT & CLAY with trace coarse gravel & trace cobbles. Poorly sorted with sub-rounded to sub-angular particles. Dense. Low plasticity. Moist. Massive.								
45											
50	15		SAND AND GRAVEL Fine to medium SAND with coarse gravel and trace cobbles. Poorly sorted with sub-rounded to sub-angular particles. Dense. Low plasticity. Moist. Massive. Becomes better graded and coarse particle content increases with depth.								
55											
60											
65	20										
70											

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-15

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 10

Rev. - 0

SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

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Date Revised:

Project:	MOUNT POLLEY MINE	Drill Hole No.	**KP08-16**	Page	1 of 1
Drilling Co:	Mud Bay	In-Situ Sampler:		Date Started:	May 2, 08
Drilling Method:	Sonic Drill	Elevation:	930 m	Date Completed:	May 2, 08
Location:	Borrow Area	Total Depth:	11.6 m	Logged by:	GM
Coordinates:	5,819,663 N , 595,778 E	Inclination:	-90	Reviewed by:	LG

DEPTH (ft)	DEPTH (m)	GRAPHIC LOG	DESCRIPTION	DRILL RUN RECOVERY (%)	SAMPLE RECOVERY (%)	SAMPLES	SAMPLE NO.	BLOW COUNT	SPT 'N' VALUE	SPT TEST DATA Uncorrected 'N' values vs. depth (●) 20 40 60 80	NOTES
0			GLACIAL TILL Sandy SILT with some clay to CLAY & trace gravel. Poorly sorted with sub-rounded to sub-angular particles. Very dense. High plasticity. Moist. Massive. Brown.		0		KP08-16-1	//			
15	5		SAND AND GRAVEL SAND with some gravel. Moderately well sorted with sub-rounded to sub-angular particles. Dense. Low plasticity. Dry. Stratified with seam of sandy clay with cobbles at 5 m to 5.5 m. Zone of mod. to highly plastic clay and silt and sand from 6.1 to 9.1 m.		0		KP08-16-2	//			
20					0		KP08-16-3	//			
					0		KP08-16-4	//			
30	10				0		KP08-16-5	//			
40											

MOUNT POLLEY MINING CORPORATION
MOUNT POLLEY MINE
Overburden Log For KP08-16

Knight Piésold CONSULTING

Project No.	Ref. No.	Rev.
VA101-1/23	VA08-02318	

FIGURE 11

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SOILS LOG BORROW_AREA_SI_JOSIE.GPJ KP_EXAMPLE.GPJ Dec 19, 08

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