2020 EMRS Progressive Reclamation Record of Construction

December 31, 2020

newgold™

okane

Integrated Mine Waste Management
and Closure Services
Specialists in Geochemistry and
Unsaturated Zone Hydrology

2020 EMRS Progressive Reclamation Record of Construction

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EXECUTIVE SUMMARY

The East Mine Rock Stockpile (EMRS) lower bench slope areas identified for progressive reclamation in autumn 2020 included approximately 14 ha in the SE shear key area and NE wick drain 2/3/4 area. The EMRS is a Potentially Acid Generating (PAG) stockpile, and it is important that the engineered closure cover system is constructed as designed to mitigate the ingress of oxygen, reduce net percolation of water, and lessen the release of acid leachate from the landform. The cover design includes a 0.5 m compacted layer (constructed in two 0.25 m lifts), and 1.0 m non-compacted layer (placed in two 0.5 m lifts).

Construction Quality Assurance (CQA) is a key component of quality management during construction. Okane Consultants Inc. (Okane) considers the role of CQA to be one of proactive defect prevention, with a focus on the process for managing quality. This differs from Construction Quality Control (CQC), which is focused on the verification of quality, traditionally through inspection and testing. CQC services for 2020 progressive reclamation on the EMRS were provided by Tulloch Engineering, who were on-site full-time for the duration of construction activities. CQA services were provided by Okane part-time on-site and through remote support. CQA included the development and update of construction specifications, regular audits of the onsite CQC and inspection activities, review of CQC testing data and observations, and technical support as required.

The material used for construction of the closure cover system was sourced from the open pit at the mine site. The variability of the material and associated compaction properties presented dynamic conditions, requiring thorough understanding of the material properties and cover system objectives for CQC and CQA activities. Particularly, ability to correctly characterize material type and understand the relationship between test results and hydraulic conductivities of the compacted clay layer component of the cover system has been a key focus of the CQC / CQA program.

The closure cover was constructed to specification on approximately ~3.9 ha (39,000 m^2) of the identified 14 ha ready for progressive reclamation during the autumn 2020 construction season. An additional ~0.1 ha is completed but requires CQC confirmation testing in spring 2021. Approximately 0.4 ha did not meet specification for compacted layer thickness due to a delay in available survey data and will need to be investigated and determined if re-work is required during the next construction season.

Key learnings from the 2020 construction season included:

- Seasonal construction strategies to prepare material for compaction at optimum water contents of the materials (i.e. stockpiling or spreading material as appropriate to conditions);

- Refinement of timeline specifications for placement of the non-compacted layer (24-hour window can be expanded in non-desiccating conditions);
- GPS-guided equipment and improved survey data management is needed for timely CQC and CQA of layer thicknesses; and
- Proactive sampling of stockpiled material to pre-qualify materials for compacted clay layer (CCL) or non-compacted layer (NCL) construction improves efficiency.

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LIST OF ACRONYMS AND DEFINITIONS

Abbreviation	Full Text
New Gold	New Gold Inc.
Okane	Okane Consultants
Tulloch	Tulloch Engineering
Allnorth	Allnorth Consultants Ltd.
PAG	Potentially Acid Generating
CCL	Compacted Clay Layer
NCL	Non-compacted Layer
EMRS	East Mine Rock Stockpile
CQC	Construction Quality Control
CQA	Construction Quality Assurance
OWC	Optimum Water Content
NP	Net Percolation
O_2	Oxygen
WML	Whitemouth Lake
RRM	Rainy River Mine
PSD	Particle Size Distribution
MDD	Maximum Dry Density
Technical Specifications	EMRS Cover System Operational Handbook
Panel	A section of cover constructed from the same stockpile of source material and built at the same time with dimensions of ~30-40m in width and full slope length
SPMDD	Standard Proctor Maximum Dry Density
OVB	Overburden
L1	Lift 1 - First placed layer of the CCL
L2	Lift 2 - Second placed layer of the CCL
L3	Lift 3 - First placed layer of the NCL
L4	Lift 4 - Second placed layer of the NCL

1 INTRODUCTION

New Gold Inc. (New Gold) is in the process of progressively reclaiming the lower bench slopes of the East Mine Rock Stockpile (EMRS); about 14 ha of area was identified as ready for reclamation in 2020. The mine rock used to build the EMRS is classified as potentially acid generating (PAG), and the closure cover system is designed to reduce acid leachate from the stockpile by use of a compacted clay layer (CCL) limiting oxygen ingress and net percolation to the mine rock. New Gold is utilizing overburden (OVB) sourced directly from the open pit to construct the cover system and has retained Okane Consultants (Okane) to assure the closure cover system built on the EMRS meets the objectives of the design using this material.

Okane has investigated the OVB material suitability by performing a desktop characterization study, geotechnical veneer stability analysis, and field compaction trials. The OVB material sourced from the open pit is generally well-suited for construction of the required CCL but exhibits considerable variability in optimum water content (OWC) and maximum dry density (MDD). As such, careful consideration of material characteristics is required during placement to demonstrate appropriate compaction of the CCL. Accordingly, Okane has developed the EMRS Cover System Construction Operational Handbook (Okane, 2020d) to guide construction activities: including Technical Specifications and tolerances for Construction Quality Control (CQC) testing and a material selection guide to facilitate application of appropriate reference proctors. Okane continues to update this living document with increased confidence in material characteristic (dry density, clay content, and hydraulic conductivity) relationships and in response to changing field conditions using field testing and laboratory data results, as appropriate. Additionally, as part of Okane's role in providing technical support and construction quality assurance (CQA) services during the 2020 construction season (August 25th to October 26th, 2020), Okane has conducted data and field process audits of CQC activities, conducted in-situ investigations of hydraulic conductivity, assessed compliance with the Technical Specifications, provided guidance for further laboratory testing, as required, and documented construction, CQC and CQA activities.

1.1 Project Objectives and Scope

The objectives of this project are to provide a detailed record of construction (ROC) report for the progressive reclamation closure cover system construction activities that took place on the lower bench slopes of the EMRS in autumn 2020. This ROC report serves to document the construction methodology, detail the CQC and CQA processes developed and implemented during this time, and record deviations from the Technical Specifications and design that could impact the closure cover system performance. It is intended the ROC will be used to

demonstrate the as-built conditions of the cover system and therefore its expected long-term performance.

The scope of this project involved completion of the following tasks:

- Review of CQC daily reports, laboratory and field test results;
- Review of map data;
- Compilation of CQA audit reports and recommendations; and
- Evaluation of construction methods and CQC activities relative to Technical Specifications and closure cover system design objectives.

1.2 Report Organization

For convenient reference, this report has been subdivided into the following sections:

- Section 2 – describes the EMRS closure cover system design and objectives, and discusses the closure cover system quality assurance approach used for the EMRS;
- Section 3 – provides an overview of the construction scope and cover system construction activities completed during the 2020 construction season;
- Section 4 – discusses occurrences of non-compliance with the Technical Specifications for cover system construction, and associated re-work activities;
- Section 5 – provides a summary of learnings and recommendations for future programs;
- Appendix A– includes the EMRS Cover Construction Operational Handbook;
- Appendix B – provides a summary of laboratory results;
- Appendix C – includes daily placement maps provided by Tulloch;
- Appendix D – provides a summary of daily activities and a record of completed panel sections and includes Tulloch daily reports;
- Appendix E – includes density reports provided by Tulloch; and
- Appendix F – includes quality assurance inspection reports.

2 BACKGROUND

The EMRS has been designed to store and encapsulate PAG mine rock. An enhanced cover system consisting of a barrier layer overlain by a growth medium is designed to limit net percolation (NP) and control oxygen (O_2) ingress to the PAG mine rock. The enhanced cover system uses both moisture store-and-release and enhanced runoff principles to achieve reduced NP. The barrier layer within the cover system controls O_2 ingress by effectively eliminating advective gas transport and is an integral part of the overall effectiveness of the cover system. However, a degree of saturation of approximately 85% must be maintained within the layer for the advective gas transport barrier to be effective. A barrier layer typically requires a maximum saturated hydraulic conductivity equal to or less than 1 x 10^{-7} cm/s. The enhanced cover system will be placed over the side slopes, benches, and the upper plateau areas of the stockpile, progressively during operations, and at closure. Progressive rehabilitation of the stockpile began in autumn 2020; about 14 ha of the lower bench slopes in the NE and SE were identified as ready for cover system construction, following rock placement and surface preparation.

The two-layer cover system will consist of:

- A 0.5 m compacted overburden layer placed directly on the landform prepared to the required grade;
- A 1 m non-compacted overburden layer placed directly on the underlying compacted layer;
- A vegetation cover that meets landform land use expectations; and
- A surface water management system that allows for the landform to meet physical stability expectations.

The 1 m layer of non-compacted overburden material is the main store-and-release component of the cover system (growth medium), while the 0.5 m layer of compacted overburden material limits NP and O_2 ingress into the underlying mine rock (barrier layer). The cover system provides source control in two ways: the limitation of O_2 into the mine rock, thereby decreasing the oxidation of sulphide materials within; and reduction of water infiltrating through the stockpile and reporting to shallow toe seepage or to the groundwater table.

2.1 Closure Cover System Quality Assurance Process

The following describes the work that was done to assure the progressive closure cover system on the EMRS constructed during the 2020 season was built to design and will ultimately meet performance objectives.

2.1.1 Purpose and Approach

The purpose and approach of the closure cover system quality assurance program was as follows:

1) Determine if materials are suitable for utilization in the EMRS cover system based through desktop study of known material characterization and variability;

2) Assess feasibility of cover system construction including use of cover materials in field conditions through compaction trials and additional material characterization work;

3) Develop the EMRS Cover System Operational Handbook to provide Technical Specifications and guide construction activities to assure the cover system meets design and closure objectives;

4) Monitor and evaluate construction activities against Technical Specifications, and identify areas where construction does not meet design criteria and may not meet closure objectives;

5) Update Operational Handbook as appropriate, incorporating field learnings and additional material characterization data; and

6) Ongoing cover system performance monitoring to evaluate the constructed cover system meets performance objectives.

2.1.2 Material Characterization

New Gold is utilizing material from the open pit for the construction of the closure cover system on the EMRS. The identified clay OVB within the pit boundary consists of both the Brenna formation and the WML formation and range in thicknesses of 1 to 5 m and 2 m to 27 m, respectively. Okane performed a review and desktop analysis of Golder and AMEC characterization data available for the open pit as well as the Brenna and WML formation material from other borrow areas on site (Okane, 2020a).

Initial review of material properties for both Brenna and WML OVB materials indicated either material would be suitable for use in the NCL and in construction of the CCL layer in terms of meeting hydraulic conductivity objectives, provided field workability and geotechnical stability was further assessed for the WML material. However, the use of the materials together in construction is more challenging, as each material has a different OWC and target compaction range, requiring involved CQC / CQA effort.

2.1.3 Geotechnical Stability

Given the high plasticity of the WML material, and possibility of formation of slickenside surfaces on a slope, a geotechnical analysis was completed to assess the veneer stability using Brenna and WML materials in the cover system construction (Okane, 2020b). Available information for Brenna and WML materials indicated these materials have equivalent remolded strengths, and a single set of simulations were run to represent the material properties of both materials for the purposes of stability. Results indicated that for the geometries of the lower EMRS bench slopes (including 4H:1V, 5H:1V, and 7H:1V slopes) under base case conditions, minimum factors of safety for long-term stability were met. However, sensitivity analysis for the 4H:1V slope geometry indicated that under elevated moisture conditions, long-term factors of safety would not be met, emphasizing the importance of quality control and assurance, and clean-up during construction to prevent this condition.

2.1.4 Field Compaction Testing

Field compaction trials were conducted in June 2020 as described in (Okane, 2020c). Results of the testing program show that the materials representative of those used during the trials could be successfully incorporated into a CCL with a hydraulic conductivity less than or equal to the design value. Key learnings and considerations for full-scale construction included:

- Importance of material control processes for optimization: implementing material identification and selection controls at source, preparation of material to achieve target water content, and removal of organic and oversize materials;
- Loose lift placement: pushing material downslope with a dozer likely preferred placement method, undulating waste rock surface facilitated loose lift placement, but resulted in variable layer thickness, and high-resolution topographical survey recommended;
- Compaction methodology: at suitable water contents, four passes of the 11 tonne sheepsfoot roller using maximum vibratory action was sufficient to achieve 95% compaction, 1/3 overlap recommended, and a compactor towed behind a dozer may provide an increased level of safety and reliability on the sloped surface; and
- Field testing: a detailed CQC program is required for full-scale construction, techniques that may be employed for determining material compaction characteristics include subjective assessment, one-point compaction tests, three-point compaction tests, and test pads.

2.1.5 EMRS Cover System Operational Handbook (Technical Specifications)

Building on the characterization and field trial work, Okane developed the EMRS Cover System Operational Handbook (Okane, 2020d), referred to herein as the Technical Specifications. Summary sheets of testing frequencies and tolerances, and construction specifications along with a materials selection guide were developed to accompany the Technical Specification. These documents are specific to the progressive reclamation cover system construction on the EMRS using the OVB material sourced from the open pit and focus on providing clear and concise guidance for construction activities and CQC / CQA practices. The Technical Specifications were developed using available material characterization to ensure the constructed cover system will meet performance and design criteria, including geotechnical stability and hydraulic conductivity requirements of the CCL. It should be noted, in some cases results of material testing may not meet specification, but still be suitable for use in construction, at the discretion of the CQA. The full Operational Handbook is included in Appendix A. Key specifications, tolerances, and testing frequencies are summarized as follows:

2.1.5.1 EMRS Waste Rock Surface

- Relatively dense and uniform foundation for the cover system, with minimal open void and no large protruding rocks
- Surface prepared to design specifications, and prepared to the satisfaction of CQC
- Approved surface shall be surveyed as a record of construction

2.1.5.2 Compacted Clay Layer (CCL)

- Material must be free of deleterious material such as organics and oversize materials (>0.250 m)
- CCL shall be compacted to 95% of the maximum dry density, at a moisture content of 0% to 2% dry and 1% to 4% wet (percentage points) of optimum water content
- Nominal CCL thickness shall be 0.5 m to a tolerance of -0.1 m / +0.2 m, constructed in two lifts of 0.25 m to a tolerance of -0.1 m /+ 0.2 m
- Approved areas of the CCL shall not be left exposed longer than 24 hours

2.1.5.3 Non-compacted Layer (NCL)

- Minimum total thickness 1.0 m, constructed in minimum two lifts to allow for track compaction
- Water content of NCL materials should not be greater than 2 percentage points wet of *in situ* water content at placement.

3 2020 CONSTRUCTION SEASON SUMMARY

This section summarizes the progressive reclamation cover system construction activities that took place on the EMRS in autumn 2020. Construction began August 25, 2020 and was wrapped-up for the season on October 26, 2020. Approximately 3.9 ha of cover system was constructed.

3.1 Cover System Construction Roles and Responsibilities

During the 2020 construction season, New Gold constructed the cover system and managed site operations, Tulloch performed CQC testing, Allnorth provided laboratory services, and Okane was responsible for CQA and technical guidance (Figure 3.1).

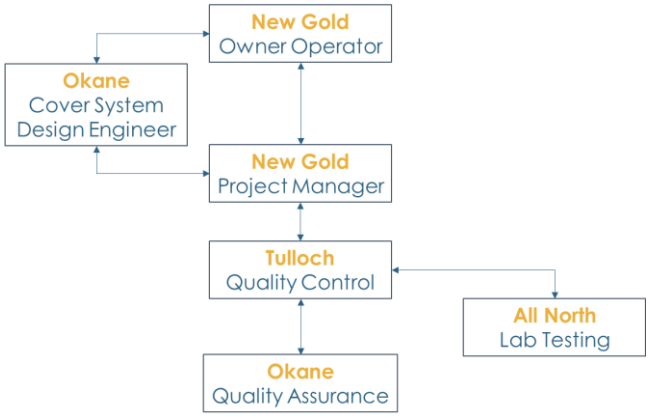

Figure 3.1: Cover system construction responsibilities

Specific responsibilities of each group were as follows:

New Gold, Owner Operator and Project Manager

- Provide equipment, personnel, and materials required for surface preparation and cover system construction;
- Manage site logistics, including coordination of material management and preparation;
- Give the CQC and CQA full cooperation in sample taking or conducting tests at their discretion and render such assistance as is necessary to enable sampling and testing to be carried out expeditiously;
- Allow sufficient time for the CQC and CQA to carry out the required test work in order to determine the acceptability of the placed materials;

- Survey the waste rock surface as a record of construction to confirm the landform conforms to EMRS design specifications, and allow for determination of proper cover system layer thicknesses in all areas; and

- Final sign off on daily reports.

Tulloch, Construction Quality Control (CQC)
Verification of quality, through inspection and testing

- Inspect and approve waste rock surface meets technical specifications for cover system placement;

- Carry out material control tests on materials in excavations and stockpiles prior to compaction to determine the adequacy of the materials for use in the cover system construction as per the Technical Specifications;

- Identify the appropriate compaction curve for the material used in each section of the CCL, by performing a subjective assessment (based on materials selection guide and site experience with the materials). When uncertain of which curve to apply, request a new standard proctor test and/or utilize supplemental techniques to facilitate selection of the compaction curve, as appropriate: one-point proctor compaction tests, three-point proctor compaction tests, or test pads;

- Verify appropriate construction techniques are used in cover system construction, as outlined in the Technical Specifications (compaction energies applied to CCL, equipment used, surface preparation, CCL exposure times, loosening of NCL, etc.);

- Verify lift thicknesses are within tolerances outlined in the Technical Specifications;

- Conduct record tests on the materials in the completed portions of the CCL following placement and compaction to confirm the adequacy of the work, and to provide an as-built record of the workmanship achieved;

- Approve panels of CCL, given the panels meet the Technical Specifications with support from CQA (remotely or during site rotation) when required;

- Document activities, observations, samples collected, tests completed, compaction curves selected, as well as approval of any CCL panels in the daily summary report. Provide summary notes and relevant data to CQA personnel on a daily basis;

- Apply correction of water content lab results to field densometer results; and

- Collect as-built surveys of each lift within the cover system for thickness verifications, quantities, and as-built documentation.

Allnorth, Laboratory Testing

- Analysis of laboratory samples as provided by CQC or CQA

Okane, Construction Quality Assurance (CQA) and Cover System Design Engineer
Proactive defect prevention, with a focus on the process for managing quality

- Conduct inspections, audits, and review of all work conducted and approved by the CQC. It is at the discretion of the CQA to provide final approval for completed panels of the cover system construction;

- Review results of CQC testing. CQA's assessment of test results will be final and conclusive in determining compliance with the Technical Specifications;

- Perform in-situ hydraulic conductivity testing on the CCL as part of the record testing prescribed in the Technical Specifications, and through audits to confirm the hydraulic conductivity of the CCL is within acceptable range in varying material types;

- Request additional testing above the minimum outlined in the Technical Specifications, as required to satisfy confidence in cover system construction;

- Conduct a laboratory quality check through the comparison of results from samples sent to an external laboratory to results from the on-site Allnorth laboratory;

- Provide technical support and guidance to CQC in selection of appropriate compaction curves for construction of the CCL, and provide clarifications of the Technical Specifications, as needed;

- Modify the testing and rates of testing prescribed in the Technical Specifications, and otherwise make modifications to reflect changing conditions, as appropriate;

- Review test results considered to be a 'failure' as per the Technical Specifications and confirm the materials suitability within the CCL with a focus on *in situ* hydraulic conductivity;

- Provide New Gold with high-level monthly audit reports outlining construction progress, identifying issues, summarizing CQC / CQA activities, and including recommendations; and

- Provide a comprehensive Record of Construction Report documenting cover system construction and CQC / CQA activities which occurred during the 2020 construction season.

3.2 Scope of Construction

The scope of construction involves construction of an engineered closure cover system over the mine rock on the lower bench slopes of the EMRS deemed ready for progressive reclamation. The closure cover system consists of a minimum 0.5 m thick CCL overlain by a minimum 1.0 m thick non-compacted layer (NCL) to be constructed as per the Technical Specifications (Okane, 2020d). New Gold provided the equipment and operators during 2020 construction activities.

3.2.1 Safety and Environment

No incidents were reported over the course of the construction. No environmental incidents of any significance occurred during the project.

3.2.2 Equipment Used

Equipment used on this project included a Komatsu 155AX dozer, Komatsu D65 dozer, CAT D8T dozer, Komatsu Bowmag 211 sheepsfoot packer, and Komatsu PC210LC excavator. The CAT D8T dozer was equipped with GPS blade control and was brought to site on September 24th to increase proficiency in determining lift thicknesses of the CCL and NCL.

3.3 Construction Completed in 2020

The overall area of the lower EMRS slopes that was completely covered and surveyed during the autumn 2020 construction season was approximately 3.9 ha. This represents 28% of the approximate 14 ha area identified as ready for progressive reclamation. Most of this area is considered finished, with the exception of select areas of apparent insufficient lift thickness, and a small area placed in freezing temperature which will need to be investigated in 2021. The overall average CCL thickness was 0.28 m /lift, and NCL thickness was 0.5 m /lift. An overview of the construction area is provided in Figure 3.2

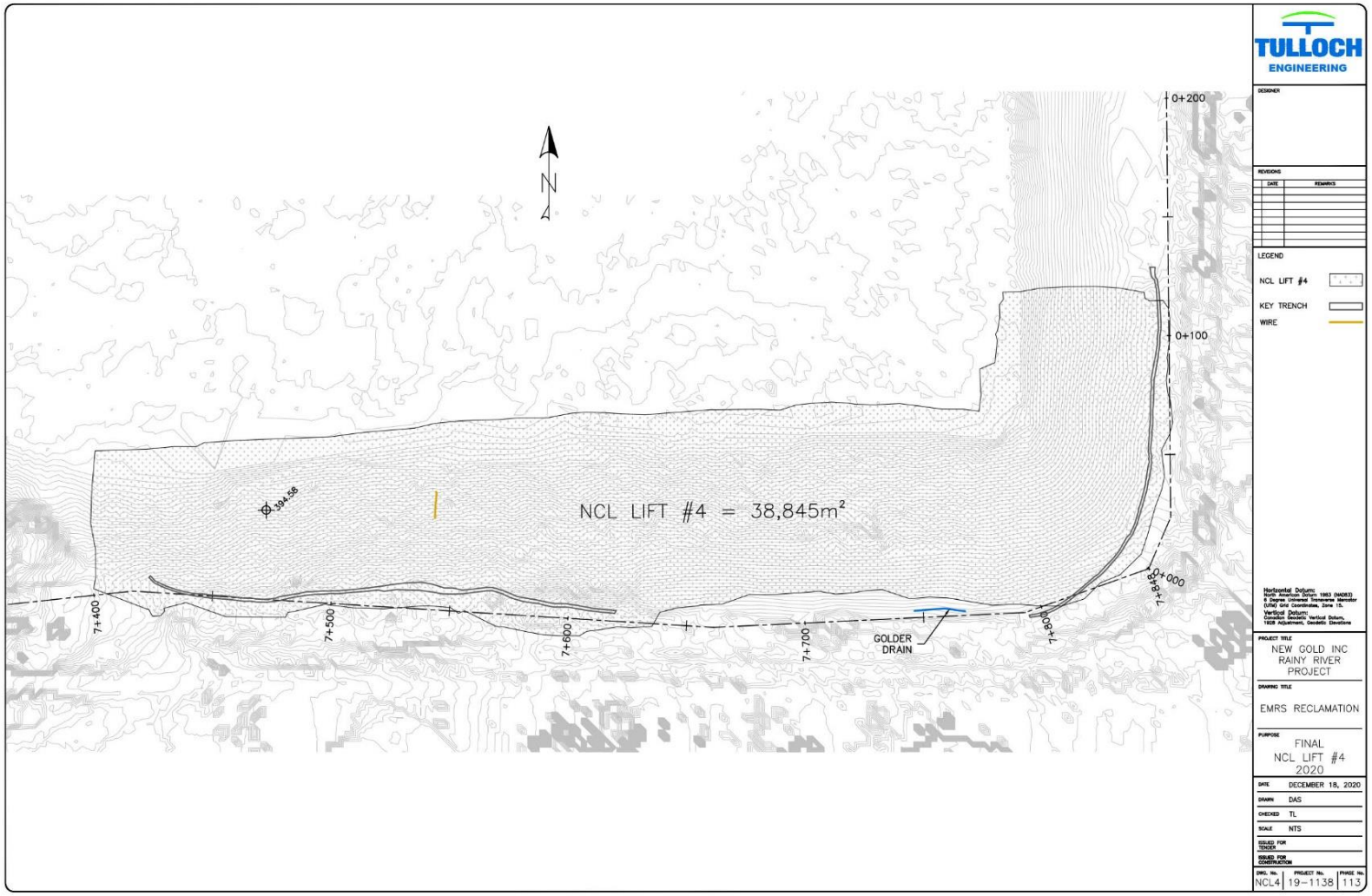

Figure 3.2: Overview of cover system area constructed during the autumn 2020 construction season.

Tulloch, 2020d

3.3.1 Material Placement Details

The total as-built volume of material placed during the autumn 2020 construction season, as reported by Tulloch (2020d), was 59,516 m^3 (Table 3.1). To date, 20,754 m^3 of CCL and 38,291 m^3 of NCL have been placed (Tulloch, 2020b).

Table 3.1: Material Placement Volumes

Lift	Material Placed Aug 27th to Sep 30th, 2020[1]	Material Placed Oct 1st to Oct 31st, 2020	Total Material Volume Placed to Date[2]
Lift 1 – CCL	8,659 m^3	2,716 m^3	11,375 m^3
Lift 2 – CCL	6,029 m^3	3,350 m^3	9,379 m^3
Lift 3 – NCL	14,173 m^3	5,873 m^3	20,046 m^3
Lift 4 – NCL	10,028 m^3	8,217 m^3	18,245 m^3
Key-in Trench	253 m^3	218 m^3	471 m^3
Totals	**39,142 m^3**	**20,374 m^3**	**59,516 m^3**

[1] Tulloch, 2020a
[2] Tulloch, 2020b

Detailed survey data was not provided to Okane for review during the autumn 2020 construction season; Tulloch provided a final area covered for each lift. Approximate area calculations per month were estimated using Tulloch's daily placement maps, progress detailed in daily reports, assuming an average slope height of approximately 70 m for September and 75 m for October (Table 3.2) and normalized to the total areas provided by Tulloch. Using this information alongside the as-built material volumes provided by Tulloch, an estimate of average lift thicknesses was calculated (Table 3.3). The monthly data is presented only for the purpose of high-level qualitative comparison and should not be used as a quantitative indicator of actual average lift thickness. Of note, following improvements in survey control implemented at the end of September, the estimated average L1 – CCL layer thickness was reduced, resulting in less material over-build.

Table 3.2: Estimate of EMRS Area Covered

Lift	Material Surveyed Aug 27th to Sep 30th, 2020	Material Surveyed Oct 1st to Oct 31st, 2020	Total Material Surveyed[1]
Lift 1 – CCL	24,933 m^2	12,928 m^2	37,861 m^2
Lift 2 – CCL	23,774 m^2	13,230 m^2	37,004 m^2
Lift 3 – NCL	23,590 m^2	14,067 m^2	37,657 m^2
Lift 4 – NCL	18,715 m^2	20,130 m^2	38,845 m^2

[1] Tulloch, 2020d

Table 3.3: Estimate of Average Lift Thickness

Lift	Average Lift Thickness Aug 27th to Sep 30th, 2020	Average Lift Thickness Oct 1st to Oct 31st, 2020	Average Lift Thickness
Lift 1 – CCL	0.35 m	0.21 m	0.30 m
Lift 2 – CCL	0.25 m	0.25 m	0.25 m
Lift 3 – NCL	0.60 m	0.42 m	0.53 m
Lift 4 – NCL	0.54 m	0.41 m	0.47 m

3.3.2 Preparation of the Mine Rock Surface

In the first phases of construction, between stations 7+400 and 7+610, the waste rock was graded to a nominal 4H:1V slope, however the waste rock surface was not prepped or smoothed prior to placement. The resulting undulating surface proved difficult to evaluate layer thicknesses, and ultimately resulted in material overages during placement in this area. Additionally, the baseline survey data available for the mine rock surface included stockpiles of material, contributing to some uncertainty in lift thicknesses. This initial baseline survey was completed with a drone at 2.5 m x 2.5 m grid resolution. For the duration of the construction, between stations 7+610 and 1+115, a dozer was used to smooth the surface prior to placement activities, and a new baseline survey reference was prepared. Tulloch began to conventionally survey the mine rock before layer placement and surveyed the lift thicknesses at an approximate 8 m x 8 m grid. Learnings from the initial year of construction are discussed further in Section 5 with an intention of improving cover system construction efficiency.

3.3.3 Compacted Clay Layer (CCL)

OVB from the open pit was excavated using a large hydraulic open-faced shovel, and material loads were visually screened by CQC for material suitability prior to stockpiling. Material for both the CCL and NCL was progressively stockpiled on the plateau of the EMRS in preparation for cover system construction. In autumn 2020, material was stockpiled in areas of active construction prior to cover system placement.

The OVB material was used to construct two compacted 0.25 m lifts. For each lift, material from the stockpile location on the plateau was spread over the slope of the waste rock with a dozer to achieve a nominal loose lift thickness of ~0.3 m. Each lift was compacted with at least four passes of a sheepsfoot roller (minimum 1/3 pass overlap), using maximum vibratory action. The objective of the sheepsfoot roller was to knead the OVB and ensure that the required soil density was achieved and to create a cohesive, homogeneous layer. After

compacting each lift, CQC testing was performed to confirm the completed area met minimum compaction requirements for the material and surveyed to confirm appropriate lift thicknesses were achieved.

In cases where the Technical Specifications for compaction were not met, additional material characterization assessment was performed to ensure the material and associated compaction criteria were appropriately classified, and that material water content was in an acceptable range.

Technical specifications indicate the CCL should be covered within 48 hrs to prevent desiccation. Due to wet conditions experienced during the 2020 construction season, this was not always possible. Additional testing was completed on areas that were left exposed to confirm suitability before subsequent layer placement. If deemed unsuitable, the area was stripped and re-worked.

Lift thicknesses were field verified by Tulloch during construction. Improvements to the mine rock preparation and baseline survey increased accuracy of layer thickness measurements. For construction September 24th onward, a GPS-equipped dozer was used, further improving accuracy of layer placement. Tulloch prepared a heat map of layer thicknesses at the end of the field season: occurrences of deviation from the Technical Specifications will need to be investigated in 2021. Survey control is discussed further in Section 5.4.

A state of 'Frozen Conditions' was put in place on October 16th when temperatures began to drop below 0°C and snow was able to accumulate for short periods of time. Okane developed additional specifications for material placement of CCL and NCL in frozen conditions (Okane, 2020f). These specifications were developed to ensure proper material handling and construction methodologies are followed during cold temperatures, as ability to compact the CCL can be impeded due to potential freezing of the material. Compaction test pads were developed to determine if the frozen condition specifications could be met and allow for construction to continue, however, it was found that the colder air temperatures created conditions in which the compaction equipment performed poorly, and CCL placement was stopped for the season on October 26, 2020. These seasonal effects can be taken into consideration during subsequent years cover system placement to determine when construction of CCL is no longer possible due to winter conditions.

3.3.3.1 Compacted clay layer key-in trench

The CCL was extended and used to backfill the cover system key-in trench, forming a continuous liner. The CCL material was placed in two lifts, compacting as best as reasonably possible with appropriate equipment. In areas where bedrock outcrops occurred at the base of the slope the CCL was formed over and blended into the bedrock formation to the final

slope configuration. If a trench was terminated at the maximum depth of 3 m backfilling was conducted as described above. All vegetation was removed prior to the CCL and subsequent NCL being placed on any natural ground.

The key-in trench was completed from approximate stationing of 7+425 to 7+625. Swampy areas were encountered at the toe of the slope and presence of a toe drain exclusion area, as such the key-in trench was not completed from approximate stationing 7+625 to 7+775. This area is planned to be keyed-in at a later date. The key-in trench begins again at approximate stationing 7+775 to 7+848. Keying-in continued along the East side slope from 0+000 to approximate stationing 0+115 (refer to Figure 3.2). The completed edge of the cover system at stationing 0+115 was capped with material to a minimum width of approximately 1 m to protect the integrity of the CCL from freeze thaw cycling. Table 3.4 outlines the key-in trench details for the construction season.

Table 3.4: Key-in Trench Activities

Location	Location	Date	Comment
7+442	7+551	29-Aug-20	Excavated key trench
7+551	7+586	30-Aug-20	Excavated key trench
7+586	7+620	2-Sep-20	Lots of water coming into trench
7+816	0+008	5-Oct-20	NG excavated key trench from 7+816 - 0+008 and backfilled with L1 CCL.
0+008	0+120	6-Oct-20	NG excavated key trench from 0+008 - 0+120 and backfilled with L1 CCL

3.3.4 Non-compacted Layer (NCL)

OVB material for the NCL was sourced simultaneously with the material used for construction of the CCL. The OVB material, consisting of Brenna, WML, or a mix, was stockpiled on the plateau of the EMRS prior to NCL placement. After approval of a CCL section, material was spread in two lifts of approximately 0.5 m using a dozer, for a total minimum layer thickness of 1.0 m. Each layer was surveyed to confirm total minimum layer thicknesses had been achieved. An estimated 38,291 m^3 of NCL material was placed in 2020 (Tulloch, 2020b).

3.3.5 CCL and NCL Laboratory Testing Frequencies

A summary of the laboratory testing frequency completed in September and October 2020 is provided in Table 3.5. Material sampling and laboratory testing frequencies for the material

during construction are prescribed in the Technical Specifications (Okane, 2020d) and included for reference in Table 3.5. These are the minimum requirements, and additional testing is often required and/ or recommended to account for changes in material texture, and at the discretion of CQA. The actual testing frequencies achieved in September 2020 for Atterberg limits and hydrometer in the CCL, and gravimetric water content in the NCL were below the minimum requirements; all testing met or exceeded target frequencies in October 2020.

Table 3.5: Summary of laboratory testing conducted during September and October 2020

Laboratory Test	Prescribed Testing Frequency[1]	No. of Tests Completed (Sept 2020)*	No. of Tests Completed (Oct 2020)*	Actual Testing Frequency (Sept 2020)	Actual Testing Frequency (Oct 2020)
CCL Materials					
Gravimetric water content (ASTM D2216-19)	**1 per 1000 m³**	20	21	1.4 per 1000 m³	3.5 per 1000 m³
Atterberg Limits (ASTM D4318-00)	**1 per 1000 m³**	6	9	0.4 per 1000 m³	1.5 per 1000 m³
Particle Size Distribution – Hydrometer (ASTM D6913M-17, D7928-17)	**1 per 1000 m³**	9	14	0.6 per 1000 m³	2.3 per 1000 m³
Standard Proctor (ASTM D698-12e2)	**1 per 4000 m³**	10	7	2.7 per 4000 m³	4.6 per 4000 m³
NCL Materials					
Gravimetric water content (ASTM D2216-19)	**1 per 2000 m³**	11	18	0.9 per 2000 m³	2.6 per 2000 m³
Particle Size Distribution – Hydrometer (ASTM D6913M-17, D7928-17)	**1 per 3000 m³**	9	9	1.1 per 3000 m³	1.9 per 3000 m³

* Samples collected from stockpiles and during compaction trials are not included

[1] Okane, 2020d.

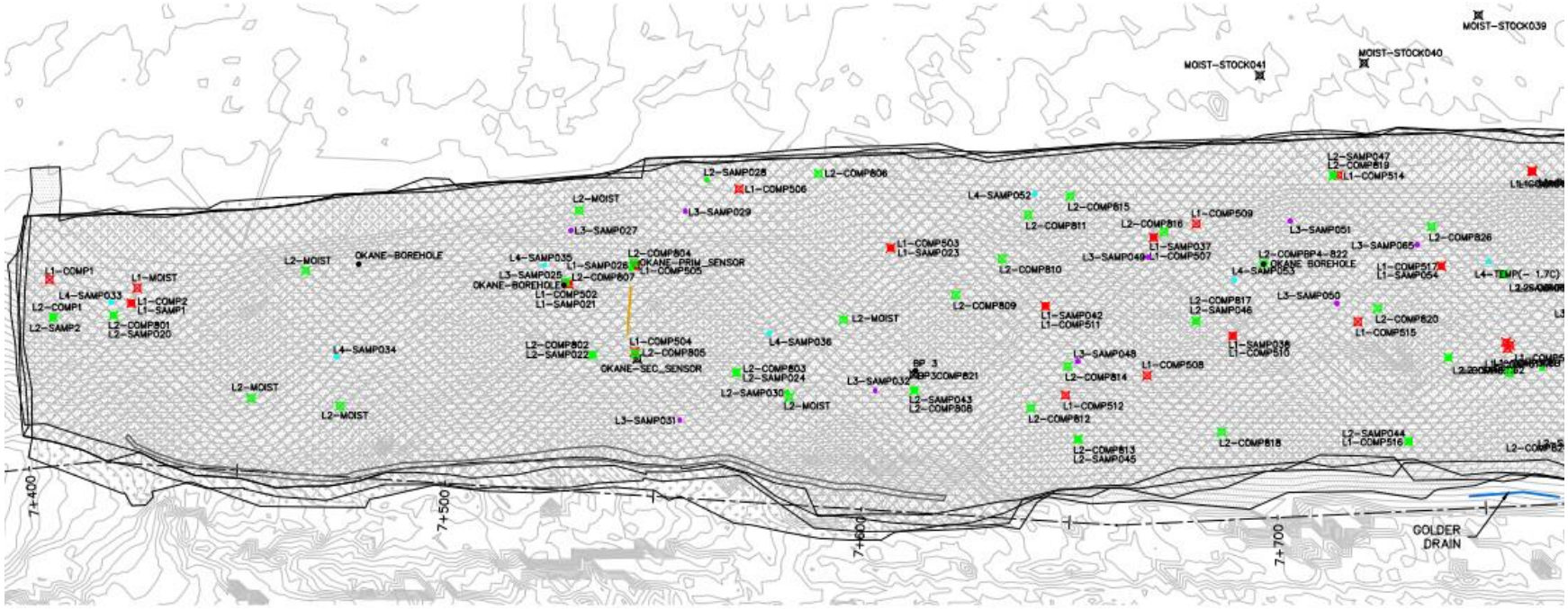

Figure 3.3: Material testing locations on the South Slope of the EMRS

Tulloch, 2020b

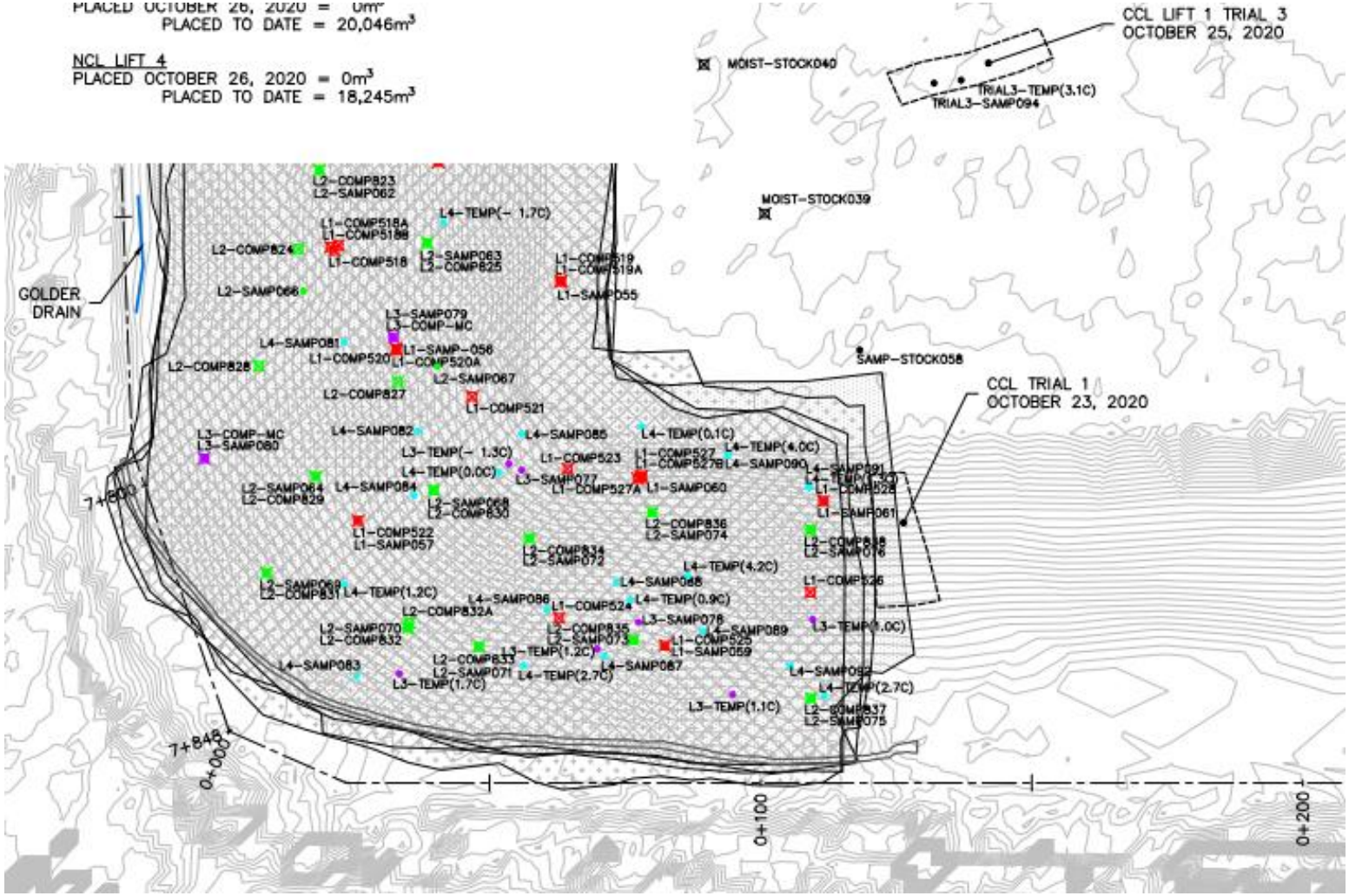

Figure 3.4: Material testing locations on the East Slope of the EMRS

Tulloch, 2020b

Okane collected one sample (RR-ERMS-BP3) for a standard proctor compaction test to be completed by a third-party laboratory (Machibroda Engineering in Saskatoon). The third-party compaction results fell in line with optimums for OVB samples previously collected at the EMRS. The field sample located closest to RR-ERMS-BP3 was EMRS-L1-043 which had similar Standard Proctor maximum dry density (SPMDD) but a difference of ~1% on the OWC compared to the third-party proctor results. This was completed as a check on the laboratory testing being completed by Allnorth and given the variance seen in the OWC, checks are recommended to continue throughout the course of construction to understand if there are any other variances that may affect the overall performance or approvals of the CCL.

3.3.6 CCL and NCL In-situ Testing Frequencies (Record Testing)

The purpose of record testing is to verify the CCL material is compacted within the specified range of OWC, yielding a high MDD result and ultimately an acceptably low as-constructed saturated hydraulic conductivity. Record testing of the CCL included *in situ* water content and density testing completed by Tulloch personnel and in-situ hydraulic conductivity testing completed by Okane. Laboratory analysis for water content was performed by Allnorth. Tests completed were performed in accordance with the principles and methods prescribed by the American Society for Testing and Materials (ASTM).

The frequency of record testing relative to the requirements outlined in the Technical Specifications is provided in Table 3.6.

Table 3.6: Record testing conducted during September and October 2020

Field Test	Prescribed Testing Frequency[1]	No. of Tests Completed (Sept 2020)	No. of Tests Completed (Oct 2020)	Actual Testing Frequency (Sept 2020)	Actual Testing Frequency (Oct 2020)
Water Content (ASTM D2216-19)	**1 per 10 nuclear gauge tests****	16	20	3.8 per 10 nuclear gauge tests	5.4 per 10 nuclear gauge tests
Nuclear Gauge Density and Water Content (ASTM D6938-07b)	**13 per ha per lift**	42	37	8.7 per ha per lift	14.1 per ha per lift
In Situ Hydraulic Conductivity (ASTM D6391-11)	**1 per 3 ha**	2	2*	2.5 per 3 ha	4.6 per 3 ha

[1] Okane, 2020d

* October borehole permeameter tests were completed on material placed in September

** Updated requirement to 1 per 1 nuclear gauge tests following September audit review

As shown in Table 3.6, nuclear densometer testing frequency was below specified frequency in September but increased to meet specification in October.

A comparison of water content measurements from the nuclear gauge with the laboratory measurements of water content taken in September found inconsistent results for the same material. Following review of water content data, Okane requested that the minimum frequency of laboratory water content tests associated with the nuclear densometer testing be increased from 1 per 10 nuclear gauge test to 1 per 1 nuclear gauge test for the remainder of the construction season (Okane, 2020e). Water content testing frequency was increased in October to approximately 5.4 per 10 nuclear gauge tests. On average, the nuclear densometer indicated water contents slightly dry of the laboratory results, with a wide standard deviation of about 4%. This increased the difficulty in selection of appropriate compaction curves in the field and validation of appropriate compaction. For final consideration of panel approval, the in-situ dry density and water content measurements were corrected using the laboratory-measured water contents. General observations and constructability of the material used in the CCL allowed for material to be accepted when moisture contents were outside of tolerance on the wet side of optimum. Material placed wet of optimum will aid in the long-term performance of the CCL.

Frequency of in-situ hydraulic conductivity testing exceeded the minimum requirements included in the Technical Specifications. In cases of material characterization uncertainty, borehole permeameter testing was performed to confirm that the constructed CCL met the hydraulic conductivity requirements of the closure cover system. Okane will continue to complete targeted borehole permeameter testing to compile a database relating water content and dry density to hydraulic conductivity. This will aid in the creation of a broader 'acceptable zone' for construction that may allow for approval of CCL panels over a wider range of water contents and densities.

Results of hydraulic conductivity testing are summarized in Table 3.7.

Table 3.7: Summary of hydraulic conductivity testing

Test ID	K_{fs}	Date	Location	Comment
EMRS-BP-001	4 x 10^{-8} cm/s	September 8	~7+475	
EMRS-BP-002	5 x 10^{-8} cm/s	September 21	~7+530	N:5408581.078, E:428747.924
EMRS-BP-003	6 x 10^{-8} cm/s	October 3	7+610	Additional test required
EMRS-BP-004	2 x 10^{-7} cm/s	October 5	7+699 o/s -61m	Additional test required

In general, permeameter test results show that the CCL is being constructed with a sufficiently low hydraulic conductivity to form a barrier layer (<1 x 10^{-7} cm/s). Upon review of field data collected for tests 3 and 4, it was determined that the tests were terminated before steady state was achieved. In addition, significant condensation was observed within the water reservoir for test 4, which resulted in an artificially large drop in water level and higher subsequent hydraulic conductivity. Thus, these tests should be repeated in the 2021 construction season.

3.3.7 Toe drain and instrumentation exclusion areas

A number of areas along the base of the EMRS have been identified as seepage areas to be left open during construction of the stockpile. The closure cover system was not keyed in around these areas.

Likewise, an exclusion area is required around Geotechnical instrumentation routing out of the toe of the EMRS. During the autumn 2020 construction season, one instrumentation station was encountered on the south slope of the EMRS, and the closure cover system was tied into bedrock in the vicinity.

3.3.8 Vegetative Cover and Surface Water Management System

Specific revegetation and surface water management strategies have not been identified for the progressive reclamation cover system and remain the responsibility of New Gold. It will be important to implement erosion control measures in the near future to prevent deterioration and loss of cover material and protect integrity of the closure cover system.

4 NON-CONFORMANCES AND REMEDIATION ACTIVITIES

A completed section of cover system (including both CCL and NCL layers) where each layer was constructed from the same stockpile of source material and built at the same time was referred to as a panel. Panels were typically around ~30 to 40m in width and spanned the length (toe to crest) of the EMRS slope. During the construction season Tulloch provided full-time on site CQC services while Okane personnel were on site 27 days, equating to 50% of days in which work was completed on the EMRS. Okane provided remote CQA services for the duration of the autumn 2020 construction season. Specific roles and responsibilities related to the closure cover system construction of the EMRS during the autumn 2020 season are detailed in Section 3.1.

The Technical Specifications were developed such that adherence to these minimum requirements would produce a dataset of appropriate frequency that could clearly demonstrate the closure cover system was constructed to meet objectives. Discussed herein is the process used to assess compliance of the CCL and NCL panel layer with the overarching closure cover system objectives when uncertainty of material type classification indicated the cover system did not meet the Technical Specifications. CQA evaluated the CCL and NCL based on broader assessment of data, material description, and *in situ* hydraulic conductivity testing to determine final approval of the panel. The CQA placed more emphasis on the test results of the CCL and the resulting *in situ* hydraulic conductivity as this is a critical design criterion that will affect the overall cover system performance.

4.1.1 Compaction and Water Content

The Technical Specifications prescribe a minimum percent compaction and water content range of 95% of the SPMDD and between 0% to 2% dry and 1% to 4% wet (percentage points) of the OWC respectively for the CCL.

Parameter	Maximum allowed % of failed tests	Allowable range for outliers	% of Tests Failed (Sept 2020)	% of Tests Failed (Oct 2020)
Water content	**3% (not concentrated in one area).**	**2% dry of allowable range or 3% wet of allowable range**	67% (30% failed tests outside of allowable range for outliers) (60% failed tests wet/ 40% dry)	76% (34% failed tests outside of allowable range for outliers) (76% failed tests wet/ 24% dry)
Dry Density	**3% (not concentrated in one area)**	**0.08 t/m^3 below required value**	26% (44% failed tests outside of	18% (35% failed tests outside of

	allowable range for outliers)	allowable range for outliers)

Note: Failed tests are subject to review and approval by the CQA

The above water contents were evaluated on a case-by-case basis and subject to review and approval by the CQA. Typically, when the material was wet of optimum and outside of the specification Okane was confident in the suitability of the material and it subsequent performance within the cover system to approve the panel. The main criteria that were reviewed included:

- Constructability, and
- If any concerns with slope stability were raised.

With moisture contents dry of optimum and outside of the specifications, borehole permeameter testing was utilized to understand the potential impact on *in-situ* hydraulic conductivity. Visual cues were also employed to review malleability to ensure the material would produce a cohesive, singular lift.

Where nuclear densometer testing indicated that a particular section had not met one or more construction specifications, further review of the *in situ* testing and material characteristics as well as targeted borehole permeameters were completed to ensure the overall performance and objectives of the CCL were still being met. Borehole permeameter tests were completed to gain an understanding of the field saturated hydraulic conductivity and its relationship with the water content, dry density, and clay content over the range of OVB materials encountered.

As discussed, the range of material OWC and MDD varied widely, and inconsistencies between water content measured in the field and the laboratory contributed to challenges in selection of appropriate compaction curves in the field. To support CQC in selection, Okane considered:

- Descriptions of material and compaction process provided by field personnel;
- Photos of material and CCL sections;
- Consideration of nuclear densometer test results in the context of the compaction curve database; and
- Material texture and plasticity data.

Okane developed a compaction curve sheet incorporating data from samples collected during construction of the EMRS CCL as well as applicable data compiled from OVB borrow

investigations (Figure 4.1). These compaction curves were used during assessment of field density measurements to evaluate percent compaction. As laboratory proctor tests take approximately 4 to 5 days to complete, the use of these compaction curves allowed construction to continue until a laboratory proctor could be completed. Results of laboratory compaction testing were then applied to the field densities to determine the actual compaction achieved *in situ*.

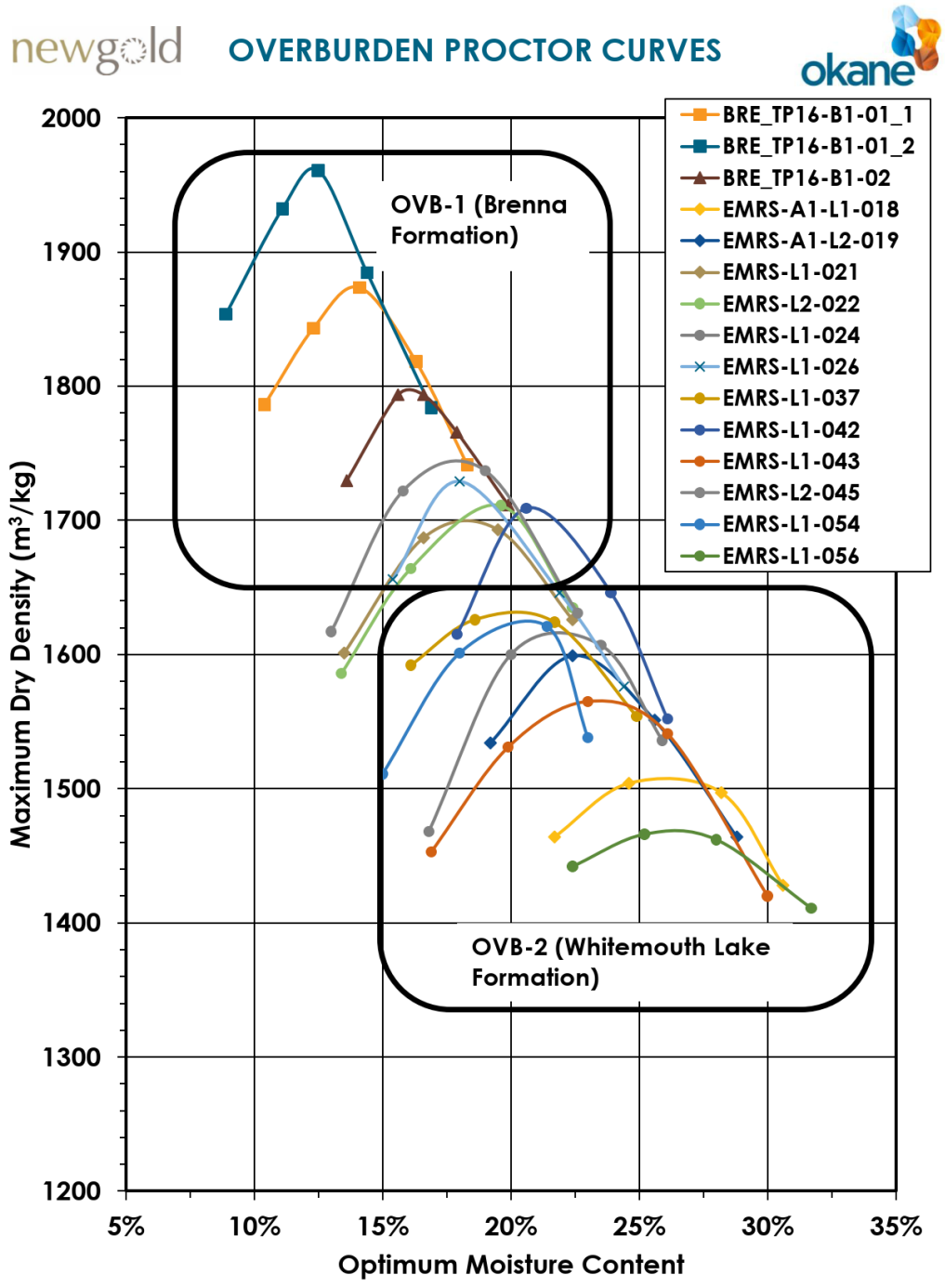

Figure 4.1: Overburden Compaction Curves

Pro-active testing of stockpiled OVB material was implemented during the latter half of the 2020 construction season to assist in pre-emptively determining characteristics of the OVB material to be used in the CCL. Water content and hydrometer testing were recommended to allow for some review of the OVB material prior to placement and guide the initial compaction curve selection and suitability. The purpose of testing the stockpiled material was to provide an indication of anticipated ranges in OWC and dry density. Hydrometer tests can be completed more rapidly than Proctor compaction tests, and clay content and plasticity provided Okane with a context with which to consider the nuclear densometer testing.

4.1.2 CCL and NCL Lift Thickness

Upon receipt of the end of season heat or material thickness maps produced by Tulloch Engineering (Tulloch, 2020c), several areas have been identified as being out of tolerance. Okane has reviewed the areas in question and further investigation is required for all CCL areas indicated as being 0.4 m or less – outlined in orange or red (Figure 4.2) and all NCL areas indicated to be 0.8 m or less – outlined in red, green, orange, or yellow (Figure 4.3). Upon completion of the investigation, it will be determined if re-work is required.

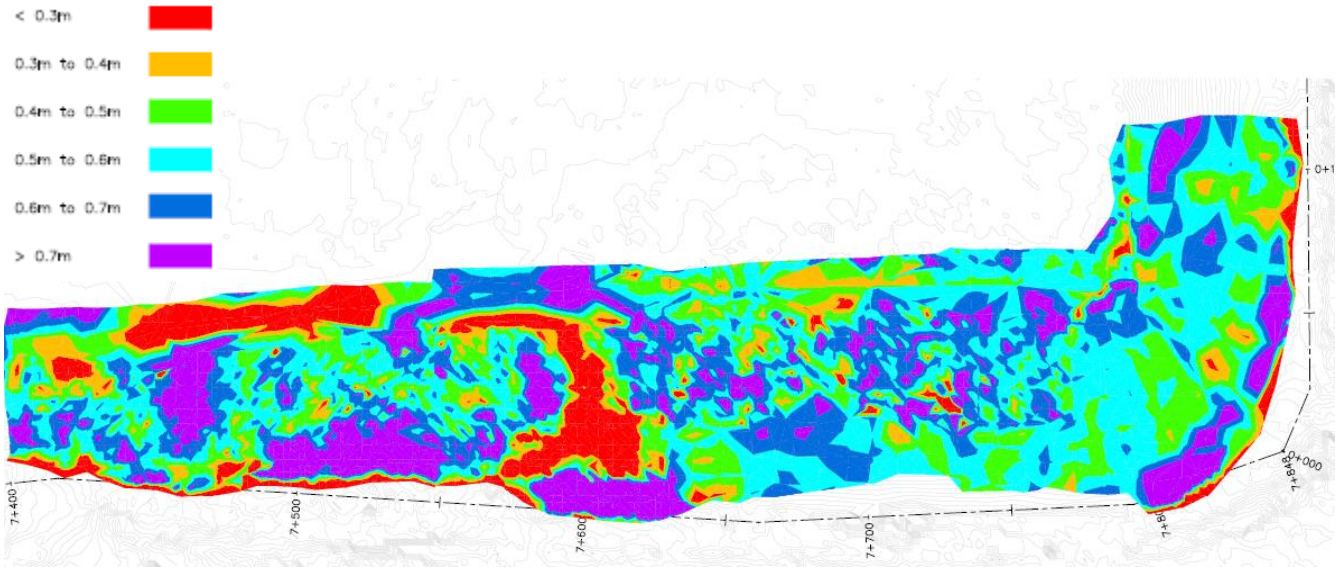

Figure 4.2: EMRS CCL thickness heat map

Tulloch, 2020c

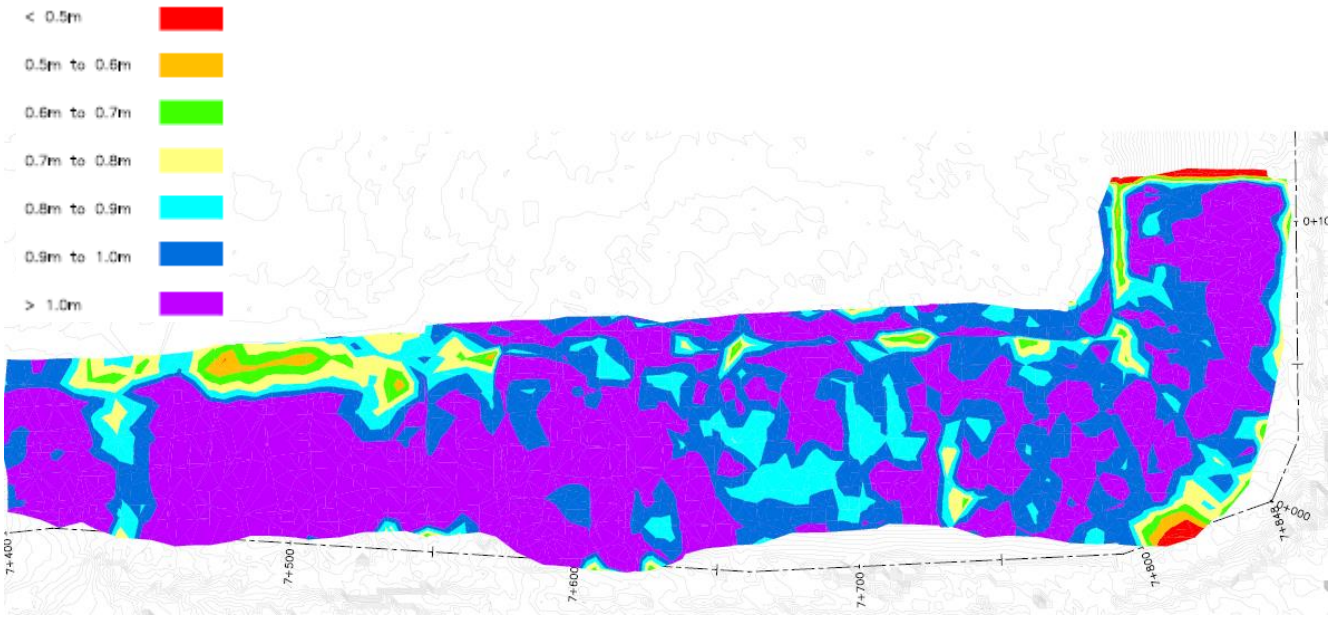

Figure 4.3: EMRS NCL thickness heat map

Tulloch, 2020c

5 LEARNINGS AND RECOMMENDATIONS

The 2020 construction season served as an opportunity to refine process, identify efficiencies, and recognize areas for improvement that could be carried forward into future construction seasons. In general, it was a successful construction season for the group with little to no delays due to technical issues. Okane wants the group to build on this success and believes that utilizing the following key learnings and recommendations will aid in that goal.

5.1 Construction Sequencing

At the start of the construction season the waste rock surface was graded to a general 4H:1V slope. Although this grading was completed, the surface finish was inconsistent and undulating. This lead to issues in determining cover system layer thicknesses and optimization of cover system materials. Later in the season the waste rock surface was regraded and smoothed to a consistent grade which vastly improved the placement. Items that would aid in reducing this identified issue are:

- Ensure surface preparation is completed and to the Technical Specifications with a smooth consistent grade.
- Complete an as-built survey to the quality needed to develop a 'design' surface for any GPS guided equipment and CQA surveys to use.

It was noted that the stockpiles placed along the crest of the reclamation area were well sorted with only a few stockpiles being unsuitable for use in the CCL. A continuation of this process would be beneficial for the overall efficiency of the construction season. If changes in the quality of the borrow material at the source is noted a communication plan should be developed and implemented to avoid issues that cause delays in reclamation activities.

Placement of CCL materials when the temperature was near freezing presented challenges. Test pads may be required as conditions change to develop proper construction techniques to ensure the cover system can be constructed as designed.

5.2 Compaction Curve Selection

The most challenging aspect of cover system construction is the uncertainty of the CCL material characteristics until placement due to the high variability of material within the pit boundary. This was a known challenge prior to the onset of construction. The high material variability has presented issues with achieving the compaction specification of 95% due to selecting appropriate and representative compaction curves.

The most important design criterion for the CCL is the as-built hydraulic conductivity. Aside from considerations related to geotechnical stability, the specifications included in the construction Handbook (Okane, 2020d) are provided to ensure the hydraulic conductivity target is achieved. Okane has moved towards utilizing laboratory test results, primarily the hydrometer, to indicate material suitability with respect to hydraulic conductivity. A continuation of targeted borehole permeameter testing will be required to complete a database relating water content and dry density to hydraulic conductivity. This will aid in the creation of a broader 'acceptable zone' for construction that may allow for approval of CCL panels over a wider range of water contents and densities.

5.3 Laboratory and Field Testing

Although there were improvements in the frequency of testing that was completed during the construction season, the general recommendation for CQC is that the testing frequencies stipulated in the construction handbook are described as the minimums allowable. This means that if there is any uncertainty in the quality of the cover material or if tests are bordering failure more testing should be completed. Additional samples and tests may also be requested at CQA's discretion. These additional tests can provide the project group with a better understanding of the quality and consistency of the cover system that will inform on long term cover system performance.

Proactive testing of stockpiles is recommended as a routine activity for the upcoming construction season. The tests completed can vary based on visual inspection, but the data collected from these tests, combined with visual inspections will aid in identifying subsequent proctor values to be used for compaction testing.

With respect to in-situ hydraulic conductivity testing the following improvements will be implemented on all subsequent tests.

- Tests should remain in place for approximately four days. This test period is typical of material with low K_{fs}; the clay OVB used in the CCL requires at least several days to reach steady state conditions. Results will be analyzed prior to terminating the tests to ensure steady state has been achieved (<5% difference in K_{fs} measurements between readings);

- To reduce condensation within the water reservoir, solar shields will be employed in warmer weather; and

- Where possible, readings will be collected at approximately the same time each morning to account for changes in condensation through the day and to allow a suitable long period between readings to reduce noise in the data set.

5.4 Survey Control

As noted in Section 3 and 5.1, there are areas of the CCL and NCL that are outside of layer thickness tolerance. Okane has identified the following items that would aid in the reduction of non-compliant areas and subsequent re-work:

- Preparation and survey of the waste rock surface to the level of detail required for thickness comparisons on a highly variable surface (noted above);
- Development of subsequent design surfaces for each material lift to act as a reference guide;
- Use of GPS guided equipment; and
- Weekly generation of heat/thickness maps to identify suspect areas for review.

5.5 Documentation & Data Transfer

As the season progressed the daily documentation and transfer of data became smoother and more efficient. The following areas were noted throughout the season as having great importance to the CQA and to the success of the reclamation activities.

5.5.1 Daily Reports

Daily report templates for CQC were developed to document all testing and observations during construction. The reports were completed by CQC and submitted to CQA for review on a daily basis. As CQA was not on site full-time, it was critical that these reports were comprehensive. Over the course of the construction season, the consistency of reporting improved. Highlighted below are the key pieces of information and observations to be included in the reports.

1. Every section should be filled out on daily reports. Key information regarding the material used for the CCL should be included. This information and details of the CCL material should include:
    - Initial consistency (moisture, structure, texture, etc.);
    - Placement observations (e.g. is the material stiff and compacts well, does equipment leave ruts and ridges);
    - Final surface conditions prior to placement of the non-compacted layer (NCL); and

- The submission of material samples and/or receipt laboratory results from Allnorth.

2. Consistency in material description of CCL material is important to allow for any change in material to be well documented. Detailed notes should be included to indicate if the material has remained consistent or changes observed along with material descriptions.

3. The panel approval section indicates if a section of the CCL meets the criteria outlined in the Technical Specifications and is deemed acceptable. Part of the CQC work involves ensuring the appropriate proctor compaction curve is applied for the CCL material to determine that the density has met the Technical Specifications. CQC is responsible for selecting an appropriate proctor for the CCL material using the supplied guides, technical experience, and support from CQA, as needed. The proctor applied to determine field compaction should be documented within the Daily Report with comments as to why the material proctor was selected.

4. CQC should provide context in the Daily Reports around any issues observed between the in-situ density readings and the laboratory proctor results when CQA is not on-site. This information could include, but is not limited to, issues with the waste rock surface (large void spaces), changes in material structure (soft to very soft), water contents, and material variability within a lift.

5.5.2 Density Reports

Density reports were completed by CQC and provided to CQA to capture all relevant information and data associated with nuclear densometer testing (standard counts, material wet and dry density, water content, location, etc.). In general, all relevant information was included in these reports.

A key aspect to highlight is that laboratory results (water contents and proctor curves) should be used to correct the field density test results. Upon receipt of laboratory results, density checks should be completed by CQC in the Density Reports to ensure the verified CCL panels achieve specifications and resubmitted to CQA as a revision.

5.5.3 Survey Maps

Survey data includes all lift surveys, final sign off surveys, density, and sample location points. A base map should be made that all parties can use for referencing locations with respect to the daily reports. This data will also aid in the review of thicknesses during construction activities and minimize timeframes for issue identification.

5.6 Communication

At the beginning of the construction season Okane recommends that a kick-off meeting be held where the roles and responsibilities for all parties involved are discussed and outlined. This will ensure that there are clear lines of communication between the groups and will help issues to be resolved efficiently.

A Request for Information (RFI) form should be developed to formalize information requests in which the larger group will be included. This will help to document design changes and inform the larger group on new requirements along with simplifying the daily communication between operations, CQC, and CQA in which not all personnel is needed.

6 REFERENCES

Okane Consultants Inc. (Okane). 2020a. 1003-019-003 EMRS Cover System Material Characterization Rev0. Memorandum prepared for New Gold Inc. June 2020.

Okane Consultants Inc. (Okane). 2020b. *1003-019-007 Veneer Stability Analysis.* Memorandum prepared for New Gold Inc. July 2020.

Okane Consultants Inc. (Okane). 2020c. *1003-019-008 EMRS Compaction Field Testing Summary Report*. Report prepared for New Gold Inc. August 2020.

Okane Consultants Inc. (Okane). 2020d. EMRS Cover Construction Operational Handbook - Rev 0. Okane Report No. 1003-019-003. Prepared for New Gold Inc. September 17, 2020.

Okane Consultants Inc. (Okane). 2020e. New Gold EMRS Cover System – September Quality Assurance Audit. Okane Report No. 1003-019-001 Rev 1. Report prepared for New Gold Inc. October 8, 2020.

Okane Consultants Inc. (Okane). 2020f. EMRS Frozen Conditions Material Placement Specifications. Okane Report No. 1003-023-002. Memorandum prepared for New Gold Inc. October 21, 2020.

Okane Consultants Inc. (Okane). 2020g. New Gold EMRS Cover System – October Quality Assurance Audit. Okane Report No. 1003-019-002 Rev 1. Report prepared for New Gold Inc. November 12, 2020.

Tulloch Engineering (Tulloch). 2020a. EMRS Reclamation – Daily Progress (September 30, 2020). Drawings prepared for New Gold Inc. October 1, 2020.

Tulloch Engineering (Tulloch). 2020b. EMRS Reclamation – Daily Progress (October 26, 2020). Drawings prepared for New Gold Inc. October 27, 2020.

Tulloch Engineering (Tulloch). 2020c. EMRS Reclamation – Heat Maps. Drawings prepared for New Gold Inc. December 3, 2020.

Tulloch Engineering (Tulloch). 2020d. EMRS Reclamation Clay Lift Areas. Drawings prepared for New Gold Inc. December 18, 2020.

Appendix A

EMRS Operational Handbook

EMRS Cover Construction Operational Handbook

September 17, 2020

newgold okane

Integrated Mine Waste Management
and Closure Services
Specialists in Geochemistry and
Unsaturated Zone Hydrology

EMRS Cover Construction Operational Handbook

1003/019-009

September 17, 2020

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A	August 14, 2020	M.McKeown	H.Cooper	J.Lutz
B	August 19, 2020	M.McKeown	H.Cooper	J.Lutz
0	September 17, 2020	M. McKeown	H. Cooper	J. Lutz

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TABLE OF REVISIONS

Revision	Date Submitted	Reason
Rev A – DRAFT	August 14, 2020	Original submission
Rev B – DRAFT	August 19, 2020	Revisions made based on review comments and clarifications requested by New Gold.
Rev 0	September 17, 2020	Revisions based on feedback from Tulloch for clarification. Revisions to sections 5.2.1, 5.2.3, and 6.0.

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1 INTRODUCTION

1.1 Project Objectives and Scope

This purpose of this operational handbook is to serve as a practical reference guide for the construction of the cover system on the lower benches of the East Mine Rock Stockpile (EMRS) slopes. It is specifically designed for the NE wick drain 2/3/4 and SE shear key bench slope areas identified for progressive

1.2 Cover Design Overview

The EMRS has been designed to store and encapsulate potentially acid generating (PAG) mine rock. An enhanced cover system consisting of a barrier layer overlain by a growth medium is designed to limit net percolation (NP) and control oxygen (O_2) ingress to the PAG rock. The enhanced cover system uses both moisture store-and-release and enhanced runoff principles to achieve reduced NP. The barrier layer within the cover system controls O_2 ingress by effectively eliminating advective gas transport. However, a degree of saturation of approximately 85% within the layer must be maintained for the advective gas transport barrier to be effective. The enhanced cover system will be placed over the side slopes, benches and the upper plateau areas of the stockpile, progressively during operations, and at closure. Progressive rehabilitation of the stockpile will begin in autumn 2020; the cover system will be constructed on about 14ha of the lower bench slopes in the NE and SE, following rock placement and surface preparation.

The two layer cover system will consist of:

- A 0.5 m compacted overburden layer placed directly on the landform prepared to the required grade;
- A 1 m non-compacted overburden layer placed directly on the underlying compacted layer;
- A vegetation cover that meets landform land use expectations; and
- A surface water management system that allows for the landform to meet physical stability expectations.

The 1 m layer of non-compacted overburden material is the main store-and-release component of the cover system (growth medium), while the 0.5 m layer of compacted overburden material limits net percolation and oxygen ingress into the underlying mine rock (barrier layer). The cover system provides source control in two ways: the limitation of oxygen

into the mine rock, thereby decreasing the oxidation of sulphide materials within; and reduction of water infiltrating through the stockpile and reporting to the groundwater table.

2 SCOPE

This Technical Specification applies to Work constructed by contractors, sub-contractors or hired labour that have entered into a contractual agreement with the Owner.

This Technical Specification shall be used in conjunction with the stated requirements of any Local and Federal Governments or other authority in whose area the Work is to be constructed. This also includes Environmental, Health and Safety legislation.

This Technical Specification allows access for inspection, surveying, sampling, or testing through out the course of the Work by the Owner, CQC, or CQA.

This Technical Specification was developed to direct quality assurance and quality control activities during construction of the cover system during the planned autumn 2020 progressive reclamation activities on the lower bench slopes of the EMRS in the NE Wick Drain 2/3/4 and SE Shear Key areas, and is only intended for this use. This Technical Specification was developed using available information for the open-pit materials expected for use in the cover construction of this area. It is anticipated that this Technical Specification will be reviewed and adapted as necessary to reflect changing material borrow types or varying conditions on subsequent sections of progressive reclamation on the EMRS.

3 STANDARDS

The following information outlines all relevant standards and/or published guides to be followed where specified. Variations to these standards and/or guides shall be approved prior to implementation by the Construction Quality Assurance personnel.

Table 3.1: Laboratory Testing Standards

Laboratory Test	ASTM Standard
Water Content	D2216-19
Atterberg Limits	D4318-00
Particle Size Distribution (Soils)	D6913M-17
Hydrometer	D7928-17
Standard Proctor	D698-12e2
Hydraulic Conductivity	D5856-15 or D5084-16a

Table 3.2: Field Testing Standards

Field Test	ASTM Standard
Compaction by Nuclear Densometer	D6938-07b
Hydraulic Conductivity	D6391-11

4 DEFINITIONS / ABBREVIATIONS

The following table summarizes and describes all abbreviations and terms used throughout this document.

Table 4.1: Definitions/Abbreviations

Term	Abbreviation	Definition
Owner	-	Defined as New Gold or its authorized representative.
Site	-	Defined as the land and other places on, under, in or through which the Work is to be carried out.
Work	-	Defined as the entire completed construction or the various separately identifiable parts thereof, as defined in the Technical Specifications, or as required by the Owner or CQA.
Construction Quality Control	CQC	Defined as the personnel responsible for monitoring and controlling the quality of the Work. Personnel are required to ensure measures are taken to comply with requirements for materials and procedures as stated in the specification for the Work.
Construction Quality Assurance	CQA	Defined as the personnel responsible for assuring the Work was constructed as specified. Personnel are required to ensure the Work is in compliance with the specifications developed for the Work.
Capital Projects	-	Defined as the party who will execute the Work for the Owner.
Technical Specifications	-	Defined as this document in its entirety or other addenda prepared for the Work.
Earthworks	-	All operations necessary to excavate earth and rock from the proposed site irrespective of type and sub-surface conditions, to borrow or import embankment material for use as specified, to construct embankments including placing selected material as specified, to backfill around in situ structures, and to remove and replace unsuitable material below the subgrade.
As-built	-	A field survey, construction drawing, 3D model, or other descriptive representation of the completed earthworks.
Compacted Clay Layer	CCL	The barrier or low permeability layer at the interface of the leveling layer or waste rock surface.
Non-Compacted Layer	NCL	The covering layer for insulation and limiting freezing of the Compacted Clay Layer.
Percent standard compaction		Relative Dry Density of in situ material expressed as a percentage of the maximum dry density of the material using Standard Compaction procedures as specified by ASTM standards.

The role of the CQA is to ensure the Work is completed as per the design specifications. CQA personnel may not be on site at all times, but must have access to all data, testing results, and documentation completed by the CQC. Addition sampling and testing can be requested by

the CQA at any time during construction (before or after approval by CQC). The Owner shall give the CQA full cooperation in sample taking or conducting tests at their discretion and shall render such assistance as is necessary to enable sampling and testing to be carried out expeditiously. The Owner shall allow sufficient time for the CQA to carry out the required test work in order to determine the acceptability of the placed materials.

CQA are expected and allowed to complete inspections, audits, and review of all Work approved by the CQC. It is at the discretion of the CQA to provide final approval for the Work. CQA inspections and audits will include both completed Work approved by the CQC and current Work being completed.

5 GUIDELINES AND SPECIFICATIONS

5.1 Surface Preparation

The objective of EMRS Surface Preparation is to prepare a relatively dense and uniform foundation for the cover system, which has minimal open voids as well as no large protruding rocks. The finished bare waste rock surface of the EMRS shall be prepared to the satisfaction of the CQC prior to placing cover material for the loose lift for CCL. Once the EMRS finished surface is approved by the CQC, the Owner shall survey the surface as a record of construction to confirm the landform conforms to EMRS design specifications, and for determination of proper cover layer thicknesses in all areas.

5.2 Compacted Clay Layer

The CCL will serve as a barrier layer to limit net percolation of surface water through the cover system and into the underlying waste rock. It also serves to limit oxygen ingress into the waste rock landform.

5.2.1 Material

RRM plans to use materials excavated from within the pit boundary as fill material for construction of the CCL. The identified clay overburden within the pit boundary area consists of both the Brenna formation and the Whitemouth Lake (WML) formation. Gradation requirements for materials incorporated in the CCL are provided in Table 5.1.

Table 5.1: CCL Gradation Specification

Particle Size (mm)	Coarser Limit (% Passing)	Finer Limit (% Passing)
250	100	100
175	100	95
25	100	95
2	100	70
0.425	100	70
0.063	100	40
0.002	90	10

In addition to the textural requirements outlined above, the material should have a minimum plasticity index of 10. Sampling and testing should be completed as per Section 6 to document compliance with textural and plasticity specifications. A material selection guide has been provided for assessment of plasticity in the field (Attachment A).

CCL material shall be free of deleterious material such as organics and large rocks (> 250 mm). Any CCL material delivered to the construction zone that is not of suitable quality for CCL construction must be removed, and replaced with additional CCL material.

The cover system shall not contain any waste rock material. Cover system material that may have been mixed with the underlying waste rock due to scraping and movement of material shall not be used within the cover system.

5.2.2 Material Identification and Handling

Selecting materials most suitable for use in the CCL will require close coordination between the Pit Supervisor and Capital Projects. As materials for the CCL will be sourced from the pit boundary, material control will begin with excavation. The volume of material required for construction of the CCL represents just over one third of the total material volume requirement for cover system construction. Material control requirements for the CCL are more stringent than those for the NCL. As such, the majority of the materials reserved for cover system construction can be excluded from the CCL as necessary and utilized in the NCL.

The ideal time to exclude materials from the CCL is prior to placement. The most efficient means of reducing water content will likely involve end-dumping materials selected for use in the CCL in situ (discussed below), which requires that material selection take place prior to placement. To the extent possible, materials should be 'preapproved' by the truck load to minimize the requirement for handling after placement. Truck loads should be prioritized for CCL construction based on the following criteria:

- Material properties meet specifications as outlined in Section 5.1
- Materials should be free of deleterious materials and organic matter such as trees or topsoil. Stripping materials prior to excavation would ensure these materials are not included in the CCL, promote drying of overburden materials prior to placement, and provide a reserve of organic materials for reclamation activities.
- Materials should be free of oversize (> 250 mm) materials (to the extent possible prior to placement).
- Materials should be relatively homogeneous. Even if the contents of a truck load meet the above criteria, dumping mixed materials of varying textures and compaction characteristics will complicate the construction process (discussed in Section 5.2.3).

Materials which are deemed unsuitable for use in the CCL can be used in the NCL. Materials to be used in construction of the NCL should be stockpiled in locations convenient for timely application of the NCL following CCL construction (Section 5.3).

Material tests to document conformity of the materials to the above specifications are provided in Section 6. A field guide to evaluate plasticity is provided in Attachment A. Attachment A can be used to guide decision making in the field with regard to a material's plasticity before laboratory test results are available.

5.2.3 Placement and Compaction

The current specification is to compact the CCL in two lifts of nominally 0.25 m. Based on compaction efforts to date, the first lift should be placed in loose lift approximately 0.4 m in thickness and should not exceed 0.5 m. After compaction, the first lift shall have a minimum thickness of 0.25 m (measured perpendicular to the ground surface) -0.1 m / +0.2 m tolerance. The second lift may be placed at a reduced lift thickness depending on the surveyed thickness of the first lift. The CCL shall have a minimum total thickness of 0.50 m across the EMRS with a -0.1 m / +0.2 m tolerance.

The minimum dry density and moisture content range for compaction of the CCL is 95% of the standard proctor maximum dry density and between 1% and 4% wet of the optimum moisture content, respectively, as determined by ASTM D698[1].

Proctor compaction curves determined based on materials sampled from borrow sources (AMEC, 2017) and in situ from the CCL are presented in Figure 5.1. Proctor curves are roughly separated into Brenna and WML formation material. For example, the EMRS- L1-021 and EMRS-L1-026 materials fall within the assumed Brenna formation with a Standard Proctor maximum dry densities of 1621 and 1729 m^3/kg with corresponding optimum moisture content of about 22 and 18%, respectively. The measured in situ water content were 24 and 21% which are within the targeted range (1 to 4% wet of optimum).

Soils that are too wet must be allowed to dry prior to compaction. To promote drying, the material may be placed in a loose lift prior to compaction. To reduce handling requirements during placement, the materials may be end dumped directly over the slope. Drying may take place over one or more days depending on the weather. When the material can support heavy equipment, a bulldozer can spread it to achieve the targeted loose lift thickness. CQC should check water content periodically to determine when it is within the acceptable range. A disk tiller or rototiller may also be used to ensure uniform drying of the material as necessary.

[1] ASTM D698 Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft^3 (600 kN-m/m^3)).

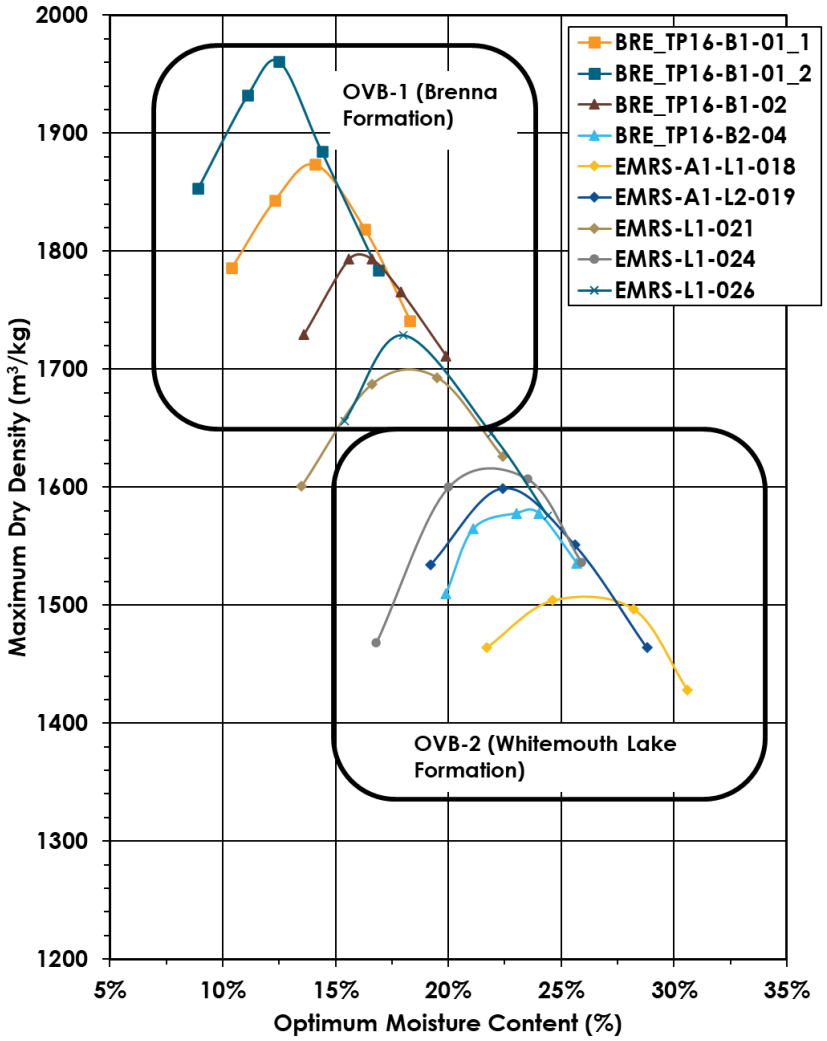


Figure 5.1: Compaction curves from field testing program

Samples EMRS-A1-L1-018, EMRS-A1-L2-019, and EMRS-L1-021 were also in situ CCL material. This material comprised a higher proportion of clay sized particles, a higher plasticity index, and compaction characteristics more characteristic of WML. The difference in optimum water contents and maximum dry density evident. Figure 5.1 highlights the importance of material characterization during placement due to the variability in material properties. Mixing materials in various proportions could produce a wide range in optimum water contents and make it very difficult to select the appropriate curve in the field. The inability to select the appropriate compaction curve may result in an inability to demonstrate that the CCL was constructed as designed.

An understanding of which curve is applicable is required to ensure proper compaction of the CCL. It is expected that an appropriate curve will be selected primarily using a subjective assessment. Laboratory proctor compaction tests should proceed throughout construction at a rate of one test per 4000 m^3 of material placed (Section 6). Control testing frequencies (in

Table 6.2) can be revised as construction of the CCL progresses and the properties of the material used to construct the CCL is better understood. If materials are shown to be relatively homogeneous, CQC personnel can estimate optimum water content for the material based on previous test results and an evaluation of the material at any given location. A material can be considered homogeneous for this purpose when a set of no less than five laboratory proctor compaction test results are available and optimum water content does not vary by more than 3 percentage points and maximum dry density does not vary by more than 0.1 t/m^3.

The assumed compaction curve should be documented by CQC personnel as materials are placed. If CQC personnel are uncertain as to which compaction curve should be applied, a new standard proctor test should be requested. Standard laboratory proctor compaction tests can require a minimum of four days to complete. To prevent potential downtime associated with testing, the following supplemental techniques may be employed to facilitate selection of the appropriate compaction curve.

One-point proctor compaction tests: Results of single compaction testing can be plotted with previously determined compaction curves to estimate the optimum water content and maximum dry density. It is anticipated that samples for one point compaction tests could be collected and tested while the materials are being allowed to dry, thus minimizing downtime. The reduced time associated with this procedure would allow for results to be available by the time the material is at a suitable water content for compaction. The purpose of these tests would be to assist with subjective estimates and to fill in data gaps when results of complete compaction tests are not yet available. It is likely that one-point compaction testing will be used more extensively in the early stages of construction.

Three-point Proctor Compaction Tests: This technique is more reliable than the one-point test but takes longer to complete, using a minimum of three compaction points to define a curve per ASTM D5080.

Test Pads: If a new material type is to be introduced for CCL construction, then CQC will request a test pad be constructed to confirm construction methodology and demonstrate an acceptable hydraulic conductivity.

Based on the results of preliminary compaction efforts, the methodology for compaction shall consist of at least four passes with a padfoot roller (following track compaction associated with placement of the loose lift). The roller shall be appropriately sized (10 tonne roller minimum) for the Work and be satisfactory to CQC. The maximum vibration frequency on the rollers shall be used for each pass. Adjacent roller passes shall be overlapped by a minimum of one third. Compaction of the CCL will not be allowed during adverse conditions including,

but not limited to, rainfall or freezing temperatures. After compaction, the Owner shall survey its surface as a record of construction and for determining the thickness of the CCL in all areas.

Panels of CCL may be approved in the field by CQC personnel when CQA personnel are not present at site, given the panel meets the specifications described herein. Approval of any given panel should be based on the following considerations

- Inspection of materials during placement to confirm suitability;
- Monitoring of compaction treatment;
- Review of survey data to confirm lift thickness are in compliance with specifications; and
- Review of water content and density test results to confirm an acceptable level of compaction was achieved within the specified range of water content.

Approval of a CCL panel should be documented by CQC in the daily summary report (Section 7). Summary notes and relevant data should be made available to CQA personnel on a daily basis. If CQA determines that a panel does not conform to specifications the Owner may be required to rework and recompact the area.

Approved areas of the CCL shall not be left exposed for longer than 48 hours to prevent desiccation of the CCL (applicable to both lifts of the CCL). It is expected that desiccation occurring during this period would be limited to a thin exterior crust; this specification may be adjusted based on weather conditions. Tarps may be used to cover completed areas of the CCL in the event the subsequent layer cannot be placed in a timely manner. If desiccation cracks develop in an approved, completed area of the CCL, the Owner shall rework and recompact the material as necessary.

If CCL remains uncovered for longer than 48 hours the CCL should be examined for depth of drying due to the prolonged exposure; if the depth of drying is greater than the minimum thickness of the layer than the Owner shall rework and recompact the material as necessary.

Findings from the cover stability analysis (Okane, 2020b) indicated generally that if slip surfaces are introduced, the factor of safety (FoS) of the cover will be reduced. Sensitivity analysis indicated that if high moisture content material is used, creating a R_U (ratio of pore-water pressure to overburden stress) of 0.4 or higher, the cover will not meet the minimum required FoS. To ensure an adequate FoS of the cover system, the Owner shall adhere to water content specifications set out in this document, and ensure that in the event of rain over an approved, completed area of the CCL, the area is stripped and reworked.

5.2.4 Compacted Clay Layer Key-in Trench

The CCL shall be keyed-in along the toe of the slope of the EMRS to limit the potential for oxygen ingress to occur at the base of the EMRS. The key-in trench shall be excavated until **one** of the following criteria has been met:

- A suitable clay formation has been encountered (similar material properties as used for the CCL),
- The trench has hit refusal due to bedrock, or
- A maximum depth of 3 m has been achieved.

The CCL shall be extended and used to backfill the trench forming a continuous liner. The CCL material should be placed in two lifts, compacting as best as reasonably possible with appropriate equipment. In areas where bedrock outcrops occur at the base of the slope the CCL shall be formed over and blended into the bedrock formation to the final slope configuration. If a trench is terminated at the maximum depth of 3 m backfilling shall be conducted as described above. All vegetation shall be removed prior to the CCL and subsequent NCL being placed on any natural ground.

5.3 Non-Compacted Layer (NCL)

Fill material for the NCL shall consist of materials sourced from within the pit boundary. The NCL shall possess a minimum thickness of 1.0 m in all areas of the covered EMRS (measured perpendicular to the ground surface). The NCL shall be constructed in a minimum of two lifts to allow for track compaction of the materials.

Placement of the Overburden material shall be done in a manner that does not damage the CCL. Areas compacted too densely due to repeated traffic from construction equipment shall be loosened by ripping or scarifying as directed and approved by the CQC (for revegetation / rooting purposes).

To ensure adequate FoS of the cover, the overlying material should not be greater than two percentage points wet of in situ water content (Okane, 2020b).

6 CQC PROCEDURES

CQC personnel will take samples of the materials used for and in the Work, and perform various tests on the samples to ascertain that the materials being placed or already placed in the Work meet the specified requirements. Results of CQC testing will be subject to review by CQA personnel. CQA's assessment of test results will be final and conclusive in determining compliance with the Technical Specifications.

Material control tests will be carried out on materials in excavations and stockpiles prior to compaction to determine the adequacy of the materials for use in the Work (Table 6.1 and Table 6.2). Record tests will be conducted on the materials in the completed portions of the Work following placement and compaction to confirm the adequacy of the Work, and to provide an as-built record of the workmanship achieved (Table 6.3). Record tests may also be used to modify the construction procedures if necessary.

The Owner shall give CQC personnel full cooperation in sample taking or conducting tests and shall render such assistance as is necessary to enable sampling and testing to be carried out expeditiously. The Owner shall allow sufficient time for the CQC to carry out the required test work in order to determine the acceptability of the placed materials.

Tests carried out by the CQC personnel will be performed in accordance with the principles and methods prescribed by the American Society for Testing and Materials (ASTM) and other such recognized authorities. These methods shall be modified to the extent necessary to consider local conditions and the particle sizes of the materials specified. The following schedule of quality control testing is anticipated. However, the CQA may modify the testing and rates of testing during the Work (for example CQA may reduce testing frequencies as the Work progresses).

Table 6.1: Control Testing Frequency in Pit Boundary

Material	Field Index Test (Materials Selection Guide)	Observations for Deleterious Materials
CCL	Continuous	Continuous

Table 6.2: Control Testing Frequency for Fill Materials after Placement

Material	Construction Oversight	Water Content (ASTM D2216-19)	Particle Size / Hydrometer (ASTM D6913M-17, D7928-17)	Plasticity (ASTM D4318-00)	Proctor Compaction Testing (ASTM D698-12e2)
CCL	Continuous	1 per 1000 m^3	1 per 1000 m^3	1 per 1000 m^3	1 per 4000 m^3
NCL	Continuous	1 per 2000 m^3	1 per 3000 m^3		

Table 6.3: Record Testing Frequency for As-built CCL (after compaction)

Material	Water content (ASTM D2216-19)	Nuclear Gauge Density and Water Content (ASTM D6938-07b)	In Situ Hydraulic Conductivity (ASTM D6391-11)
CCL	1 per 10 nuclear gauge test sites*	13/ha/lift	1 per 3 ha

* NOTE: Water contents are done as a check for the nuclear gauge; frequency may change based on accuracy of the nuclear gauge.

Okane suggests a grid be established to predetermine locations for the tests outlined in Table 6.3. Sampling grids will be staggered for successive lifts to ensure overlap of sampling locations does not occur. The maximum depth on the nuclear densometer should be used during density tests after the second lift of the CCL has been placed. Water contents sampled at nuclear densometer locations should be taken at the location of the nuclear densometer test site to allow for assessment of the nuclear densometer's accuracy. Hydraulic conductivity testing of the CCL will be completed by Okane personnel.

6.1 Allowable Variations and Corrective Actions

The recommended allowance for failed as-built tests are presented in Table 6.4. A number of as-built tests can be expected to fail, due either to variability of the soil, the compaction process, or measurement errors. If it is suspected that a test result is erroneous, additional tests shall be made in its immediate vicinity. If the additional tests produce satisfactory results, the suspected test can be disregarded.

Table 6.4: Recommended Percentage of failed as-built tests for the CCL

Parameter	Maximum allowed percentage of failed tests	Allowable failed tests
Water content	3% (not concentrated in one area).	2 percentage points dry of allowable range or 3 percentage points wet of allowable range
Dry Density	3% (not concentrated in one area)	No tests lower than 90% standard compaction

If it is determined that an area does not conform to specification, the area should be repaired. The extent of the area in question should be determined by the CQC based on passing tests. The most likely cause for failing tests will be inadequate compaction or water contents outside of the specified ranges. To rectify the problem, additional passes with the compaction equipment may be necessary. If the water content is outside the specified range the CCL may need to be scarified prior to recompaction.

7 DOCUMENTATION

Daily summary reporting and documentation procedures are required from CQC personnel. Documentation should include the following information:

- Project name, location, date, and personnel involved in major activities,
- Description of weather conditions (temperature, cloud cover, and precipitation);
- Summaries of any meetings held and actions recommended or taken as a result;
- Specific work units and locations of construction underway during that day;
- Equipment and personnel being used in each task;
- Calibrations or recalibrations of equipment, including actions taken as a result of recalibration;
- Descriptions of materials selected for use in the CCL;
- Decisions made regarding approval Work, and corrective actions to be taken in instances of where Work or materials were found inadequate;
- Testing and sampling completed; and
- Signature of CQC.

8 REFERENCES

Amec Foster Wheeler (AMEC). 2017. Rainy River Project Development Clay Borrow Characterization. Technical memorandum prepared for New Gold Inc.

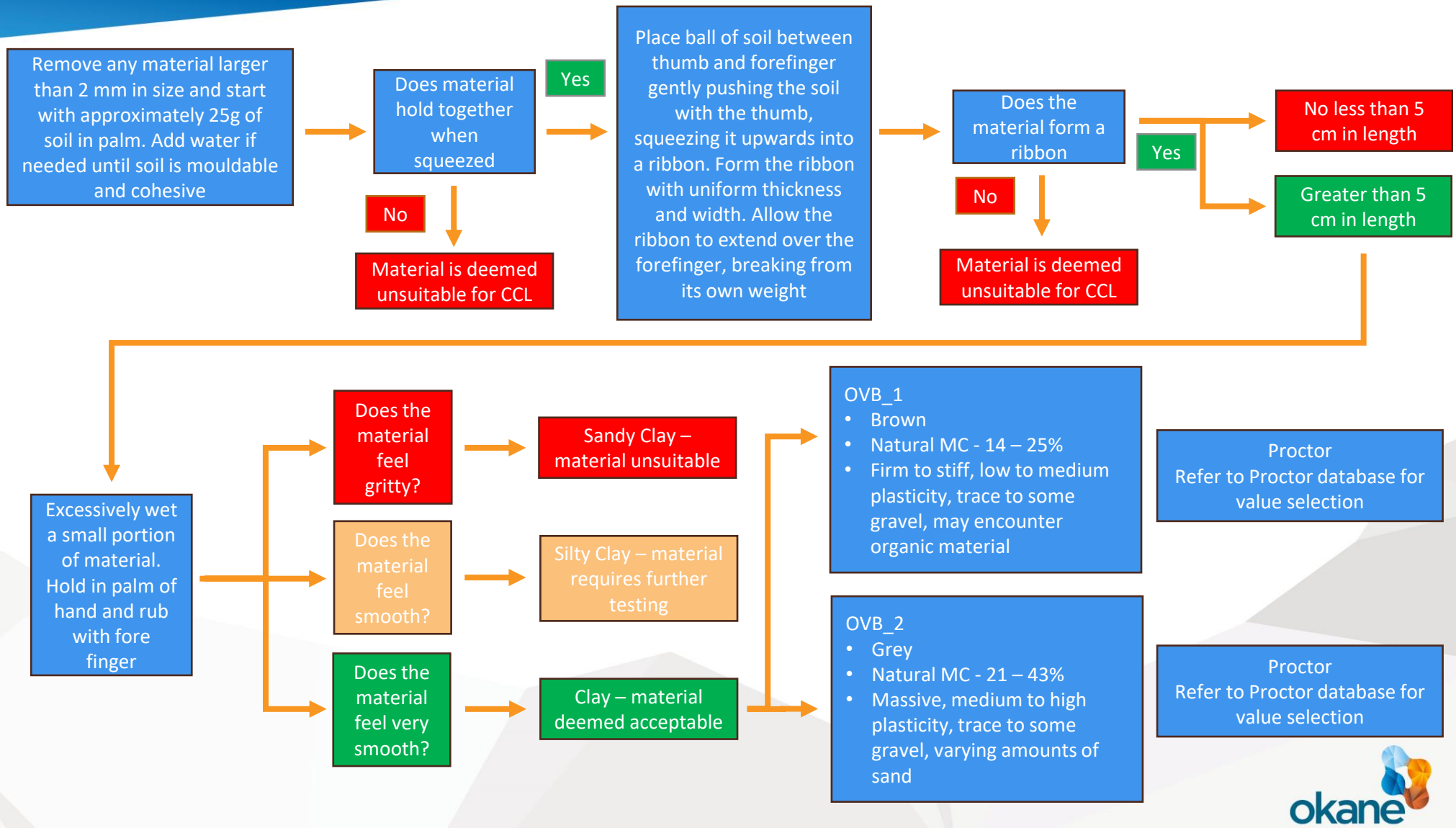
Okane Consultants Inc. (Okane). 2020a. *1003-019-008 EMRS Compaction Field Testing Summary Report*. Report prepared for New Gold Inc. August 2020.

Okane Consultants Inc. (Okane). 2020b. *1003-019-007 Veneer Stability Analysis.* Memorandum prepared for New Gold Inc. July 2020.

Attachment A

Material Selection Guide

CCL Material Selection Process



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OVERBURDEN PROCTOR CURVES

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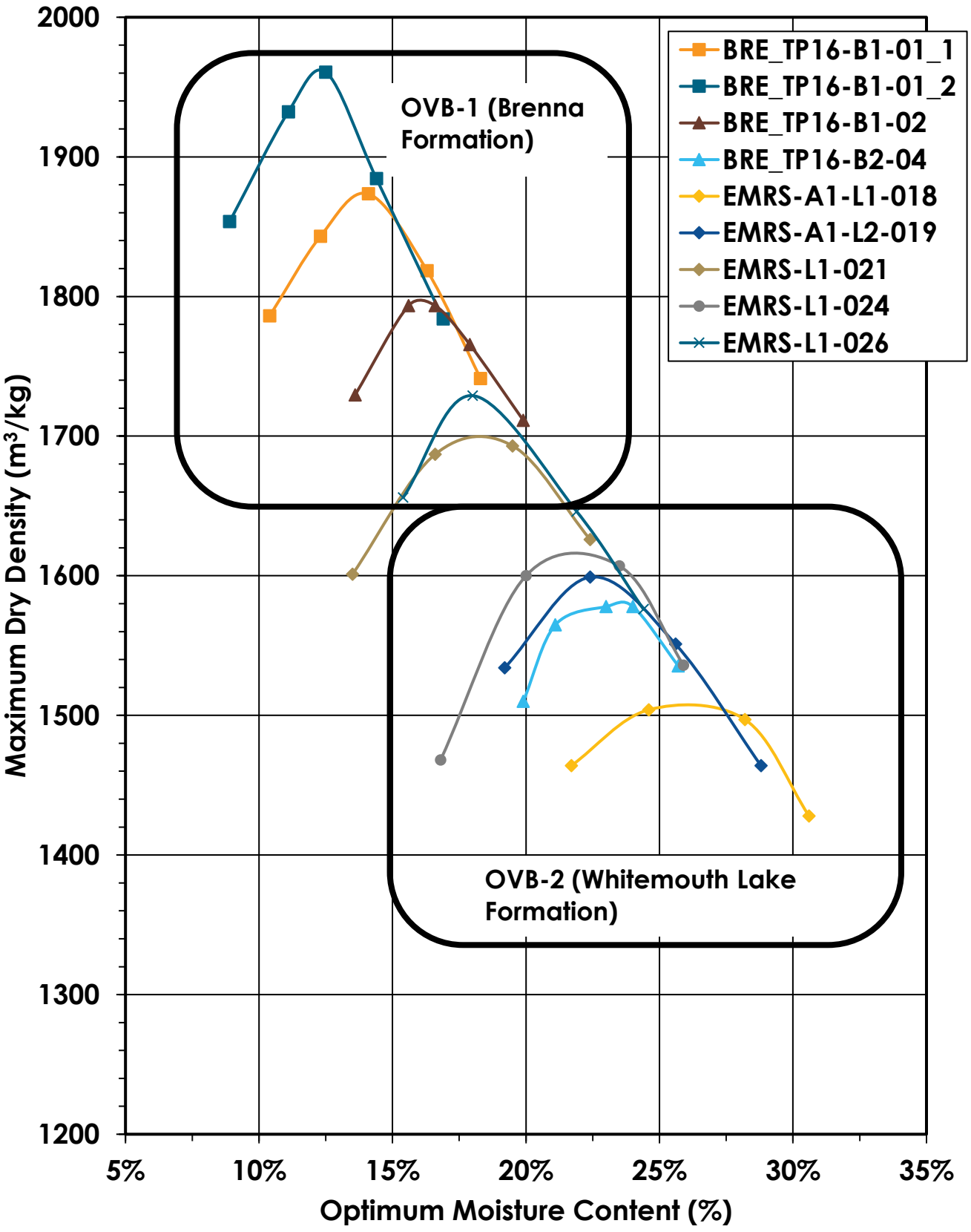

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SHEET OF OPTIMUMS

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Sample ID	In Situ Water Content (%)	Standard Proctor Max Dry Density (kg/m^3)	Optimum Water Content (%)
BRE_TP16-B1-01_1	16.5	1874	14.1
BRE_TP16-B1-01_2	15.6	1961	12.0
BRE_TP16-B1-02	16.6	1796	16.0
BRE_TP16-B2-04	22.1	1578	23.5
EMRS-A1-L1-018	31.2	1512	26.3
EMRS-A1-L2-019	28.5	1600	22.3
EMRS-L1-021	27.5	1700	18.2
EMRS-L1-024	24.2	1621	21.9
EMRS-L1-026	21.0	1729	18.0

For further information contact:

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Geoenvironmental Engineer
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Okane Consultants Inc.

112 - 112 Research Drive
Saskatoon, SK S7N 3R3
Canada

Telephone: (306) 955 0702
Facsimile: (306) 955 1596
Web: www.okc-sk.com

Construction Specifications and Tolerances

EMRS Waste Rock Surface

- Relatively dense and uniform foundation for the cover system, with minimal open void and no large protruding rocks
- Surface prepared to design specifications, and prepared to the satisfaction of CQC
- Approved surface shall be surveyed as a record of construction

Compacted Clay Layer

- Material must be free of deleterious material such as organics and oversize materials (>0.250 m)
- Water content should be within 1 to 4 percentage points of optimum water content (standard compaction)

Table 1: CCL Material Specifications

Material	Minimum Plasticity Index	Gradation
Clay fill for CCL	10	See Table 2

Table 2: CCL Material Gradation Specification

Particle Size (mm)	Coarser Limit (% Passing)	Finer Limit (% Passing)
250	100	100
175	100	95
25	100	95
2	100	70
0.425	100	70
0.063	100	40
0.002	90	10

Table 2: CCL lift thickness tolerances

Material	Loose Lift Thickness	Compacted Thickness	Upward Tolerance	Downward Tolerance
Lift 1	~0.4m	0.25m	+0.2 m	--0.1 m
Lift 2	~0.4m	0.25m	+0.2 m	--0.1 m
Total	**-**	**0.5m**	**+0.2 m**	**-0.1 m**

Table 3: CCL Compaction Effort

Minimum Dry Density	Moulding water content	Minimum # of Passes/ Lift (padfoot roller)	Minimum Overlap of Passes
95% standard compaction	1 to 4 percentage points wet of optimum water content	4	1/3

- Approval of a CCL panel should be documented by CQC in daily summary report
- Approved areas of the CCL shall not be left exposed longer than 24 hours

Non-compacted Layer

- Minimum total thickness 1.0 m, constructed in minimum two (2) lifts to allow for track compaction
- Water content of NCL materials should be greater than 2 percentage points wet of *in situ* water content at placement

Testing Frequencies and Tolerances

Table 1: Testing Frequency in Pit Boundary

Material	Field Index Test (Material Selection Guide)	Observations for Deleterious Materials
Clay fill	Continuous	Continuous

Table 2: Testing Frequency for Fill Materials after Placement

Material	Construction Oversight	Water Content (ASTM D2216-19)	Particle Size / Hydrometer (ASTM D6913M-17, D7928-17)	Plasticity (ASTM D4318-00)	Compaction Testing (ASTM D698-12e2)
Clay Fill	Continuous	1 per 1000 m^3	1 per 1000 m^3	1 per 1000 m^3	1 per 4000 m^3
NCL	Continuous	1 per 2000 m^3	1 per 3000 m^3		

Table 3: Frequency for As-built CCL (after compaction)

Material	Water content (ASTM D2216-19)	Nuclear Gauge Density and Water Content (ASTM D6938-07b)	In Situ Hydraulic Conductivity (ASTM D6391-11)
CCL	1 per 10 nuclear gauge tests	13/ha/lift	1 per 3 ha

Table 4: Recommended Percentage of failed as-built tests for the CCL

Parameter	Maximum allowed percentage of failed tests	Allowable range for outliers
Water content	3% (not concentrated in one area).	2% dry of allowable range or 3% wet of allowable range
Dry Density	3% (not concentrated in one area)	0.08 t/m^3 below required value

Appendix B

Summary of Laboratory Results

ATTACHMENT A – September 2020 Laboratory & Field Results

Table A1: Laboratory Moisture Contents

Date Sampled	Date Tested	Sample ID	Lab Moisture Content (%)
27-Aug-20	28-Aug-20	EMRS-A1-L1-018	31.2
27-Aug-20	28-Aug-20	EMRS-A1-L2-019	28.5
29-Aug-20	30-Aug-20	EMRS-L2-020	24.4
30-Aug-20	31-Aug-20	EMRS-L1-021	27.5
2-Sep-20	3-Sep-20	EMRS-L1-022	23.1
5-Sep-20	6-Sep-20	EMRS-L2-024	24.2
9-Sep-20	10-Sep-20	EMRS-L3-025	25.1
10-Sep-20	11-Sep-20	EMRS-L1-026	21
11-Sep-20	12-Sep-20	RR-EMRS-SS1-P01	25.3
11-Sep-20	12-Sep-20	RR-EMRS-SS1-S02	24.1
11-Sep-20	12-Sep-20	RR-EMRS-SS1-WR	2.2
13-Sep-20	15-Sep-20	EMRS-L2-028	20.3
14-Sep-20	15-Sep-20	EMRS-L2-029	28.9
15-Sep-20	16-Sep-20	EMRS-L2-030	21.1
15-Sep-20	16-Sep-20	EMRS-L3-031	25.8
17-Sep-20	21-Sep-20	EMRS-L4-033	19.3
18-Sep-20	21-Sep-20	EMRS-L4-034	24.2
19-Sep-20	21-Sep-20	EMRS-L4-035	21.6
21-Sep-20	22-Sep-20	EMRS-L4-036	22.3
24-Sep-20	25-Sep-20	EMRS-L1-037	27.3
24-Sep-20	25-Sep-20	EMRS-L1-038	20.7
25-Sep-20	26-Sep-20	EMRS-L1-039	37
25-Sep-20	26-Sep-20	EMRS-L1-040	31.4
25-Sep-20	26-Sep-20	EMRS-L1-041	27.2
26-Sep-20	27-Sep-20	EMRS-L1-042	20.5
26-Sep-20	27-Sep-20	EMRS-L2-043	23
26-Sep-20	27-Sep-20	EMRS-L1-044	18.8

ATTACHMENT A – October 2020 Laboratory & Field Results

Table A1: Laboratory Moisture Contents - October

Date Sampled	Date Tested	Sample ID	Lab Moisture Content (%)
2-Oct-20	3-Oct-20	EMRS-L4-053	27.8
3-Oct-20	4-Oct-20	EMRS-L1-054	24.1
3-Oct-20	4-Oct-20	EMRS-L1-055	29.3
3-Oct-20	4-Oct-20	EMRS-L1-056	25.7
4-Oct-20	5-Oct-20	EMRS-L1-057	29.0
4-Oct-20	5-Oct-20	EMRS-SP-058	28.7
5-Oct-20	6-Oct-20	EMRS-L1-059	21.7
5-Oct-20	6-Oct-20	EMRS-L1-060	25.9
5-Oct-20	6-Oct-20	EMRS-L1-061	23.3
6-Oct-20	7-Oct-20	EMRS-L2-062	28.8
6-Oct-20	7-Oct-20	EMRS-L2-063	24.8
6-Oct-20	7-Oct-20	EMRS-L2-064	22.2
8-Oct-20	9-Oct-20	EMRS-L3-065	28.0
8-Oct-20	9-Oct-20	EMRS-L2-066	24.8
8-Oct-20	9-Oct-20	EMRS-L2-067	26.3
9-Oct-20	10-Oct-20	EMRS-L2-068	27.6
9-Oct-20	10-Oct-20	EMRS-L2-069	27.8
9-Oct-20	10-Oct-20	EMRS-L2-070	29.6
10-Oct-20	11-Oct-20	EMRS-L2-071	23.3
10-Oct-20	11-Oct-20	EMRS-L2-072	28.7
10-Oct-20	11-Oct-20	EMRS-L2-073	23.7
10-Oct-20	11-Oct-20	EMRS-L2-074	22.0
10-Oct-20	11-Oct-20	EMRS-L2-075	24.4
10-Oct-20	11-Oct-20	EMRS-L2-076	23.3
10-Oct-20	11-Oct-20	EMRS-L3-077	24.5
11-Oct-20	13-Oct-20	EMRS-L3-078	22.7
19-Oct-20	21-Oct-20	EMRS-L3-079	30.1

Date Sampled	Date Tested	Sample ID	Lab Moisture Content (%)
19-Oct-20	21-Oct-20	EMRS-L3-080	24.8
20-Oct-20	21-Oct-20	EMRS-L4-081	22.5
20-Oct-20	21-Oct-20	EMRS-L4-082	22.7
21-Oct-20	22-Oct-20	EMRS-L4-083	24.3
21-Oct-20	22-Oct-20	EMRS-L4-084	20.1
21-Oct-20	22-Oct-20	EMRS-L4-085	23.0
22-Oct-20	23-Oct-20	EMRS-L4-086	26.9
22-Oct-20	23-Oct-20	EMRS-L4-087	26.3
22-Oct-20	23-Oct-20	EMRS-L4-088	24.6
23-Oct-20	24-Oct-20	EMRS-L4-089	22.9
23-Oct-20	24-Oct-20	EMRS-L4-090	23.8
23-Oct-20	24-Oct-20	EMRS-L4-091	23.1
23-Oct-20	24-Oct-20	EMRS-L4-092	30.0
25-Oct-20	26-Oct-20	EMRS-L1-093	27.9
25-Oct-20	26-Oct-20	EMRS-L1-094	21.1
26-Oct-20	27-Oct-20	EMRS-SP-095	33.4
26-Oct-20	27-Oct-20	EMRS-SP-096	22.3
26-Oct-20	27-Oct-20	EMRS-SP-097	34.7
26-Oct-20	27-Oct-20	EMRS-SP-098	31.6
26-Oct-20	27-Oct-20	EMRS-SP-099	23.1

Table A2: Atterberg Limits - October

Date Sampled	Date Tested	Sample ID	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)
3-Oct-20	5-Oct-20	EMRS-L1-054	49	15	24
3-Oct-20	6-Oct-20	EMRS-L1-056	76	22	54
5-Oct-20	7-Oct-20	EMRS-L1-059	53	17	36
5-Oct-20	7-Oct-20	EMRS-L1-061	35	13	22
6-Oct-20	9-Oct-20	EMRS-L2-063	59	16	43
9-Oct-20	13-Oct-20	EMRS-L2-069	44	14	30
10-Oct-20	13-Oct-20	EMRS-L2-073	41	14	27
10-Oct-20	13-Oct-20	EMRS-L2-076	41	12	29
3-Oct-20	27-Oct-20	RR-EMRS-BP3	62	17	45

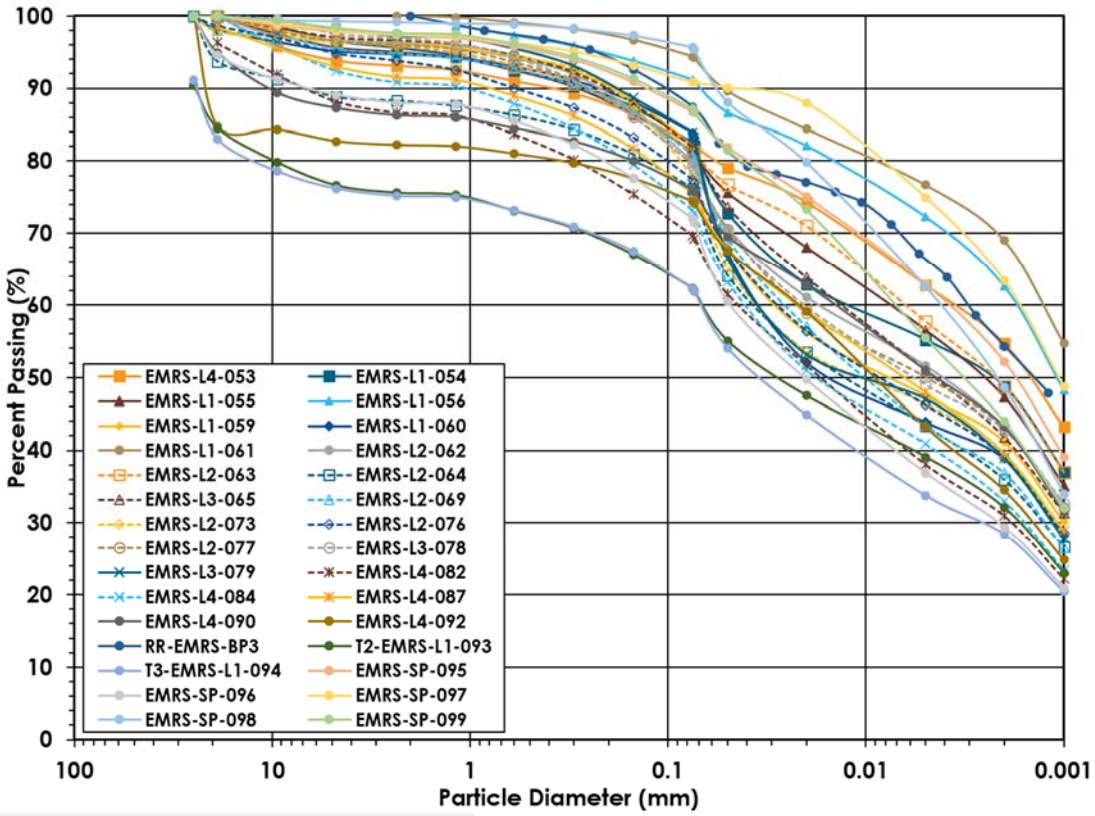


Figure A1: Hydrometer Data - October

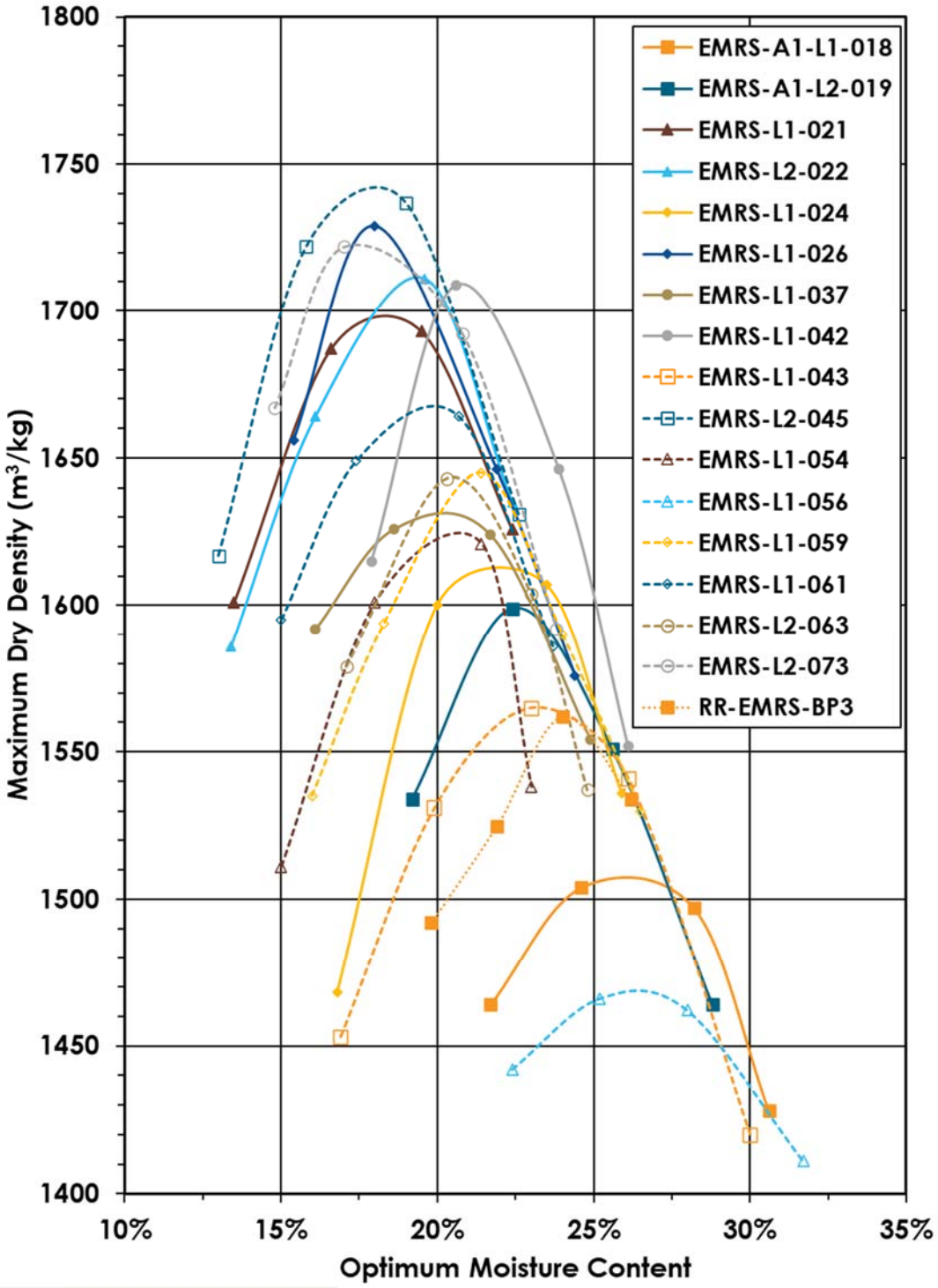


Figure A2: Laboratory Proctor Curves

Table A3: Nuclear Densometer Results - October

Date Sampled	Density ID	Sample ID	Field Moisture Content (%)	Field Dry Density (kg/m^3)	Field Wet Density (kg/m^3)
3-Oct-20	821 – BP3	RR-EMRS-BP3	24.9	1420	1774
3-Oct-20	517	EMRS-L1-054	29.0	1389	1791
3-Oct-20	520	EMRS-L1-056	28.5	1346	1730
5-Oct-20	525	EMRS-L1-059	24.9	1435	1792
5-Oct-20	528	EMRS-L1-061	22.3	1388	1698
6-Oct-20	825	EMRS-L2-063	26.1	1569	1978
10-Oct-20	835	EMRS-L2-073	19.8	1705	2042

P.MACHIBRODA ENGINEERING LTD.

ASTM D698: STANDARD PROCTOR MOISTURE-DENSITY ANALYSIS

PROJECT: Rainy River EMPS (1003-023-006-000004)

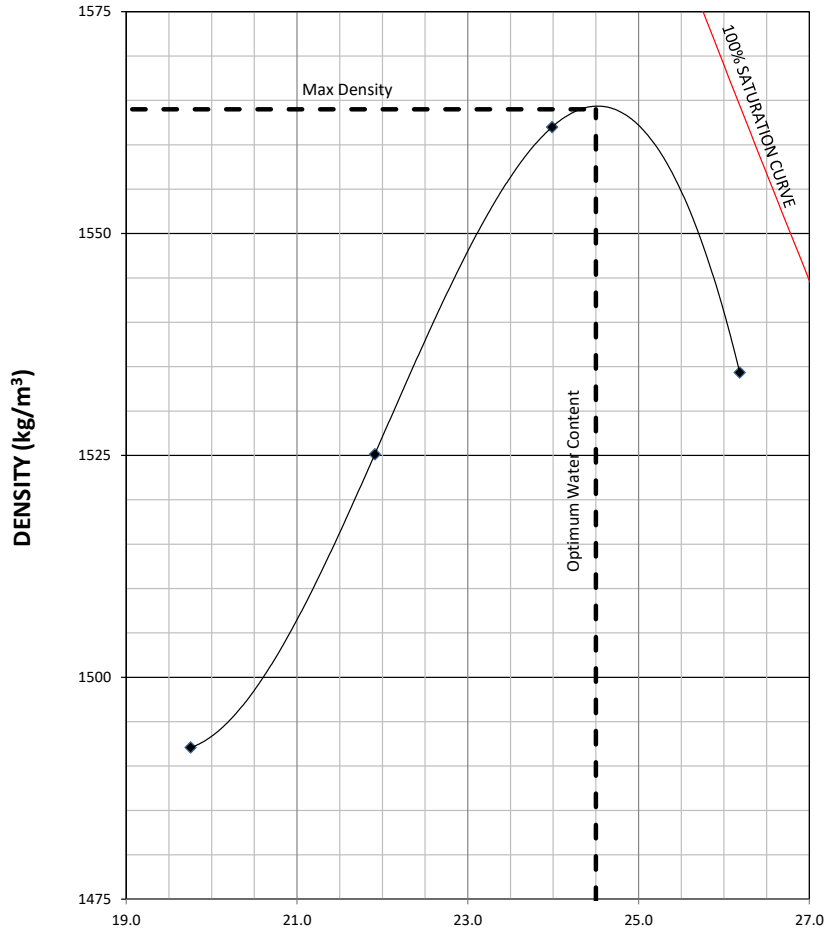
LOCATION:

SOURCE: Compacted Clay Liner (CCL) - Sample Delivered to P. Machibroda Engineering Ltd.

HOLE: SAMPLE : 1 DEPTH:

TECHNICIAN: K. Rendek DATE: October 27, 2020

	TRIAL NUMBER	1	2	3	4	5	6
DENSITY DETERMINATION	Mold Number						
	Wt. Sample Wet + Mold						
	Wt. Mold (Grams)						
	Wt. Sample Wet (Grams)						
	Volume of Mold (cm^3)						
	Wet density (kg/m^3)						
	Dry density (kg/m^3)	1492	1525	1562	1534		
WATER CONTENT DETERMINATION	TARE NUMBER						
	Wt. Sample Wet + Tare (Grams)						
	Wt. Sampe Dry + Tare (Grams)						
	Wt. Tare (Grams)						
	Wt. Dry soil (Grams)						
	Wt. Water (Grams)						
	Water content (%)	19.8	21.9	24.0	26.2		



AT OPTIMUM W% =	**24.5**
CORRECTED OPTIMUM MOISTURE W% =	N/A
DENSITY (Kg/m^3)	**1564**
DENSITY (Kg/m3) - ROCK CORRECTION	N/A

METHOD OF COMPACTION:	ASTM D698 -METHOD A
DIA. MOLD(INS)	4
No. OF LAYERS	3
No. BLOWS PER LAYER	25
Ht. OF FREE FALL (INS)	12
Wt. OF TAMPER (lbs)	5.5
SHAPE OF TAMPING FACE	Circular Planar
PREPARATION METHOD	Dry
RAMMER DESCRIPTION	Manual
MOISTURE AS RECEIVED, %	31.0
SPECIFIC GRAVITY(assumed)	2.65
% OF OVERSIZE FRACTION (P_C)	N/A
DESCRIPTION OF SAMPLE	CH - Fat Clay

DRY DENSITY= (100XWET DENSITY)/(100+W%)

WET DENSITY= (Wt. compact soil)/(vol. compact soil)

REMARKS:

WE CERTIFY TESTING PROCEDURES ARE IN ACCORDANCE WITH ASTM D698 STANDARD

P. MACHIBRODA ENGINEERING LTD.

PER Preston Schergevitch

Preston Schergevitch, A.Sc.T.

CERTIFIED BY CCIL Canadian Council of Independent Laboratories For specific tests as listed on www.ccil.com

DRAWING NO.

17444-1C

P.MACHIBRODA ENGINEERING LTD.

AASHTO T 88: PARTICLE SIZE ANALYSIS OF SOILS

Project: Rainy River EMPS (1003-023-006-000004)

Location:

Project No.: 17444

Date Tested: October 27, 2020

Source: Compacted Clay Liner (CCL) - Sample Delivered to P. Machibroda Engineering Ltd.

Sample No.: 1

Material: CH - Fat Clay

Sieve Analysis:

Sieve	Diameter mm	% Finer
1.5"	38.1	100
1"	25.4	100
3/4"	19.1	100
1/2"	12.7	100
3/8"	9.5	100
# 4	4.75	100
# 10	2	100
# 20	0.85	98
# 40	0.425	96.8
#60	0.25	95.3
# 100	0.15	92.6
# 200	0.075	87.4

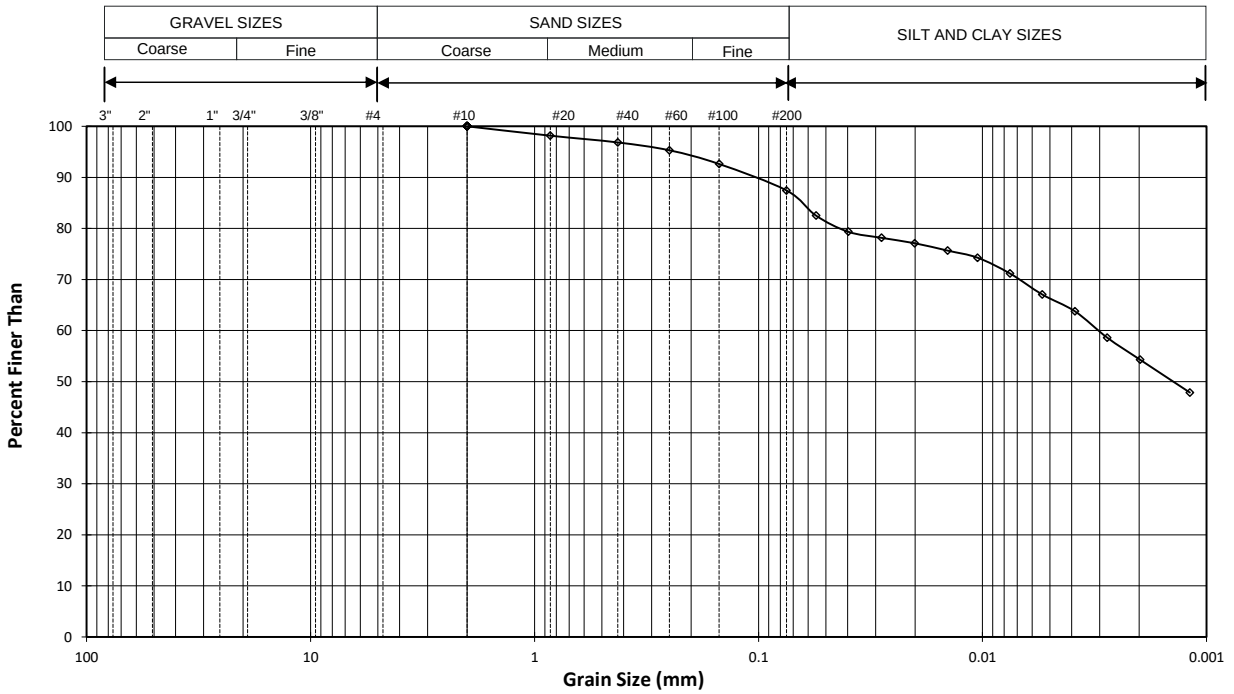
Hydrometer Analysis:

	Diameter mm	% Finer
Dispersing Agent:	0.0554	82.5
Sodium Hexametaphosphate	0.0398	79.3
	0.0283	78.2
	0.0201	77.1
	0.0143	75.7
	0.0105	74.3
	0.0075	71.2
	0.0054	67.1
	0.0039	63.8
	0.0028	58.6
	0.0020	54.3
	0.0012	47.9

Material Description:

% Gravel Sizes	% Sand Sizes	% Silt Sizes	% Clay Sizes
0	13	33	54

Remarks:



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Drawing No.

17444-1A

WE CERTIFY TESTING PROCEDURES ARE IN ACCORDANCE WITH AASHTO T 88 STANDARD
P. MACHIBRODA ENGINEERING LTD.

PER

ASTM D4318: LIQUID LIMIT, PLASTIC LIMIT, AND PLASTICITY INDEX

P.MACHIBRODA ENGINEERING LTD.

806 48TH STREET EAST, SASKATOON, SK S7K 3Y4

PROJECT INFORMATION

PROJECT NUMBER:	**17444**
PROJECT NAME:	**Rainy River EMPS (1003-023-006-000004)**
PROJECT LOCATION:	
DATE:	**October 27, 2020**

SAMPLE INFORMATION

SOURCE:	**Compacted Clay Liner (CCL) - Sample Delivered to P. Machibroda Engineering Ltd.**
SAMPLE NUMBER:	**1**
MATERIAL:	**CH - Fat Clay**

TESTING METHOD AND EQUIPMENT

METHOD OF PREPARATION:	**Oven Dried**
METHOD OF REMOVING PARTICLES LARGER THAN THE 425-µm:	**Sieve**
METHOD OF ROLLING:	**Hand Rolled**
LIQUID LIMIT DEVICE:	**Manual**
GROOVING TOOL:	**Plastic**
TESTING METHOD:	**Method A (Multipoint Liquid Limit)**

LABORATORY TEST RESULTS

LIQUID LIMIT

Test No.	1	2	3
Moisture Content (%)	61.7	63.7	66.2
No. of Blows	27	20	15

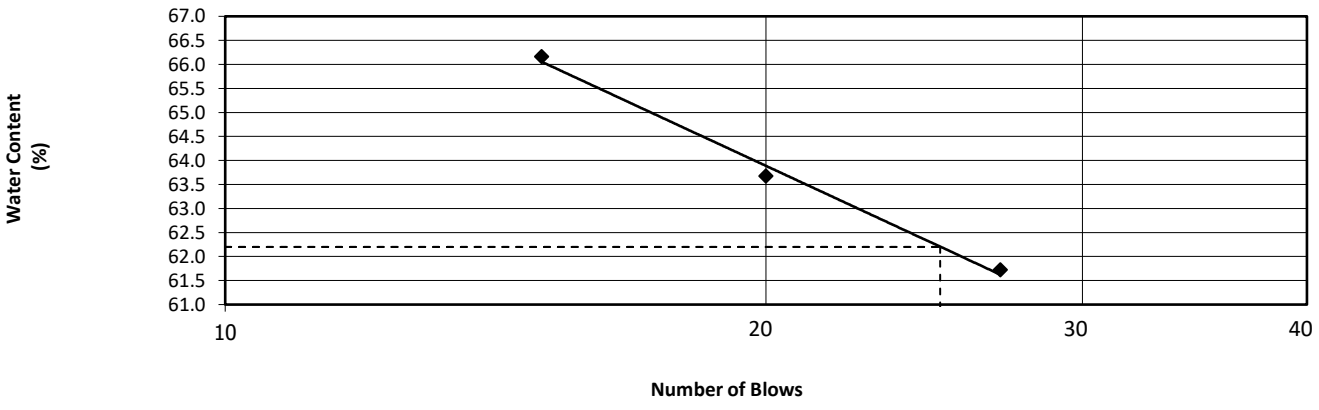
PLASTIC LIMIT

Test No.	1	2
Moisture Content (%)	17.8	17.0

TEST RESULTS

Liquid Limit	**62**
Plastic Limit	**17**
Plasticity Index	**45**

FLOW CURVE GRAPH



CERTIFIED BY CCIL Canadian Council of Independent Laboratories For specific tests as listed on www.ccil.com

17444-1B

WE CERTIFY TESTING PROCEDURES ARE IN ACCORDANCE WITH ASTM STANDARDS
P. MACHIBRODA ENGINEERING LTD.

PER <original signed by>
Preston Schergevith, A.Sc.T.

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-A1-L1-018	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Aug 27 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Aug 30 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-A1-L1-018	Pit Dump	N/A	31.2%	66	19	47	CH	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

Data presented hereon is for the sole use of the stipulated client. Allnorth is not responsible, nor can be held liable, for use made of this report by any other party, with or without the knowledge of Allnorth. The testing services reported herein have been performed by an Allnorth technician to recognized industry standards, unless otherwise noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, Allnorth will provide it upon written request.

Date Sampled	Date Tested	Sample ID	Lab Moisture Content (%)
27-Sep-20	28-Sep-20	EMRS-L2-045	32.8
27-Sep-20	28-Sep-20	EMRS-L2-046	21.8
27-Sep-20	28-Sep-20	EMRS-L2-047	20.7
28-Sep-20	29-Sep-20	EMRS-L3-048	23.9
28-Sep-20	29-Sep-20	EMRS-L3-049	24.5
29-Sep-20	30-Sep-20	EMRS-L3-050	27.7
29-Sep-20	30-Sep-20	EMRS-L3-051	23.1
30-Sep-20	1-Oct-20	EMRS-L4-052	20.8

Table A2: Atterberg Limits

Date Sampled	Date Tested	Sample ID	Liquid Limit (LL)	Plastic Limit (PL)	Plasticity Index (PI)
27-Aug-20	30-Aug-20	EMRS-A1-L1-018	66	19	47
27-Aug-20	30-Aug-20	EMRS-A1-L2-019	60	17	43
10-Sep-20	14-Sep-20	EMRS-L1-026	42	14	28
13-Sep-20	16-Sep-20	EMRS-L2-028	47	13	34
24-Sep-20	26-Sep-20	EMRS-L1-037	48	16	32
27-Sep-20	1-Oct-20	EMRS-L2-045	43	14	29

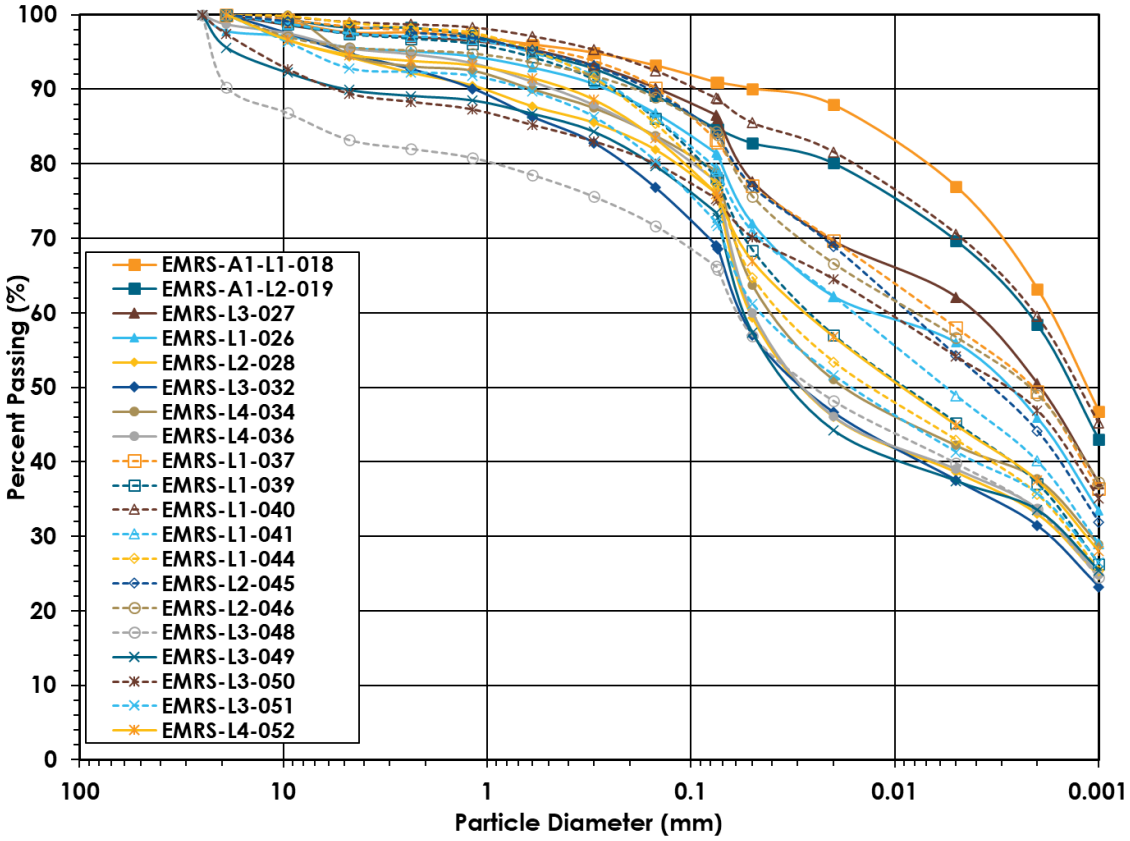


Figure A1: Hydrometer Data

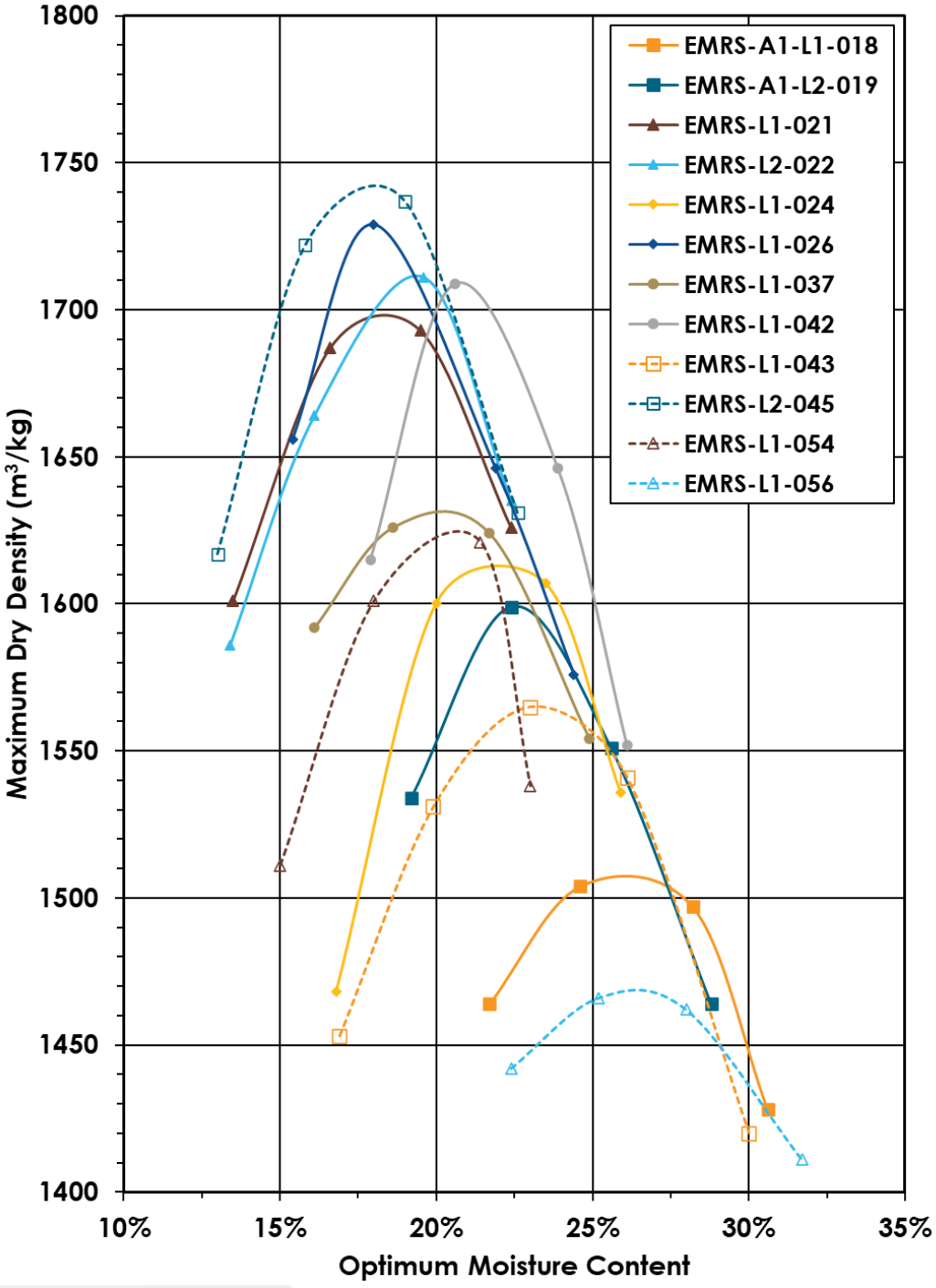


Figure A2: Laboratory Proctor Curves

Table A3: Nuclear Densometer Results

Date Sampled	Density ID	Sample ID	Field Moisture Content (%)	Field Dry Density (kg/m3)	Field Wet Density (kg/m3)
27-Aug-20	500	EMRS-L1-018	30.6	1372	1792
27-Aug-20	800	EMRS-L2-019	31.9	1478	1950
29-Aug-20	801	EMRS-L2-020	28.8	1389	1789
30-Aug-20	502	EMRS-L1-021	31.5	1375	2528
2-Sep-20	802	EMRS-L2-022	27.9	1414	1808
4-Sep-20	503	EMRS-L1-023	24.4	1406	1750
5-Sep-20	803	EMRS-L2-024	24.8	1468	1831
10-Sep-20	504	EMRS-L1-026	21.7	1677	2041
24-Sep-20	507	EMRS-L1-037	26.1	1446	1823
24-Sep-20	510	EMRS-L1-038	24.3	1435	1783
26-Sep-20	511	EMRS-L1-042	20.2	1540	1851
26-Sep-20	808	EMRS-L2-043	31.8	1321	1742
26-Sep-20	516	EMRS-L1-044	23.6	1512	1869
27-Sep-20	813	EMRS-L2-045	29.1	1411	1822
27-Sep-20	817	EMRS-L2-046	27.7	1358	1358

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	1-Sep-20	**Report no.:**	EMRS-A1-L1-018	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-A1-L1-018	**Sampled Date:**	27-Aug-20	**Sample Type:**	Field Sample
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

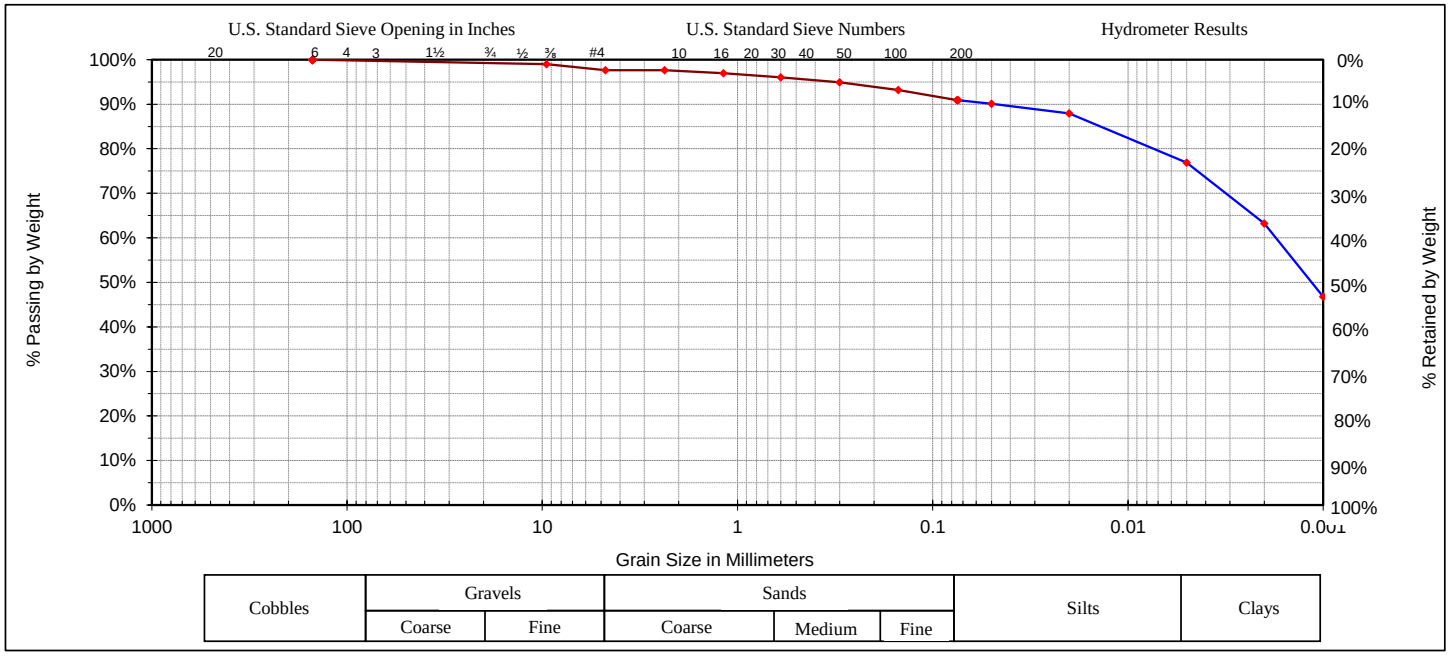
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm			
16.00 mm			
12.50 mm			
9.50 mm	99.0%		
6.30 mm			
4.75 mm	97.6%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	97.6%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	97.6%		
1.180 mm	97.0%		
0.600 mm	96.0%		
0.300 mm	94.9%		
0.150 mm	93.2%		
0.075 mm	90.9%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	90.9%
0.050 mm	90.1%
0.020 mm	87.9%
0.005 mm	76.9%
0.002 mm	63.2%
0.001 mm	46.8%



USCS Classification: CH

Gradation **% Gravel** 2.4% **% Sand** 6.7% **% Silt & Clay** 90.9%

Silt 14.0%

Clay 76.9%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-A1-L2-019	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Aug 27 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Aug 30 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-A1-L2-019	Pit Dump	N/A	28.5%	60	17	43	CH	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	31-Aug-20	**Report no.:**	EMRS-A1-L2-019	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-A1-L2-019	**Sampled Date:**	27-Aug-20	**Sample Type:**	Field Sample
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

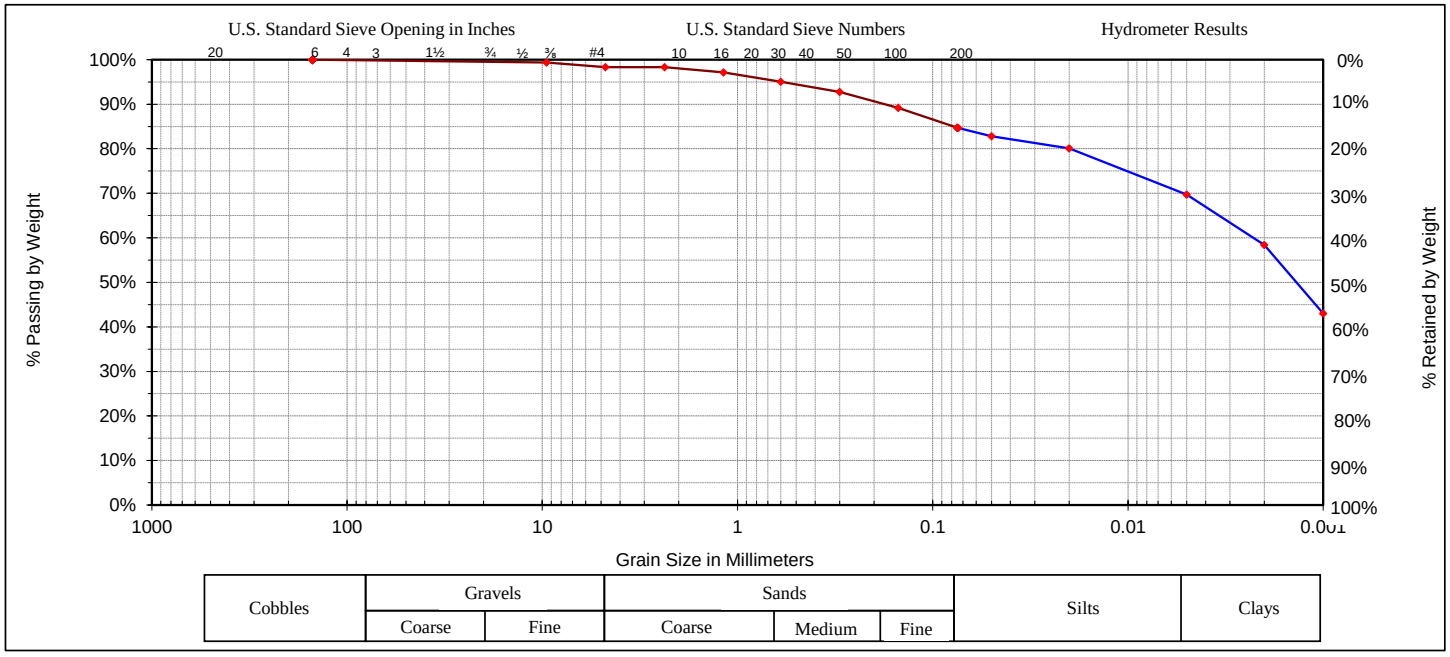
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm			
16.00 mm			
12.50 mm			
9.50 mm	99.4%		
6.30 mm			
4.75 mm	98.3%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	98.3%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	98.3%		
1.180 mm	97.2%		
0.600 mm	95.0%		
0.300 mm	92.8%		
0.150 mm	89.2%		
0.075 mm	84.7%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	84.7%
0.050 mm	82.8%
0.020 mm	80.1%
0.005 mm	69.7%
0.002 mm	58.4%
0.001 mm	43.0%



USCS Classification: CH

Gradation **% Gravel** 1.7% **% Sand** 13.6% **% Silt & Clay** 84.7%

Silt 15.0%

Clay 69.7%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	1-Sep-20	Report Number:	EMRS-A1-L1-018
File Number:	2001417	Contractor:	Okane Consultants
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 27-AUG-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1464	1504	1497	1428		
MOISTURE CONTENT (W%)	21.7	24.6	28.2	30.6		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1512**
OPTIMUM MC (%): **26.3**

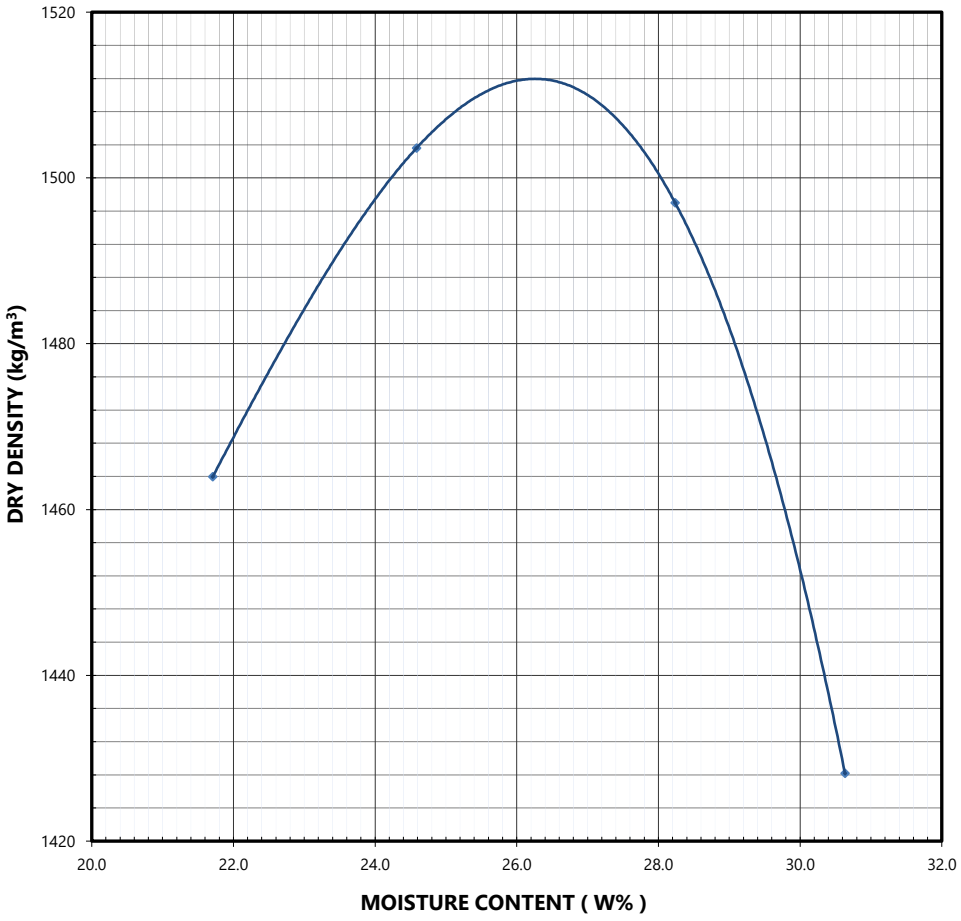
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**31.2**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	1-Sep-20	Report Number:	EMRS-A1-L2-019
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 27-AUG-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1534	1599	1551	1464		
MOISTURE CONTENT (W%)	19.2	22.4	25.6	28.8		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1600**
OPTIMUM MC (%): **22.3**

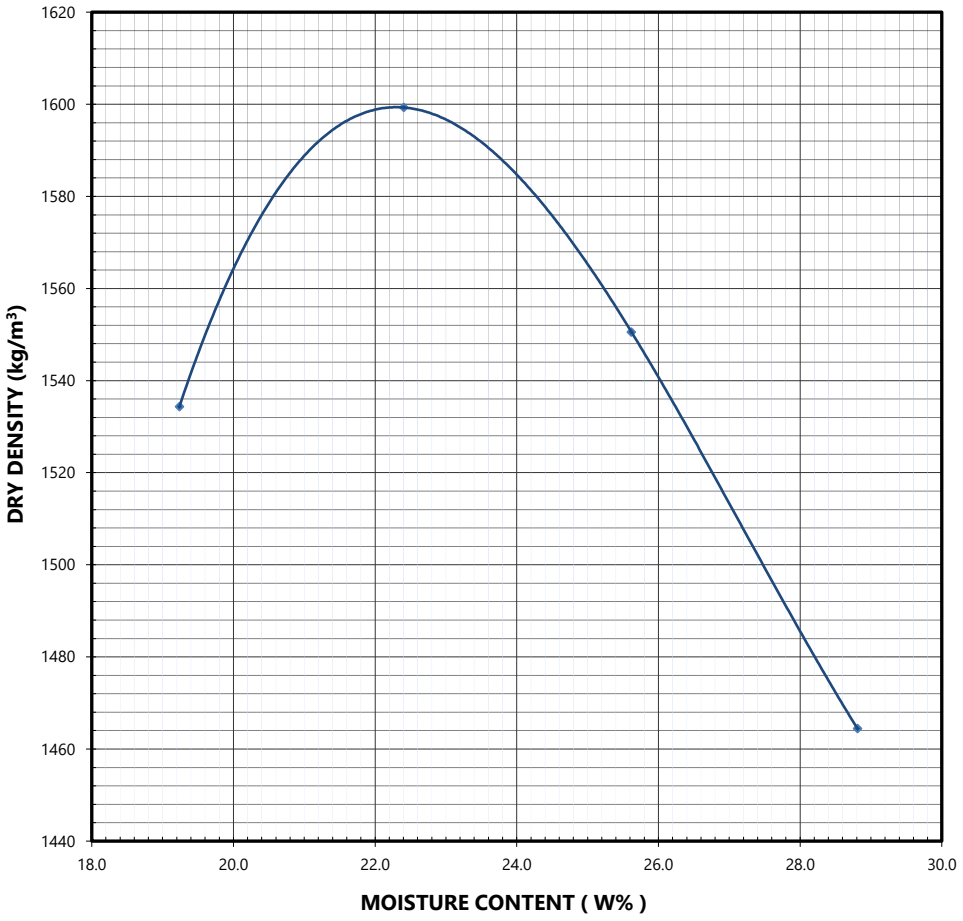
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**28.5**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	28-Aug-20	Report Number:	EMRS-A1-L1-018
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Aug 27 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	412.1			
MASS OF WATER (g)	128.65			
MOISTURE CONTENT	**31.2%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	28-Aug-20	Report Number:	EMRS-A1-L2-019
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Aug 27 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	460.3			
MASS OF WATER (g)	131.2			
MOISTURE CONTENT	**28.5%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	30-Aug-20	Report Number:	EMRS-L2-020
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Aug 29 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	456.4			
MASS OF WATER (g)	111.4			
MOISTURE CONTENT	**24.4%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	31-Aug-20	Report Number:	EMRS-L1-021
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Aug 30 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	449.1			
MASS OF WATER (g)	123.3			
MOISTURE CONTENT	**27.5%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	3-Sep-20	Report Number:	EMRS-L1-021
File Number:	2001417	Contractor:	Okane Consultants
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 30-AUG-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1601	1687	1693	1626		
MOISTURE CONTENT (W%)	13.5	16.6	19.5	22.4		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1700**
OPTIMUM MC (%): **18.2**

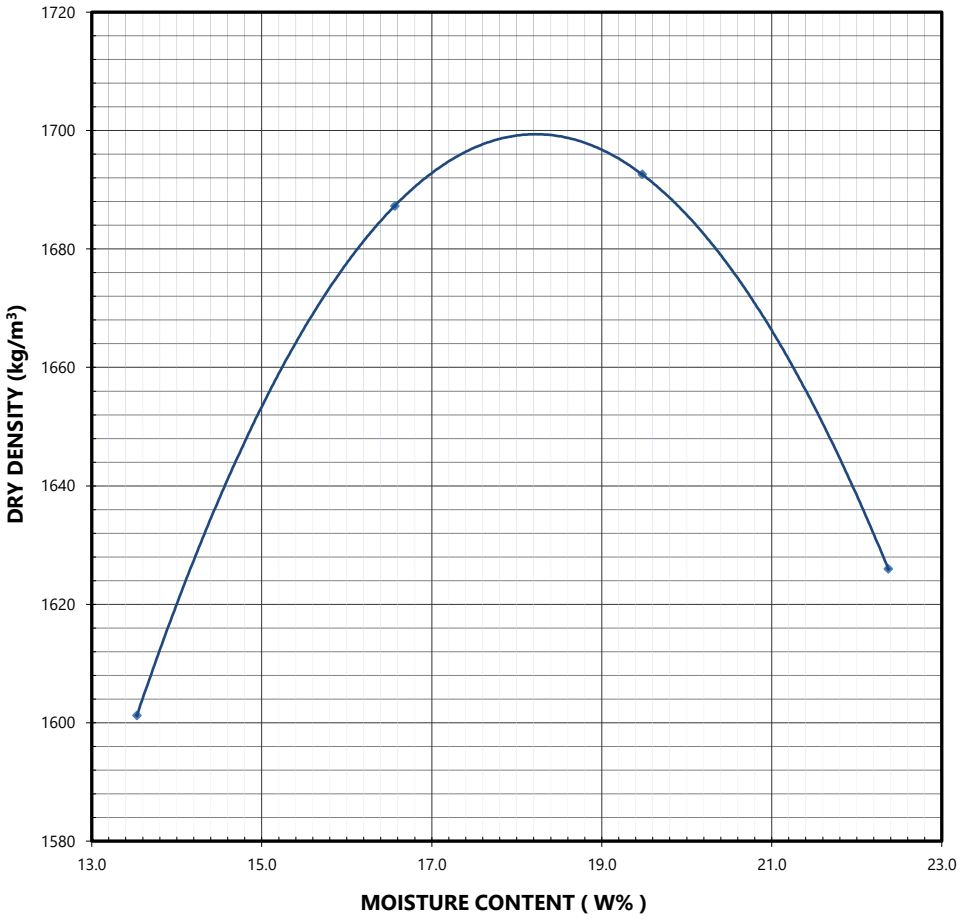
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**27.5**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	3-Sep-20	Report Number:	EMRS-L2-022
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 02 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	531.8			
MASS OF WATER (g)	122.7			
MOISTURE CONTENT	**23.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	7-Sep-20	Report Number:	EMRS-L2-022
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 02-SEPT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1586	1664	1711	1635		
MOISTURE CONTENT (W%)	13.4	16.1	19.6	22.4		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1712**
OPTIMUM MC (%): **19.2**

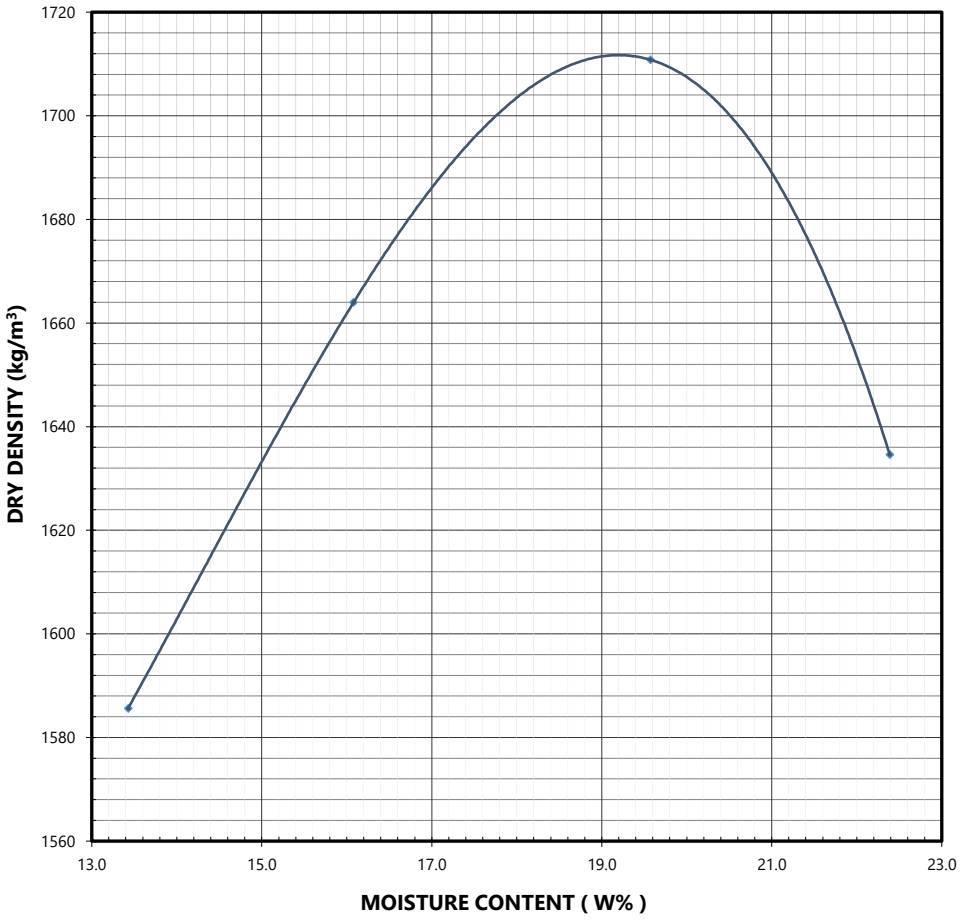
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**23.1**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	5-Sep-20	Report Number:	EMRS-L1-023
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 04 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	465.1			
MASS OF WATER (g)	107.6			
MOISTURE CONTENT	**23.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	6-Sep-20	Report Number:	EMRS-L2-024
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 05 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	549.8			
MASS OF WATER (g)	133			
MOISTURE CONTENT	**24.2%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	10-Sep-20	Report Number:	EMRS-L2-024
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 05-SEPT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1468	1600	1607	1536		
MOISTURE CONTENT (W%)	16.8	20.0	23.5	25.9		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1621**
OPTIMUM MC (%): **21.9**

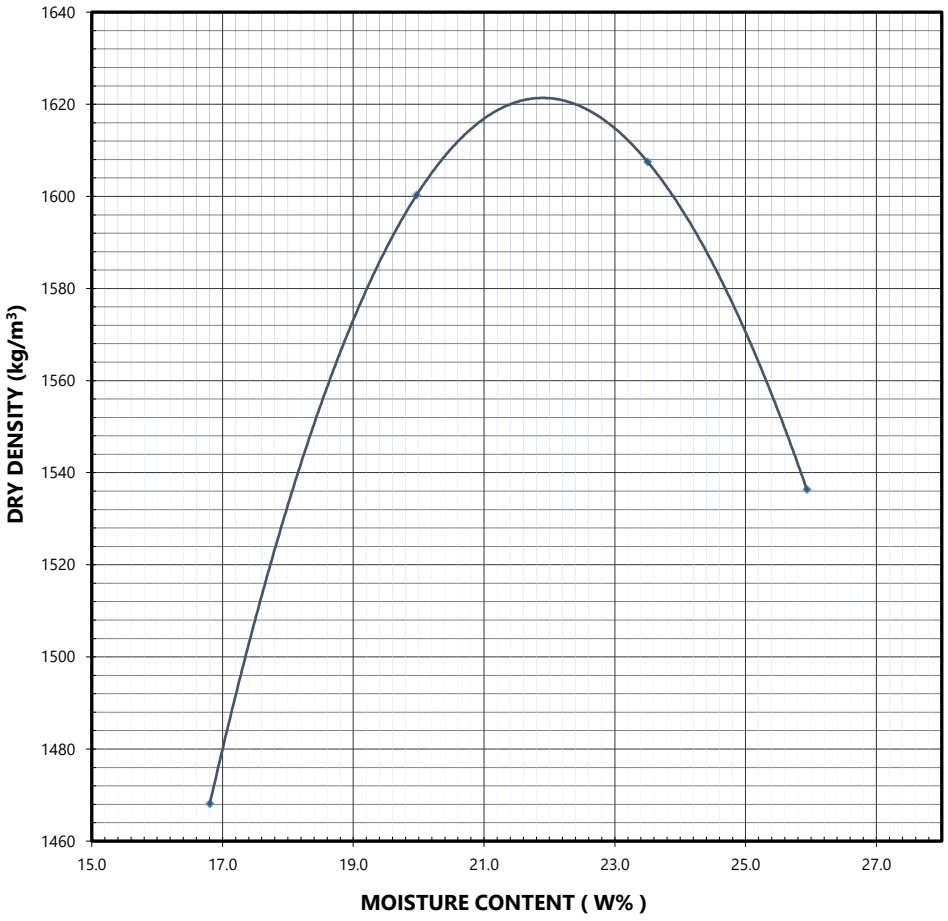
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**24.2**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	10-Sep-20	Report Number:	EMRS-L3-025
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 09 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	524.1			
MASS OF WATER (g)	131.7			
MOISTURE CONTENT	**25.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L1-026	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Sept 10 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Sept 14 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L1-026	Pit Dump	N/A	31.2%	42	14	28	CI	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	15-Sep-20	**Report no.:**	EMRS-L1-026	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-026	**Sampled Date:**	10-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

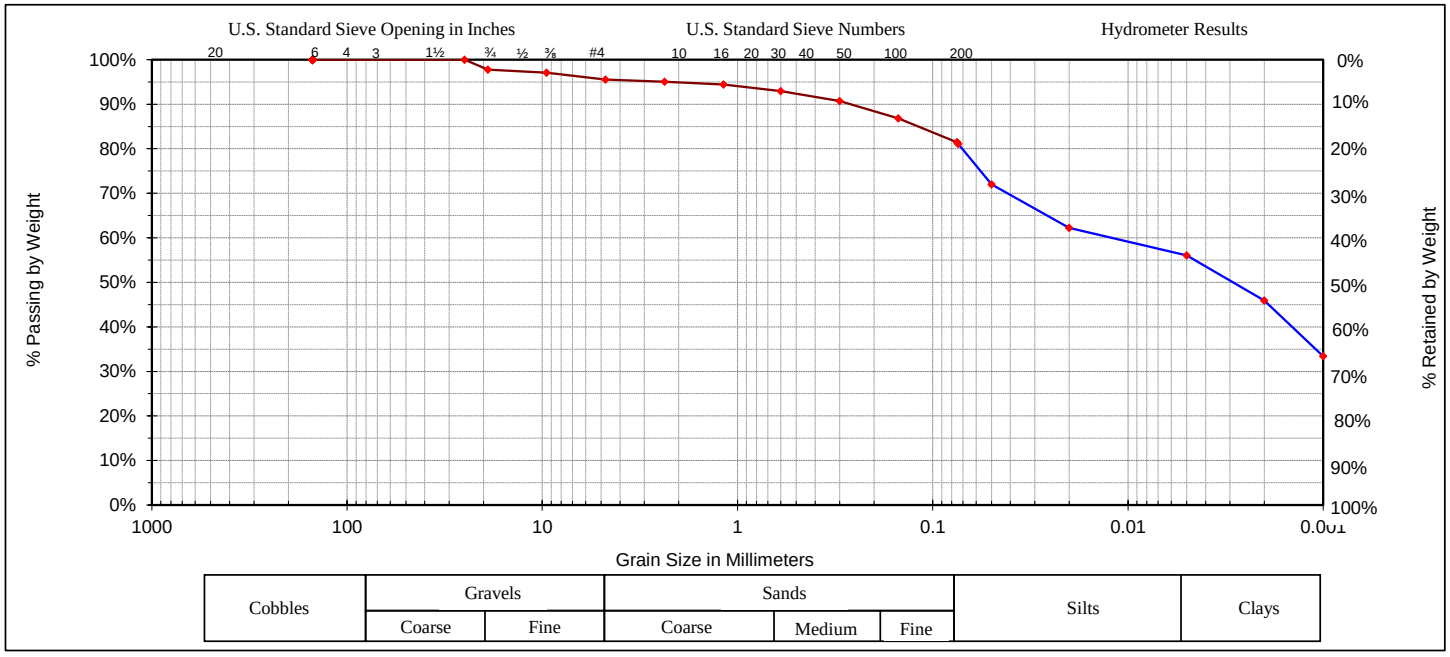
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	97.8%		
16.00 mm			
12.50 mm			
9.50 mm	97.1%		
6.30 mm			
4.75 mm	95.6%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	95.6%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	95.1%		
1.180 mm	94.4%		
0.600 mm	92.9%		
0.300 mm	90.7%		
0.150 mm	86.8%		
0.075 mm	81.4%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	81.1%
0.050 mm	72.0%
0.020 mm	62.2%
0.005 mm	56.0%
0.002 mm	45.9%
0.001 mm	33.4%



USCS Classification: CH

Gradation **% Gravel** 4.4% **% Sand** 14.1% **% Silt & Clay** 81.4%

Silt 25.4%

Clay 56.0%

Reviewed By:

<original signed by>

Comments:

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	11-Sep-20	Report Number:	EMRS-L1-026
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 10 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	423.7			
MASS OF WATER (g)	88.8			
MOISTURE CONTENT	**21.0%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	15-Sep-20	Report Number:	EMRS-L1-026
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 10-SEPT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1656	1729	1646	1576		
MOISTURE CONTENT (W%)	15.4	18.0	21.9	24.4		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1729**
OPTIMUM MC (%): **18.0**

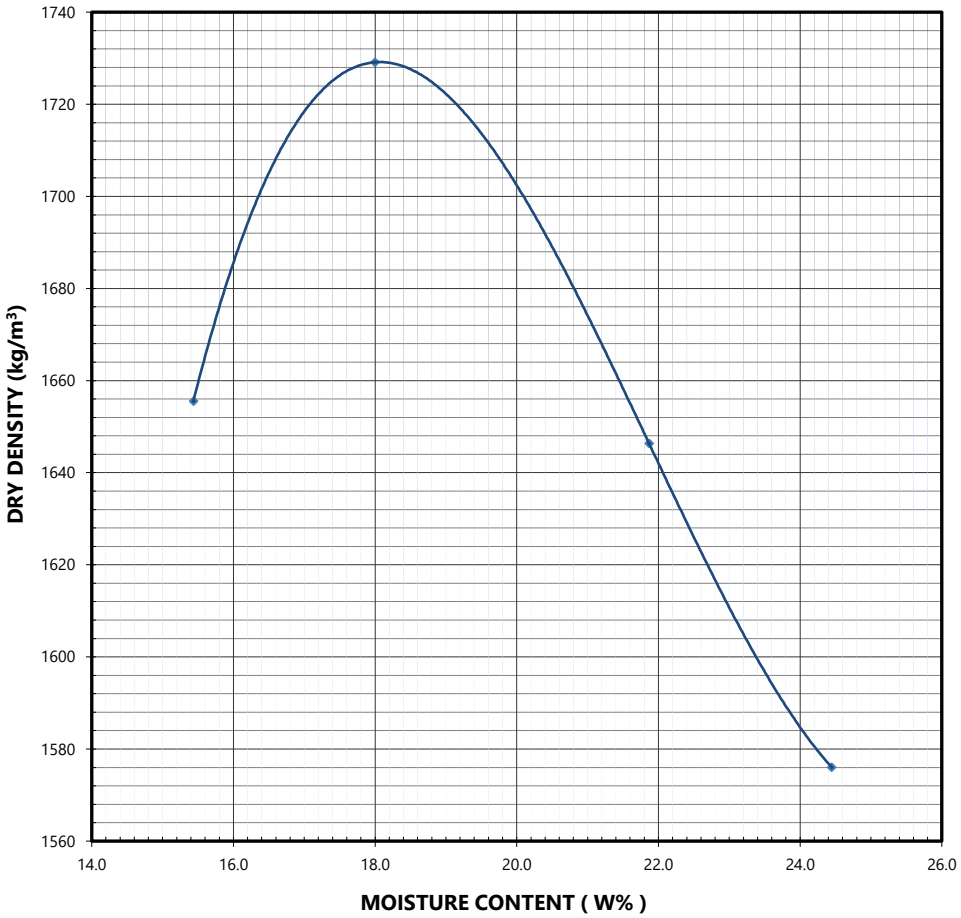
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**21.0**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed <original signed by>

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	16-Sep-20	**Report no.:**	EMRS-L3-027	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L3-027	**Sampled Date:**	11-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

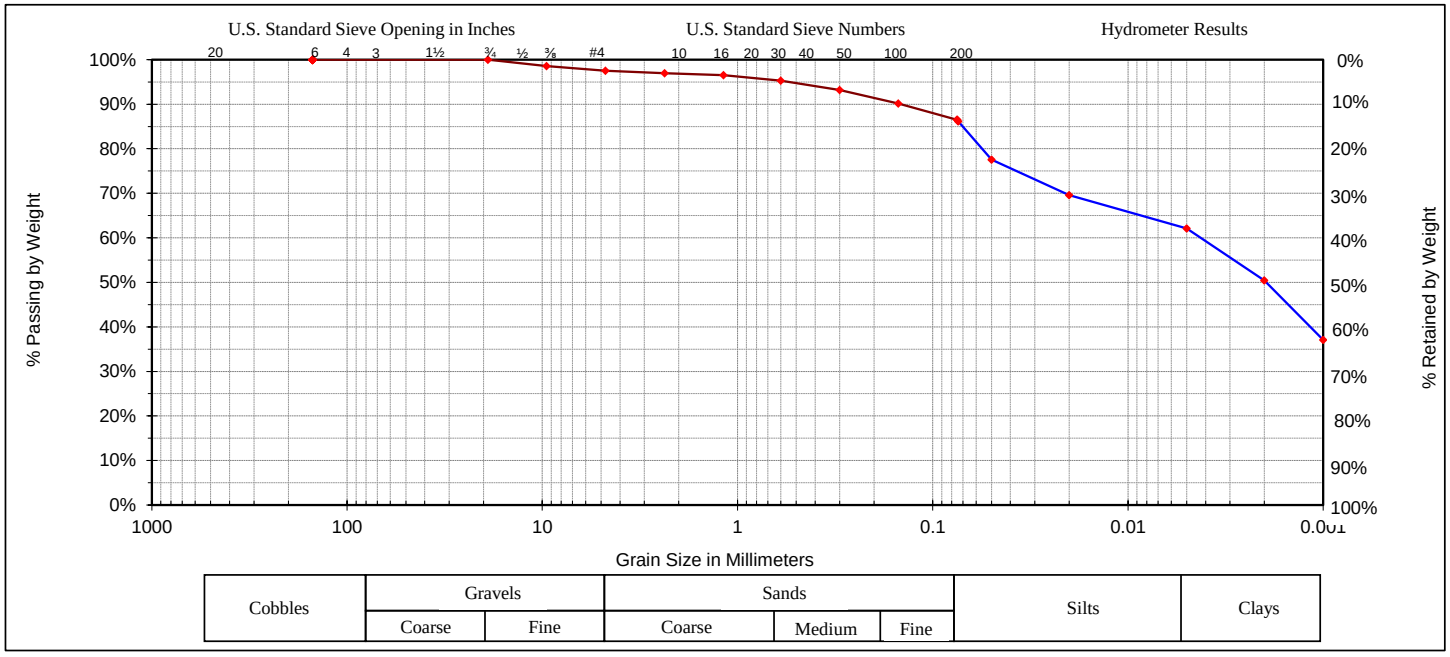
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	98.6%		
6.30 mm			
4.75 mm	97.5%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	97.5%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	97.0%		
1.180 mm	96.5%		
0.600 mm	95.3%		
0.300 mm	93.2%		
0.150 mm	90.2%		
0.075 mm	86.5%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	86.1%
0.050 mm	77.6%
0.020 mm	69.6%
0.005 mm	62.1%
0.002 mm	50.5%
0.001 mm	37.1%



USCS Classification: CH

Gradation **% Gravel** 2.5% **% Sand** 11.0% **% Silt & Clay** 86.5%

Silt 24.4%

Clay 62.1%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	12-Sep-20	Report Number:	RR-EMRS-SS1-P01
File Number:	19SK0095	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Okane / Sept 11 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	615.0			
MASS OF WATER (g)	155.6			
MOISTURE CONTENT	**25.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	12-Sep-20	Report Number:	RR-EMRS-SS1-S01
File Number:	19SK0095	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Okane / Sept 11 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	654.4			
MASS OF WATER (g)	157.9			
MOISTURE CONTENT	**24.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	12-Sep-20	Report Number:	RR-EMRS-SS1-WR
File Number:	19SK0095	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Okane / Sept 11 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	980.7			
MASS OF WATER (g)	21.2			
MOISTURE CONTENT	**2.2%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L2-028	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Sept 13 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Sept 16 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L2-028	Pit Dump	N/A	20.3%	47	13	34	CI	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	21-Sep-20	**Report no.:**	EMRS-L2-028	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-028	**Sampled Date:**	13-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

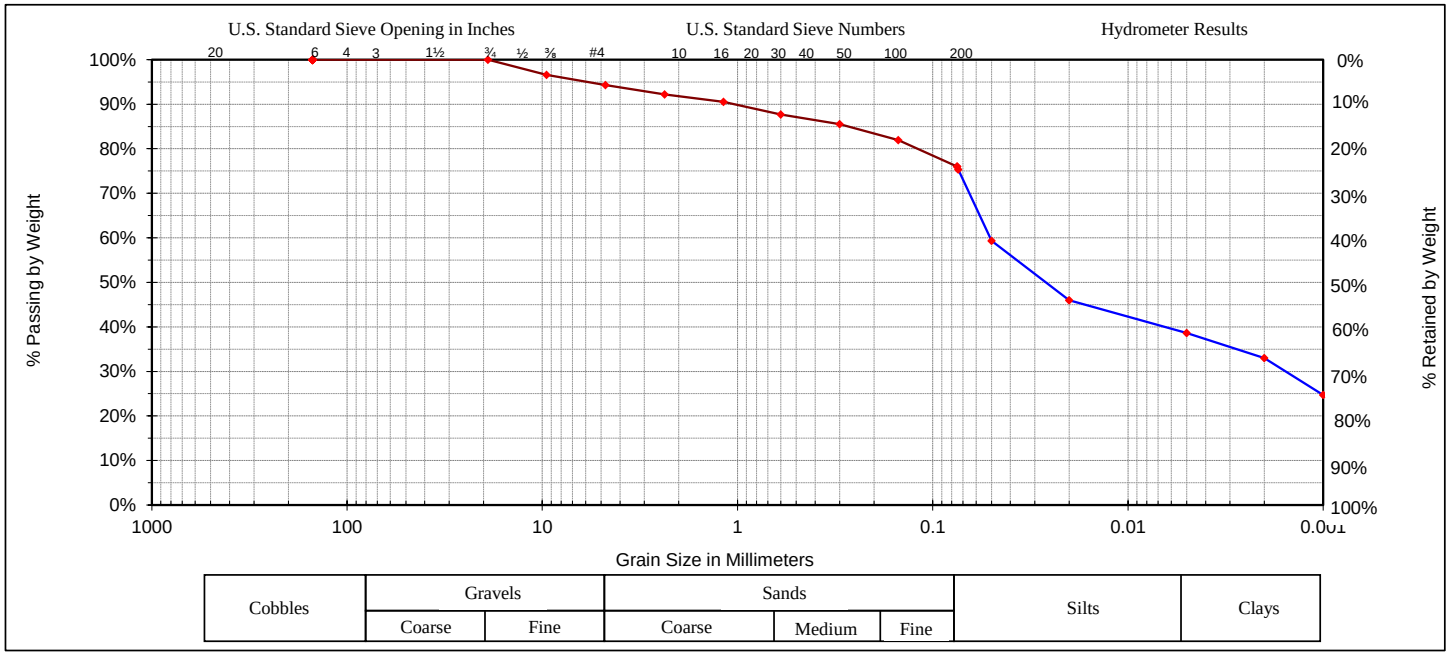
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	96.6%		
6.30 mm			
4.75 mm	94.3%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	94.3%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	92.2%		
1.180 mm	90.5%		
0.600 mm	87.7%		
0.300 mm	85.5%		
0.150 mm	81.9%		
0.075 mm	76.0%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	75.3%
0.050 mm	59.3%
0.020 mm	46.0%
0.005 mm	38.6%
0.002 mm	33.0%
0.001 mm	24.7%



USCS Classification: CI

Gradation **% Gravel** 5.7% **% Sand** 18.3% **% Silt & Clay** 76.0%

Silt 37.4%

Clay 38.6%

Reviewed By:

<original signed by>

Sean Li Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	15-Sep-20	Report Number:	EMRS-L2-028
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 13 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	495.4			
MASS OF WATER (g)	100.4			
MOISTURE CONTENT	**20.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	15-Sep-20	Report Number:	EMRS-L3-029
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 14 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	388.5			
MASS OF WATER (g)	112.2			
MOISTURE CONTENT	**28.9%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	16-Sep-20	Report Number:	EMRS-L2-030
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 15 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	516.2			
MASS OF WATER (g)	109			
MOISTURE CONTENT	**21.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	16-Sep-20	Report Number:	EMRS-L3-031
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 15 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	408.8			
MASS OF WATER (g)	105.3			
MOISTURE CONTENT	**25.8%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	21-Sep-20	**Report no.:**	EMRS-L3-032	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L3-032	**Sampled Date:**	16-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

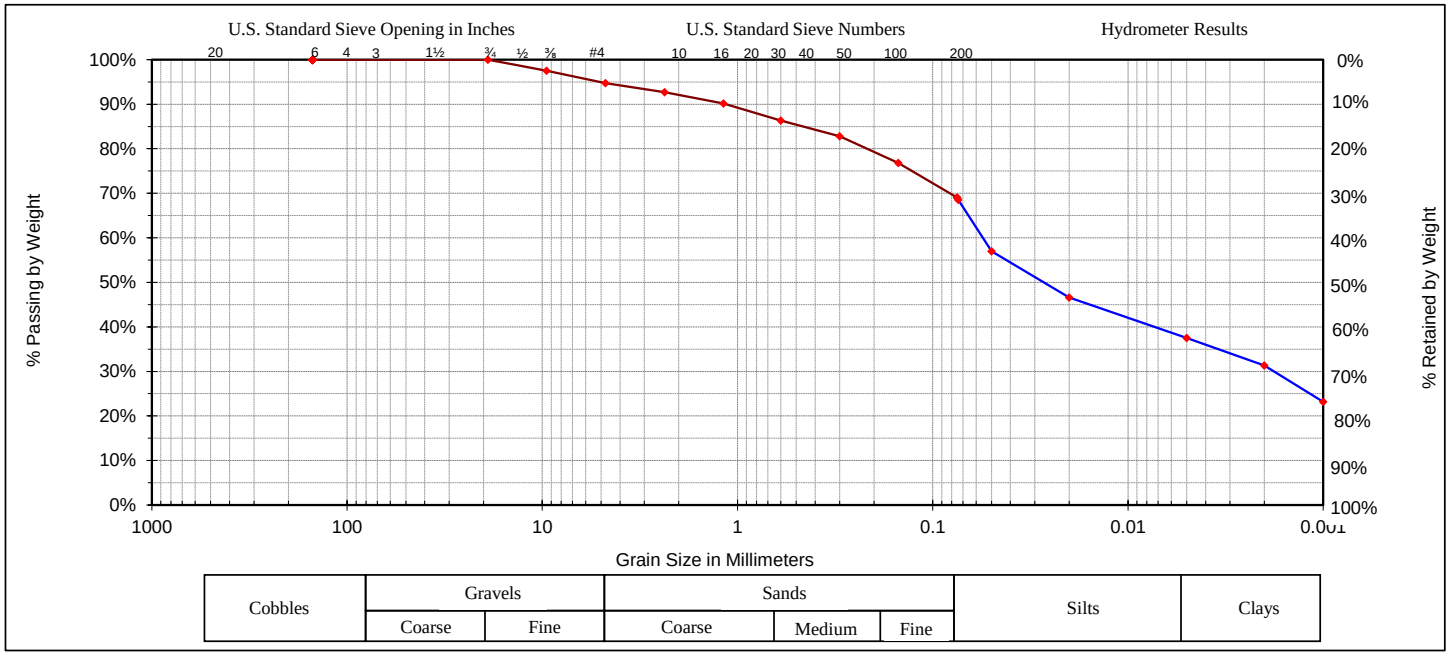
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	97.5%		
6.30 mm			
4.75 mm	94.8%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	94.8%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	92.7%		
1.180 mm	90.1%		
0.600 mm	86.3%		
0.300 mm	82.8%		
0.150 mm	76.8%		
0.075 mm	69.0%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	68.6%
0.050 mm	57.0%
0.020 mm	46.6%
0.005 mm	37.5%
0.002 mm	31.4%
0.001 mm	23.2%



USCS Classification: 0.0%

Gradation **% Gravel** 5.2% **% Sand** 25.7% **% Silt & Clay** 69.0% — **Silt** 31.5%, **Clay** 37.5%

Reviewed By:

<original signed by>

Comments:

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	21-Sep-20	Report Number:	EMRS-L4-033
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 17 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	364.3			
MASS OF WATER (g)	70.2			
MOISTURE CONTENT	**19.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	21-Sep-20	**Report no.:**	EMRS-L4-034	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L4-034	**Sampled Date:**	18-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

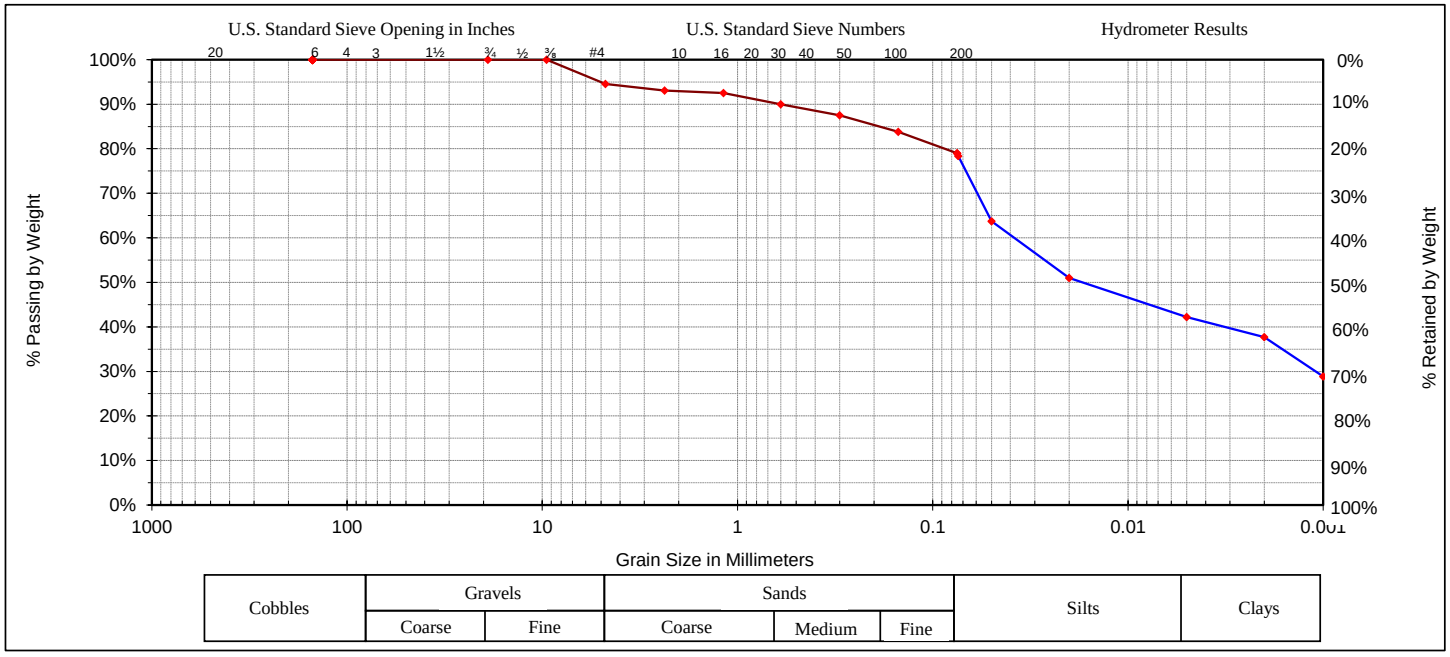
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	100.0%		
6.30 mm			
4.75 mm	94.6%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	94.6%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	93.1%		
1.180 mm	92.5%		
0.600 mm	90.0%		
0.300 mm	87.5%		
0.150 mm	83.8%		
0.075 mm	79.0%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	78.4%
0.050 mm	63.7%
0.020 mm	51.0%
0.005 mm	42.2%
0.002 mm	37.7%
0.001 mm	28.9%



USCS Classification: 0.0%

Gradation **% Gravel** 5.4% **% Sand** 15.6% **% Silt & Clay** 79.0%

Silt 36.8%

Clay 42.2%

Reviewed By:

<original signed by>

Sean Li Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	21-Sep-20	Report Number:	EMRS-L4-034
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 18 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	344.4			
MASS OF WATER (g)	83.3			
MOISTURE CONTENT	**24.2%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	21-Sep-20	Report Number:	EMRS-L4-035
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 20 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	397.8			
MASS OF WATER (g)	86			
MOISTURE CONTENT	**21.6%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	22-Sep-20	Report Number:	EMRS-L4-036
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 21 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	436.5			
MASS OF WATER (g)	97.4			
MOISTURE CONTENT	**22.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-A1-L1-018	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Aug 27 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Aug 30 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-A1-L1-018	Pit Dump	N/A	31.2%	66	19	47	CH	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	1-Sep-20	**Report no.:**	EMRS-A1-L1-018	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-A1-L1-018	**Sampled Date:**	27-Aug-20	**Sample Type:**	Field Sample
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

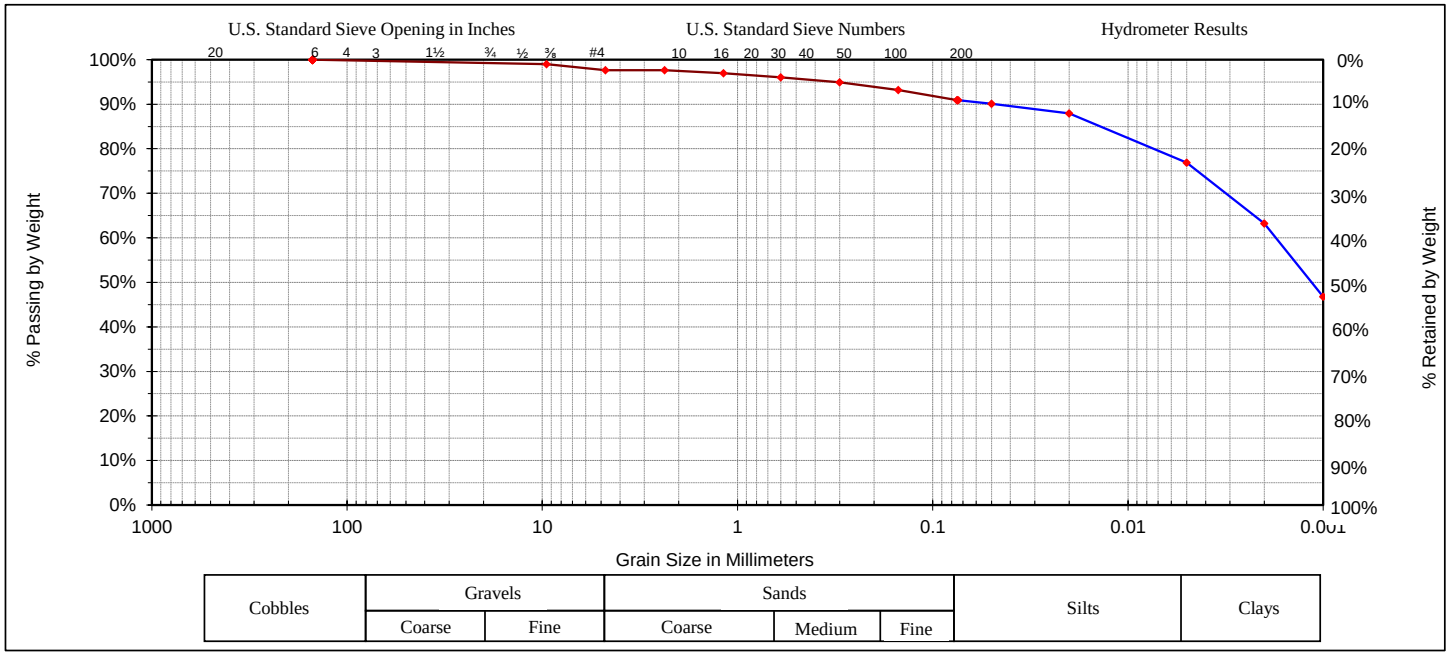
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm			
16.00 mm			
12.50 mm			
9.50 mm	99.0%		
6.30 mm			
4.75 mm	97.6%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	97.6%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	97.6%		
1.180 mm	97.0%		
0.600 mm	96.0%		
0.300 mm	94.9%		
0.150 mm	93.2%		
0.075 mm	90.9%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	90.9%
0.050 mm	90.1%
0.020 mm	87.9%
0.005 mm	76.9%
0.002 mm	63.2%
0.001 mm	46.8%



USCS Classification: CH

Gradation **% Gravel** 2.4% **% Sand** 6.7% **% Silt & Clay** 90.9%

Silt 14.0%

Clay 76.9%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-A1-L2-019	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Aug 27 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Aug 30 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-A1-L2-019	Pit Dump	N/A	28.5%	60	17	43	CH	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	31-Aug-20	**Report no.:**	EMRS-A1-L2-019	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-A1-L2-019	**Sampled Date:**	27-Aug-20	**Sample Type:**	Field Sample
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

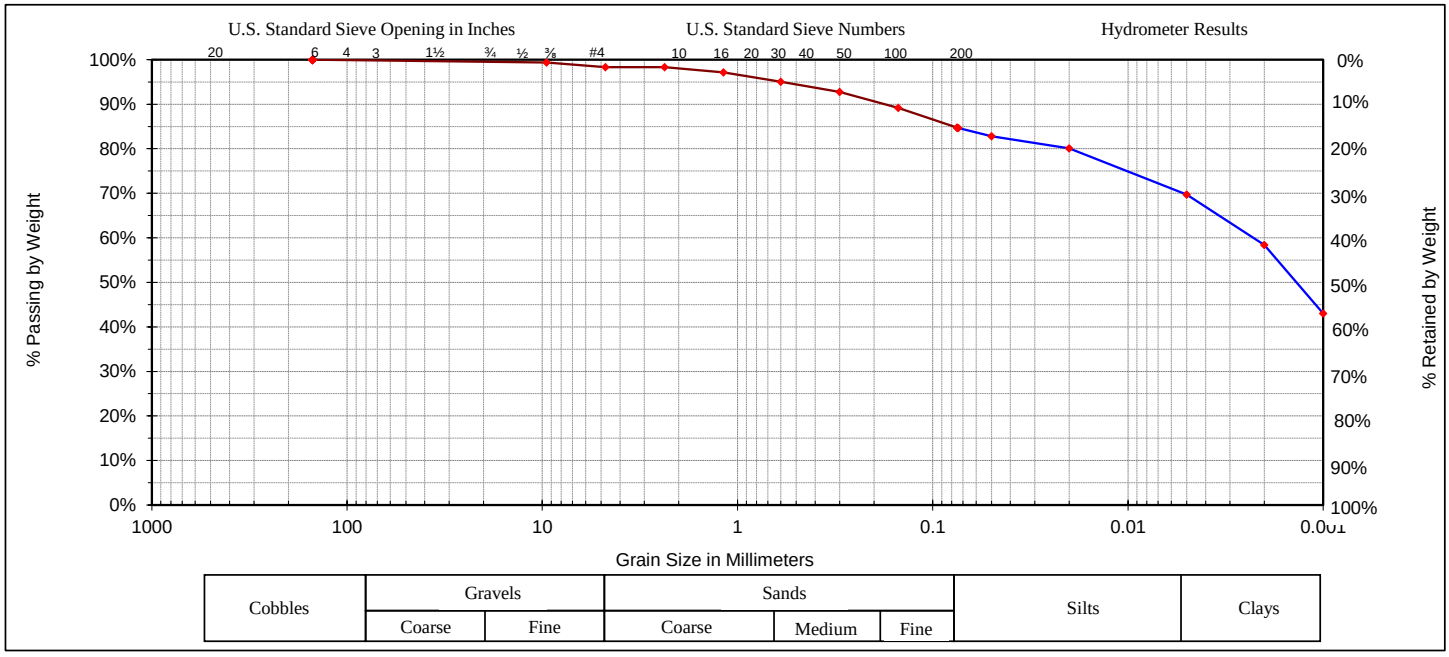
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm			
16.00 mm			
12.50 mm			
9.50 mm	99.4%		
6.30 mm			
4.75 mm	98.3%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	98.3%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	98.3%		
1.180 mm	97.2%		
0.600 mm	95.0%		
0.300 mm	92.8%		
0.150 mm	89.2%		
0.075 mm	84.7%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	84.7%
0.050 mm	82.8%
0.020 mm	80.1%
0.005 mm	69.7%
0.002 mm	58.4%
0.001 mm	43.0%



USCS Classification: CH

Gradation **% Gravel** 1.7% **% Sand** 13.6% **% Silt & Clay** 84.7%

Silt 15.0%

Clay 69.7%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	1-Sep-20	Report Number:	EMRS-A1-L1-018
File Number:	2001417	Contractor:	Okane Consultants
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 27-AUG-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1464	1504	1497	1428		
MOISTURE CONTENT (W%)	21.7	24.6	28.2	30.6		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1512**
OPTIMUM MC (%): **26.3**

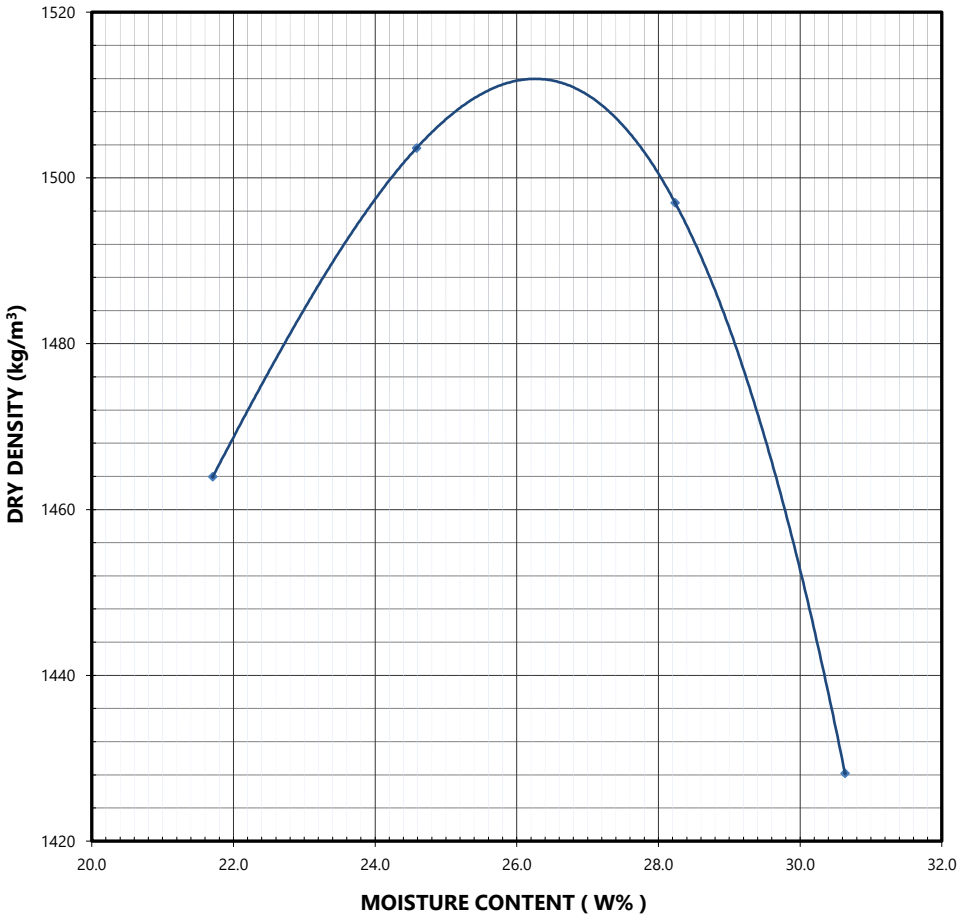
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**31.2**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	1-Sep-20	Report Number:	EMRS-A1-L2-019
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 27-AUG-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1534	1599	1551	1464		
MOISTURE CONTENT (W%)	19.2	22.4	25.6	28.8		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1600**
OPTIMUM MC (%): **22.3**

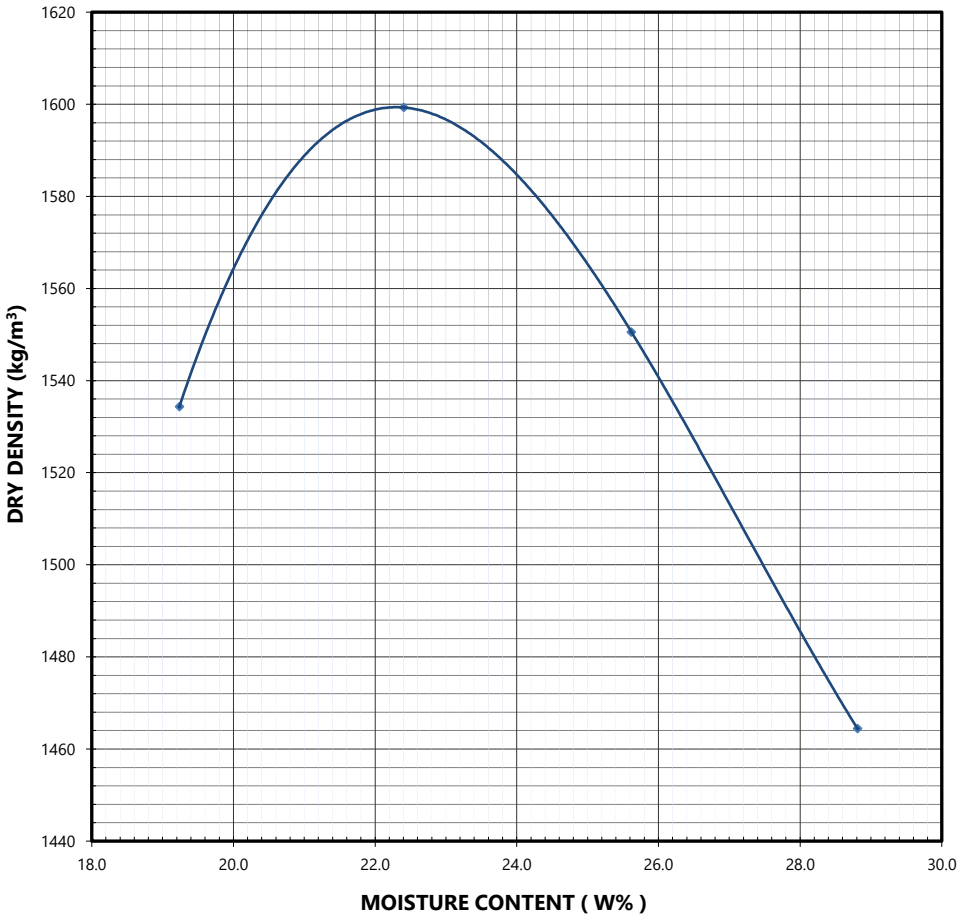
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**28.5**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	28-Aug-20	Report Number:	EMRS-A1-L1-018
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Aug 27 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	412.1			
MASS OF WATER (g)	128.65			
MOISTURE CONTENT	**31.2%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	28-Aug-20	Report Number:	EMRS-A1-L2-019
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Aug 27 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	460.3			
MASS OF WATER (g)	131.2			
MOISTURE CONTENT	**28.5%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	30-Aug-20	Report Number:	EMRS-L2-020
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Aug 29 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	456.4			
MASS OF WATER (g)	111.4			
MOISTURE CONTENT	**24.4%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	31-Aug-20	Report Number:	EMRS-L1-021
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Aug 30 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	449.1			
MASS OF WATER (g)	123.3			
MOISTURE CONTENT	**27.5%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	3-Sep-20	Report Number:	EMRS-L1-021
File Number:	2001417	Contractor:	Okane Consultants
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 30-AUG-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1601	1687	1693	1626		
MOISTURE CONTENT (W%)	13.5	16.6	19.5	22.4		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1700**
OPTIMUM MC (%): **18.2**

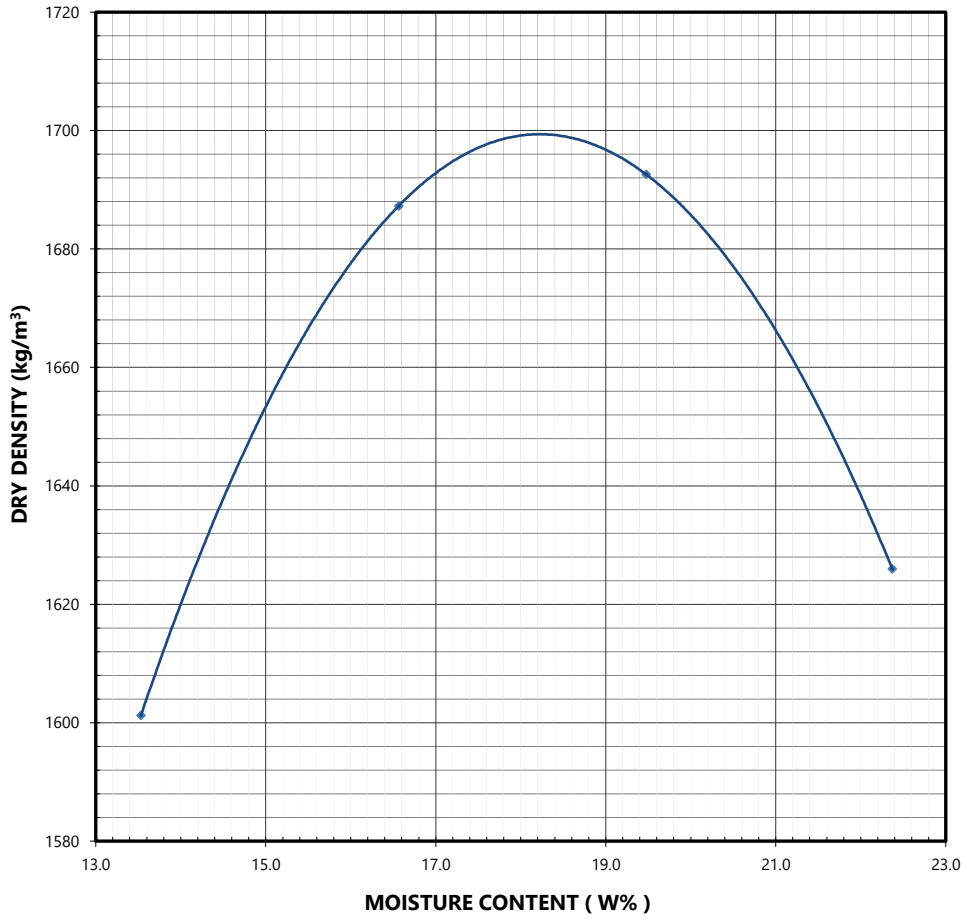
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**27.5**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	3-Sep-20	Report Number:	EMRS-L2-022
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 02 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	531.8			
MASS OF WATER (g)	122.7			
MOISTURE CONTENT	**23.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	6-Sep-20	Report Number:	EMRS-L2-024
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 05 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	549.8			
MASS OF WATER (g)	133			
MOISTURE CONTENT	**24.2%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	10-Sep-20	Report Number:	EMRS-L2-024
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 05-SEPT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1468	1600	1607	1536		
MOISTURE CONTENT (W%)	16.8	20.0	23.5	25.9		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1621**
OPTIMUM MC (%): **21.9**

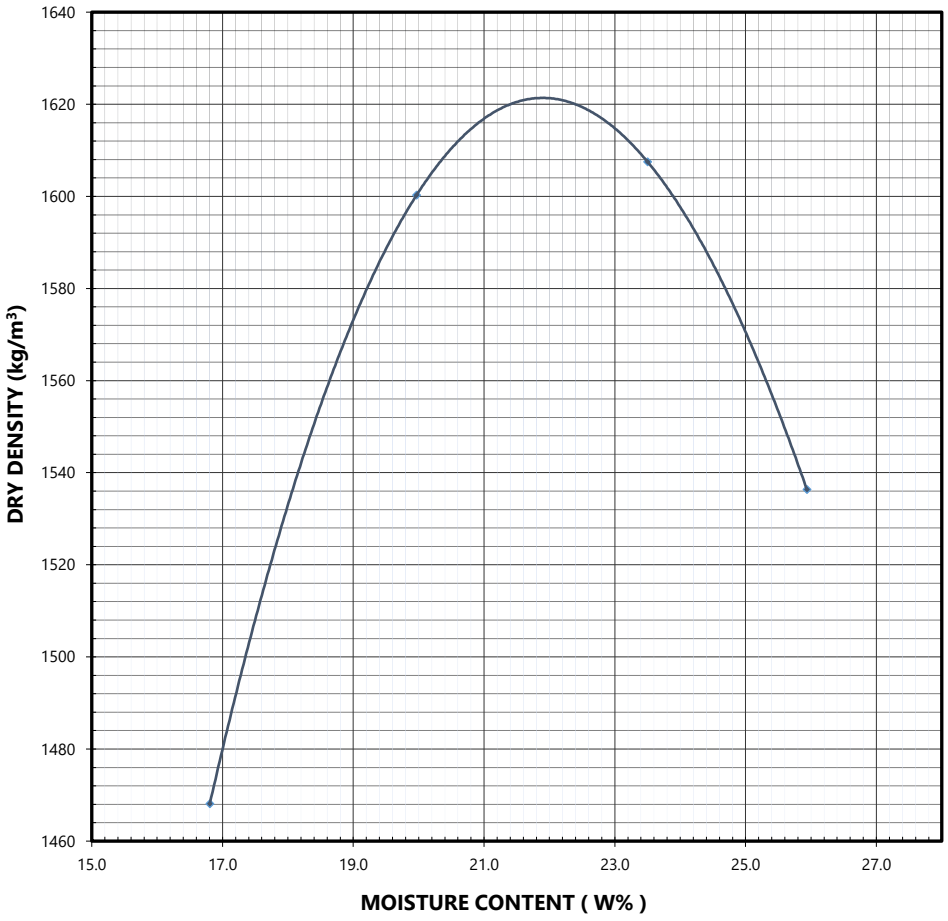
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**24.2**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	10-Sep-20	Report Number:	EMRS-L3-025
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 09 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	524.1			
MASS OF WATER (g)	131.7			
MOISTURE CONTENT	**25.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L1-026	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Sept 10 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Sept 14 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L1-026	Pit Dump	N/A	31.2%	42	14	28	CI	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	15-Sep-20	**Report no.:**	EMRS-L1-026	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-026	**Sampled Date:**	10-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

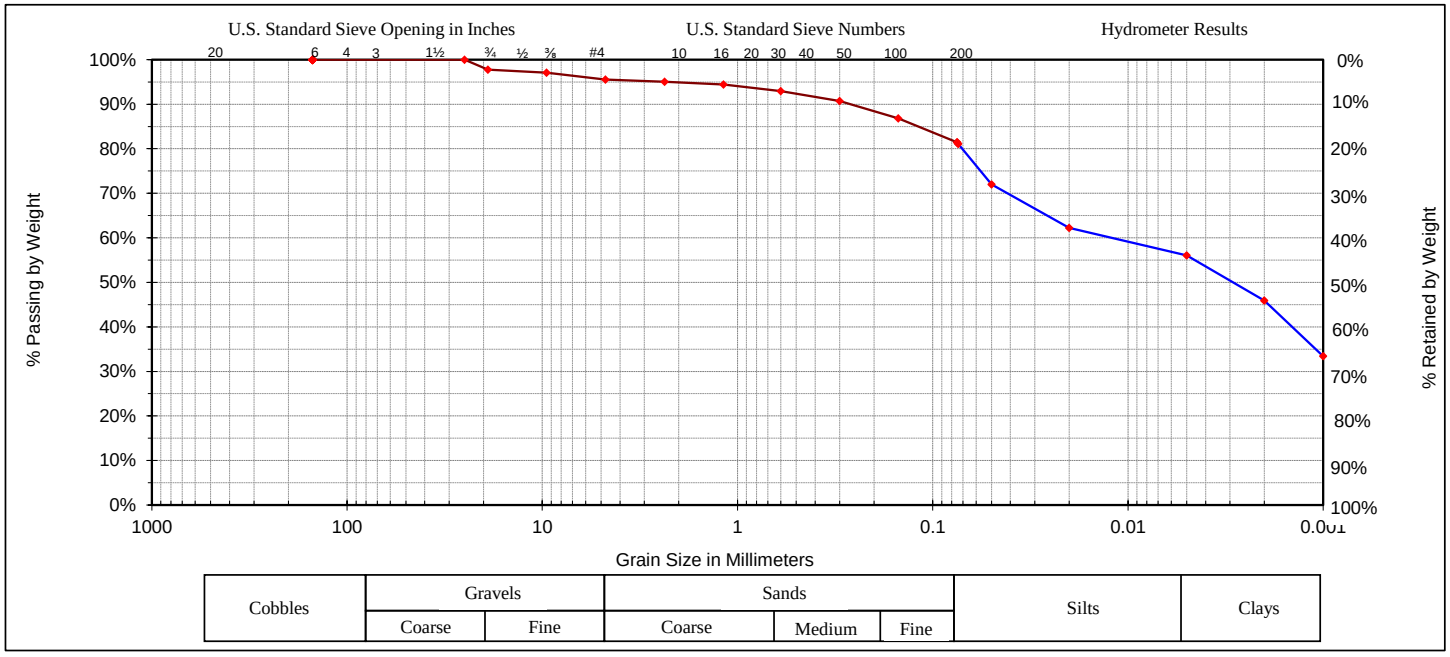
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	97.8%		
16.00 mm			
12.50 mm			
9.50 mm	97.1%		
6.30 mm			
4.75 mm	95.6%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	95.6%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	95.1%		
1.180 mm	94.4%		
0.600 mm	92.9%		
0.300 mm	90.7%		
0.150 mm	86.8%		
0.075 mm	81.4%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	81.1%
0.050 mm	72.0%
0.020 mm	62.2%
0.005 mm	56.0%
0.002 mm	45.9%
0.001 mm	33.4%



USCS Classification: CH

Gradation **% Gravel** 4.4% **% Sand** 14.1% **% Silt & Clay** 81.4%

Silt 25.4%

Clay 56.0%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	11-Sep-20	Report Number:	EMRS-L1-026
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 10 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	423.7			
MASS OF WATER (g)	88.8			
MOISTURE CONTENT	**21.0%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	15-Sep-20	Report Number:	EMRS-L1-026
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 10-SEPT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS						
TRIAL NUMBER	**1**	**2**	**3**	**4**	**5**	**6**
DRY DENSITY (kg/m³)	1656	1729	1646	1576		
MOISTURE CONTENT (W%)	15.4	18.0	21.9	24.4		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³):	**1729**
OPTIMUM MC (%):	**18.0**

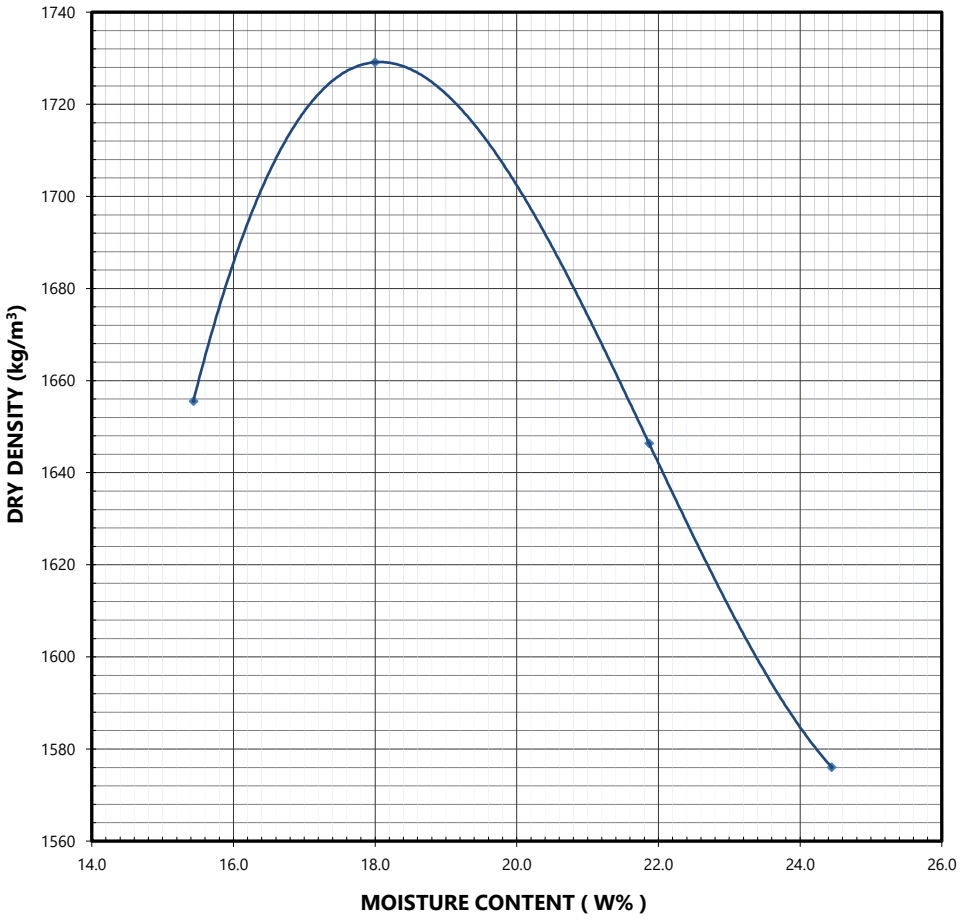
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):	
CORR. DENSITY (kg/m³):	
CORR. MC (%):	

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**21.0**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	16-Sep-20	**Report no.:**	EMRS-L3-027	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L3-027	**Sampled Date:**	11-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

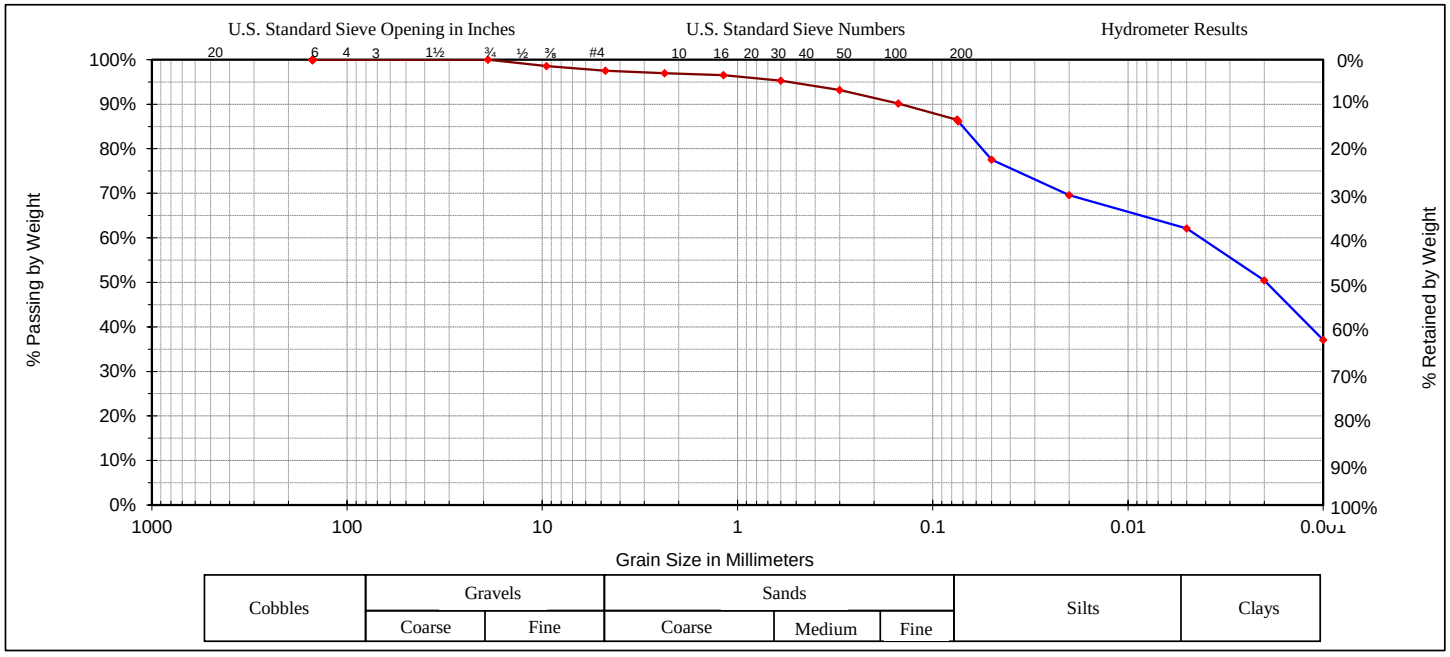
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	98.6%		
6.30 mm			
4.75 mm	97.5%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	97.5%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	97.0%		
1.180 mm	96.5%		
0.600 mm	95.3%		
0.300 mm	93.2%		
0.150 mm	90.2%		
0.075 mm	86.5%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	86.1%
0.050 mm	77.6%
0.020 mm	69.6%
0.005 mm	62.1%
0.002 mm	50.5%
0.001 mm	37.1%



USCS Classification: CH

Gradation **% Gravel** 2.5% **% Sand** 11.0% **% Silt & Clay** 86.5%

Silt 24.4%

Clay 62.1%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	12-Sep-20	Report Number:	RR-EMRS-SS1-P01
File Number:	19SK0095	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Okane / Sept 11 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	615.0			
MASS OF WATER (g)	155.6			
MOISTURE CONTENT	**25.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	12-Sep-20	Report Number:	RR-EMRS-SS1-S01
File Number:	19SK0095	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Okane / Sept 11 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	654.4			
MASS OF WATER (g)	157.9			
MOISTURE CONTENT	**24.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	12-Sep-20	Report Number:	RR-EMRS-SS1-WR
File Number:	19SK0095	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Okane / Sept 11 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	980.7			
MASS OF WATER (g)	21.2			
MOISTURE CONTENT	**2.2%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L2-028	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Sept 13 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Sept 16 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L2-028	Pit Dump	N/A	20.3%	47	13	34	CI	Clay

Remarks: .

<original signed by>

Reviewed By:
Joe Harvey Materails Tech

Data presented hereon is for the sole use of the stipulated client. Allnorth is not responsible, nor can be held liable, for use made of this report by any other party, with or without the knowledge of Allnorth. The testing services reported herein have been performed by an Allnorth technician to recognized industry standards, unless otherwise noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, Allnorth will provide it upon written request.

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	15-Sep-20	Report Number:	EMRS-L2-028
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 13 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	495.4			
MASS OF WATER (g)	100.4			
MOISTURE CONTENT	**20.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	15-Sep-20	Report Number:	EMRS-L3-029
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 14 2020
Location:	Reclamation Pad	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	388.5			
MASS OF WATER (g)	112.2			
MOISTURE CONTENT	**28.9%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	16-Sep-20	Report Number:	EMRS-L2-030
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 15 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	516.2			
MASS OF WATER (g)	109			
MOISTURE CONTENT	**21.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	16-Sep-20	Report Number:	EMRS-L3-031
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 15 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	408.8			
MASS OF WATER (g)	105.3			
MOISTURE CONTENT	**25.8%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	30-Sep-20	**Report no.:**	EMRS-L1-039	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-039	**Sampled Date:**	25-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

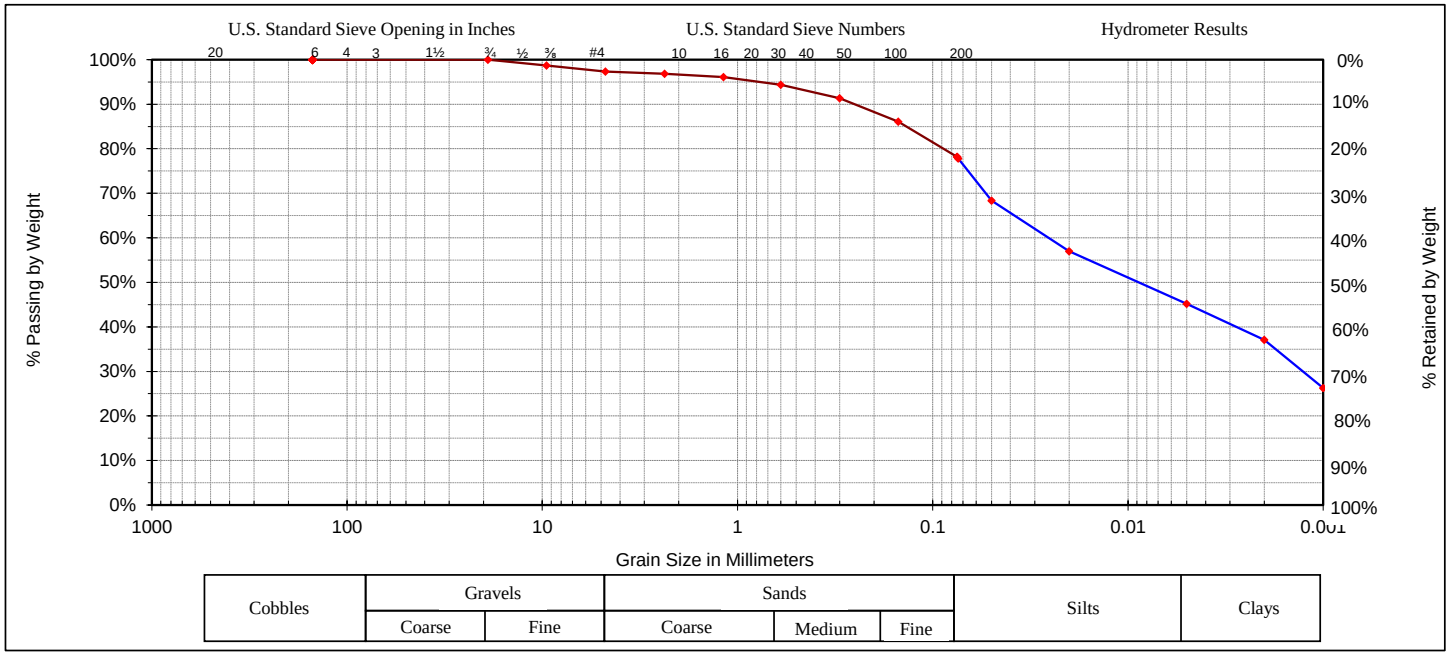
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	98.7%		
6.30 mm			
4.75 mm	97.4%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	97.4%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	96.8%		
1.180 mm	96.1%		
0.600 mm	94.3%		
0.300 mm	91.3%		
0.150 mm	86.1%		
0.075 mm	78.2%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	77.8%
0.050 mm	68.4%
0.020 mm	57.0%
0.005 mm	45.2%
0.002 mm	37.1%
0.001 mm	26.3%



USCS Classification: 0.0%

Gradation **% Gravel** 2.6% **% Sand** 19.2% **% Silt & Clay** 78.2%

Silt 33.0%

Clay 45.2%

Comments:

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	30-Sep-20	**Report no.:**	EMRS-L1-040	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-040	**Sampled Date:**	25-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

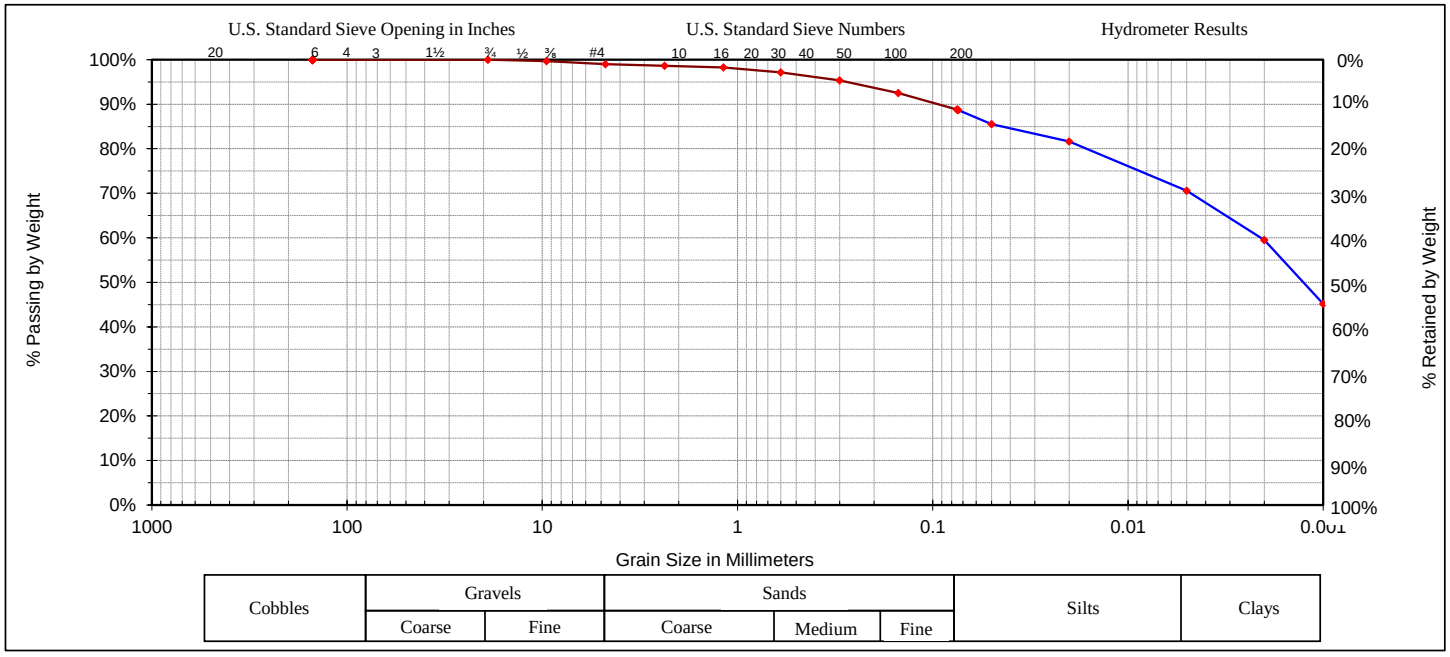
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	99.7%		
6.30 mm			
4.75 mm	99.0%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	99.0%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	98.7%		
1.180 mm	98.3%		
0.600 mm	97.1%		
0.300 mm	95.3%		
0.150 mm	92.5%		
0.075 mm	88.8%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	88.7%
0.050 mm	85.5%
0.020 mm	81.6%
0.005 mm	70.6%
0.002 mm	59.5%
0.001 mm	45.2%



USCS Classification: 0.0%

Gradation **% Gravel** 1.0% **% Sand** 10.2% **% Silt & Clay** 88.8%

Silt 18.2%

Clay 70.6%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	30-Sep-20	**Report no.:**	EMRS-L1-041	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-041	**Sampled Date:**	25-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

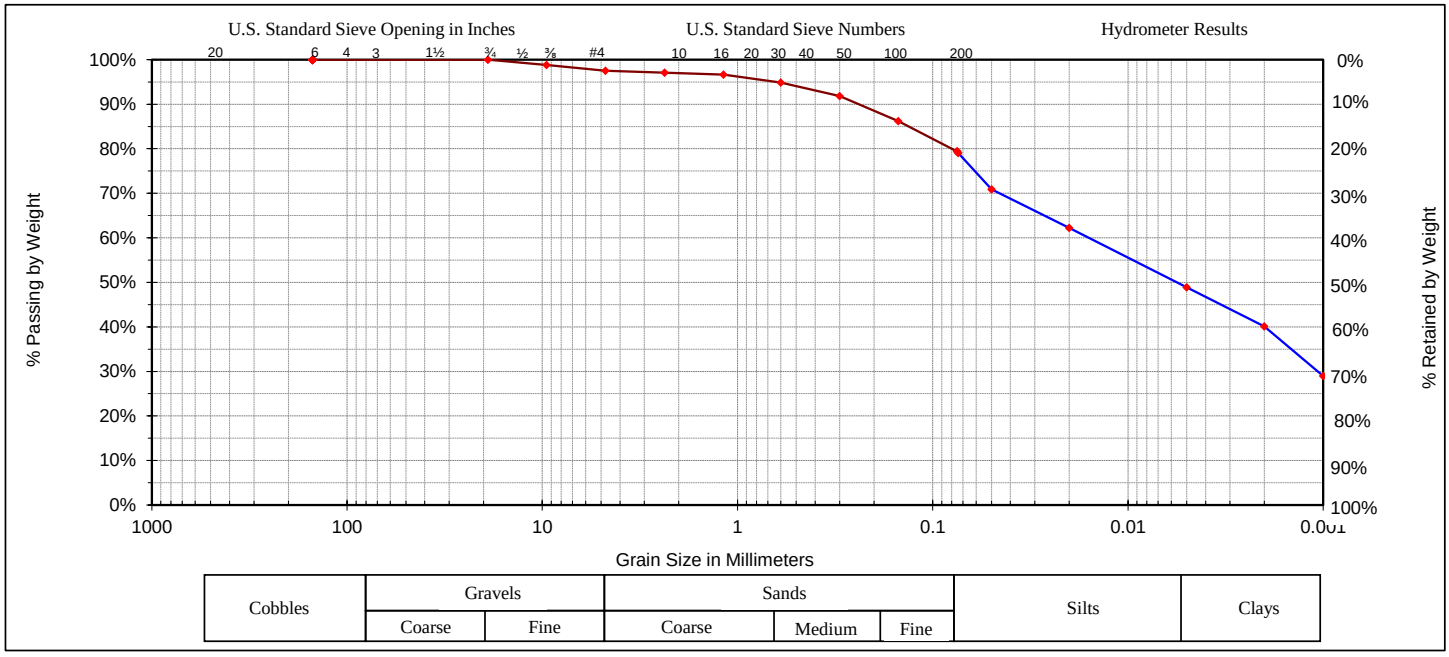
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	98.8%		
6.30 mm			
4.75 mm	97.5%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	97.5%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	97.1%		
1.180 mm	96.7%		
0.600 mm	94.9%		
0.300 mm	91.8%		
0.150 mm	86.2%		
0.075 mm	79.4%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	79.0%
0.050 mm	70.9%
0.020 mm	62.2%
0.005 mm	48.9%
0.002 mm	40.1%
0.001 mm	29.0%



USCS Classification: 0.0%

Gradation **% Gravel** 2.5% **% Sand** 18.1% **% Silt & Clay** 79.4% — **Silt** 30.5%, **Clay** 48.9%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	29-Sep-20	Report Number:	EMRS-L1-042
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 26-SEPT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1615	1709	1646	1552		
MOISTURE CONTENT (W%)	17.9	20.6	23.9	26.1		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1710**
OPTIMUM MC (%): **20.9**

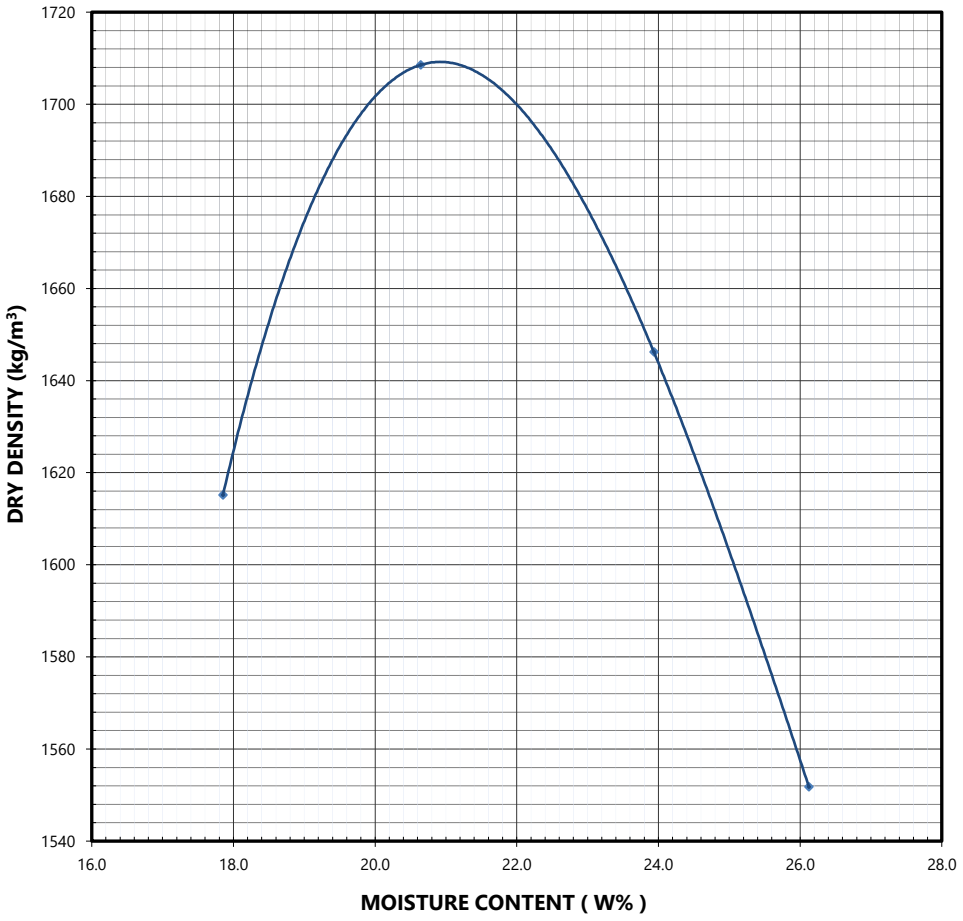
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**0.2**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	30-Sep-20	Report Number:	EMRS-L1-043
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 26-SEPT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS						
TRIAL NUMBER	**1**	**2**	**3**	**4**	**5**	**6**
DRY DENSITY (kg/m³)	1453	1531	1565	1541	1420	
MOISTURE CONTENT (W%)	16.9	19.9	23.0	26.1	30.0	

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³):	**1565**
OPTIMUM MC (%):	**23.3**

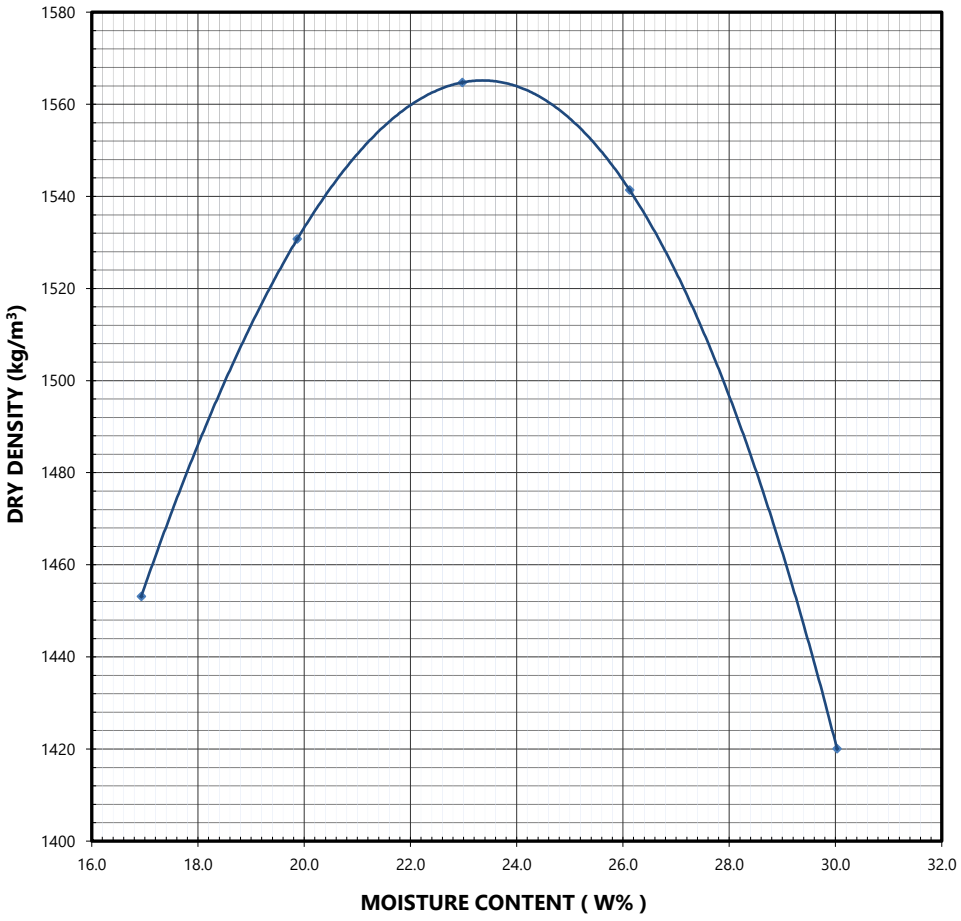
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):	
CORR. DENSITY (kg/m³):	
CORR. MC (%):	

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**23.0**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	30-Sep-20	**Report no.:**	EMRS-L1-044	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-044	**Sampled Date:**	26-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

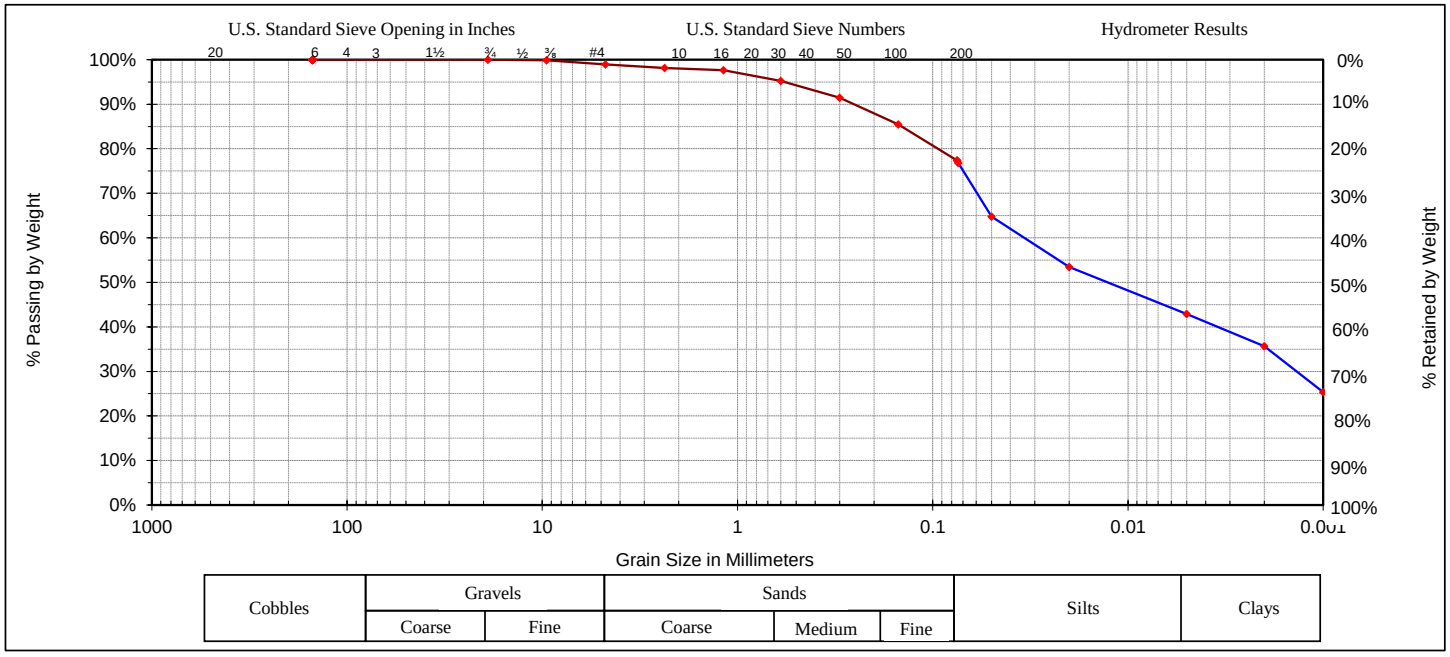
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	99.8%		
6.30 mm			
4.75 mm	98.9%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	98.9%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	98.2%		
1.180 mm	97.6%		
0.600 mm	95.2%		
0.300 mm	91.5%		
0.150 mm	85.4%		
0.075 mm	77.3%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	76.8%
0.050 mm	64.7%
0.020 mm	53.4%
0.005 mm	42.9%
0.002 mm	35.6%
0.001 mm	25.4%



USCS Classification: 0.0%

Gradation **% Gravel** 1.1% **% Sand** 21.6% **% Silt & Clay** 77.3%

Silt 34.5%

Clay 42.9%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L2-045	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Sept 27 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Oct 01 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L2-045	Pit Dump	N/A	32.8%	43	14	29	CI	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

Data presented hereon is for the sole use of the stipulated client. Allnorth is not responsible, nor can be held liable, for use made of this report by any other party, with or without the knowledge of Allnorth. The testing services reported herein have been performed by an Allnorth technician to recognized industry standards, unless otherwise noted. No other warranty is made. These data do not include or represent any interpretation or opinion of specification compliance or material suitability. Should engineering interpretation be required, Allnorth will provide it upon written request.

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	1-Oct-20	**Report no.:**	EMRS-L2-045	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-045	**Sampled Date:**	27-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

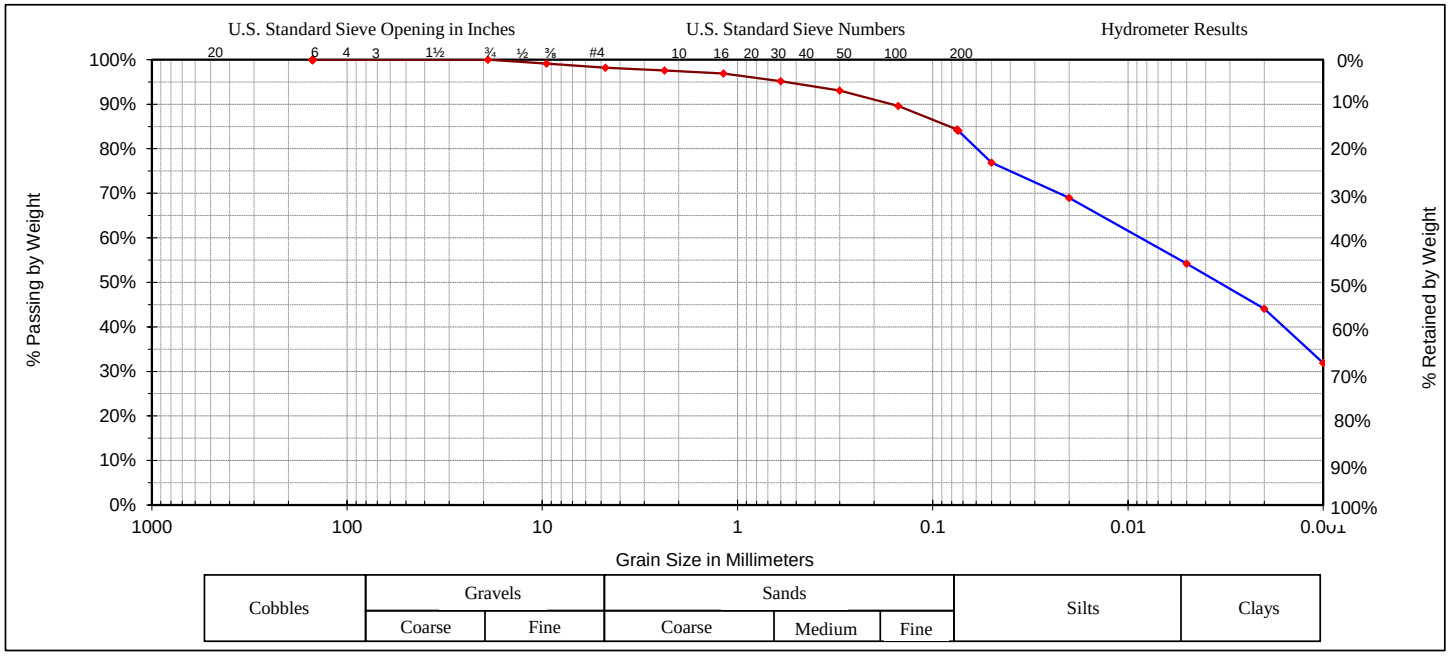
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	99.1%		
6.30 mm			
4.75 mm	98.2%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	98.2%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	97.6%		
1.180 mm	96.9%		
0.600 mm	95.2%		
0.300 mm	93.1%		
0.150 mm	89.6%		
0.075 mm	84.3%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	84.0%
0.050 mm	76.9%
0.020 mm	68.9%
0.005 mm	54.2%
0.002 mm	44.1%
0.001 mm	31.9%



USCS Classification: 0.0%

Gradation **% Gravel** 1.8% **% Sand** 13.9% **% Silt & Clay** 84.3%

Silt 30.1%

Clay 54.2%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	1-Oct-20	Report Number:	EMRS-L2-045
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 27-SEPT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS

TRIAL NUMBER	1	2	3	4	5	6
DRY DENSITY (kg/m³)	1617	1722	1737	1631		
MOISTURE CONTENT (W%)	13.0	15.8	19.0	22.6		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1744**
OPTIMUM MC (%): **17.9**

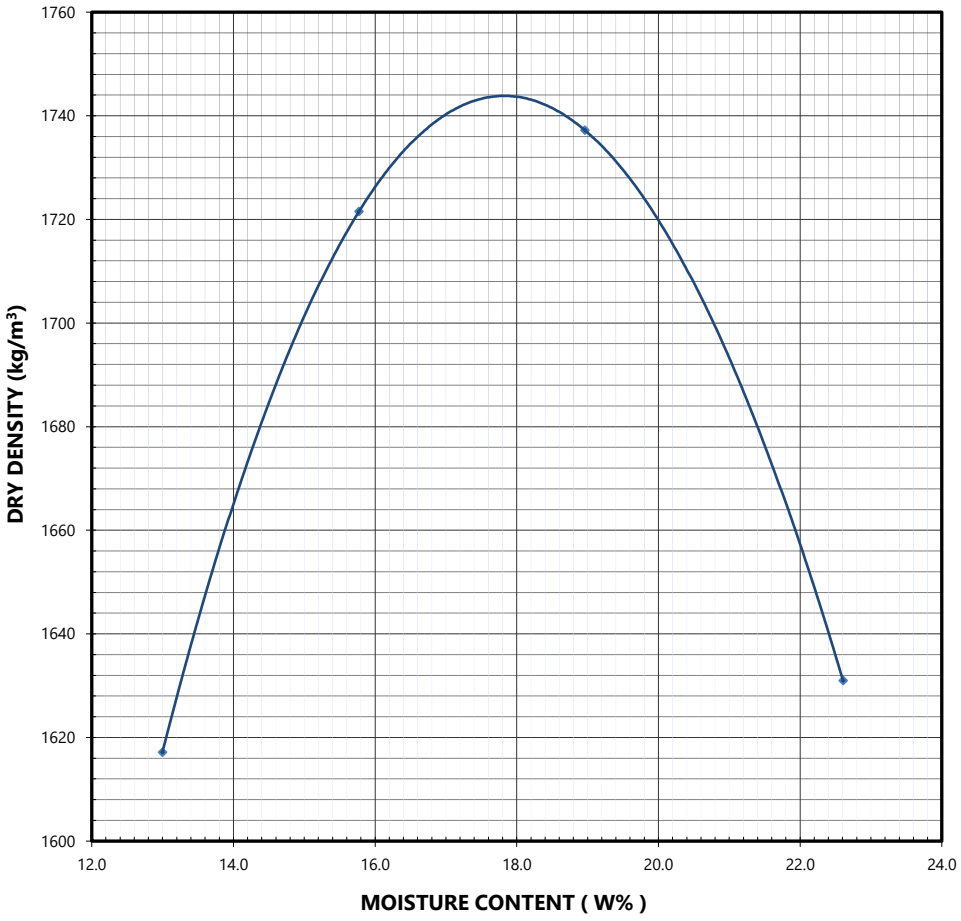
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**32.8%**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	1-Oct-20	**Report no.:**	EMRS-L2-046	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-046	**Sampled Date:**	27-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

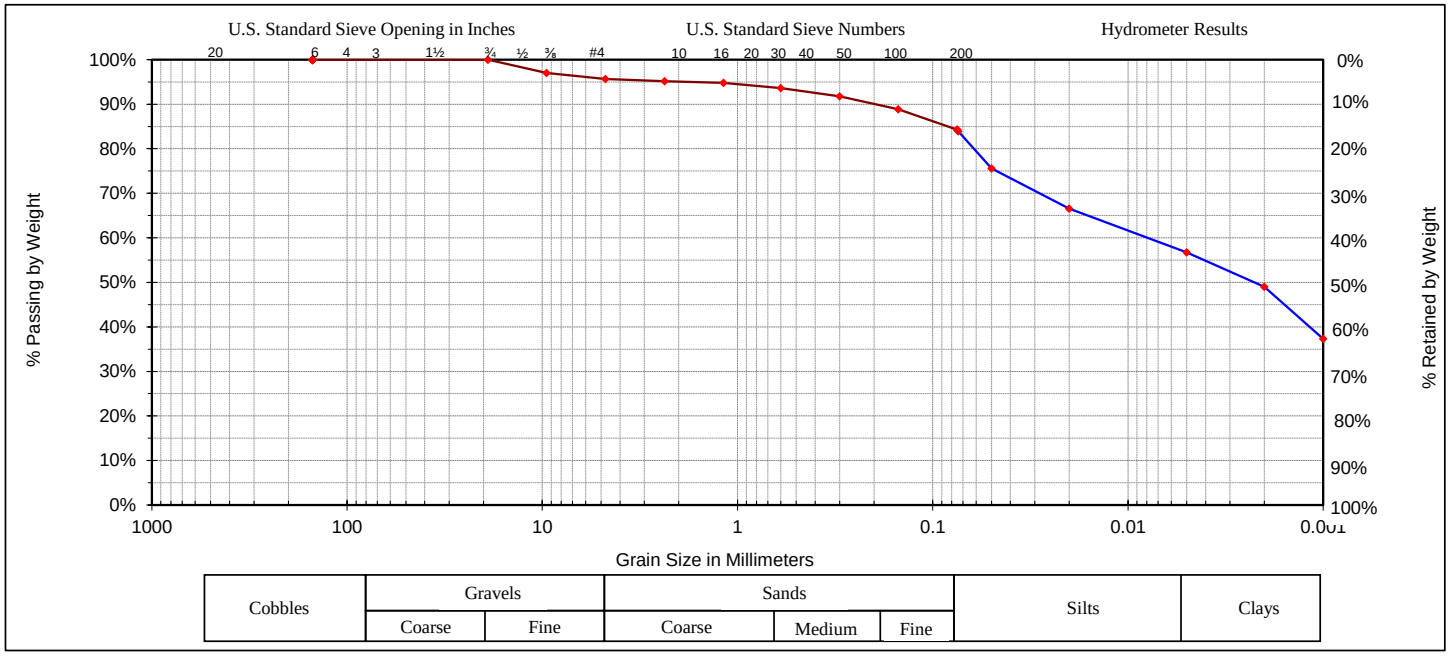
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	97.0%		
6.30 mm			
4.75 mm	95.6%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	95.6%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	95.2%		
1.180 mm	94.8%		
0.600 mm	93.6%		
0.300 mm	91.8%		
0.150 mm	88.9%		
0.075 mm	84.3%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	83.9%
0.050 mm	75.6%
0.020 mm	66.6%
0.005 mm	56.7%
0.002 mm	49.0%
0.001 mm	37.3%



USCS Classification: 0.0%

Gradation **% Gravel** 4.4% **% Sand** 11.4% **% Silt & Clay** 84.3%

Silt 27.6%

Clay 56.7%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	1-Oct-20	**Report no.:**	EMRS-L2-047	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-047	**Sampled Date:**	27-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

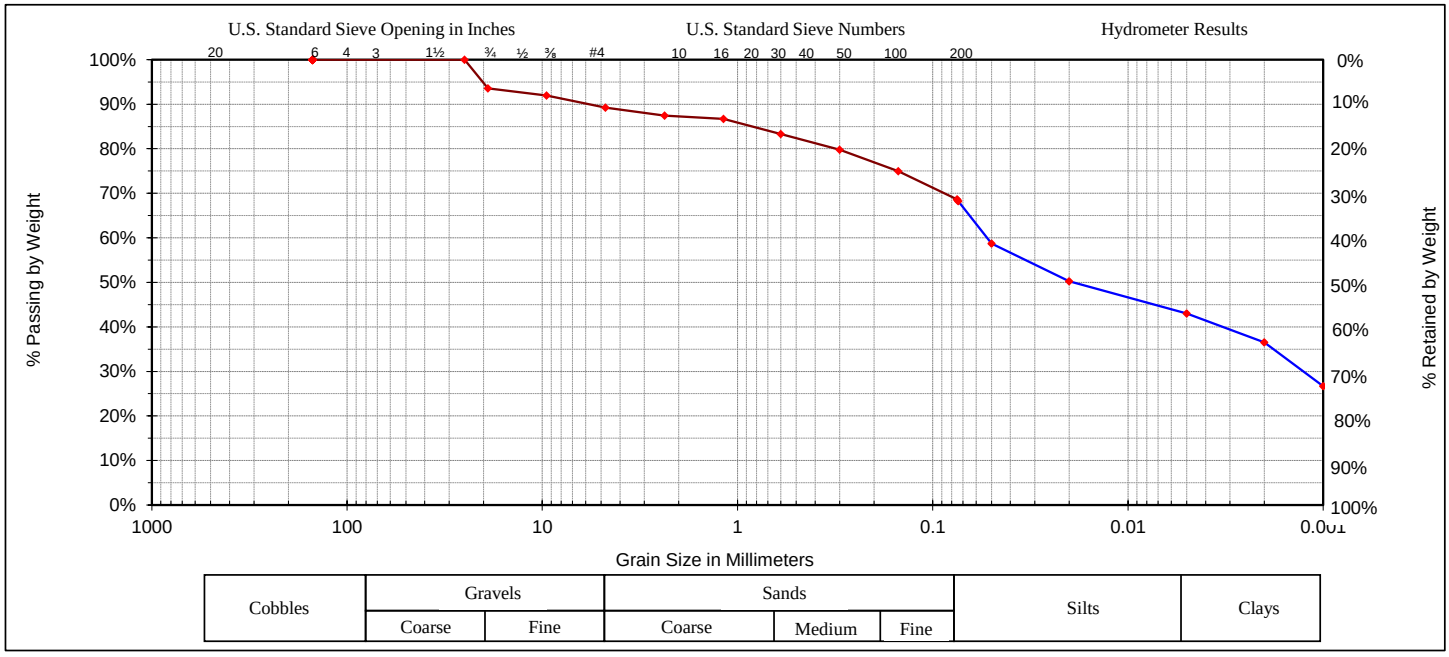
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	93.5%		
16.00 mm			
12.50 mm			
9.50 mm	92.0%		
6.30 mm			
4.75 mm	89.2%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	89.2%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	87.4%		
1.180 mm	86.7%		
0.600 mm	83.3%		
0.300 mm	79.8%		
0.150 mm	75.0%		
0.075 mm	68.6%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	68.2%
0.050 mm	58.7%
0.020 mm	50.2%
0.005 mm	43.0%
0.002 mm	36.5%
0.001 mm	26.7%



USCS Classification: 0.0%

Gradation **% Gravel** 10.8% **% Sand** 20.6% **% Silt & Clay** 68.6%

Silt 25.6%

Clay 43.0%

Reviewed By:

<original signed by>

Comments:

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	2-Oct-20	**Report no.:**	EMRS-L3-048	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L3-048	**Sampled Date:**	28-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

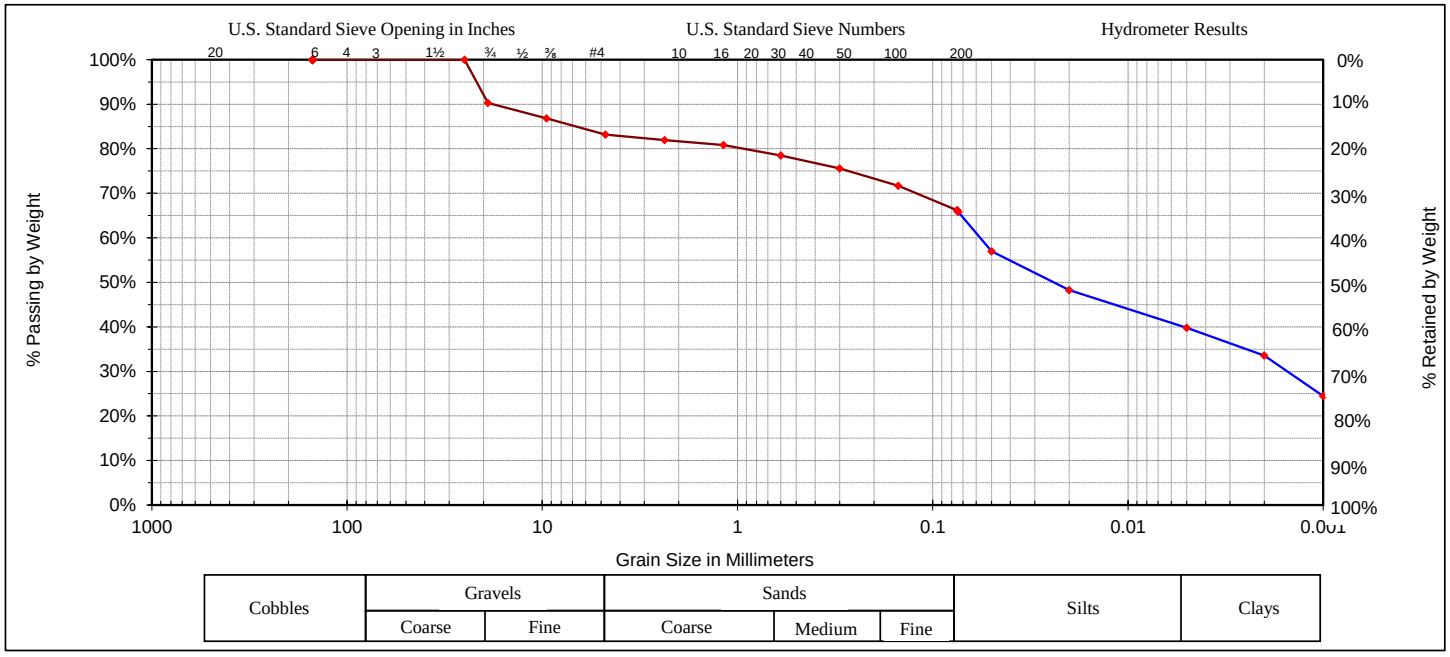
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	90.3%		
16.00 mm			
12.50 mm			
9.50 mm	86.8%		
6.30 mm			
4.75 mm	83.2%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	83.2%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	82.0%		
1.180 mm	80.8%		
0.600 mm	78.5%		
0.300 mm	75.6%		
0.150 mm	71.7%		
0.075 mm	66.2%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	65.8%
0.050 mm	56.9%
0.020 mm	48.2%
0.005 mm	39.8%
0.002 mm	33.6%
0.001 mm	24.5%



USCS Classification: 0.0%

Gradation **% Gravel** 16.8% **% Sand** 17.0% **% Silt & Clay** 66.2% — **Silt** 26.4%, **Clay** 39.8%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	29-Sep-20	Report Number:	EMRS-L3-048
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 28 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	433.3			
MASS OF WATER (g)	103.7			
MOISTURE CONTENT	**23.9%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	2-Oct-20	**Report no.:**	EMRS-L3-049	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L3-049	**Sampled Date:**	28-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

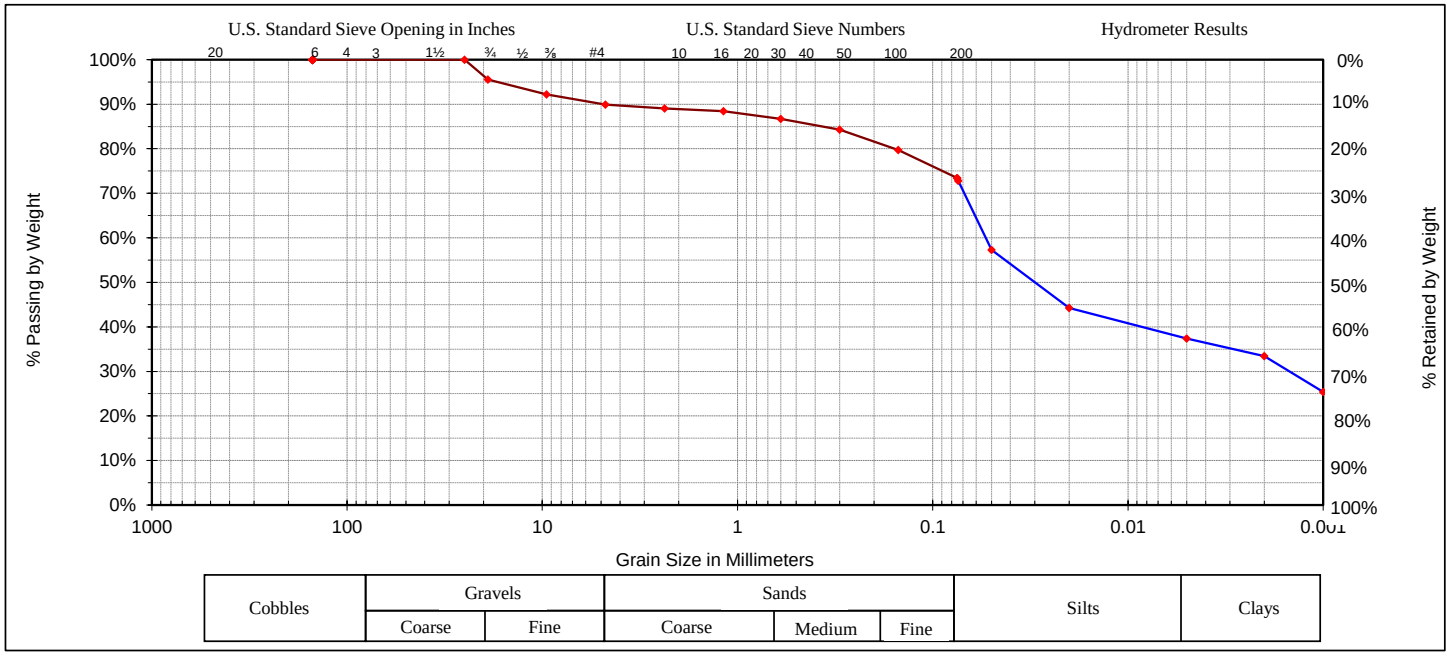
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	95.6%		
16.00 mm			
12.50 mm			
9.50 mm	92.2%		
6.30 mm			
4.75 mm	89.9%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	89.9%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	89.1%		
1.180 mm	88.5%		
0.600 mm	86.7%		
0.300 mm	84.3%		
0.150 mm	79.7%		
0.075 mm	73.4%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	72.8%
0.050 mm	57.3%
0.020 mm	44.2%
0.005 mm	37.4%
0.002 mm	33.5%
0.001 mm	25.4%



USCS Classification: 0.0%

Gradation **% Gravel** 10.1% **% Sand** 16.5% **% Silt & Clay** 73.4% — **Silt** 36.1%, **Clay** 37.4%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	29-Sep-20	Report Number:	EMRS-L3-049
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 28 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	435.1			
MASS OF WATER (g)	106.8			
MOISTURE CONTENT	**24.5%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	3-Oct-20	**Report no.:**	EMRS-L3-050	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L3-050	**Sampled Date:**	29-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

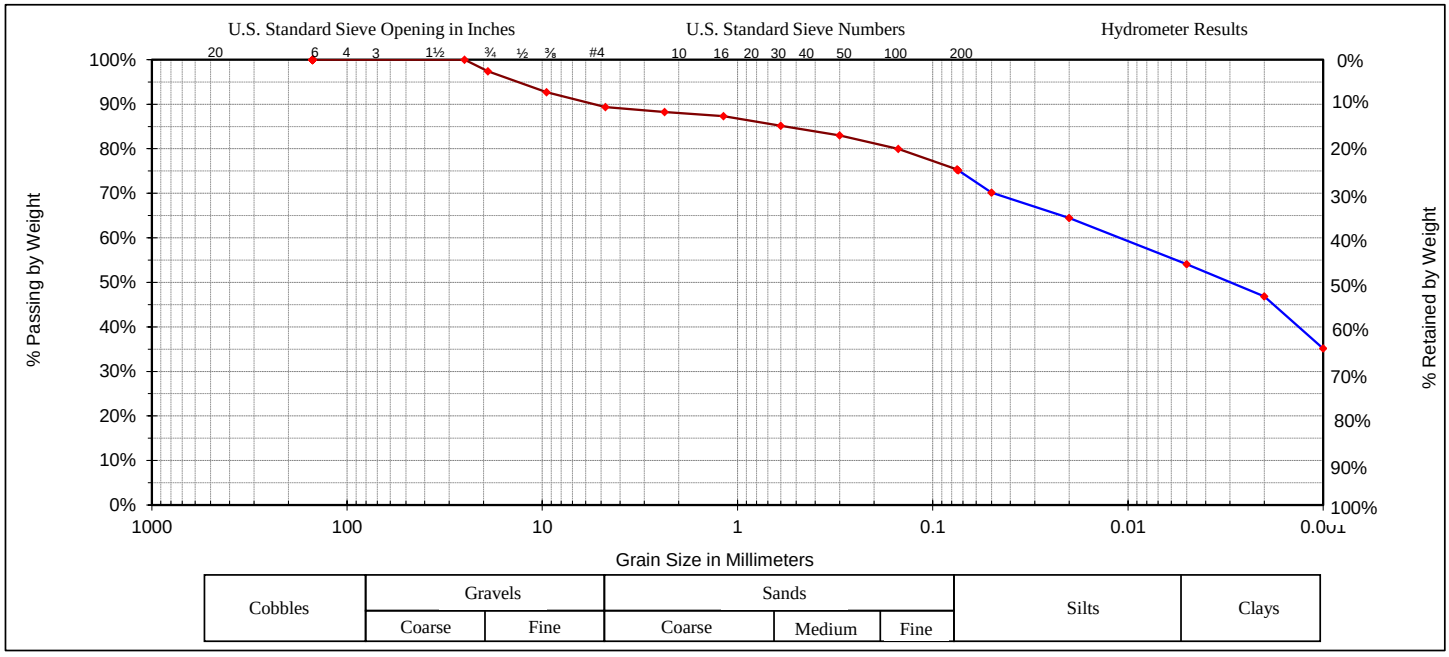
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	97.4%		
16.00 mm			
12.50 mm			
9.50 mm	92.7%		
6.30 mm			
4.75 mm	89.4%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	89.4%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	88.3%		
1.180 mm	87.3%		
0.600 mm	85.2%		
0.300 mm	83.0%		
0.150 mm	80.0%		
0.075 mm	75.3%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	75.1%
0.050 mm	70.1%
0.020 mm	64.5%
0.005 mm	54.1%
0.002 mm	46.9%
0.001 mm	35.1%



USCS Classification: 0.0%

Gradation **% Gravel** 10.6% **% Sand** 14.0% **% Silt & Clay** 75.3%

Silt 21.3%

Clay 54.1%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	30-Sep-20	Report Number:	EMRS-L3-050
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 29 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	482.5			
MASS OF WATER (g)	133.8			
MOISTURE CONTENT	**27.7%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	3-Oct-20	**Report no.:**	EMRS-L3-051	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L3-051	**Sampled Date:**	29-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

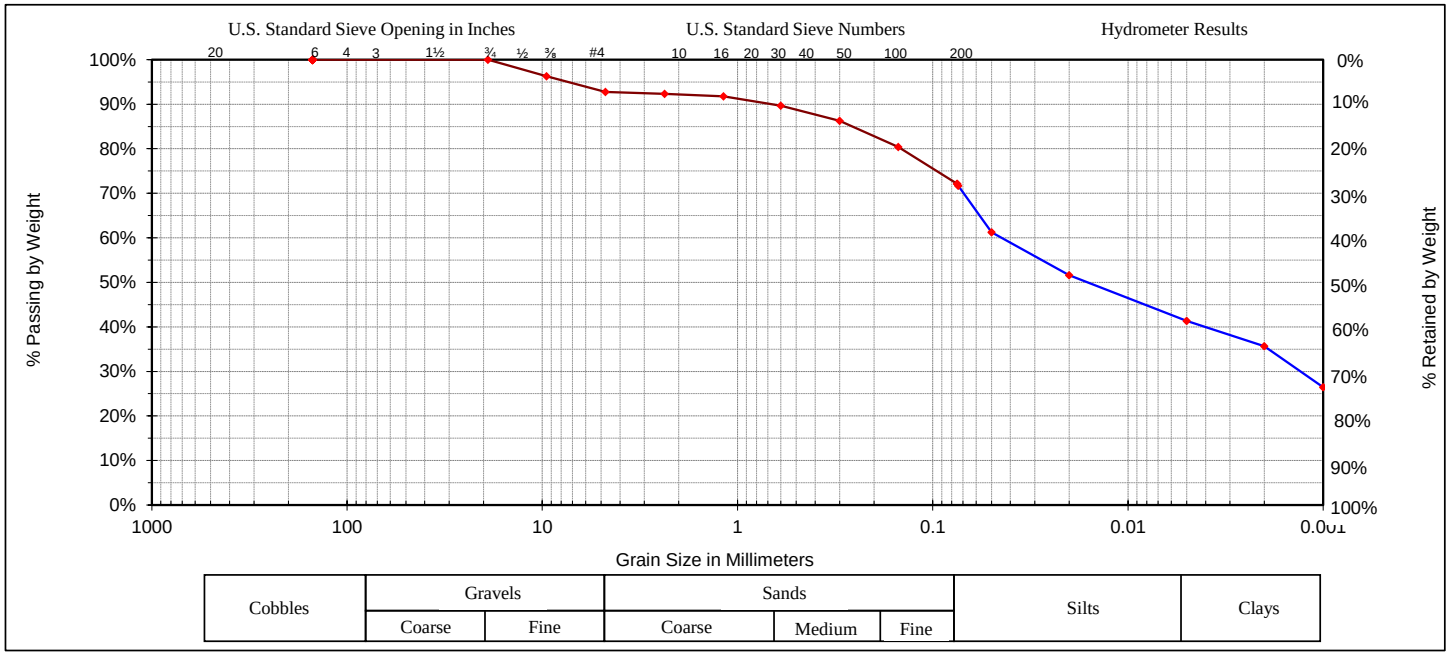
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	96.3%		
6.30 mm			
4.75 mm	92.8%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	92.8%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	92.3%		
1.180 mm	91.8%		
0.600 mm	89.7%		
0.300 mm	86.3%		
0.150 mm	80.4%		
0.075 mm	72.1%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	71.7%
0.050 mm	61.2%
0.020 mm	51.6%
0.005 mm	41.3%
0.002 mm	35.7%
0.001 mm	26.5%



USCS Classification: 0.0%

Gradation **% Gravel** 7.2% **% Sand** 20.7% **% Silt & Clay** 72.1% — **Silt** 30.8%, **Clay** 41.3%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	30-Sep-20	Report Number:	EMRS-L3-051
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 29 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	506.8			
MASS OF WATER (g)	117.3			
MOISTURE CONTENT	**23.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	5-Oct-20	**Report no.:**	EMRS-L4-052	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L4-052	**Sampled Date:**	30-Sep-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

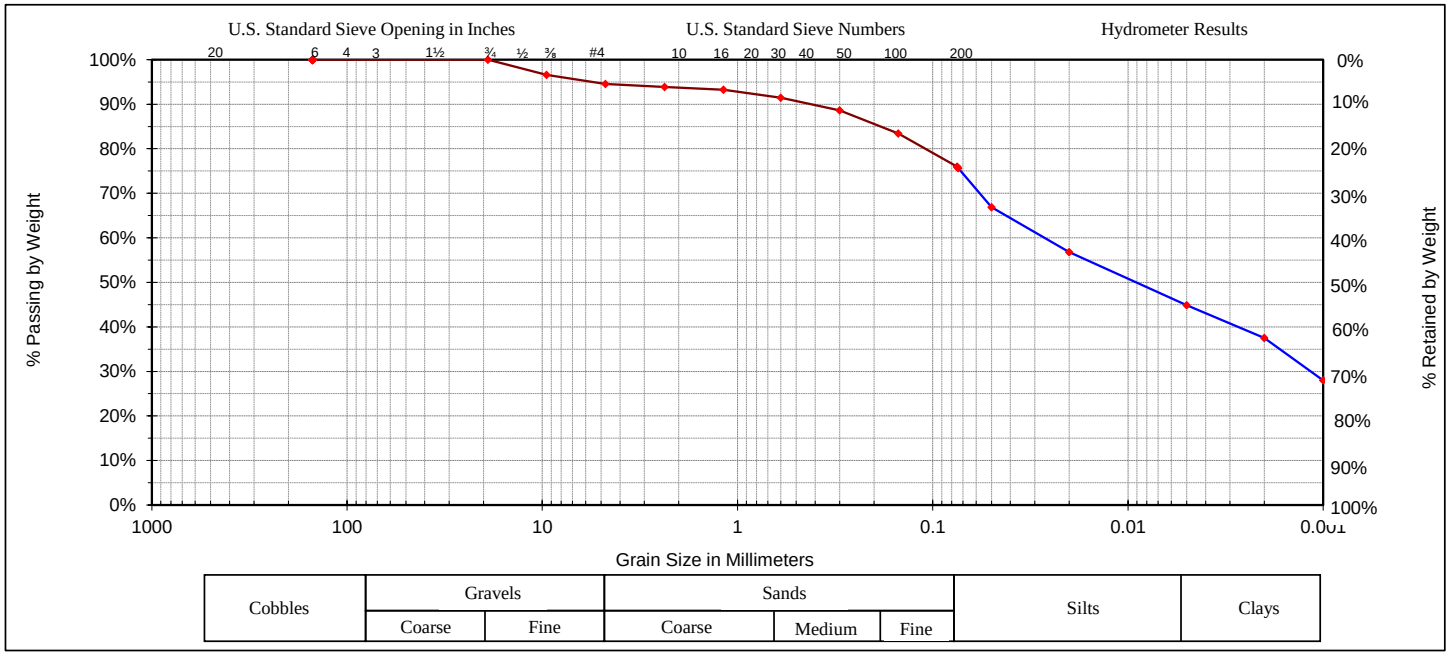
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	96.6%		
6.30 mm			
4.75 mm	94.6%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	94.6%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	93.8%		
1.180 mm	93.2%		
0.600 mm	91.5%		
0.300 mm	88.6%		
0.150 mm	83.4%		
0.075 mm	76.0%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	75.6%
0.050 mm	66.9%
0.020 mm	56.8%
0.005 mm	44.9%
0.002 mm	37.5%
0.001 mm	28.0%



USCS Classification: 0.0%

Gradation **% Gravel** 5.4% **% Sand** 18.6% **% Silt & Clay** 76.0% — **Silt** 31.1%, **Clay** 44.9%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	1-Oct-20	Report Number:	EMRS-L4-052
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Sept 30 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	553.2			
MASS OF WATER (g)	115.1			
MOISTURE CONTENT	**20.8%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	3-Oct-20	Report Number:	EMRS-L4-053
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 02 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	484.2			
MASS OF WATER (g)	134.8			
MOISTURE CONTENT	**27.8%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L1-054	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Oct 03 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Oct 05 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L1-054	Pit Dump	N/A	24.1%	49	15	34	CI-CH	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	7-Oct-20	**Report no.:**	EMRS-L1-054	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-054	**Sampled Date:**	3-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

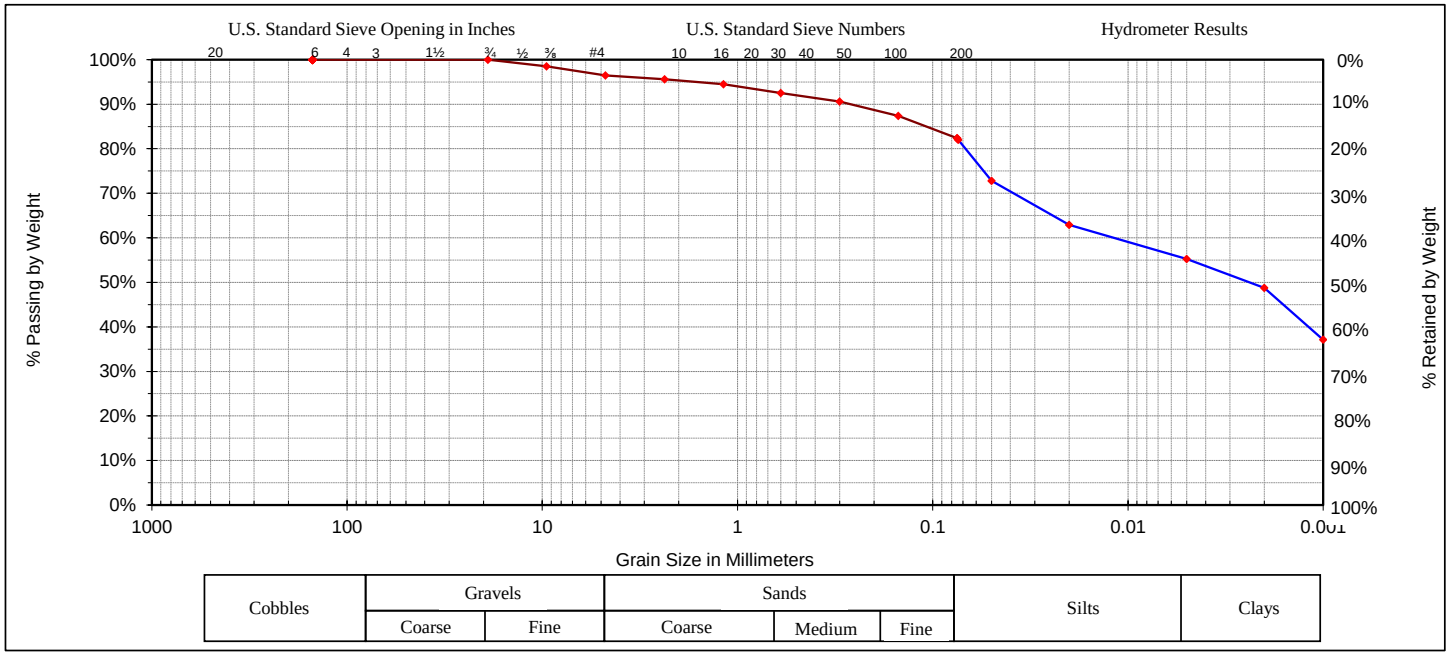
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	98.5%		
6.30 mm			
4.75 mm	96.5%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	96.5%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	95.6%		
1.180 mm	94.5%		
0.600 mm	92.5%		
0.300 mm	90.6%		
0.150 mm	87.4%		
0.075 mm	82.4%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	82.0%
0.050 mm	72.8%
0.020 mm	62.9%
0.005 mm	55.2%
0.002 mm	48.8%
0.001 mm	37.1%



USCS Classification: CI-CH

Gradation **% Gravel** 3.5% **% Sand** 14.1% **% Silt & Clay** 82.4%

Silt 27.1%

Clay 55.2%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	4-Oct-20	Report Number:	EMRS-L1-054
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 03 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	510.7			
MASS OF WATER (g)	123.1			
MOISTURE CONTENT	**24.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	7-Oct-20	**Report no.:**	EMRS-L1-055	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-055	**Sampled Date:**	3-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

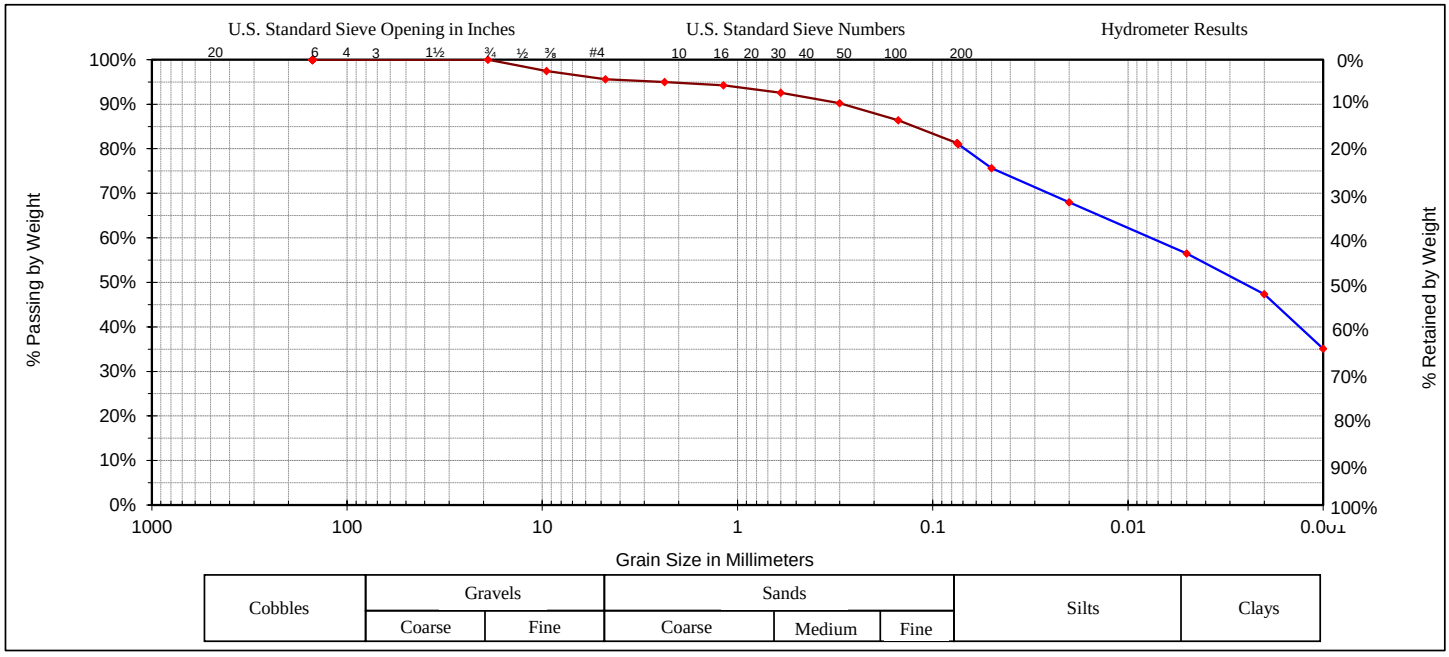
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	97.5%		
6.30 mm			
4.75 mm	95.6%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	95.6%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	95.0%		
1.180 mm	94.2%		
0.600 mm	92.5%		
0.300 mm	90.2%		
0.150 mm	86.4%		
0.075 mm	81.3%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	81.0%
0.050 mm	75.6%
0.020 mm	68.0%
0.005 mm	56.5%
0.002 mm	47.3%
0.001 mm	35.1%



USCS Classification: 0.0%

Gradation **% Gravel** 4.4% **% Sand** 14.3% **% Silt & Clay** 81.3%

Silt 24.8%

Clay 56.5%

Reviewed By:

<original signed by>

Comments:

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	4-Oct-20	Report Number:	EMRS-L1-055
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 03 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	380.6			
MASS OF WATER (g)	111.7			
MOISTURE CONTENT	**29.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	7-Oct-20	**Report no.:**	EMRS-L1-056	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-056	**Sampled Date:**	3-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

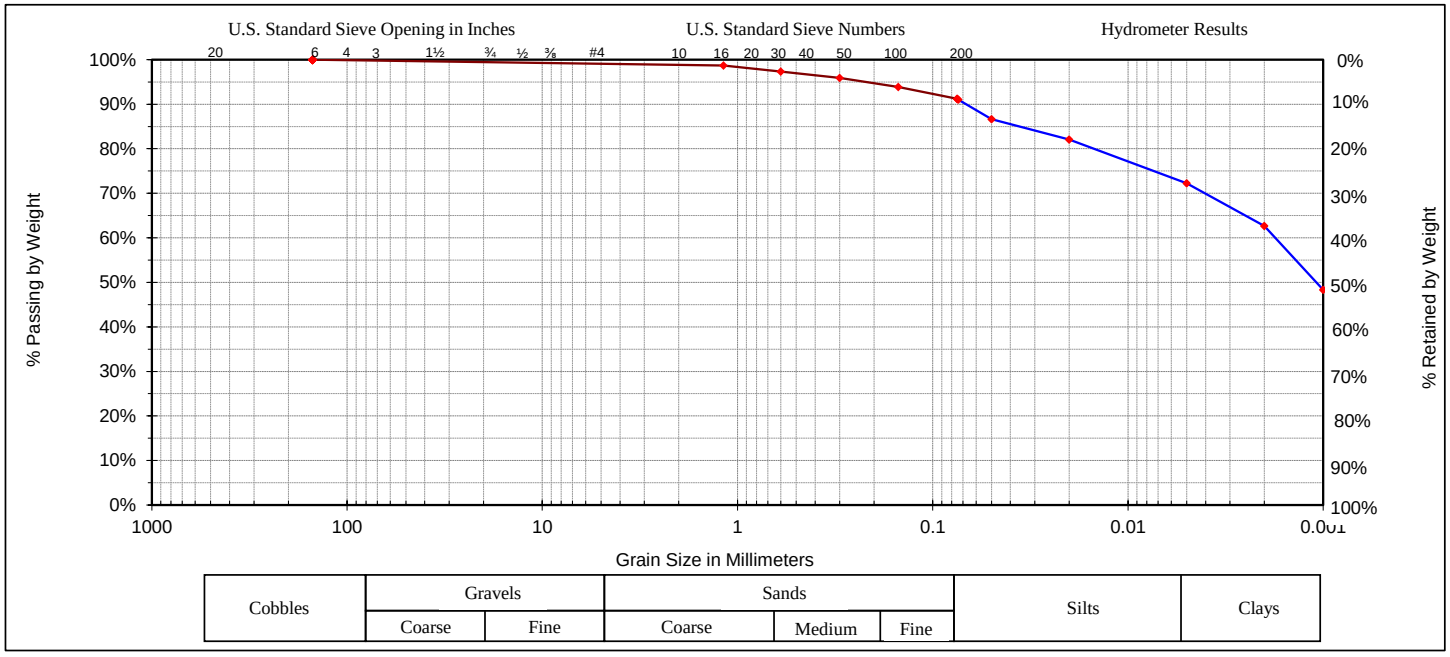
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm			
16.00 mm			
12.50 mm			
9.50 mm			
6.30 mm			
4.75 mm			

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm			
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm			
1.180 mm	98.7%		
0.600 mm	97.3%		
0.300 mm	95.9%		
0.150 mm	93.8%		
0.075 mm	91.2%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	91.0%
0.050 mm	86.7%
0.020 mm	82.1%
0.005 mm	72.3%
0.002 mm	62.6%
0.001 mm	48.3%



USCS Classification: 0.0%

Gradation **% Gravel** 0.0% **% Sand** 8.8% **% Silt & Clay** 91.2%

Silt 19.0%

Clay 72.3%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	4-Oct-20	Report Number:	EMRS-L1-056
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 03 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	527.1			
MASS OF WATER (g)	135.6			
MOISTURE CONTENT	**25.7%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	7-Oct-20	Report Number:	EMRS-L1-056
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 03-OCT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS						
TRIAL NUMBER	**1**	**2**	**3**	**4**	**5**	**6**
DRY DENSITY (kg/m³)	1442	1466	1462	1411		
MOISTURE CONTENT (W%)	22.4	25.2	28.0	31.7		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

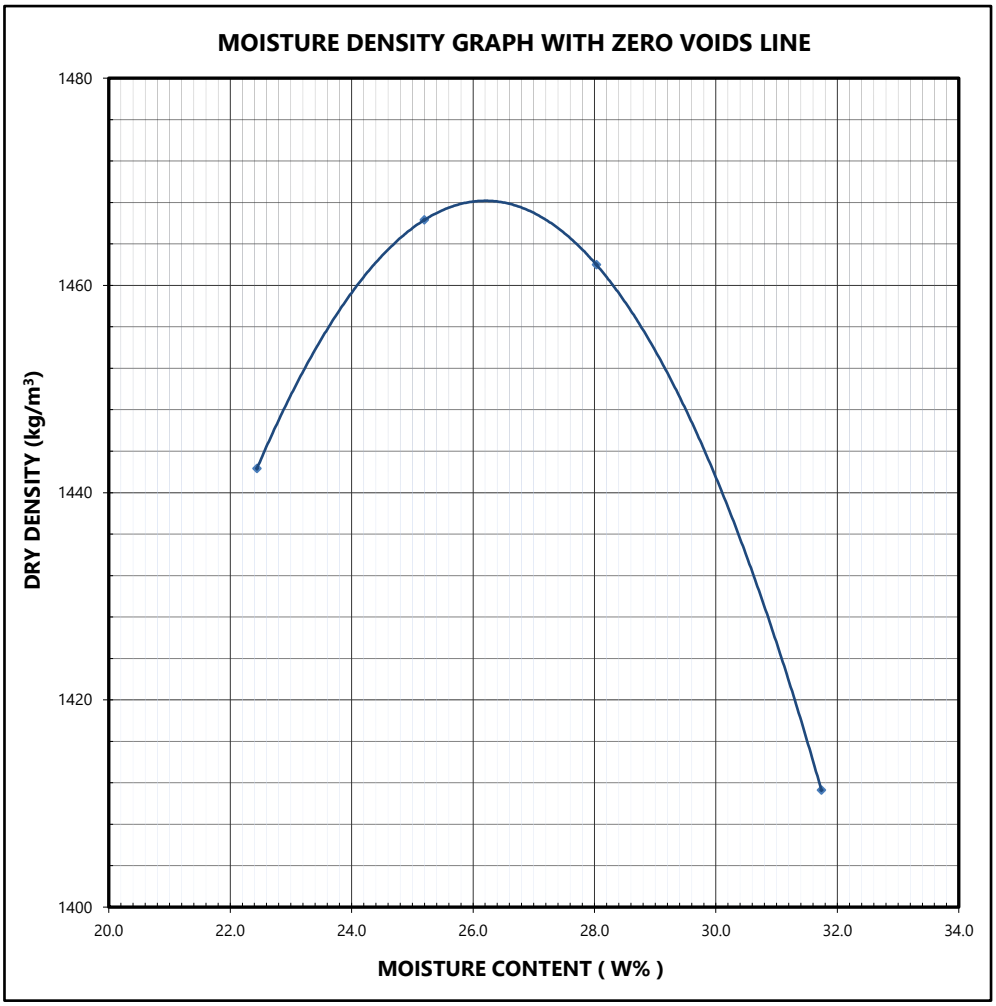
DENSITY (kg/m³): **1468**
OPTIMUM MC (%): **26.2**

ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):
CORR. DENSITY (kg/m³):
CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**25.7%**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	4-Oct-20	Report Number:	RR-EMRS-BP3X
File Number:	19SK0095	Contractor:	Okane Consultants
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 03 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	540.4			
MASS OF WATER (g)	158.5			
MOISTURE CONTENT	**29.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	8-Oct-20	**Report no.:**	EMRS-L1-057	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-057	**Sampled Date:**	4-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

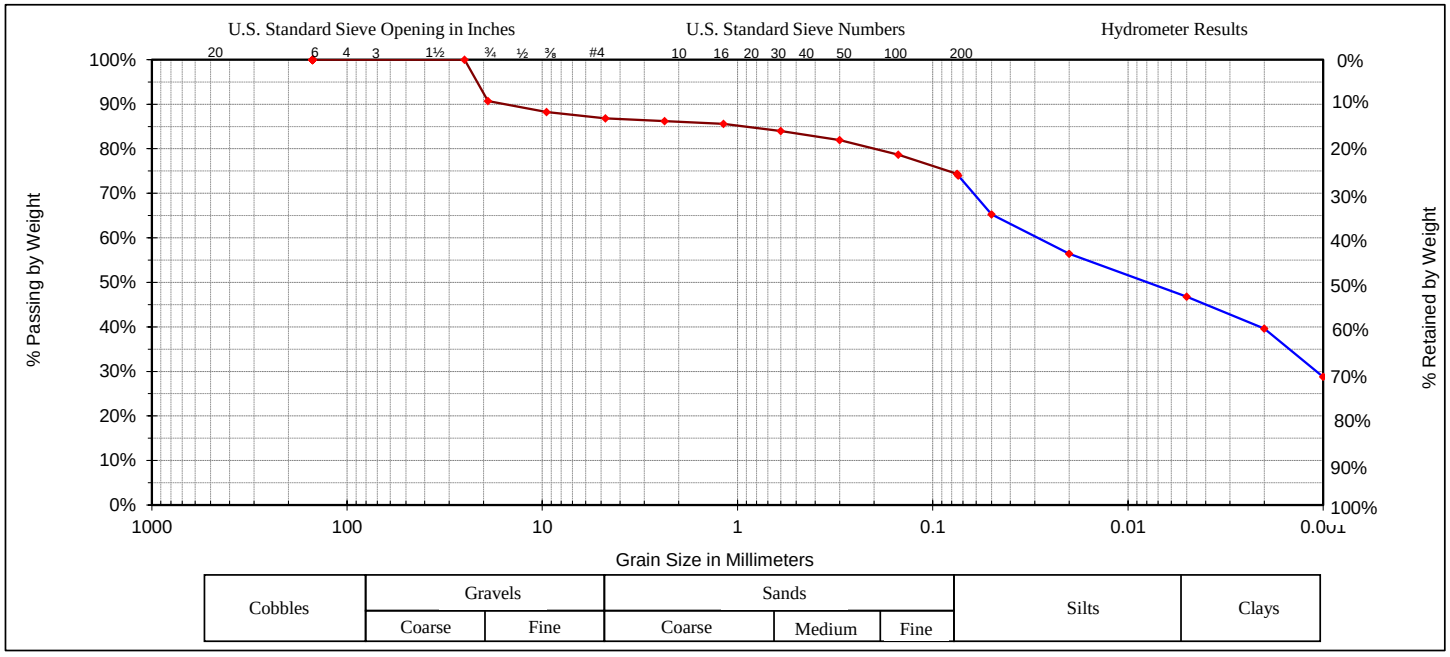
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	90.7%		
16.00 mm			
12.50 mm			
9.50 mm	88.3%		
6.30 mm			
4.75 mm	86.8%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	86.8%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	86.2%		
1.180 mm	85.6%		
0.600 mm	84.0%		
0.300 mm	81.9%		
0.150 mm	78.7%		
0.075 mm	74.4%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	74.0%
0.050 mm	65.3%
0.020 mm	56.4%
0.005 mm	46.8%
0.002 mm	39.6%
0.001 mm	28.8%



USCS Classification: 0.0%

Gradation **% Gravel** 13.2% **% Sand** 12.4% **% Silt & Clay** 74.4%

Silt 27.6%

Clay 46.8%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	5-Oct-20	Report Number:	EMRS-L1-057
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 04 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	462.3			
MASS OF WATER (g)	134.2			
MOISTURE CONTENT	**29.0%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	8-Oct-20	**Report no.:**	EMRS-STOCKPILE-058	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-STOCKPILE-058	**Sampled Date:**	4-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

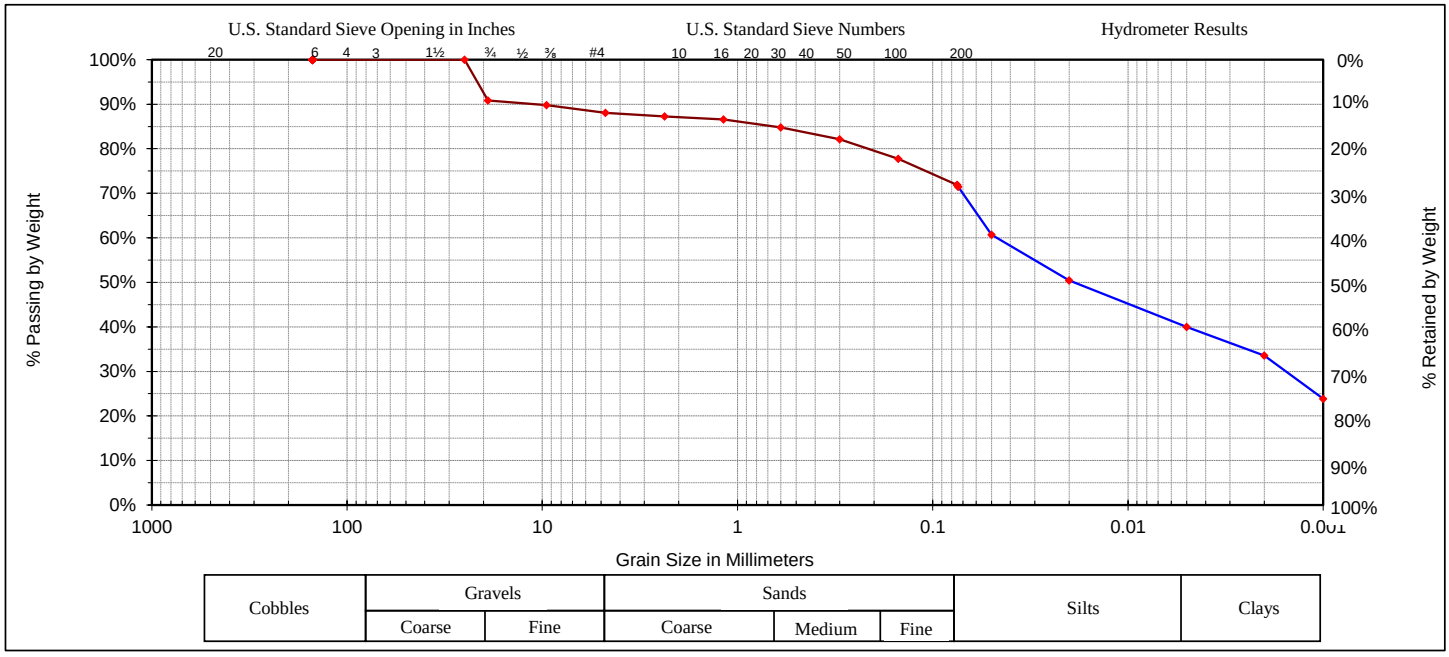
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	90.8%		
16.00 mm			
12.50 mm			
9.50 mm	89.8%		
6.30 mm			
4.75 mm	88.0%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	88.0%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	87.3%		
1.180 mm	86.6%		
0.600 mm	84.8%		
0.300 mm	82.2%		
0.150 mm	77.7%		
0.075 mm	71.9%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	71.4%
0.050 mm	60.7%
0.020 mm	50.4%
0.005 mm	40.0%
0.002 mm	33.5%
0.001 mm	23.9%



USCS Classification: 0.0%

Gradation **% Gravel** 12.0% **% Sand** 16.2% **% Silt & Clay** 71.9%

Silt 31.9%

Clay 40.0%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	5-Oct-20	Report Number:	EMRS-STOCKPILE-058
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 04 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	446.6			
MASS OF WATER (g)	128			
MOISTURE CONTENT	**28.7%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L1-059	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Oct 05 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Oct 07 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L1-059	Pit Dump	N/A	21.7%	53	17	36	CH	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	9-Oct-20	**Report no.:**	EMRS-L1-059	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-059	**Sampled Date:**	5-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

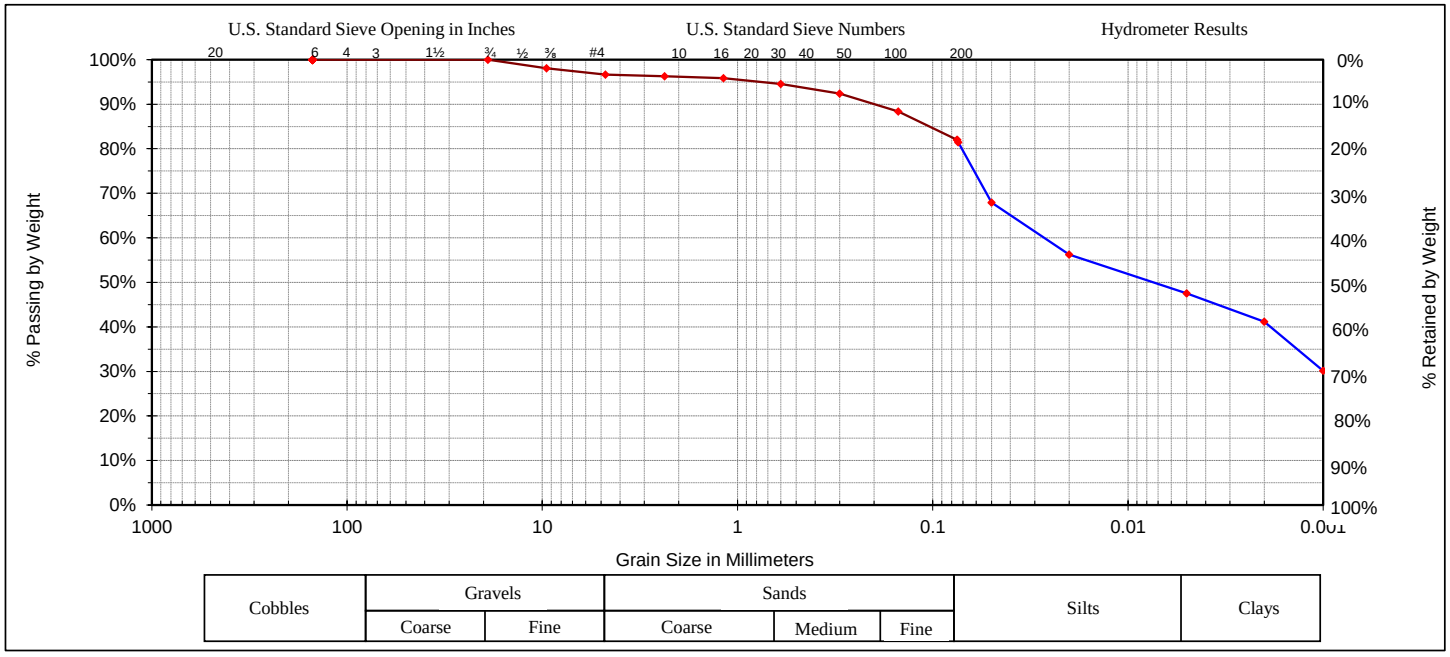
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	98.1%		
6.30 mm			
4.75 mm	96.6%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	96.6%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	96.3%		
1.180 mm	95.9%		
0.600 mm	94.6%		
0.300 mm	92.4%		
0.150 mm	88.4%		
0.075 mm	82.0%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	81.4%
0.050 mm	67.9%
0.020 mm	56.2%
0.005 mm	47.5%
0.002 mm	41.2%
0.001 mm	30.1%



USCS Classification: CH

Gradation **% Gravel** 3.4% **% Sand** 14.7% **% Silt & Clay** 82.0%

Silt 34.5%

Clay 47.5%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	8-Oct-20	Report Number:	EMRS-L1-059
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 05-OCT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS						
TRIAL NUMBER	**1**	**2**	**3**	**4**	**5**	**6**
DRY DENSITY (kg/m³)	1535	1594	1645	1590	1530	
MOISTURE CONTENT (W%)	16.0	18.3	21.4	24.0	26.5	

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1646**

OPTIMUM MC (%): **21.1**

ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):

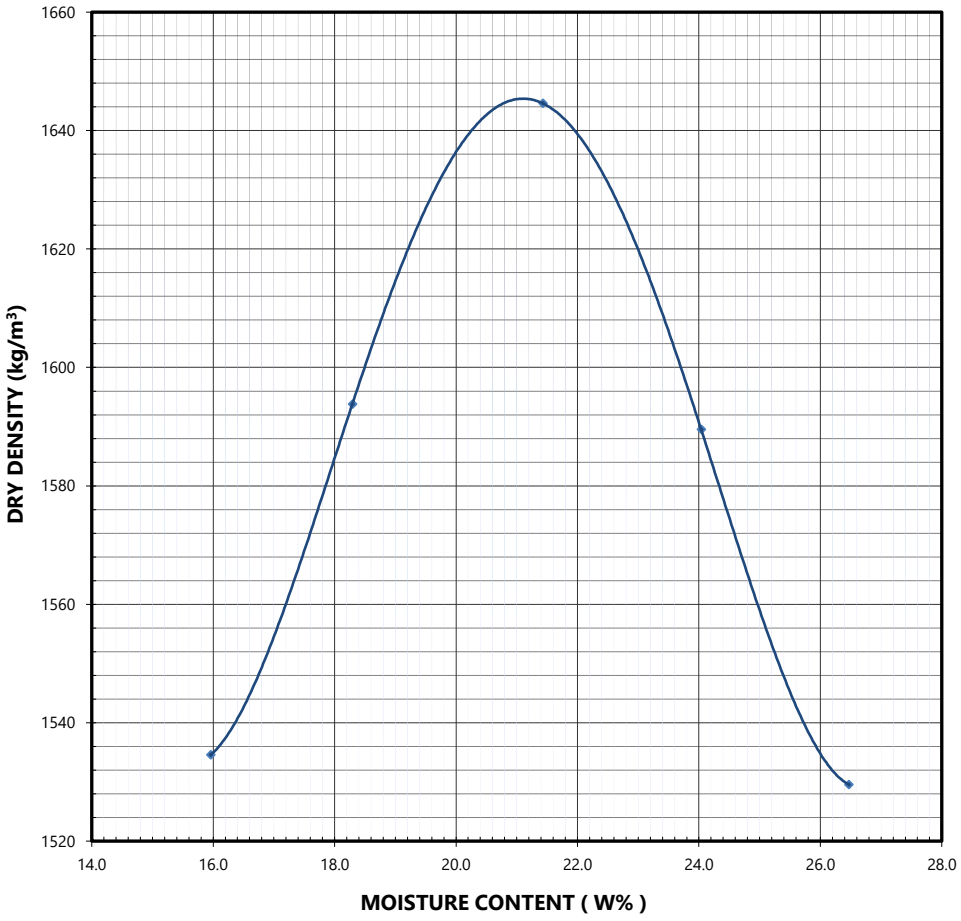
CORR. DENSITY (kg/m³):

CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**21.7%**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed B <original signed by>

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	9-Oct-20	**Report no.:**	EMRS-L1-060	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-060	**Sampled Date:**	5-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

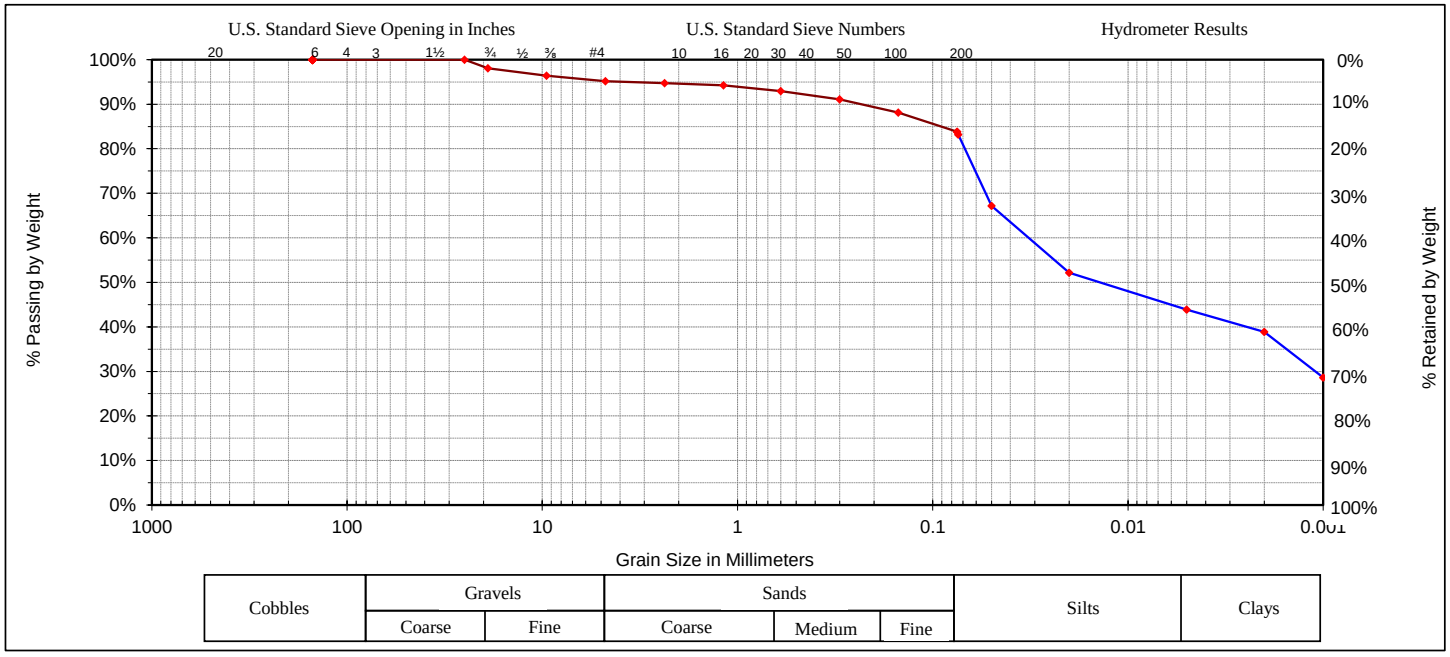
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	98.1%		
16.00 mm			
12.50 mm			
9.50 mm	96.4%		
6.30 mm			
4.75 mm	95.1%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	95.1%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	94.7%		
1.180 mm	94.2%		
0.600 mm	93.0%		
0.300 mm	91.1%		
0.150 mm	88.1%		
0.075 mm	83.8%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	83.2%
0.050 mm	67.2%
0.020 mm	52.1%
0.005 mm	43.9%
0.002 mm	38.9%
0.001 mm	28.6%



USCS Classification: 0.0%

Gradation **% Gravel** 4.9% **% Sand** 11.3% **% Silt & Clay** 83.8%

Silt 40.0%

Clay 43.9%

Reviewed By:

<original signed by>

Comments:

Joe Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L1-061	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Oct 05 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Oct 07 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L1-061	Pit Dump	N/A	23.3%	35	13	22	CI	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	9-Oct-20	**Report no.:**	EMRS-L1-061	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L1-061	**Sampled Date:**	5-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

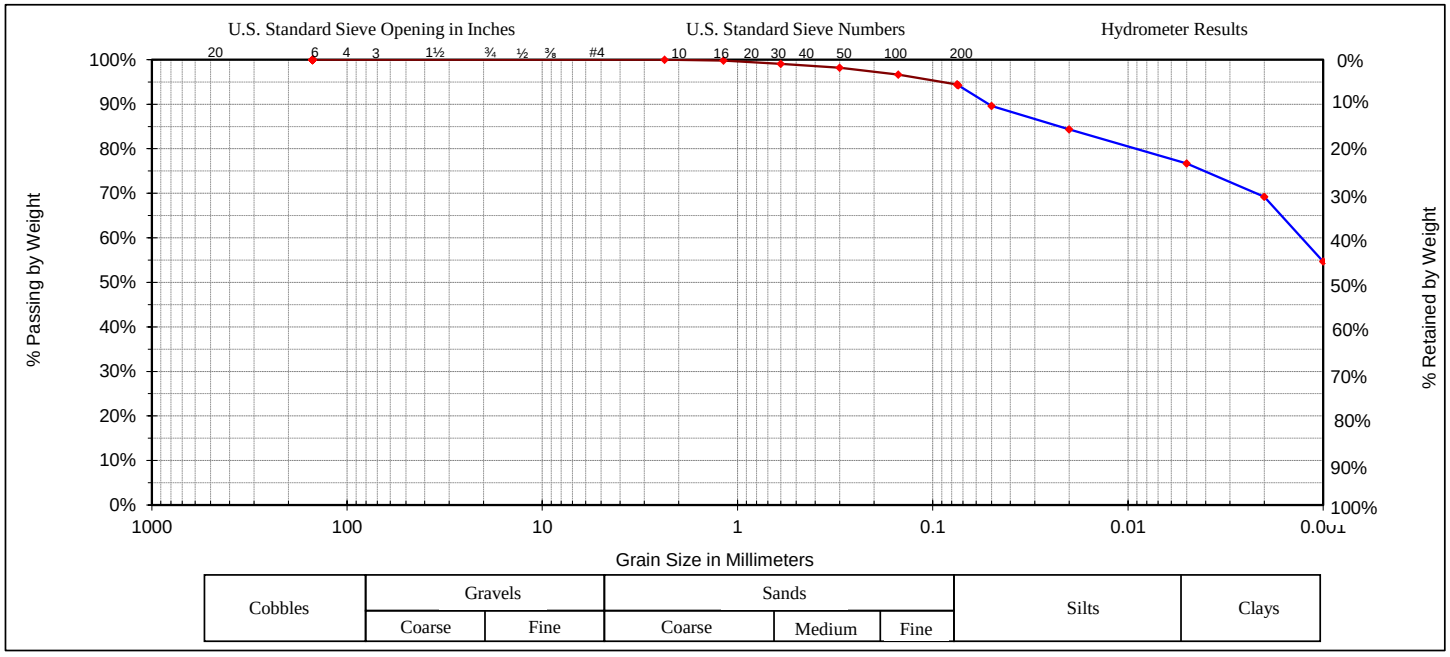
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm			
16.00 mm			
12.50 mm			
9.50 mm			
6.30 mm			
4.75 mm			

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm			
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	100.0%		
1.180 mm	99.8%		
0.600 mm	99.1%		
0.300 mm	98.2%		
0.150 mm	96.7%		
0.075 mm	94.4%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	94.2%
0.050 mm	89.6%
0.020 mm	84.4%
0.005 mm	76.7%
0.002 mm	69.2%
0.001 mm	54.7%



USCS Classification: CI

Gradation **% Gravel** 0.0% **% Sand** 5.6% **% Silt & Clay** 94.4%

Silt 17.8%

Clay 76.7%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	8-Oct-20	Report Number:	EMRS-L1-061
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 05-OCT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS						
TRIAL NUMBER	**1**	**2**	**3**	**4**	**5**	**6**
DRY DENSITY (kg/m³)	1595	1649	1664	1586		
MOISTURE CONTENT (W%)	15.0	17.4	20.7	23.7		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³):	**1669**
OPTIMUM MC (%):	**19.7**

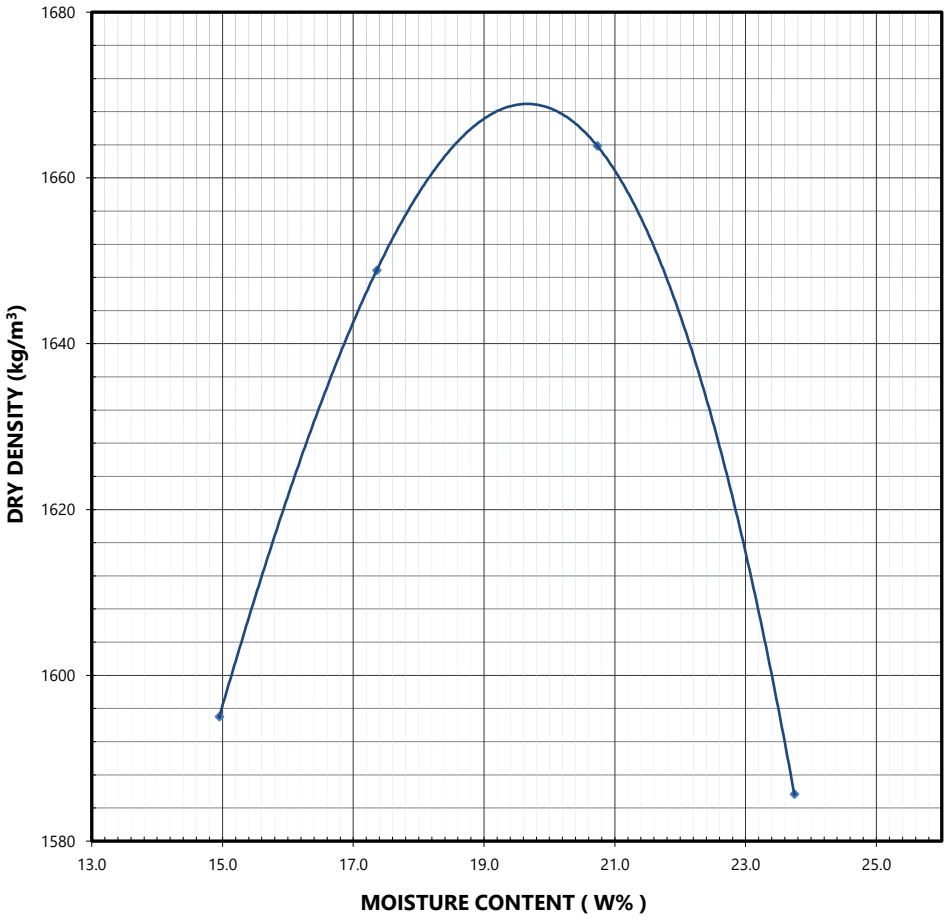
ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):	
CORR. DENSITY (kg/m³):	
CORR. MC (%):	

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**23.3%**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	11-Oct-20	**Report no.:**	EMRS-L2-062	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-062	**Sampled Date:**	6-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

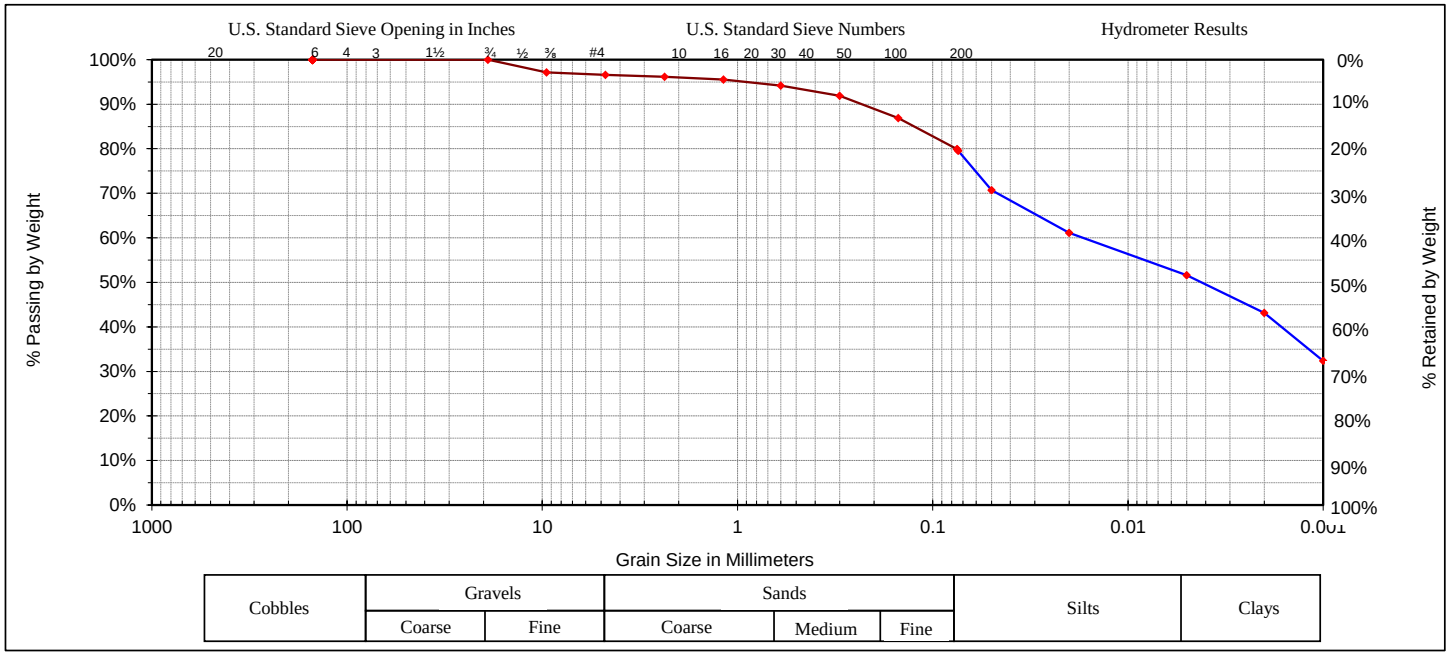
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	97.2%		
6.30 mm			
4.75 mm	96.6%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	96.6%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	96.2%		
1.180 mm	95.5%		
0.600 mm	94.2%		
0.300 mm	91.9%		
0.150 mm	86.9%		
0.075 mm	79.9%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	79.5%
0.050 mm	70.7%
0.020 mm	61.1%
0.005 mm	51.6%
0.002 mm	43.2%
0.001 mm	32.4%



USCS Classification: -

Gradation **% Gravel** 3.4% **% Sand** 16.7% **% Silt & Clay** 79.9%

Silt 28.3%

Clay 51.6%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	7-Oct-20	Report Number:	EMRS-L2-062
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 06 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	434.6			
MASS OF WATER (g)	125.2			
MOISTURE CONTENT	**28.8%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L2-063	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Oct 06 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Oct 09 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L2-063	Pit Dump	N/A	24.8%	59	16	43	CH	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	11-Oct-20	**Report no.:**	EMRS-L2-063	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-063	**Sampled Date:**	6-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

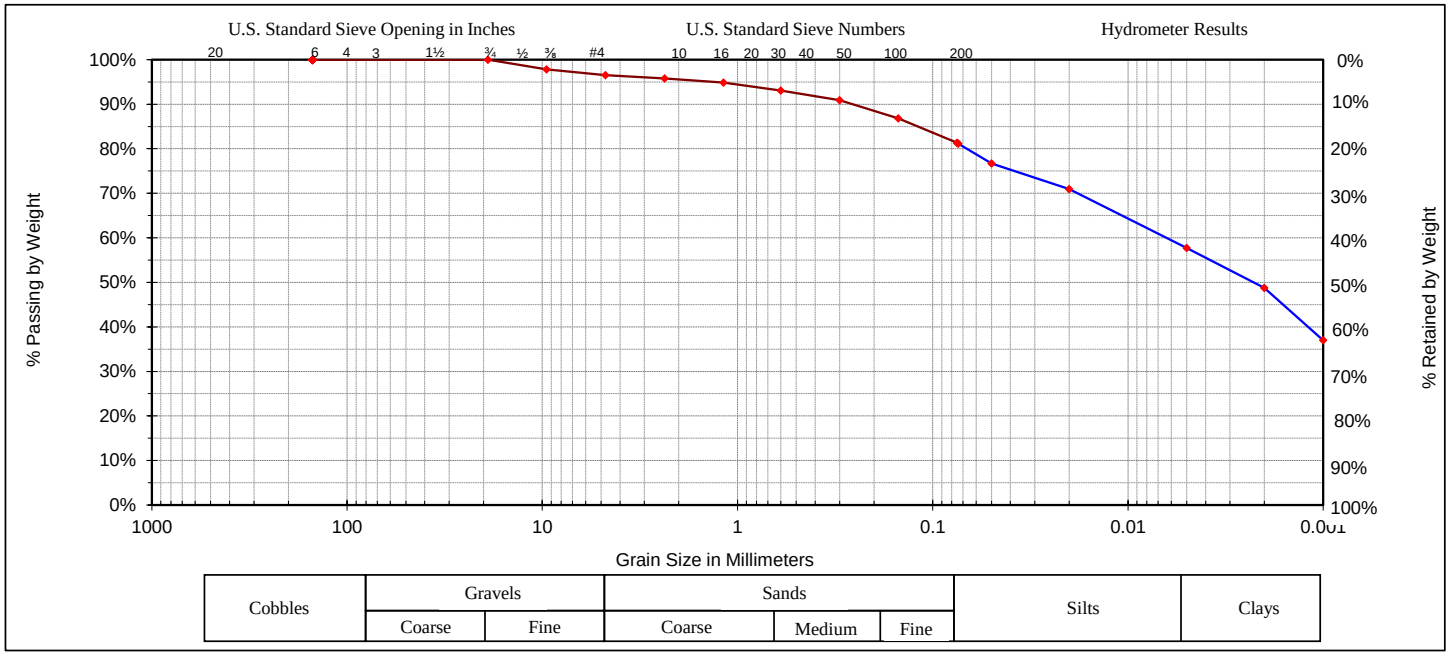
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	97.8%		
6.30 mm			
4.75 mm	96.5%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	96.5%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	95.8%		
1.180 mm	94.9%		
0.600 mm	93.1%		
0.300 mm	90.9%		
0.150 mm	86.8%		
0.075 mm	81.3%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	81.2%
0.050 mm	76.7%
0.020 mm	71.0%
0.005 mm	57.7%
0.002 mm	48.8%
0.001 mm	37.0%



USCS Classification: CH

Gradation **% Gravel** 3.5% **% Sand** 15.2% **% Silt & Clay** 81.3%

Silt 23.6%

Clay 57.7%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	7-Oct-20	Report Number:	EMRS-L2-063
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 06 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	483.5			
MASS OF WATER (g)	120.1			
MOISTURE CONTENT	**24.8%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	11-Oct-20	Report Number:	EMRS-L2-063
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 06-OCT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS						
TRIAL NUMBER	**1**	**2**	**3**	**4**	**5**	**6**
DRY DENSITY (kg/m³)	1579	1643	1604	1537		
MOISTURE CONTENT (W%)	17.1	20.3	23.0	24.8		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1643**

OPTIMUM MC (%): **20.4**

ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):

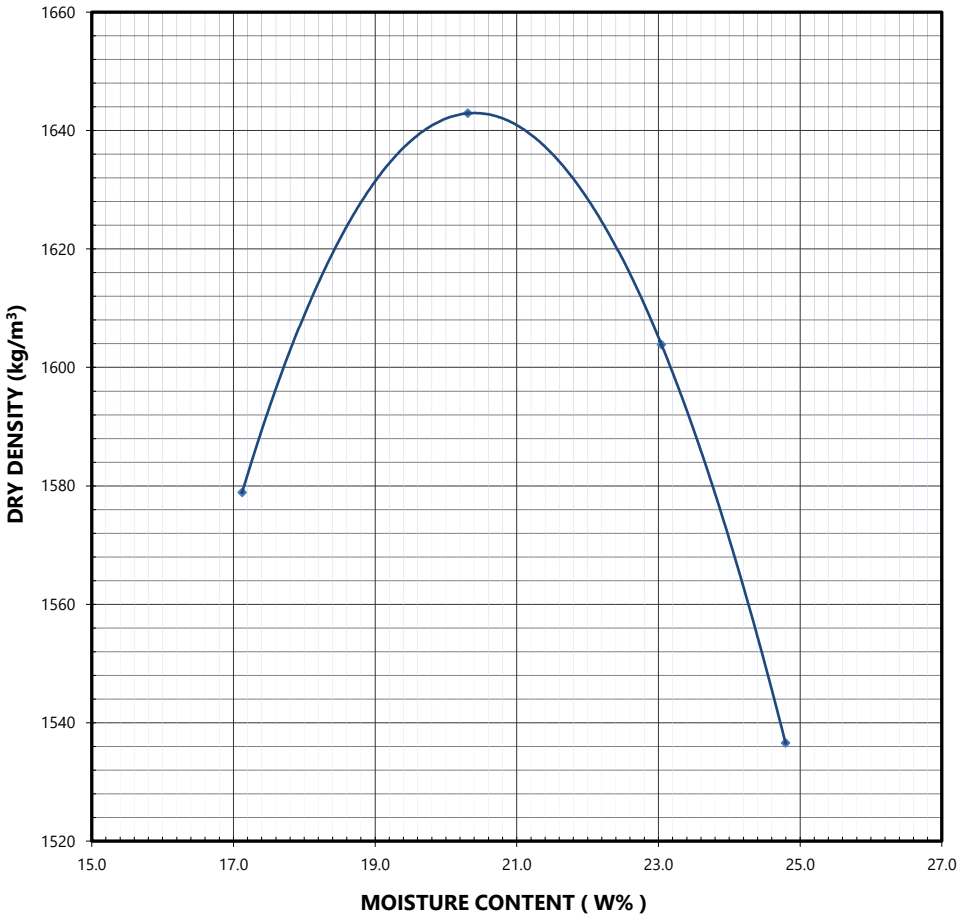
CORR. DENSITY (kg/m³):

CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**24.8%**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	11-Oct-20	**Report no.:**	EMRS-L2-064	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-064	**Sampled Date:**	6-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

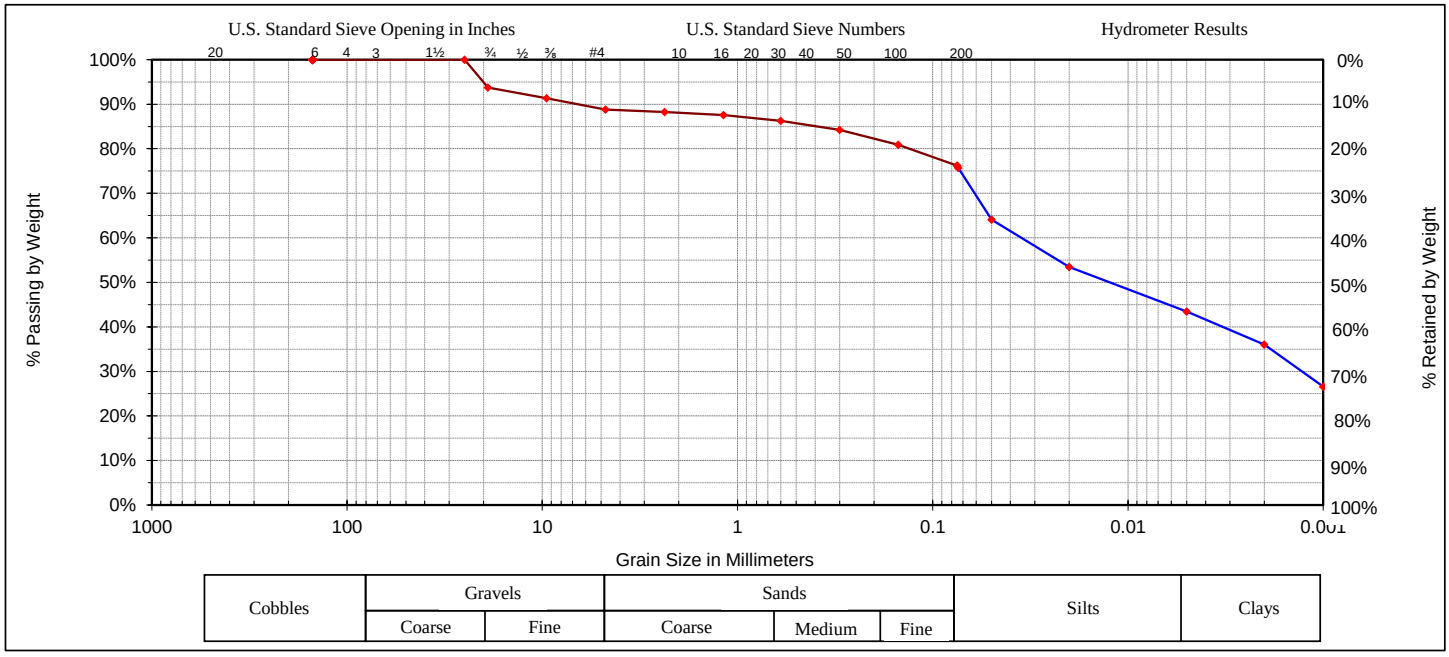
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	93.7%		
16.00 mm			
12.50 mm			
9.50 mm	91.3%		
6.30 mm			
4.75 mm	88.8%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	88.8%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	88.3%		
1.180 mm	87.6%		
0.600 mm	86.3%		
0.300 mm	84.3%		
0.150 mm	80.9%		
0.075 mm	76.2%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	75.7%
0.050 mm	64.1%
0.020 mm	53.5%
0.005 mm	43.4%
0.002 mm	36.0%
0.001 mm	26.6%



USCS Classification: -

Gradation **% Gravel** 11.2% **% Sand** 12.6% **% Silt & Clay** 76.2%

Silt 32.8%

Clay 43.4%

Reviewed By:

<original signed by>

Comments:

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	7-Oct-20	Report Number:	EMRS-L2-064
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 06 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	463.9			
MASS OF WATER (g)	102.9			
MOISTURE CONTENT	**22.2%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	12-Oct-20	**Report no.:**	EMRS-L2-065	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-065	**Sampled Date:**	8-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

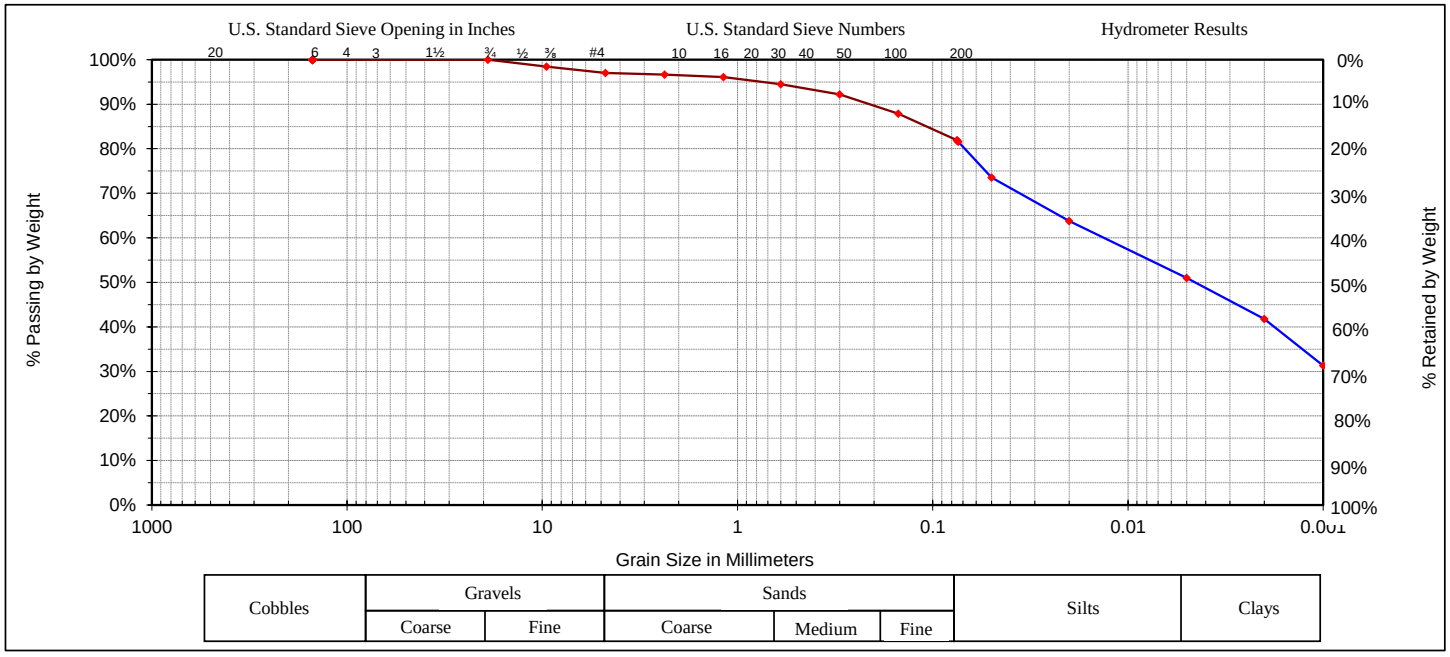
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	98.4%		
6.30 mm			
4.75 mm	97.0%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	97.0%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	96.6%		
1.180 mm	96.1%		
0.600 mm	94.5%		
0.300 mm	92.2%		
0.150 mm	87.9%		
0.075 mm	81.9%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	81.6%
0.050 mm	73.6%
0.020 mm	63.8%
0.005 mm	51.0%
0.002 mm	41.8%
0.001 mm	31.3%



USCS Classification: -

Gradation **% Gravel** 3.0% **% Sand** 15.1% **% Silt & Clay** 81.9% — **Silt** 30.9%, **Clay** 51.0%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	9-Oct-20	Report Number:	EMRS-L2-066
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 08 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	397.1			
MASS OF WATER (g)	98.3			
MOISTURE CONTENT	**24.8%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	9-Oct-20	Report Number:	EMRS-L2-067
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 08 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	408.9			
MASS OF WATER (g)	107.4			
MOISTURE CONTENT	**26.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	12-Oct-20	**Report no.:**	EMRS-L3-065	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L3-065	**Sampled Date:**	8-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

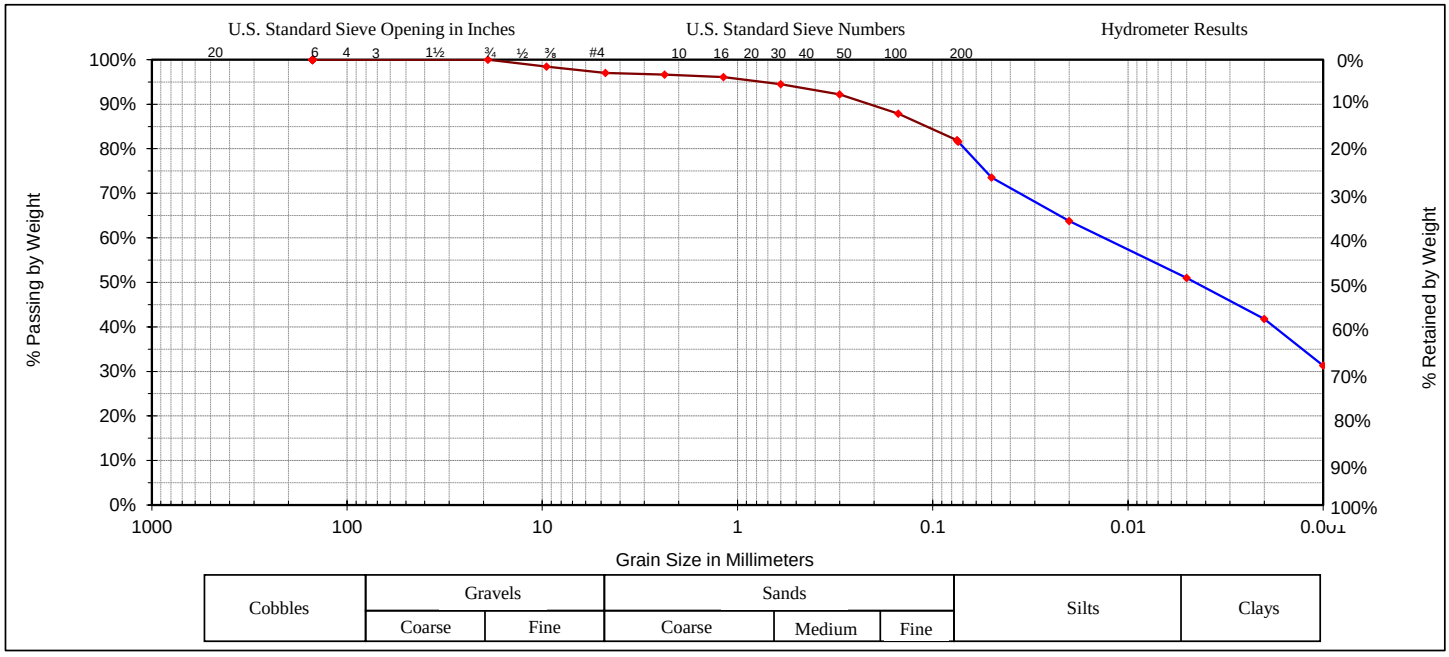
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	98.4%		
6.30 mm			
4.75 mm	97.0%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	97.0%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	96.6%		
1.180 mm	96.1%		
0.600 mm	94.5%		
0.300 mm	92.2%		
0.150 mm	87.9%		
0.075 mm	81.9%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	81.6%
0.050 mm	73.6%
0.020 mm	63.8%
0.005 mm	51.0%
0.002 mm	41.8%
0.001 mm	31.3%



USCS Classification: -

Gradation **% Gravel** 3.0% **% Sand** 15.1% **% Silt & Clay** 81.9%

Silt 30.9%

Clay 51.0%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	9-Oct-20	Report Number:	EMRS-L3-065
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 08 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	446.9			
MASS OF WATER (g)	125			
MOISTURE CONTENT	**28.0%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	10-Oct-20	Report Number:	EMRS-L2-068
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 09 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	336.3			
MASS OF WATER (g)	92.9			
MOISTURE CONTENT	**27.6%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L2-069	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Oct 09 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Oct 13 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L2-069	Pit Dump	N/A	27.8%	44	14	30	CI	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	13-Oct-20	**Report no.:**	EMRS-L2-069	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-069	**Sampled Date:**	9-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

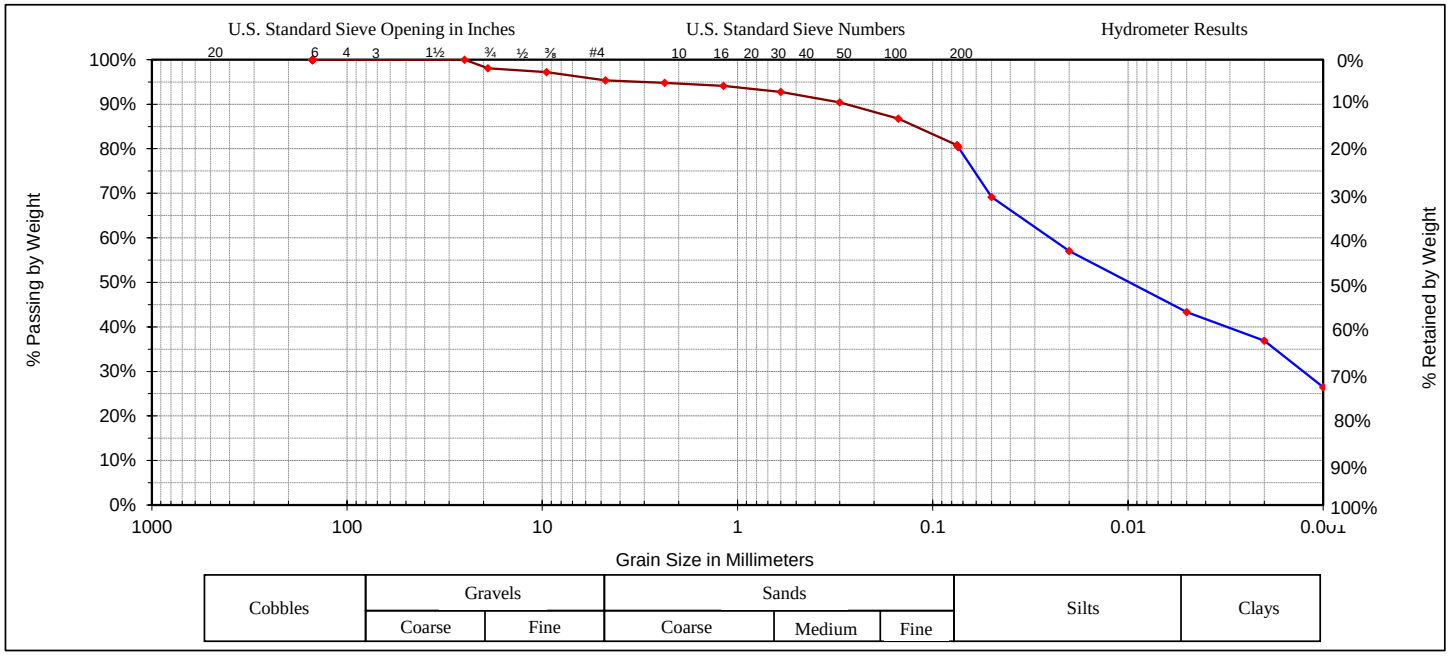
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	98.0%		
16.00 mm			
12.50 mm			
9.50 mm	97.2%		
6.30 mm			
4.75 mm	95.4%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	95.4%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	94.8%		
1.180 mm	94.1%		
0.600 mm	92.7%		
0.300 mm	90.4%		
0.150 mm	86.8%		
0.075 mm	80.8%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	80.3%
0.050 mm	69.2%
0.020 mm	57.0%
0.005 mm	43.4%
0.002 mm	36.9%
0.001 mm	26.5%



USCS Classification: CI

Gradation **% Gravel** 4.6% **% Sand** 14.6% **% Silt & Clay** 80.8%

Silt 37.4%

Clay 43.4%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	10-Oct-20	Report Number:	EMRS-L2-069
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 09 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	308.9			
MASS OF WATER (g)	86			
MOISTURE CONTENT	**27.8%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	10-Oct-20	Report Number:	EMRS-L2-070
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 09 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	326.1			
MASS OF WATER (g)	96.6			
MOISTURE CONTENT	**29.6%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	11-Oct-20	Report Number:	EMRS-L2-071
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 10 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	396.7			
MASS OF WATER (g)	92.5			
MOISTURE CONTENT	**23.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	11-Oct-20	Report Number:	EMRS-L2-072
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 10 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	354.5			
MASS OF WATER (g)	101.9			
MOISTURE CONTENT	**28.7%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L2-073	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Oct 10 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Oct 13 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L2-073	Pit Dump	N/A	23.7%	41	14	27	CI	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	14-Oct-20	**Report no.:**	EMRS-L2-073	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-073	**Sampled Date:**	10-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

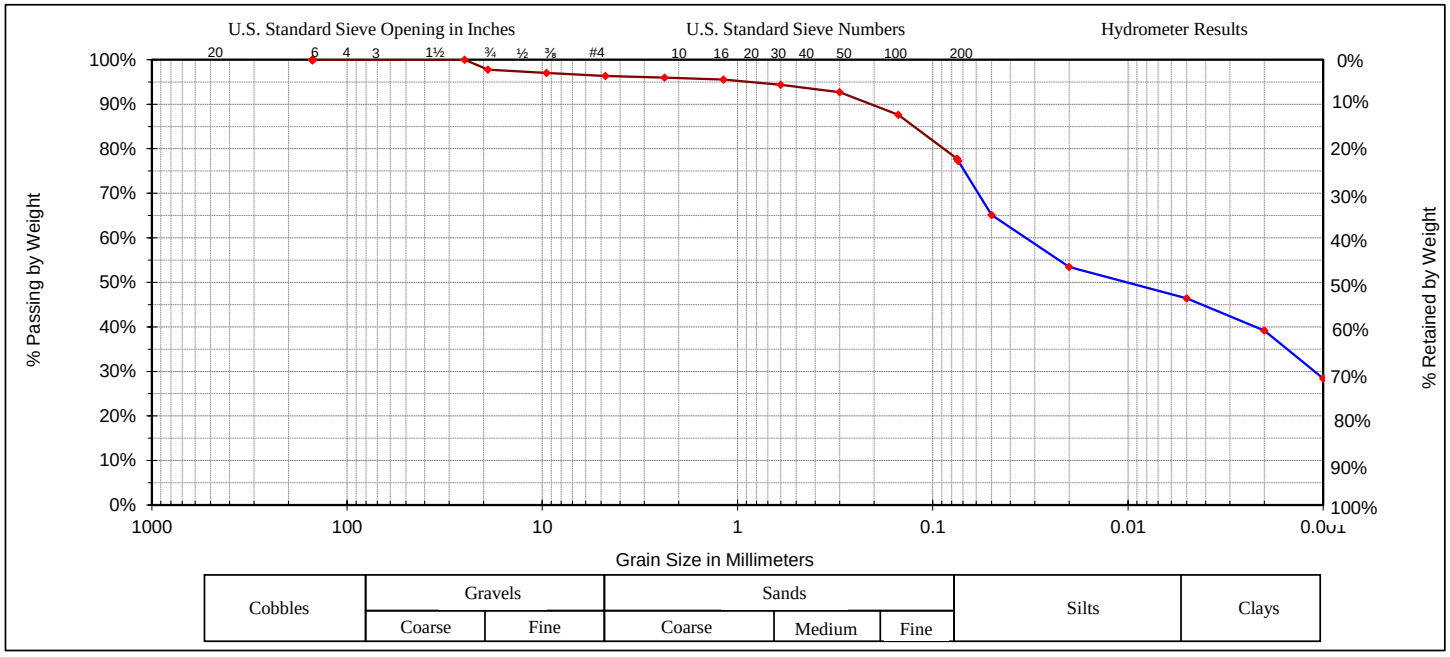
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	97.8%		
16.00 mm			
12.50 mm			
9.50 mm	97.0%		
6.30 mm			
4.75 mm	96.4%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	96.4%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	96.0%		
1.180 mm	95.5%		
0.600 mm	94.3%		
0.300 mm	92.7%		
0.150 mm	87.6%		
0.075 mm	77.8%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	77.3%
0.050 mm	65.2%
0.020 mm	53.5%
0.005 mm	46.4%
0.002 mm	39.2%
0.001 mm	28.4%



USCS Classification: CI

Gradation **% Gravel** 3.6% **% Sand** 18.6% **% Silt & Clay** 77.8%

Silt 31.3%

Clay 46.4%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	11-Oct-20	Report Number:	EMRS-L2-073
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 10 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	378.9			
MASS OF WATER (g)	89.7			
MOISTURE CONTENT	**23.7%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Standard Proctor (Method A&B) Moisture - Density Analysis

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D 698

Test Date:	14-Oct-20	Report Number:	EMRS-L2-073
File Number:	2001417	Contractor:	New Gold
Client:	New Gold	Sample Type:	Record
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / 10-OCT-20
Location:	EMRS	Copy To:	Tori Longmuir

TEST RESULTS						
TRIAL NUMBER	**1**	**2**	**3**	**4**	**5**	**6**
DRY DENSITY (kg/m³)	1667	1722	1692	1592		
MOISTURE CONTENT (W%)	14.8	17.0	20.8	23.8		

MATERIAL TYPE

CLAY

STANDARD PROCTOR RESULTS

DENSITY (kg/m³): **1728**

OPTIMUM MC (%): **18.0**

ROCK CORRECTION (If Required)

COARSE OVERSIZE (%):

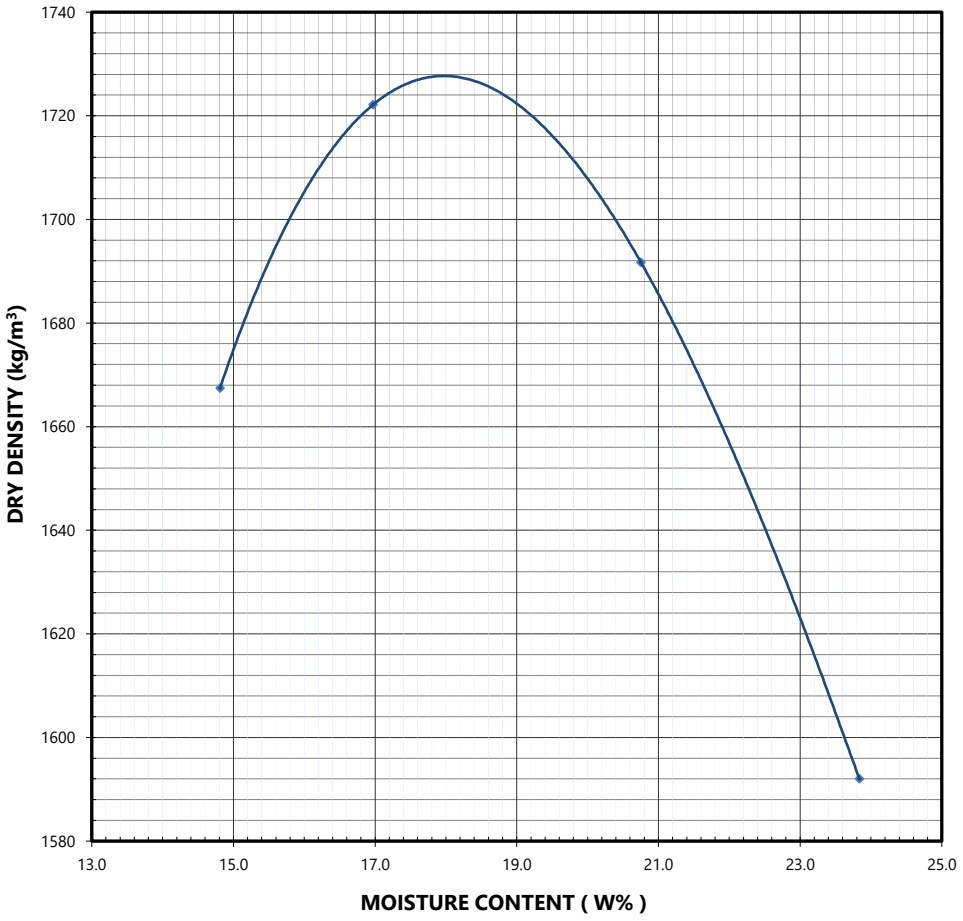
CORR. DENSITY (kg/m³):

CORR. MC (%):

TEST INFORMATION

METHOD OF COMPACTION:	**Method A**
	Standard
PREPARATION METHOD:	**Dry**
MC IF DETERMINED (%):	**23.7%**
DIAMETER OF MOLD (mm):	**101.6**
NO. OF LAYERS:	**3**
NO. BLOWS PER LAYER:	**25**
RAMMER DESCRIPTION:	**Manual**
HEIGHT OF FREE FALL (mm):	**304.8**
WEIGHT OF TAMPER (kg):	**2.495**
SHAPE OF TAMPING FACE:	**Circular Planer**
SAMPLE DESCRIPTION:	**CLAY**

MOISTURE DENSITY GRAPH WITH ZERO VOIDS LINE



COMMENTS

Reviewed By: <original signed by>

Joe Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	11-Oct-20	Report Number:	EMRS-L2-074
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 10 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	323.5			
MASS OF WATER (g)	71.2			
MOISTURE CONTENT	**22.0%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	11-Oct-20	Report Number:	EMRS-L2-075
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 10 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	356.6			
MASS OF WATER (g)	87.1			
MOISTURE CONTENT	**24.4%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

Allnorth

ATTERBERG LIMITS - LABORATORY RESULTS SUMMARY

ASTM D4318

Project:	Rainy River Mine Site	Sample Name.:	EMRS-L2-076	Sample Location:	EMRS
Project No.:	2001417	Laboratory:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold	Date Sampled:	Oct 10 2020	Test Type:	Record
Attention:	Luis Trujillo-Sanchez	Date Tested:	Oct 13 2020		

Sample Name	Sample Location	Depth (m)	Moisture Content (%)	Atterberg Limits			Mod. USCS	Soil Description Type, constituants/composition, structure, moisture, consistency, plasticity, colour, odour, inclusions.
				LL	PL	PI		
EMRS-L2-076	Pit Dump	N/A	23.3%	41	12	29	CI	Clay

Remarks: .

<original signed by>

Reviewed By:

Joe Harvey Materails Tech

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GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	14-Oct-20	**Report no.:**	EMRS-L2-076	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-076	**Sampled Date:**	10-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

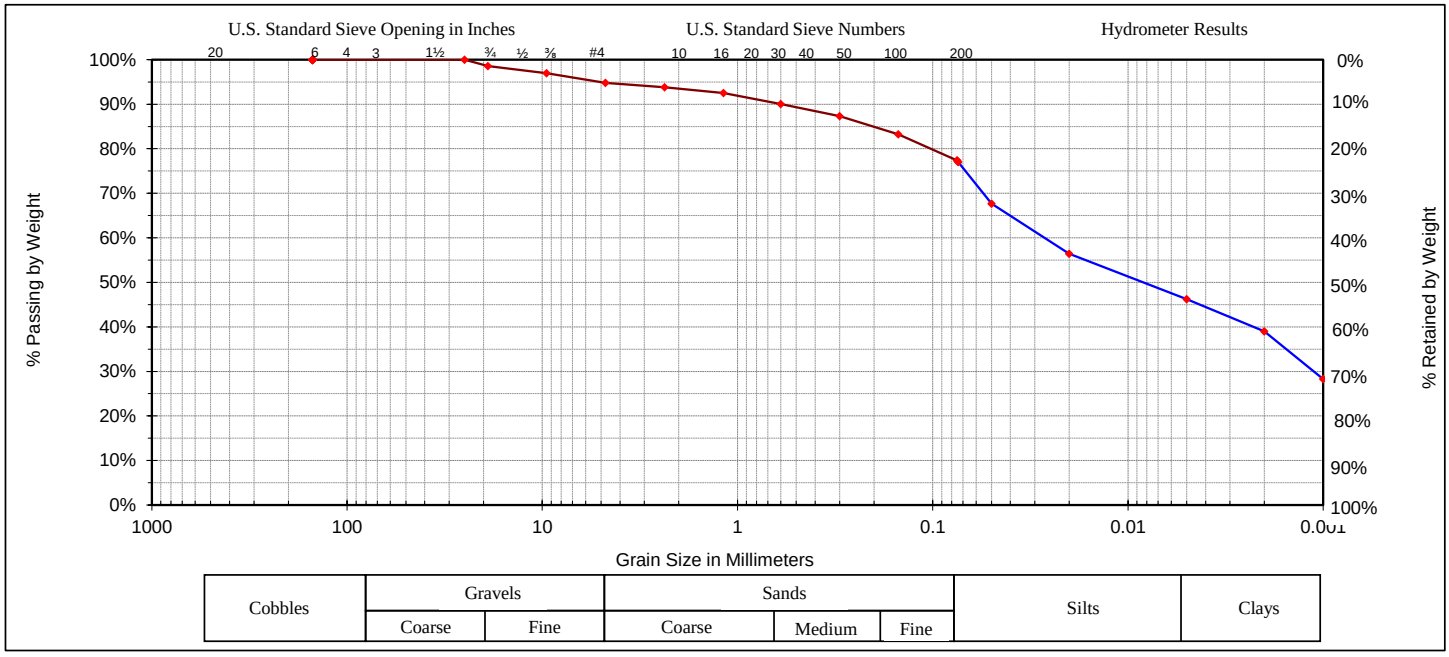
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm	100.0%		
22.40 mm			
19.00 mm	98.6%		
16.00 mm			
12.50 mm			
9.50 mm	97.0%		
6.30 mm			
4.75 mm	94.8%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	94.8%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	93.8%		
1.180 mm	92.5%		
0.600 mm	90.0%		
0.300 mm	87.3%		
0.150 mm	83.2%		
0.075 mm	77.4%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	77.0%
0.050 mm	67.7%
0.020 mm	56.4%
0.005 mm	46.2%
0.002 mm	39.0%
0.001 mm	28.3%



USCS Classification: CI

Gradation **% Gravel** 5.2% **% Sand** 17.4% **% Silt & Clay** 77.4%

Silt 31.2%

Clay 46.2%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	11-Oct-20	Report Number:	EMRS-L2-076
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 10 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	387.9			
MASS OF WATER (g)	90.2			
MOISTURE CONTENT	**23.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	14-Oct-20	**Report no.:**	EMRS-L2-077	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L2-077	**Sampled Date:**	10-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

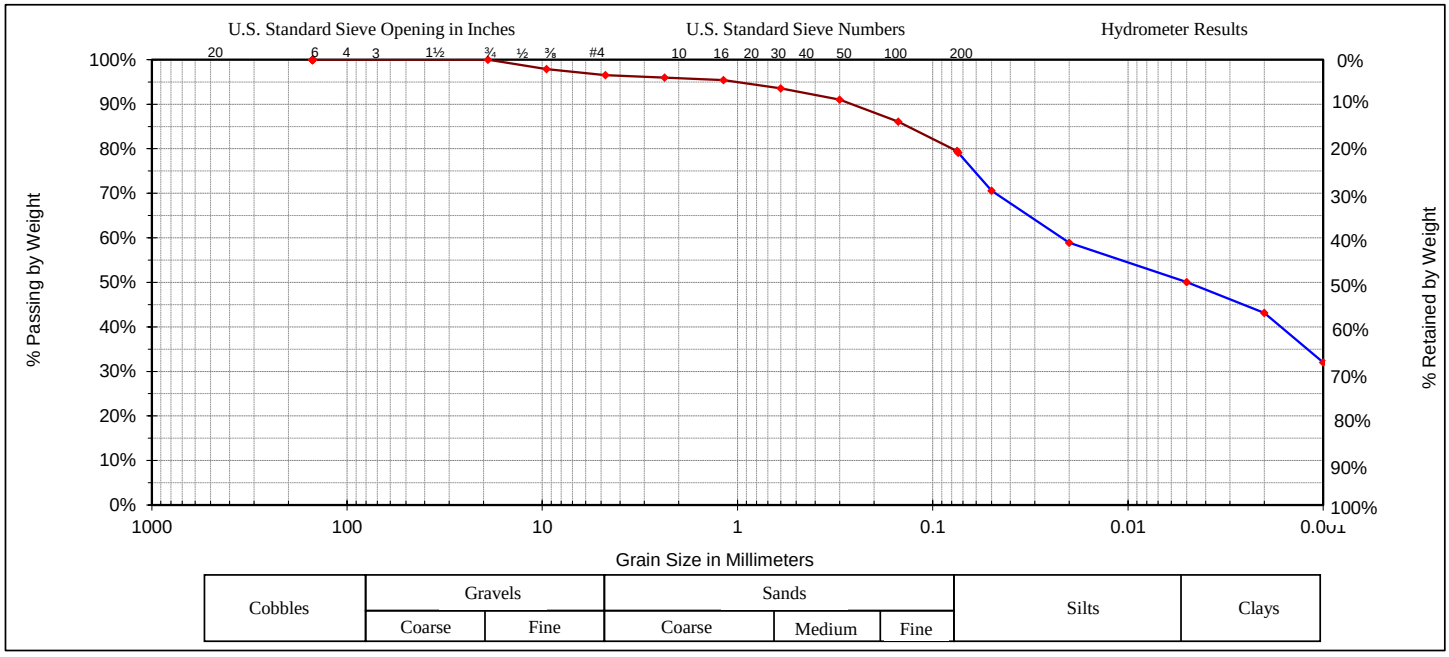
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	97.9%		
6.30 mm			
4.75 mm	96.5%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	96.5%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	96.0%		
1.180 mm	95.4%		
0.600 mm	93.6%		
0.300 mm	91.0%		
0.150 mm	86.1%		
0.075 mm	79.5%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	79.1%
0.050 mm	70.6%
0.020 mm	58.9%
0.005 mm	50.1%
0.002 mm	43.1%
0.001 mm	32.0%



USCS Classification: -

Gradation **% Gravel** 3.5% **% Sand** 17.1% **% Silt & Clay** 79.5%

Silt 29.4%

Clay 50.1%

Reviewed By:

<original signed by>

Joe Harvey Materials Tech

Comments:

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	13-Oct-20	Report Number:	EMRS-L3-078
File Number:	19SK0095	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 11 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	412.2			
MASS OF WATER (g)	93.5			
MOISTURE CONTENT	**22.7%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	22-Oct-20	**Report no.:**	EMRS-L3-079	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L3-079	**Sampled Date:**	19-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

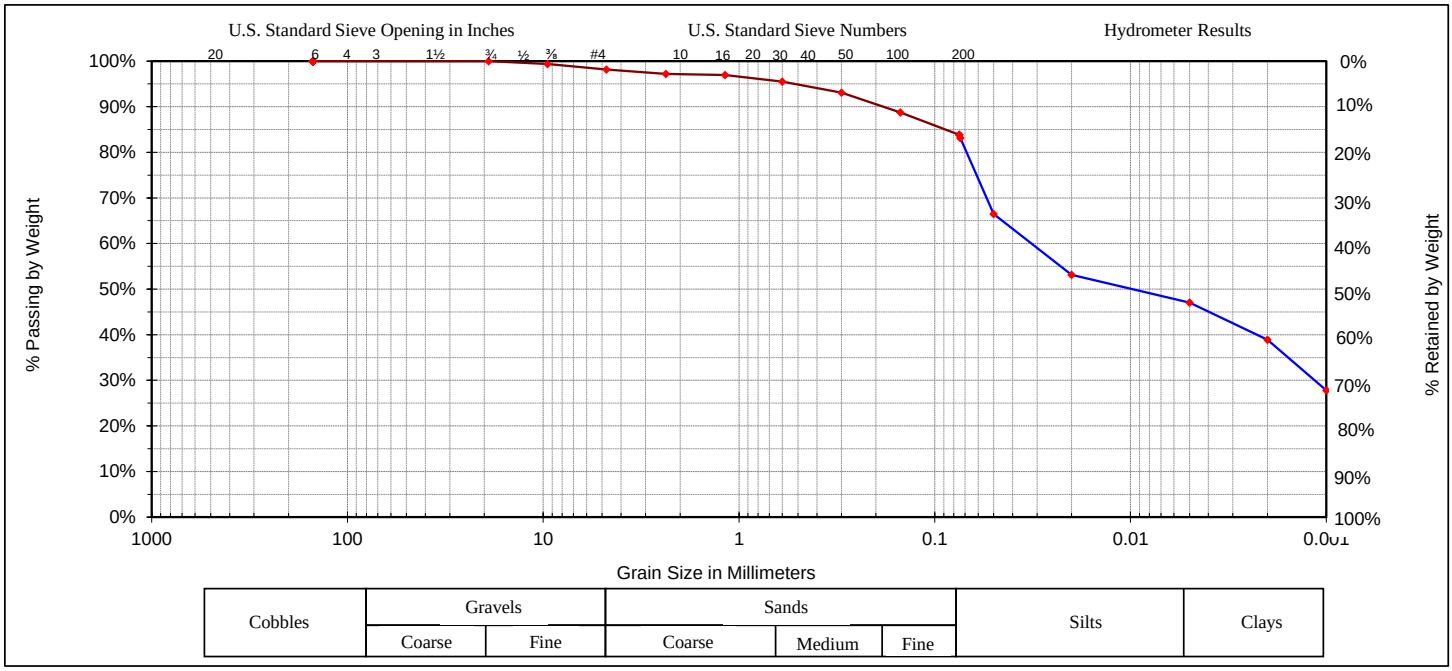
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	100.0%		
16.00 mm			
12.50 mm			
9.50 mm	99.4%		
6.30 mm			
4.75 mm	98.2%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	98.2%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	97.2%		
1.180 mm	97.0%		
0.600 mm	95.5%		
0.300 mm	93.1%		
0.150 mm	88.7%		
0.075 mm	83.9%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	83.2%
0.050 mm	66.5%
0.020 mm	53.2%
0.005 mm	47.1%
0.002 mm	38.9%
0.001 mm	27.8%



USCS Classification: 0.0%

Gradation **% Gravel** 1.8% **% Sand** 14.3% **% Silt & Clay** 83.9%

Silt 36.8%

Clay 47.1%

Reviewed By:

<original signed by>

Comments:

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	21-Oct-20	Report Number:	EMRS-L3-079
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 19 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	356.8			
MASS OF WATER (g)	107.4			
MOISTURE CONTENT	**30.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	21-Oct-20	Report Number:	EMRS-L3-080
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 19 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	383.0			
MASS OF WATER (g)	95.1			
MOISTURE CONTENT	**24.8%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	21-Oct-20	Report Number:	EMRS-L4-081
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 20 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	396.1			
MASS OF WATER (g)	89			
MOISTURE CONTENT	**22.5%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	21-Oct-20	Report Number:	EMRS-L4-082
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 20 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	398.7			
MASS OF WATER (g)	90.6			
MOISTURE CONTENT	**22.7%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	22-Oct-20	Report Number:	EMRS-L4-083
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 21 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	434.1			
MASS OF WATER (g)	105.4			
MOISTURE CONTENT	**24.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	22-Oct-20	Report Number:	EMRS-L4-084
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 21 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	456.6			
MASS OF WATER (g)	92			
MOISTURE CONTENT	**20.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	22-Oct-20	Report Number:	EMRS-L4-085
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 21 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	472.7			
MASS OF WATER (g)	108.8			
MOISTURE CONTENT	**23.0%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	26-Oct-20	**Report no.:**	EMRS-L4-087	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L4-087	**Sampled Date:**	22-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

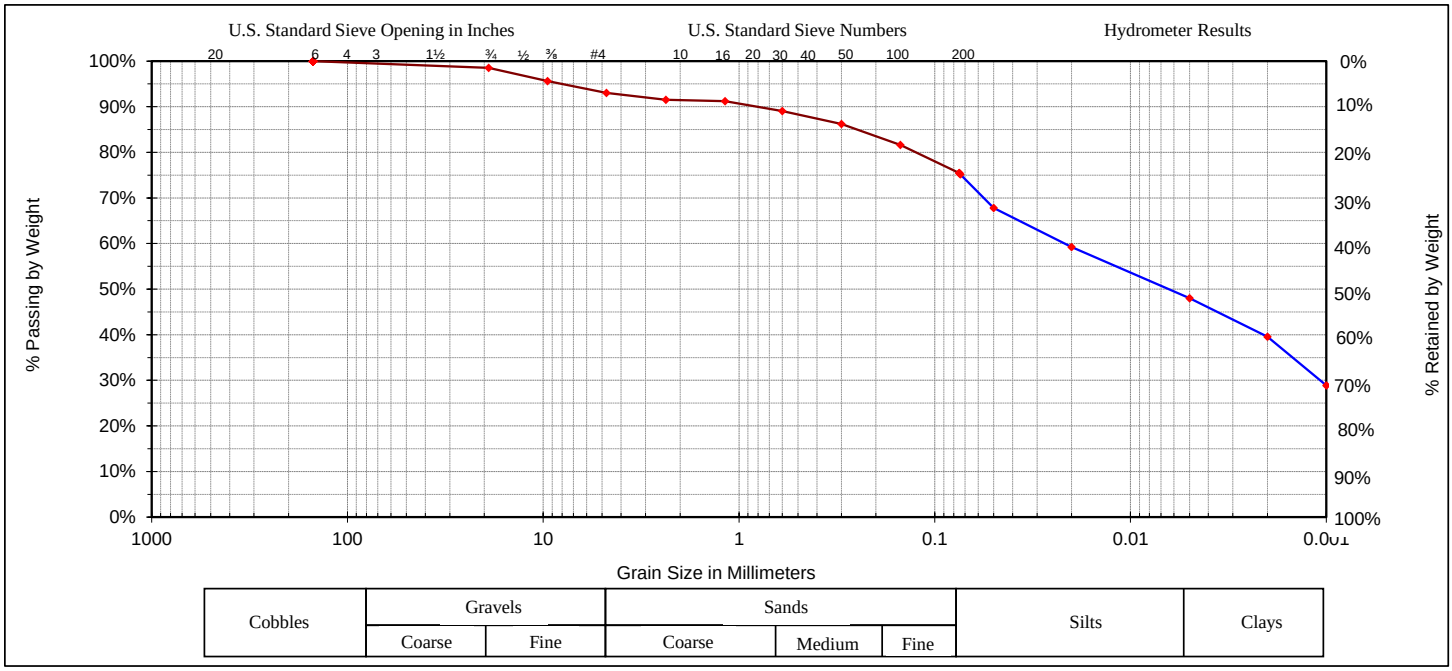
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	98.5%		
16.00 mm			
12.50 mm			
9.50 mm	95.6%		
6.30 mm			
4.75 mm	93.0%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	93.0%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	91.6%		
1.180 mm	91.2%		
0.600 mm	89.0%		
0.300 mm	86.2%		
0.150 mm	81.7%		
0.075 mm	75.5%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	75.2%
0.050 mm	67.8%
0.020 mm	59.2%
0.005 mm	48.0%
0.002 mm	39.6%
0.001 mm	28.9%



USCS Classification: 0.0%

Gradation **% Gravel** 7.0% **% Sand** 17.6% **% Silt & Clay** 75.5%

Silt 27.5%

Clay 48.0%

Reviewed By:

<original signed by>

Comments:

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	24-Oct-20	Report Number:	EMRS-L4-089
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 23 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	531.3			
MASS OF WATER (g)	121.7			
MOISTURE CONTENT	**22.9%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By:

<original signed by>

Sean Li Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	26-Oct-20	**Report no.:**	EMRS-L4-090	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L4-090	**Sampled Date:**	23-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

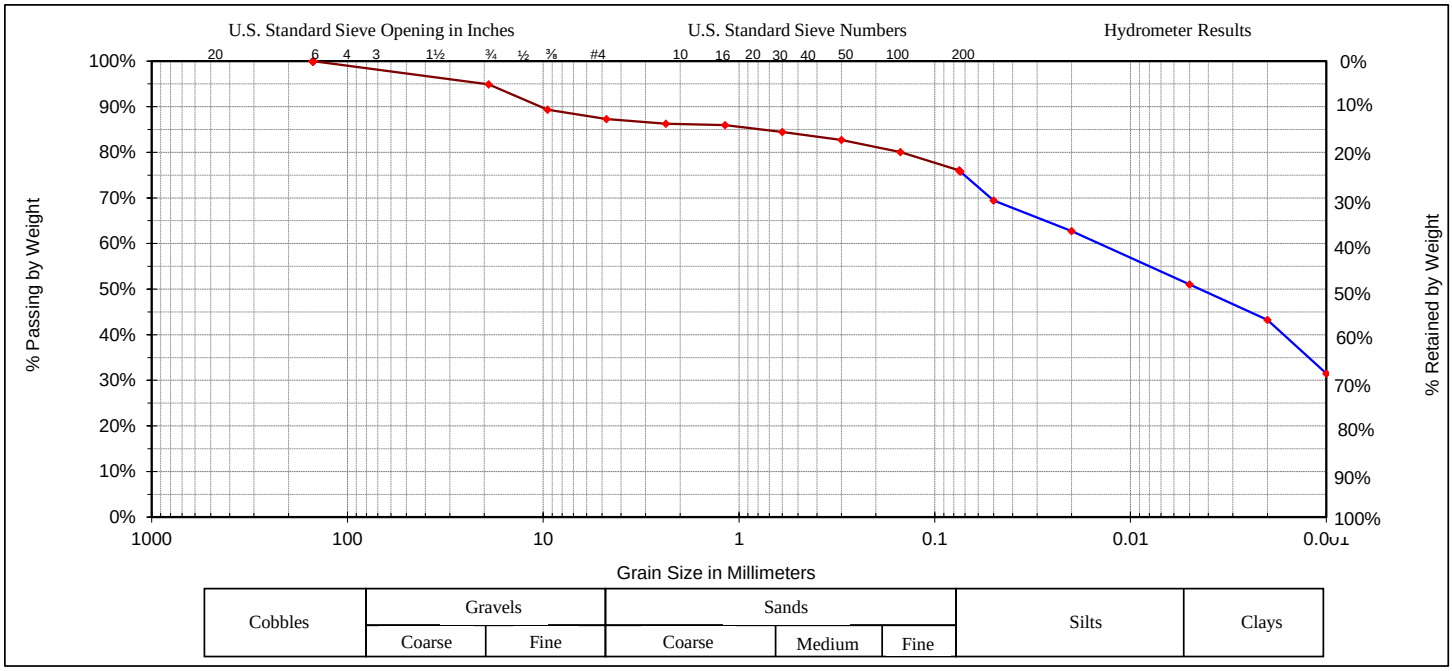
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	94.9%		
16.00 mm			
12.50 mm			
9.50 mm	89.4%		
6.30 mm			
4.75 mm	87.3%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	87.3%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	86.3%		
1.180 mm	86.0%		
0.600 mm	84.5%		
0.300 mm	82.7%		
0.150 mm	80.0%		
0.075 mm	76.0%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	75.8%
0.050 mm	69.5%
0.020 mm	62.8%
0.005 mm	51.0%
0.002 mm	43.2%
0.001 mm	31.5%



USCS Classification: 0.0%

Gradation **% Gravel** 12.7% **% Sand** 11.3% **% Silt & Clay** 76.0%

Silt 25.0%

Clay 51.0%

Reviewed By:

<original signed by>

Comments:

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	24-Oct-20	Report Number:	EMRS-L4-090
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 23 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	491.8			
MASS OF WATER (g)	117.1			
MOISTURE CONTENT	**23.8%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

Test Date :	28-Oct-20	**Report no.:**	EMRS-L4-092	**Location:**	EMRS		
Project:	Rainy River Mine Site	**Job #:**	2001417				
Client:	New Gold	**Lab Tag #:**	EMRS-L4-092	**Sampled Date:**	24-Oct-20	**Sample Type:**	Record Test
Inspector:	Allnorth	**Material Type:**	Clay	**Sample by:**	Tulloch Engineering		

Coarse Section

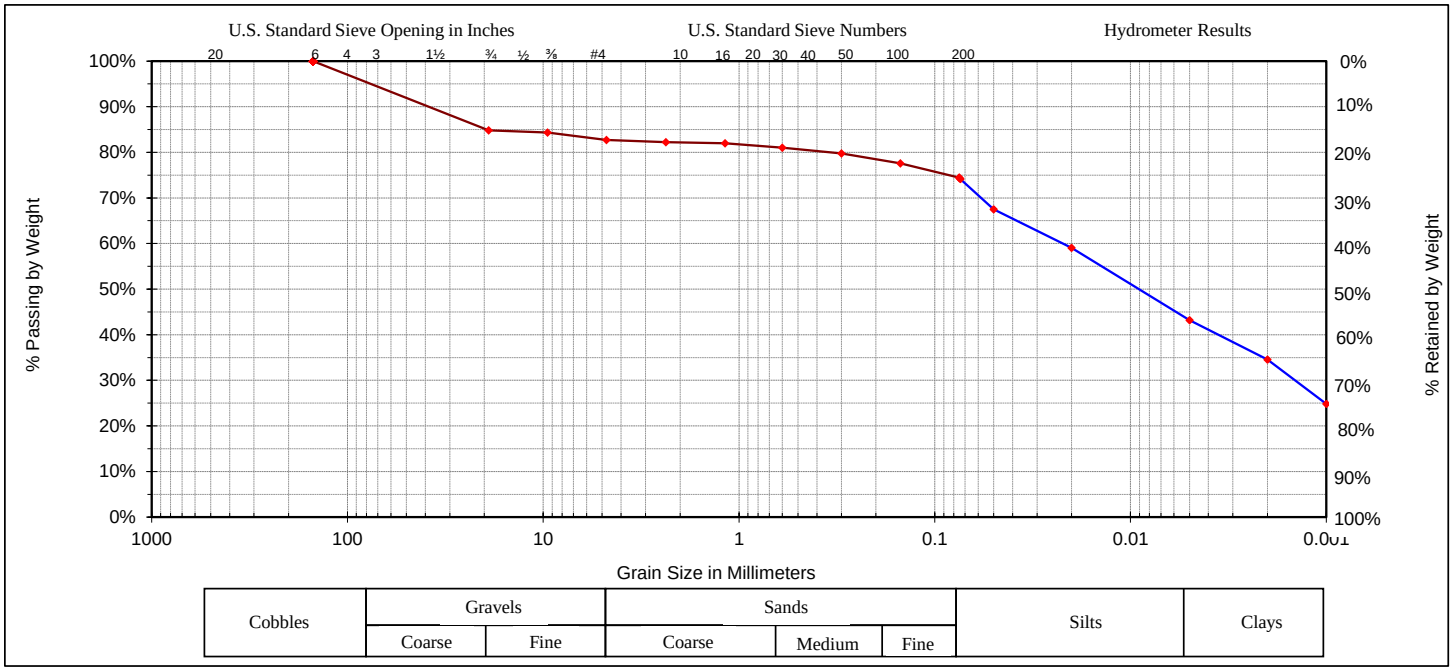
Sieve Size	Percent Passing	Specs Max	Specs Min
150.00 mm			
100.00 mm			
75.00 mm			
63.00 mm			
50.00 mm			
45.00 mm			
37.50 mm			
31.50 mm			
25.00 mm			
22.40 mm			
19.00 mm	84.8%		
16.00 mm			
12.50 mm			
9.50 mm	84.3%		
6.30 mm			
4.75 mm	82.7%		

Fines Section

Sieve Size	Percent Passing	Specs Max	Specs Min
4.750 mm	82.7%		
50.000 mm			
37.000 mm			
25.000 mm			
19.000 mm			
12.500 mm			
9.500 mm			
4.750 mm			
2.360 mm	82.2%		
1.180 mm	82.0%		
0.600 mm	81.0%		
0.300 mm	79.7%		
0.150 mm	77.6%		
0.075 mm	74.4%		
0.053 mm			

Hydrometer Results

Size	Percent Passing
0.074 mm	74.2%
0.050 mm	67.5%
0.020 mm	59.1%
0.005 mm	43.2%
0.002 mm	34.5%
0.001 mm	24.8%



USCS Classification: 0.0%

Gradation **% Gravel** 17.3% **% Sand** 8.3% **% Silt & Clay** 74.4%

Silt 31.2%

Clay 43.2%

Reviewed By:

<original signed by>

Comments:

-

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	26-Oct-20	Report Number:	T2-EMRS-L1-093
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 25 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	522.9			
MASS OF WATER (g)	145.8			
MOISTURE CONTENT	**27.9%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	26-Oct-20	Report Number:	T3-EMRS-L1-094
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 25 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	540.8			
MASS OF WATER (g)	114			
MOISTURE CONTENT	**21.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	27-Oct-20	Report Number:	EMRS-ST-095
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 26 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	447.5			
MASS OF WATER (g)	149.5			
MOISTURE CONTENT	**33.4%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	27-Oct-20	Report Number:	EMRS-ST-096
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 26 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	483.1			
MASS OF WATER (g)	107.7			
MOISTURE CONTENT	**22.3%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	27-Oct-20	Report Number:	EMRS-ST-097
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 26 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	436.7			
MASS OF WATER (g)	151.6			
MOISTURE CONTENT	**34.7%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	27-Oct-20	Report Number:	EMRS-ST-098
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 26 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	462.9			
MASS OF WATER (g)	146.4			
MOISTURE CONTENT	**31.6%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Moisture Content Test Report

24 Marr Road Barwick, ON P0W 1A0 Phone: 306-242-4303

ASTM D2216

Test Date:	27-Oct-20	Report Number:	EMRS-ST-099
File Number:	2001417	Contractor:	Tulloch Engineering
Client:	New Gold	Sample Type:	Record Sample
Project:	Rainy River Mine Site	Sampled By/Date:	Tulloch / Oct 26 2020
Location:	EMRS	Copy To:	Tori Longmuir

TEST DETAILS

MATERIAL TYPE:	CLAY
SAMPLE METHOD:	By Mass, Method A
TIME SAMPLED:	N/A

TEST RESULTS

SAMPLE NUMBER	1			
MASS OF DRY SAMPLE (g)	481.7			
MASS OF WATER (g)	111.3			
MOISTURE CONTENT	**23.1%**			

VISUAL INDENTIFICATION (If Required)

SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION

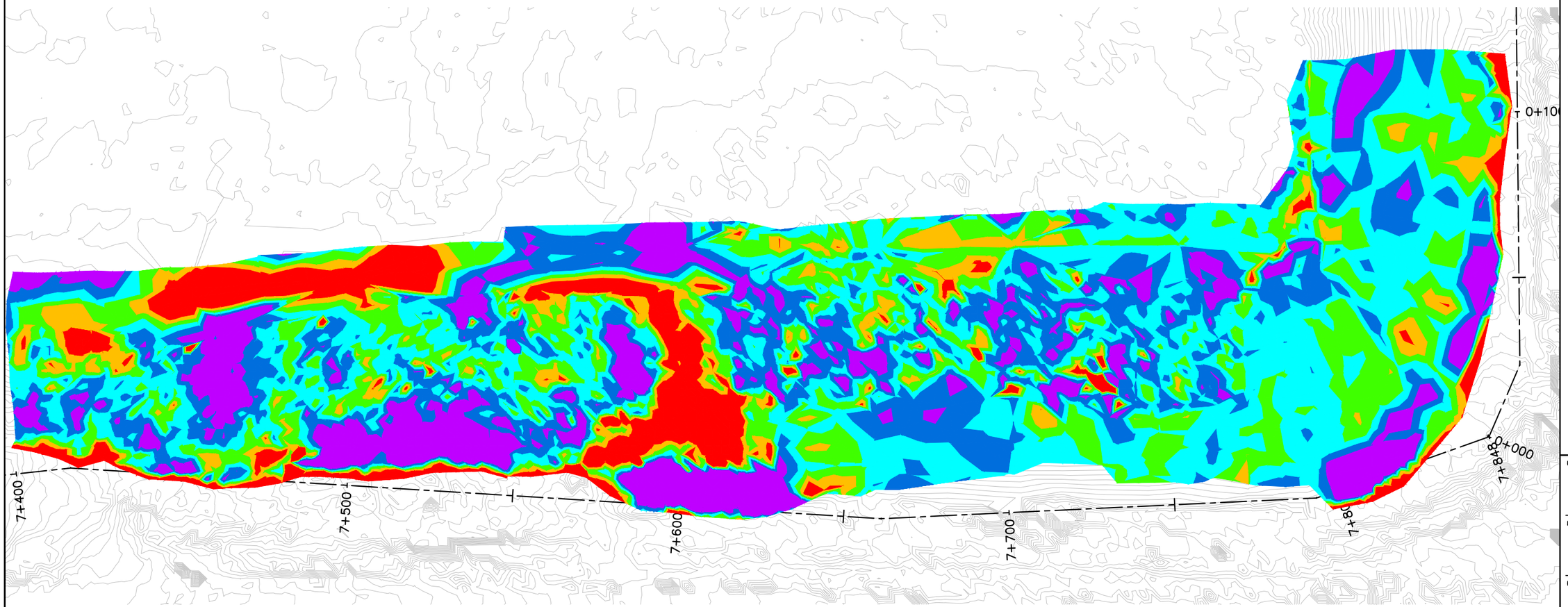
COMMENTS

Reviewed By: <original signed by>

Sean Li Materials Tech

Appendix C

Tulloch Daily Placement Maps



EMRS RECLAMATION – CCL HEAT MAP

(OCTOBER 26, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- < 0.3m
- 0.3m to 0.4m
- 0.4m to 0.5m
- 0.5m to 0.6m
- 0.6m to 0.7m
- > 0.7m

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

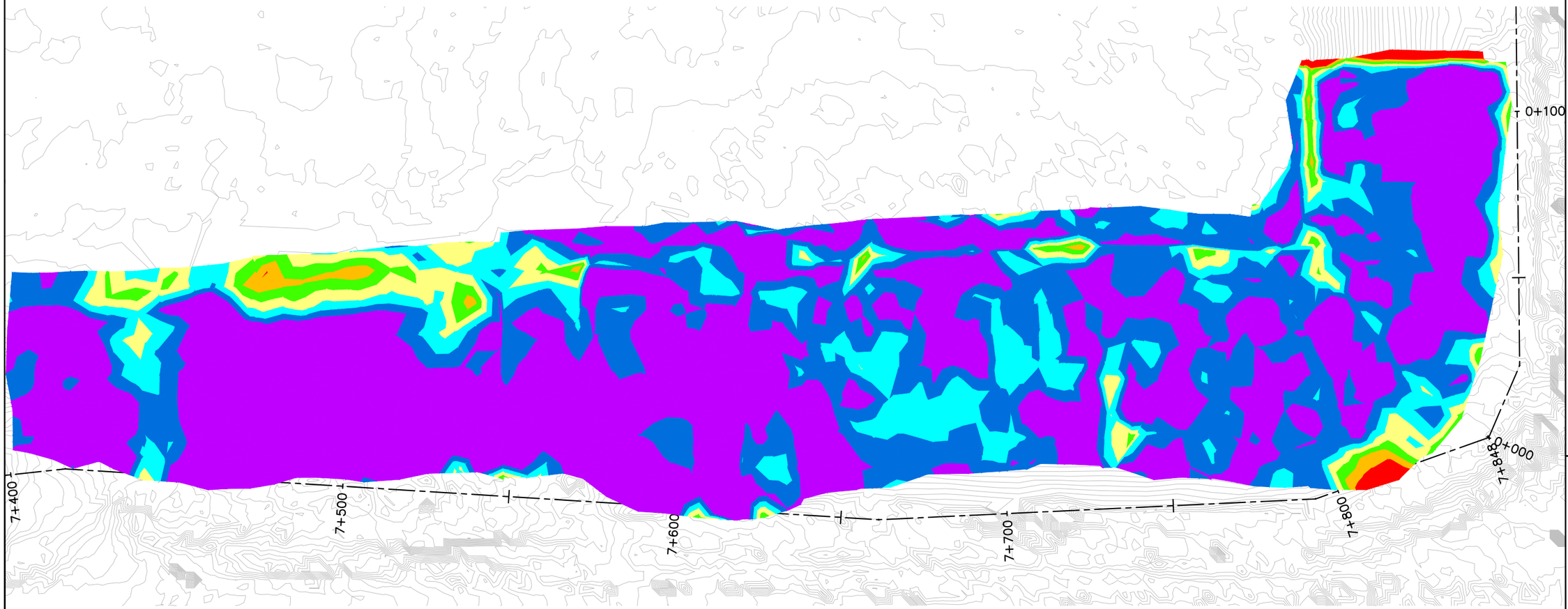
PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
CCL
HEAT MAP

DATE	NOVEMBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
H-1	19-1138	113



EMRS RECLAMATION – NCL HEAT MAP

(OCTOBER 26, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- < 0.5m
- 0.5m to 0.6m
- 0.6m to 0.7m
- 0.7m to 0.8m
- 0.8m to 0.9m
- 0.9m to 1.0m
- > 1.0m

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

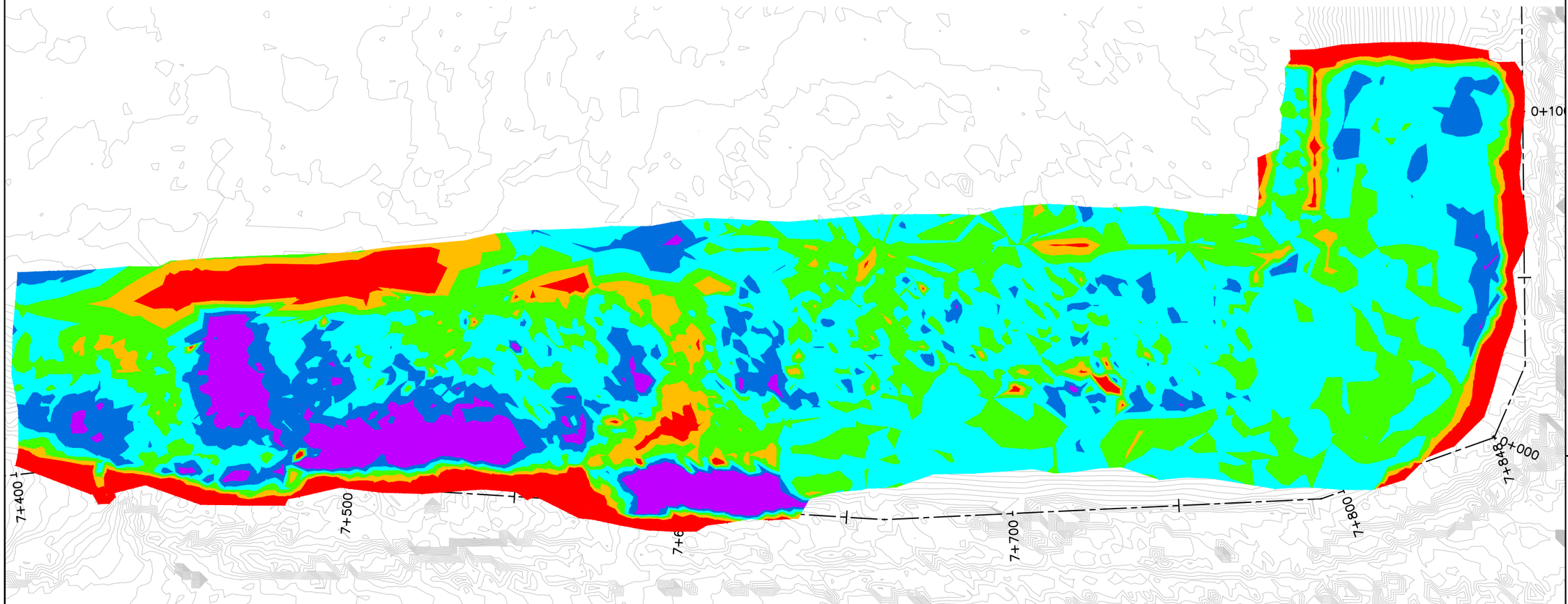
PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
NCL
HEAT MAP

DATE	NOVEMBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
H-2	19-1138	113



EMRS RECLAMATION – TOTAL CLAY HEAT MAP

(OCTOBER 26, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- < 1.1m
- 1.1m to 1.3m
- 1.3m to 1.5m
- 1.5m to 1.7m
- 1.7m to 1.9m
- > 1.9m

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
TOTAL CLAY
HEAT MAP

DATE	NOVEMBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

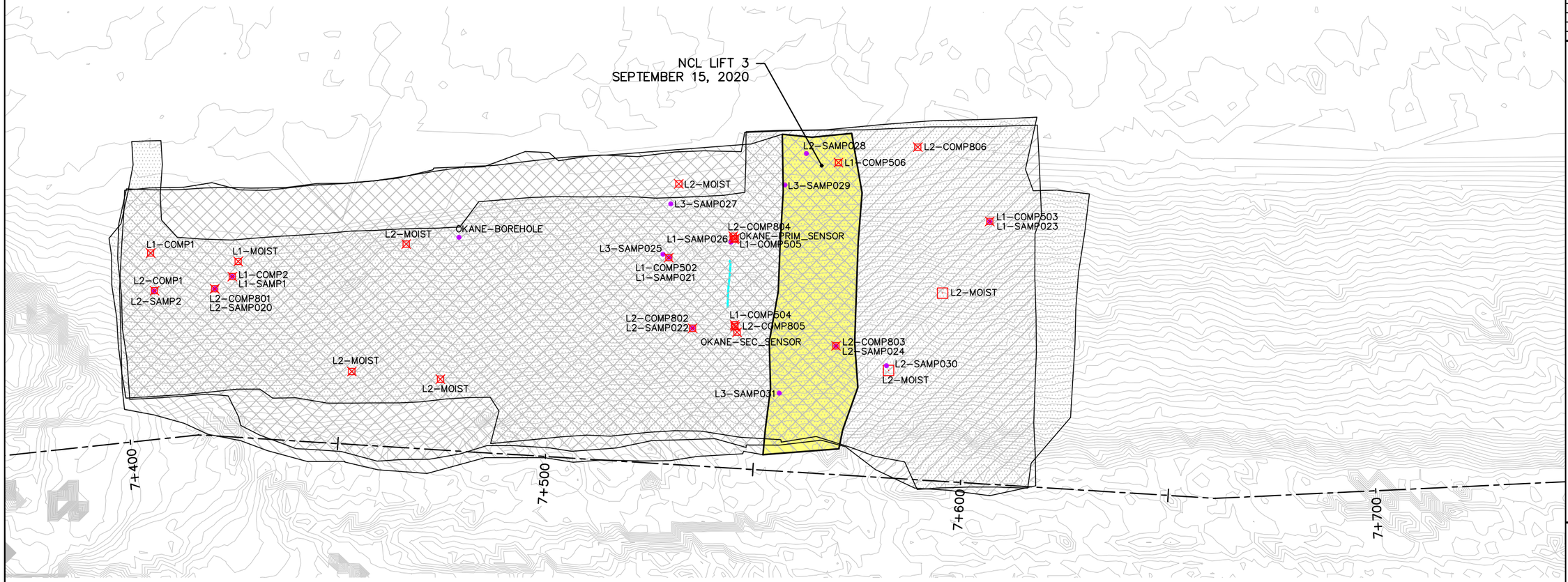
DWG. No.	PROJECT No.	PHASE No.
H-3	19-1138	113

EMRS RECLAMATION

CCL LIFT 1
PLACED SEPTEMBER 15, 2020 = 0m^3
PLACED TO DATE = 4,690m^3

CCL LIFT 2
PLACED SEPTEMBER 15, 2020 = 0m^3
PLACED TO DATE = 2,769m^3

NCL LIFT 3
PLACED SEPTEMBER 15, 2020 = 878m^3
PLACED TO DATE = 6,357m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 15, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- COMPACTION TEST LOCATION
- SAMPLE LOCATION
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 16, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

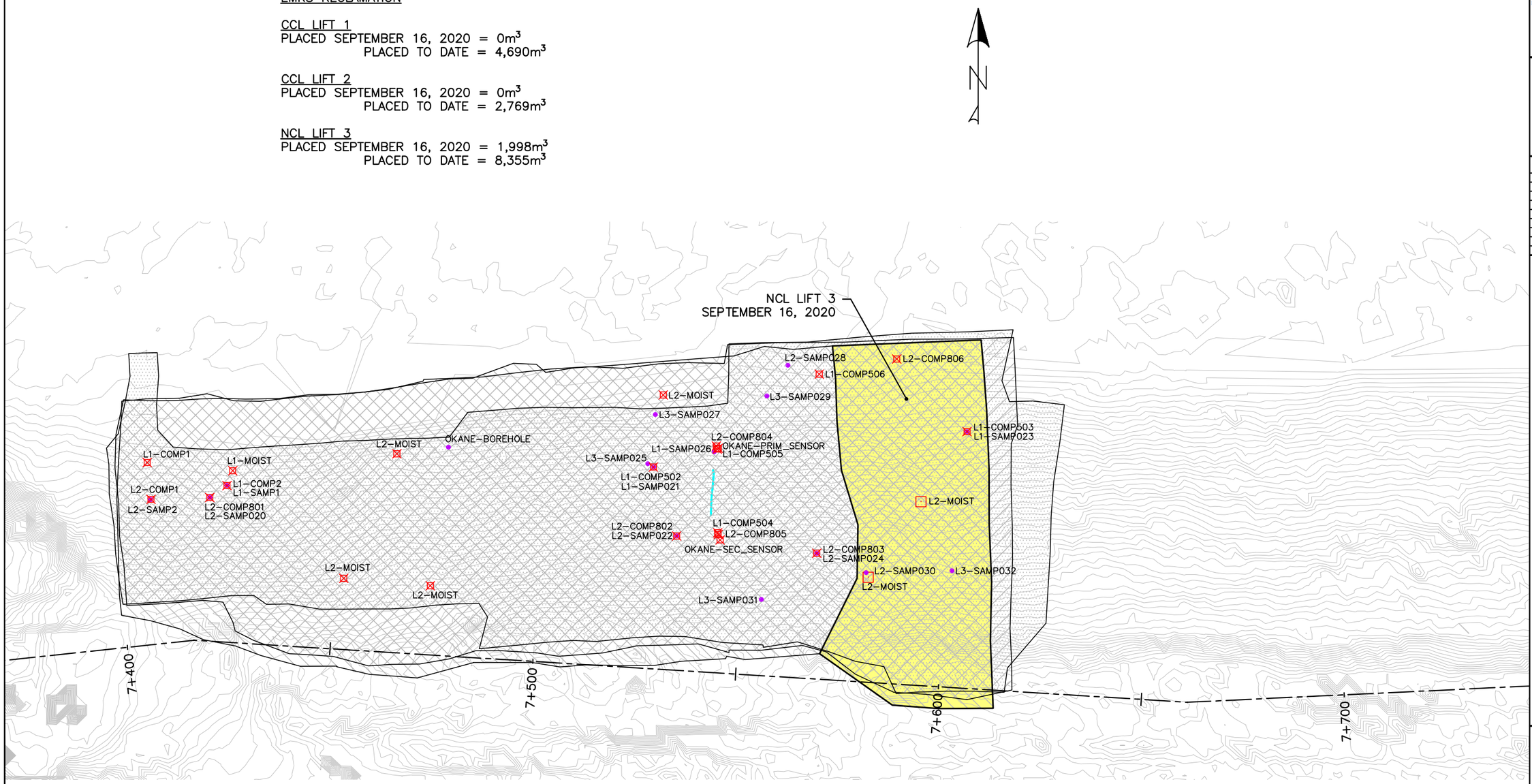
DWG. No.	PROJECT No.	REV. No.
D-1	19-1138	0

EMRS RECLAMATION

CCL LIFT 1
PLACED SEPTEMBER 16, 2020 = 0m^3
PLACED TO DATE = 4,690m^3

CCL LIFT 2
PLACED SEPTEMBER 16, 2020 = 0m^3
PLACED TO DATE = 2,769m^3

NCL LIFT 3
PLACED SEPTEMBER 16, 2020 = 1,998m^3
PLACED TO DATE = 8,355m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 16, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- COMPACTION TEST LOCATION
- SAMPLE LOCATION
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 17, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	REV. No.
D-1	19-1138	0

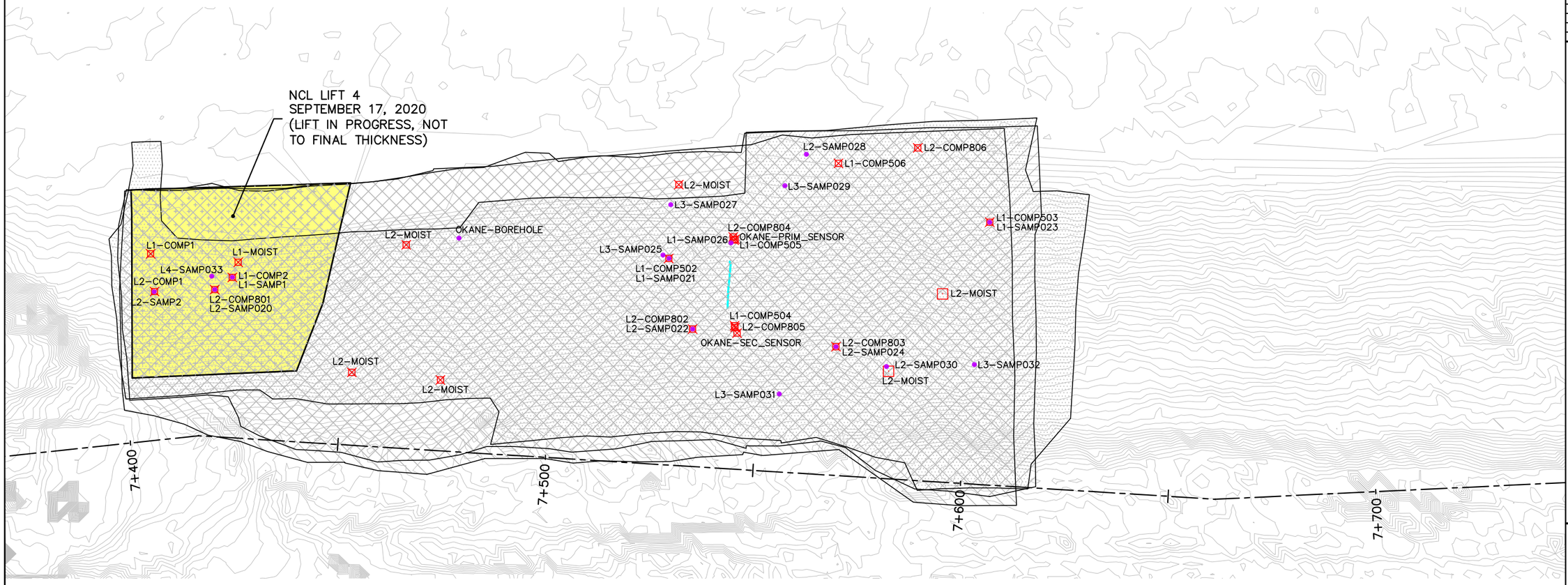
EMRS RECLAMATION

CCL LIFT 1
PLACED SEPTEMBER 17, 2020 = 0m^3
PLACED TO DATE = 4,690m^3

CCL LIFT 2
PLACED SEPTEMBER 17, 2020 = 0m^3
PLACED TO DATE = 2,769m^3

NCL LIFT 3
PLACED SEPTEMBER 17, 2020 = 0m^3
PLACED TO DATE = 8,355m^3

NCL LIFT 4
PLACED SEPTEMBER 17, 2020 = 1,300m^3(Approximate)
PLACED TO DATE = 1,300m^3(Approximate)



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 17, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- COMPACTION TEST LOCATION
- SAMPLE LOCATION
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 18, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	REV. No.
D-1	19-1138	0

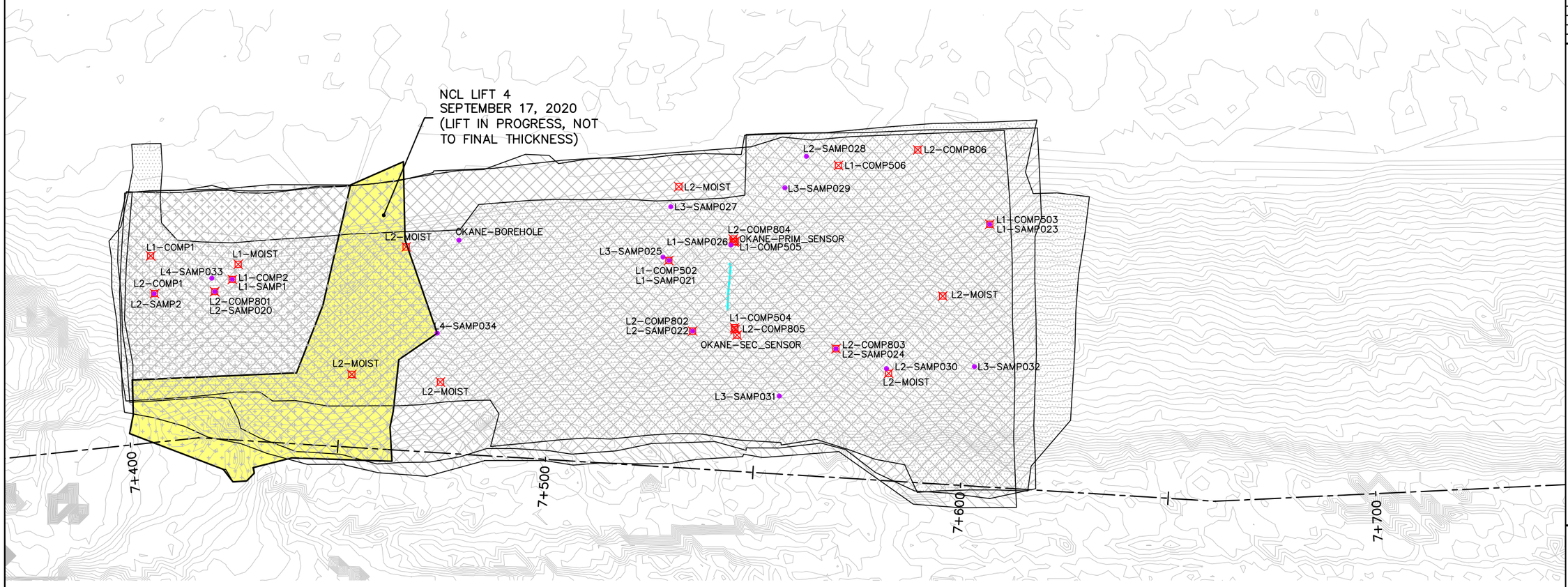
EMRS RECLAMATION

CCL LIFT 1
PLACED SEPTEMBER 18, 2020 = 0m^3
PLACED TO DATE = 4,690m^3

CCL LIFT 2
PLACED SEPTEMBER 18, 2020 = 0m^3
PLACED TO DATE = 2,769m^3

NCL LIFT 3
PLACED SEPTEMBER 18, 2020 = 0m^3
PLACED TO DATE = 8,355m^3

NCL LIFT 4
PLACED SEPTEMBER 18, 2020 = 840m^3 (Approximate)
PLACED TO DATE = 2,140m^3 (Approximate)



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 18, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- COMPACTION TEST LOCATION
- SAMPLE LOCATION
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 19, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	REV. No.
D-1	19-1138	0

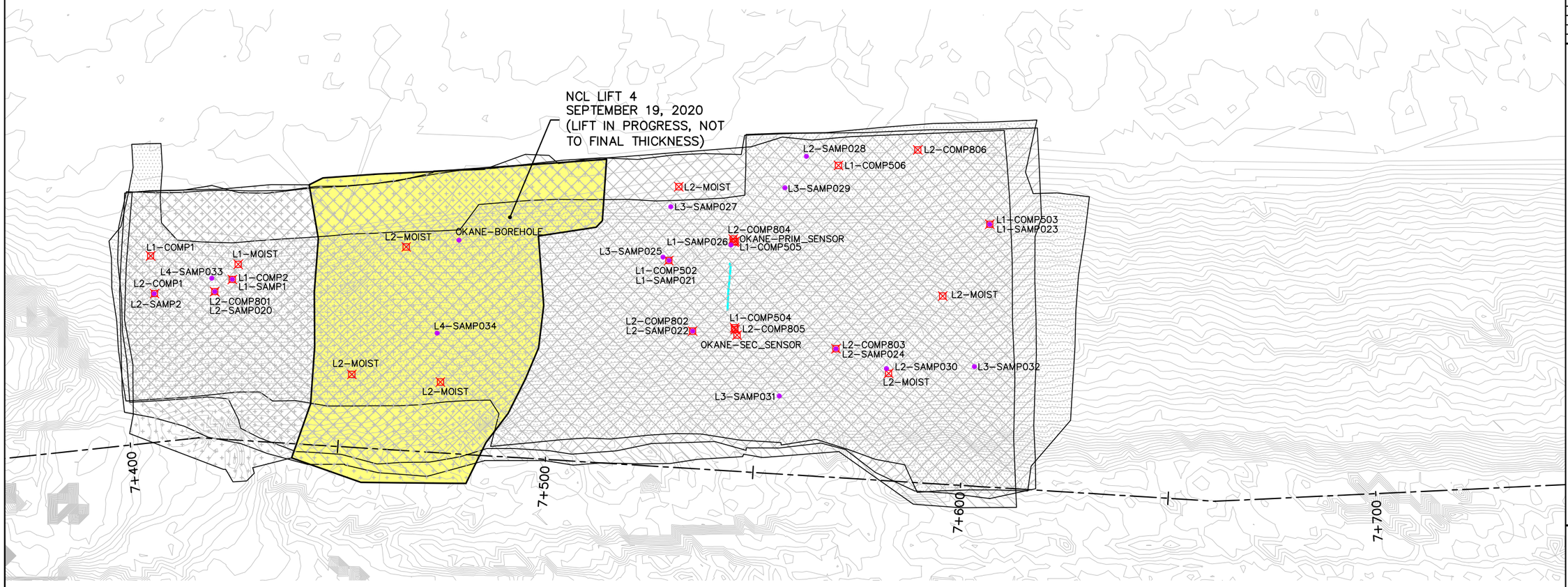
EMRS RECLAMATION

CCL LIFT 1
PLACED SEPTEMBER 19, 2020 = 0m^3
PLACED TO DATE = 4,690m^3

CCL LIFT 2
PLACED SEPTEMBER 19, 2020 = 0m^3
PLACED TO DATE = 2,769m^3

NCL LIFT 3
PLACED SEPTEMBER 19, 2020 = 0m^3
PLACED TO DATE = 8,355m^3

NCL LIFT 4
PLACED SEPTEMBER 19, 2020 = 1,762m^3 (Approximate)
PLACED TO DATE = 3,902m^3 (Approximate)



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 19, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- COMPACTION TEST LOCATION
- SAMPLE LOCATION
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 20, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	REV. No.
D-1	19-1138	0

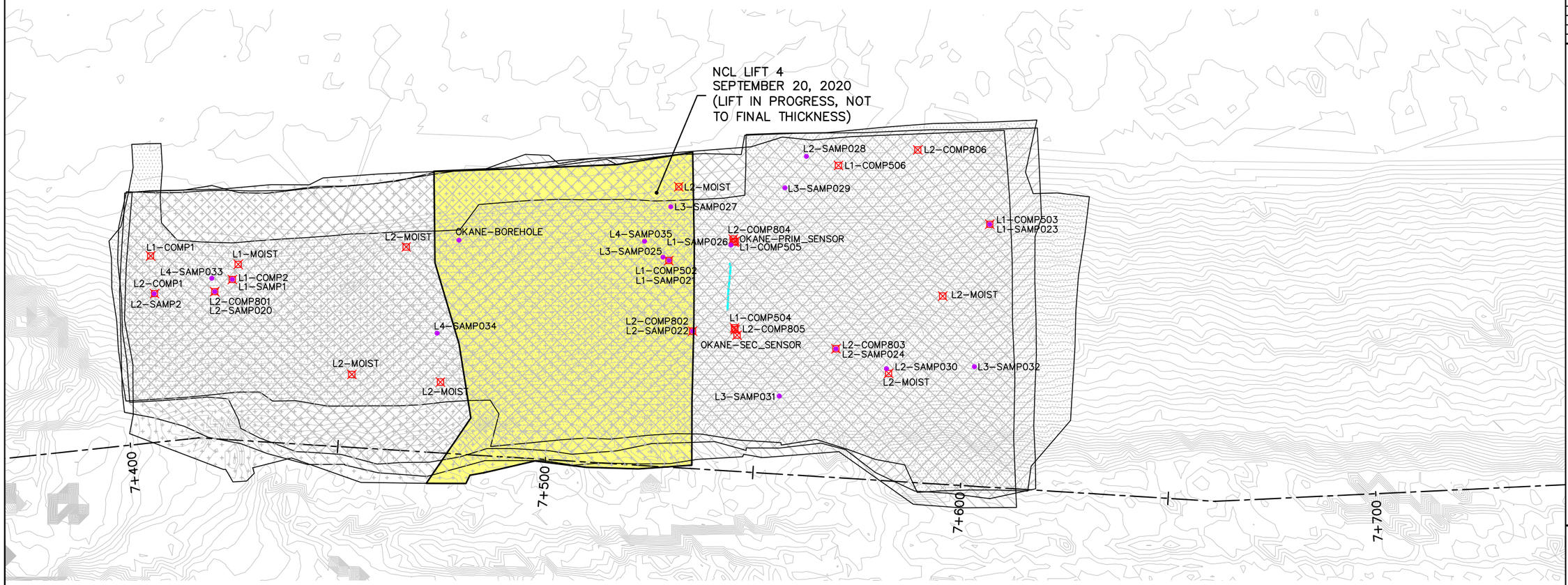
EMRS RECLAMATION

CCL LIFT 1
PLACED SEPTEMBER 20, 2020 = 0m^3
PLACED TO DATE = 4,690m^3

CCL LIFT 2
PLACED SEPTEMBER 20, 2020 = 0m^3
PLACED TO DATE = 2,769m^3

NCL LIFT 3
PLACED SEPTEMBER 20, 2020 = 0m^3
PLACED TO DATE = 8,355m^3

NCL LIFT 4
PLACED SEPTEMBER 20, 2020 = 789m^3 (Approximate)
PLACED TO DATE = 4,691m^3 (Approximate)



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 20, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- COMPACTION TEST LOCATION
- SAMPLE LOCATION
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 21, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	REV. No.
D-1	19-1138	0

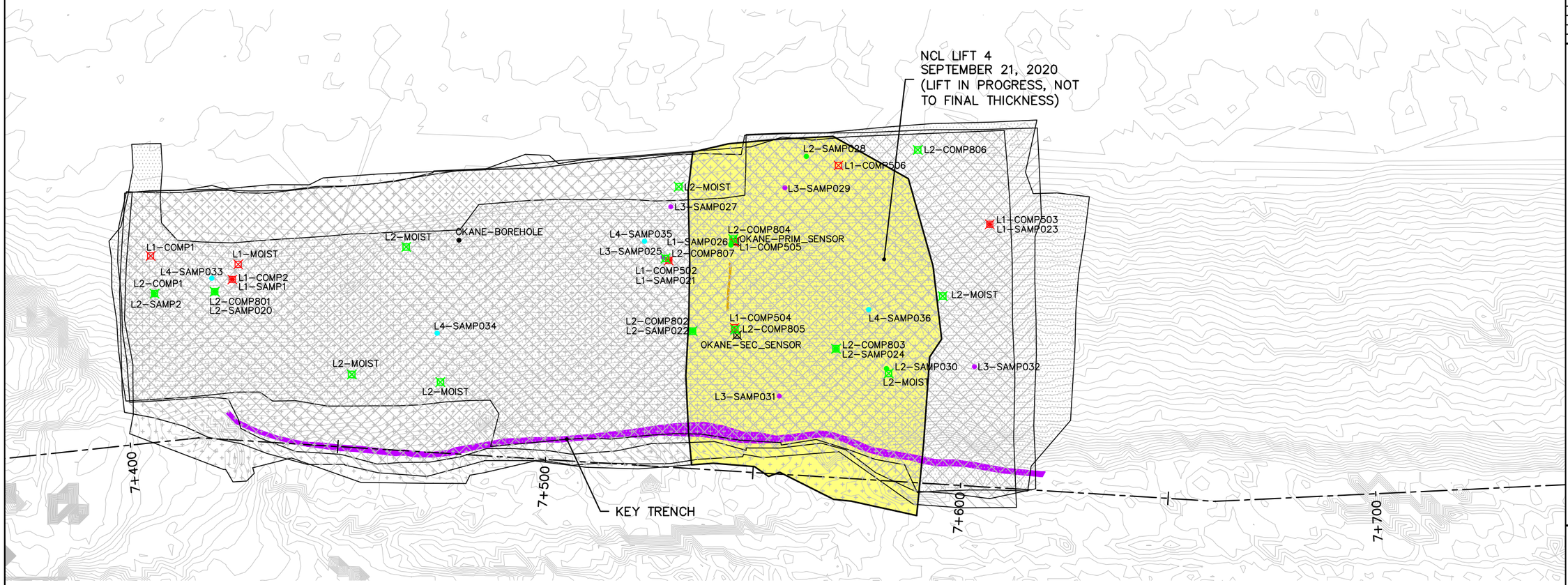
EMRS RECLAMATION

CCL LIFT 1
PLACED SEPTEMBER 21, 2020 = 0m³
PLACED TO DATE = 4,690m³

CCL LIFT 2
PLACED SEPTEMBER 21, 2020 = 0m³
PLACED TO DATE = 2,769m³

NCL LIFT 3
PLACED SEPTEMBER 21, 2020 = 0m³
PLACED TO DATE = 8,355m³

NCL LIFT 4
PLACED SEPTEMBER 21, 2020 = 2,015m³
PLACED TO DATE = 6,706m³



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 21, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 22, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	REV. No.
D-1	19-1138	0

EMRS RECLAMATION

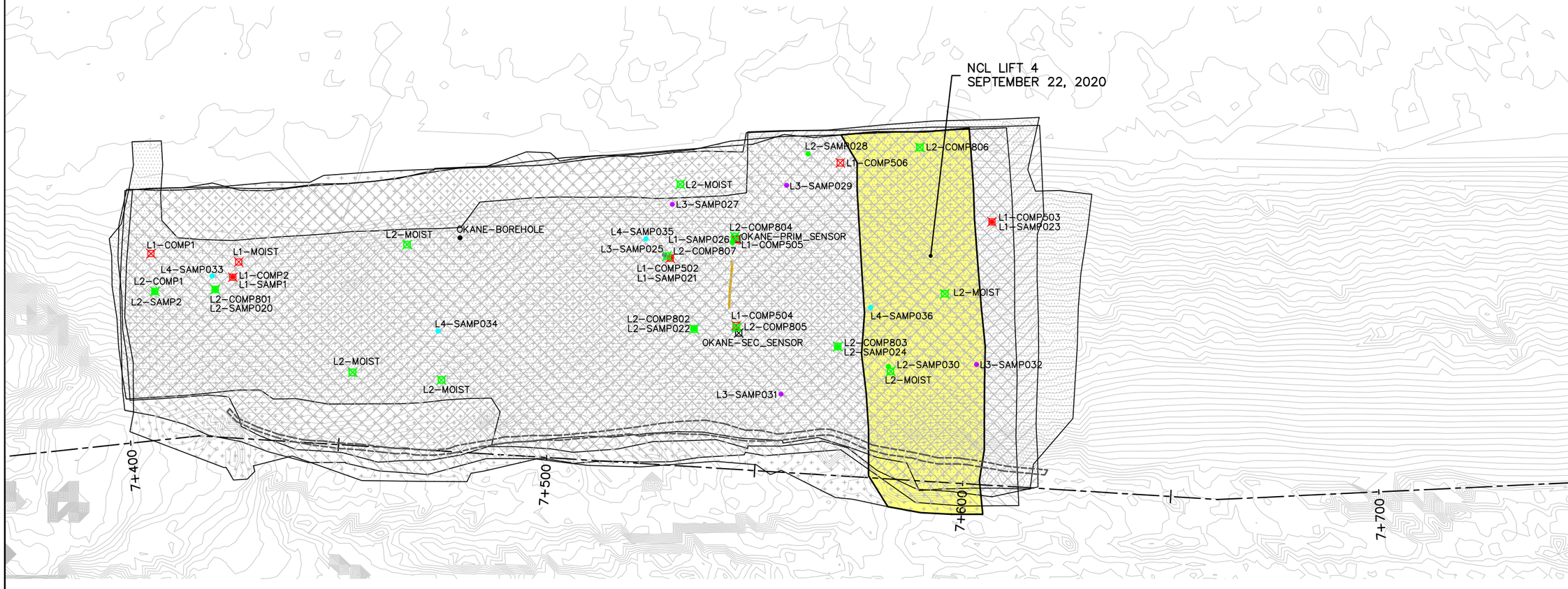
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 22, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED SEPTEMBER 22, 2020 = 0m^3
PLACED TO DATE = 4,690m^3

CCL LIFT 2
PLACED SEPTEMBER 22, 2020 = 0m^3
PLACED TO DATE = 2,769m^3

NCL LIFT 3
PLACED SEPTEMBER 22, 2020 = 0m^3
PLACED TO DATE = 8,355m^3

NCL LIFT 4
PLACED SEPTEMBER 22, 2020 = 423m^3
PLACED TO DATE = 7,129m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 22, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 23, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	REV. No.
D–1	19–1138	0

EMRS RECLAMATION

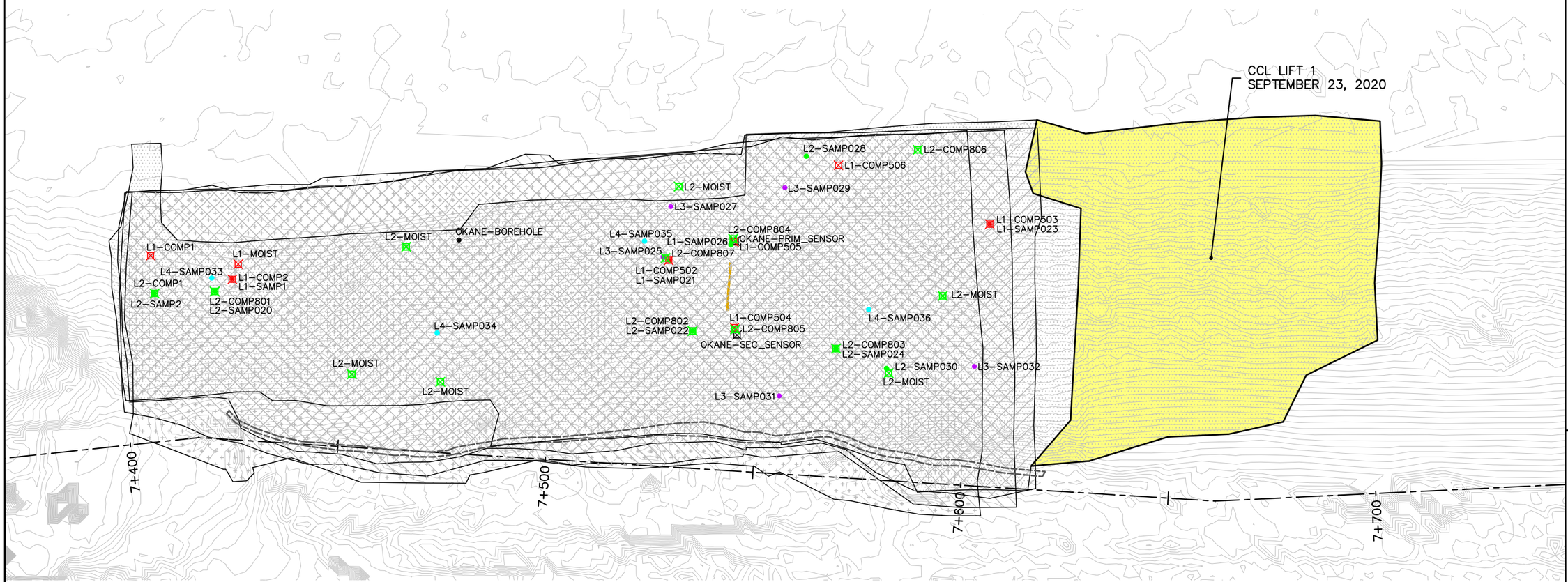
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 23, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED SEPTEMBER 23, 2020 = 1,253m^3
PLACED TO DATE = 5,943m^3

CCL LIFT 2
PLACED SEPTEMBER 23, 2020 = 0m^3
PLACED TO DATE = 2,769m^3

NCL LIFT 3
PLACED SEPTEMBER 23, 2020 = 0m^3
PLACED TO DATE = 8,355m^3

NCL LIFT 4
PLACED SEPTEMBER 23, 2020 = 0m^3
PLACED TO DATE = 7,129m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 23, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 24, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	REV. No.
D-1	19-1138	0

EMRS RECLAMATION

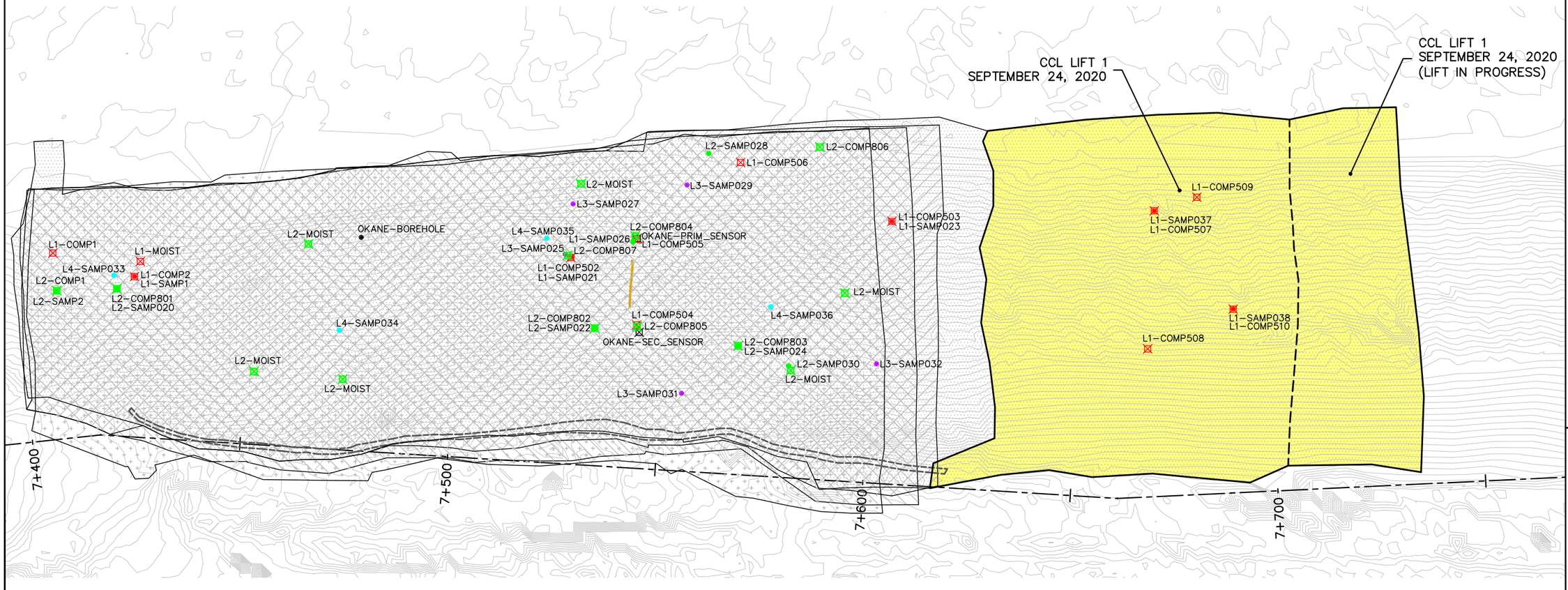
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 24, 2020 = 0m³
EXCAVATED TO DATE = 253m³

CCL LIFT 1
PLACED SEPTEMBER 24, 2020 = 1,380m³
PLACED TO DATE = 7,323m³

CCL LIFT 2
PLACED SEPTEMBER 24, 2020 = 0m³
PLACED TO DATE = 2,769m³

NCL LIFT 3
PLACED SEPTEMBER 24, 2020 = 0m³
PLACED TO DATE = 8,355m³

NCL LIFT 4
PLACED SEPTEMBER 24, 2020 = 0m³
PLACED TO DATE = 7,129m³



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 24, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

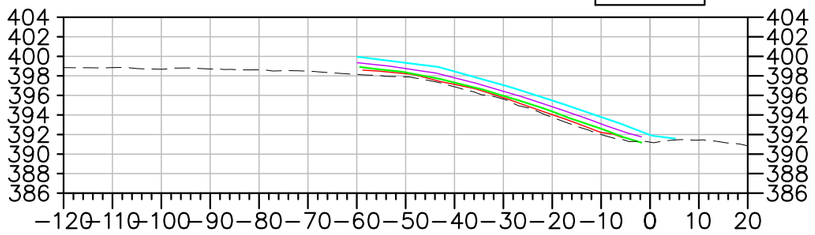
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 25, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D–1	19–1138	113

7+415.58



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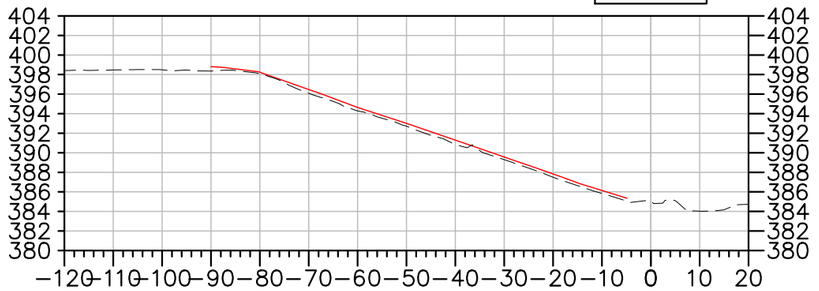

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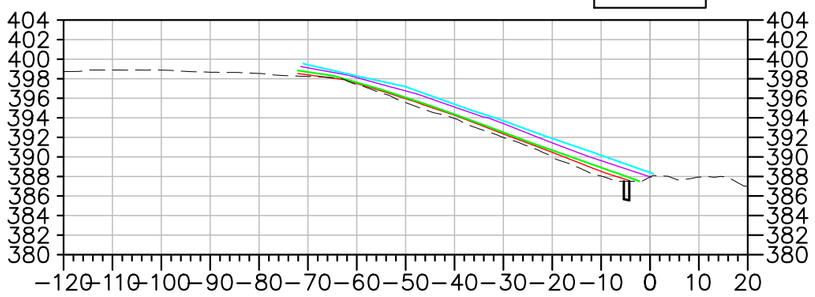

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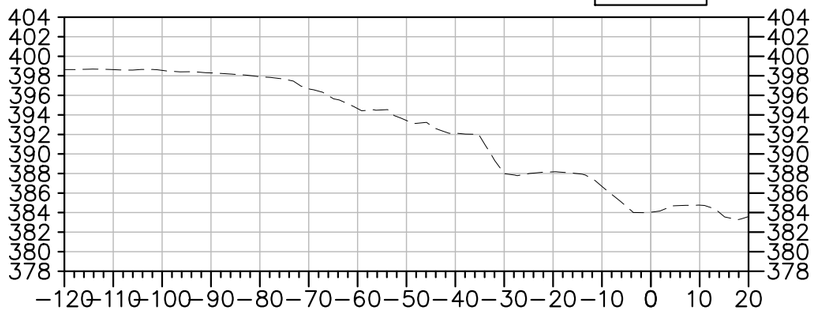
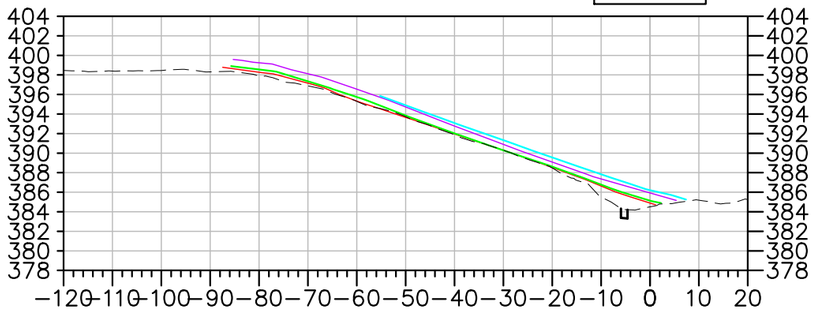


7+600.00



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 24, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 25, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

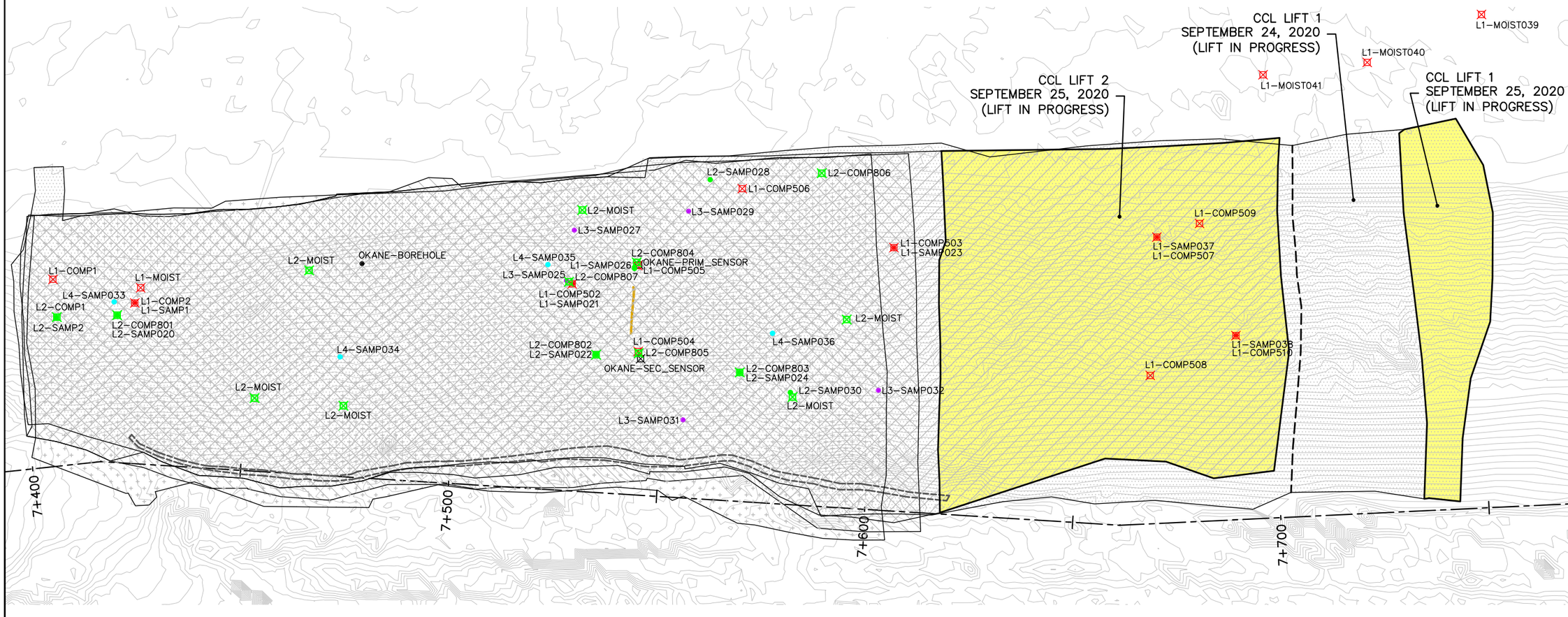
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 25, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED SEPTEMBER 25, 2020 = 581m^3
PLACED TO DATE = 7,904m^3

CCL LIFT 2
PLACED SEPTEMBER 25, 2020 = 2,000m^3
PLACED TO DATE = 4,769m^3

NCL LIFT 3
PLACED SEPTEMBER 25, 2020 = 0m^3
PLACED TO DATE = 8,355m^3

NCL LIFT 4
PLACED SEPTEMBER 25, 2020 = 0m^3
PLACED TO DATE = 7,129m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 25, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum: North American Datum 1983 (NAD83) 6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum: Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

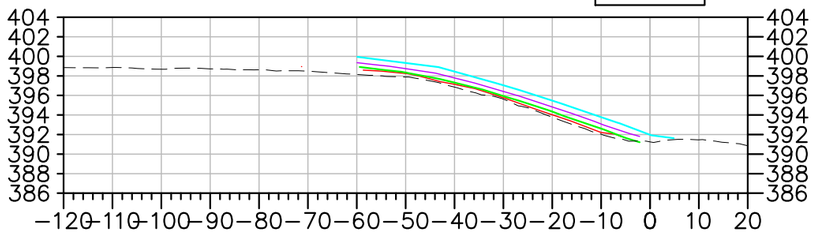
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

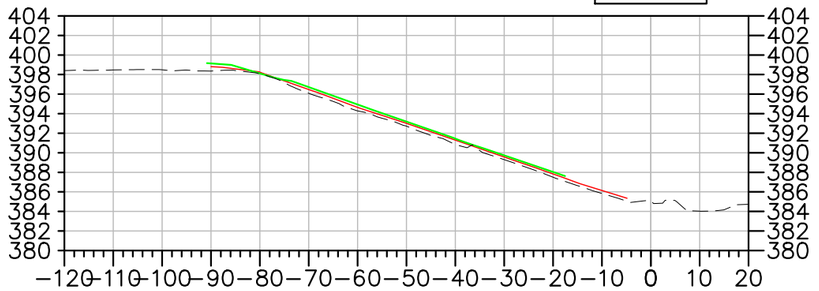
DATE	SEPTEMBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

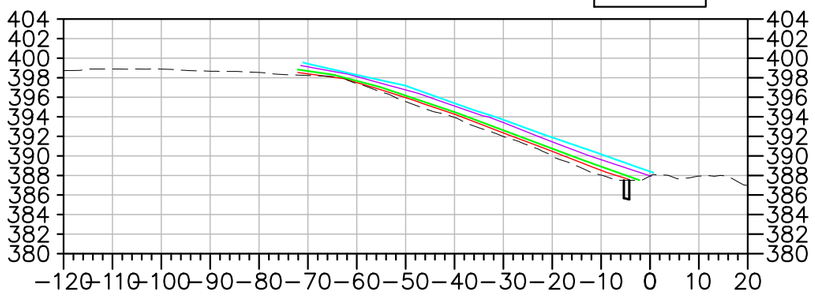
7+415.00



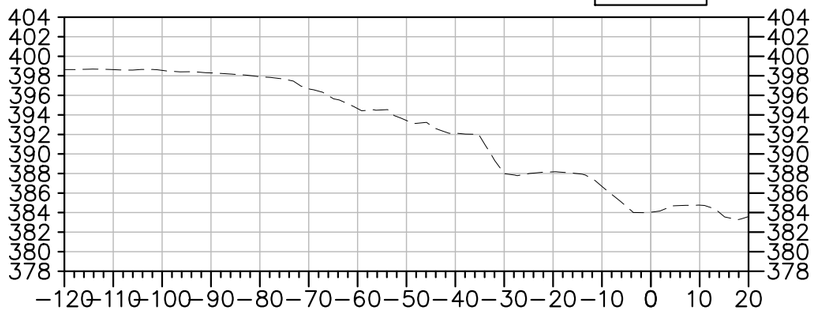
7+700.00



7+500.00



7+800.00



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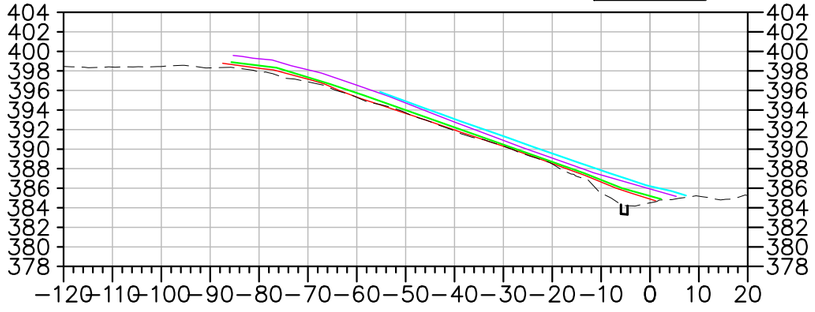


EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 25, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

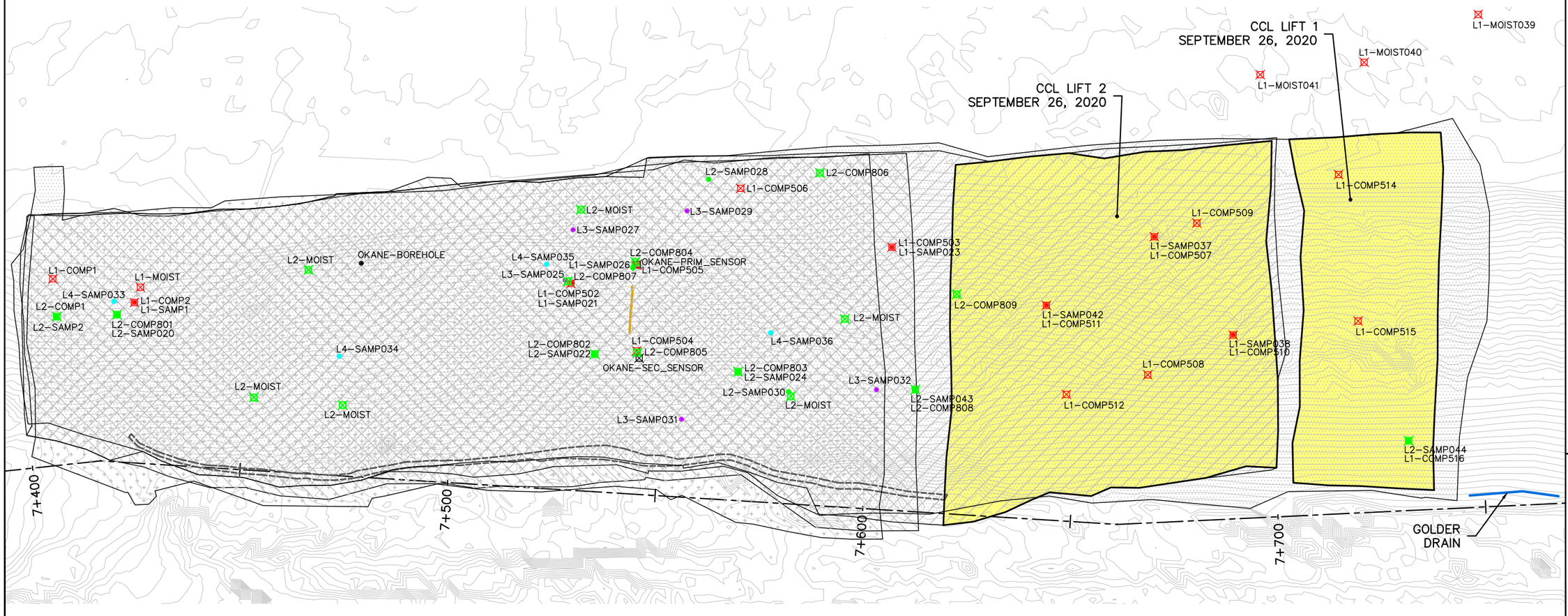
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 26, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED SEPTEMBER 26, 2020 = 123m^3
PLACED TO DATE = 8,027m^3

CCL LIFT 2
PLACED SEPTEMBER 26, 2020 = 574m^3
PLACED TO DATE = 5,343m^3

NCL LIFT 3
PLACED SEPTEMBER 26, 2020 = 0m^3
PLACED TO DATE = 8,355m^3

NCL LIFT 4
PLACED SEPTEMBER 26, 2020 = 0m^3
PLACED TO DATE = 7,129m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 26, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

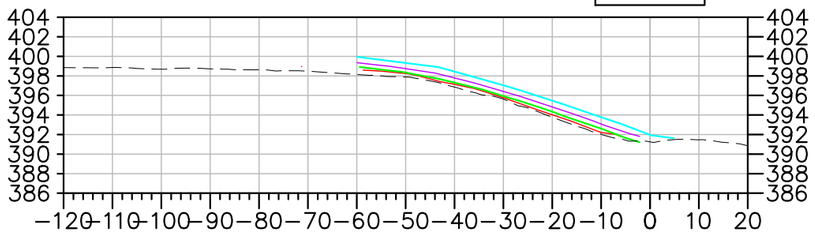
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

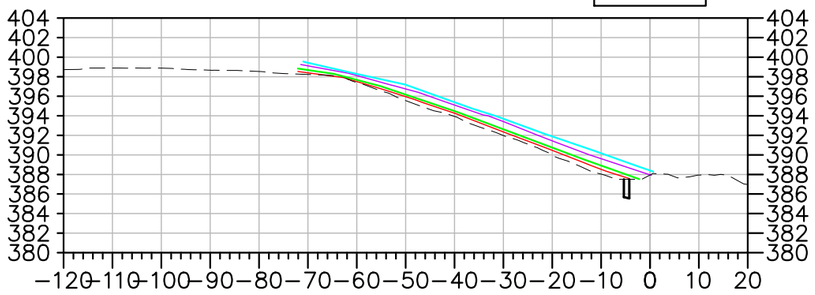
DATE	SEPTEMBER 27, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

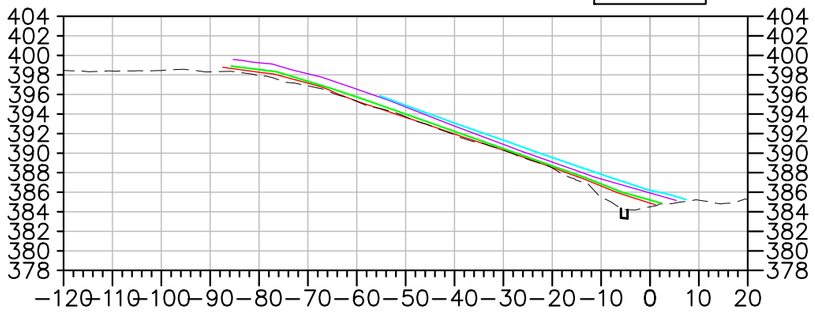
7+415.00



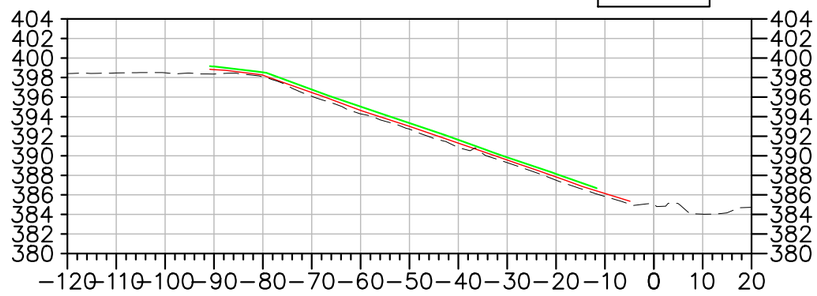
7+500.00



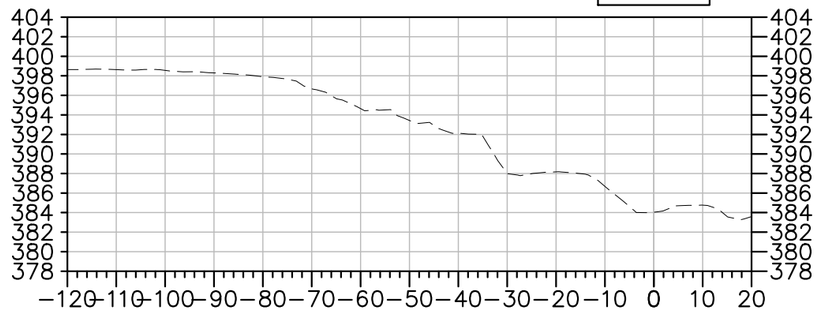
7+600.00



7+700.00



7+800.00



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 26, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 27, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

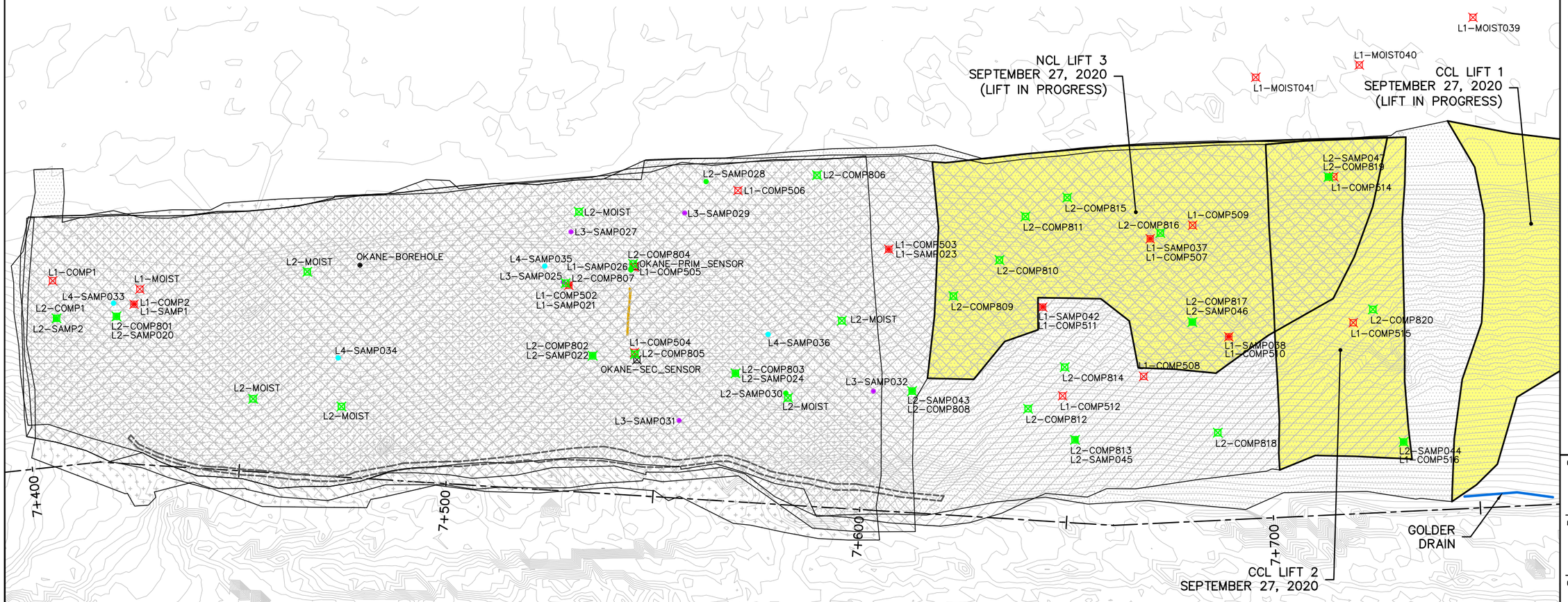
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 27, 2020 = 0m³
EXCAVATED TO DATE = 253m³

CCL LIFT 1
PLACED SEPTEMBER 27, 2020 = 632m³
PLACED TO DATE = 8,659m³

CCL LIFT 2
PLACED SEPTEMBER 27, 2020 = 686m³
PLACED TO DATE = 6,029m³

NCL LIFT 3
PLACED SEPTEMBER 27, 2020 = 1,873m³
PLACED TO DATE = 10,228m³

NCL LIFT 4
PLACED SEPTEMBER 27, 2020 = 0m³
PLACED TO DATE = 7,129m³



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 27, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

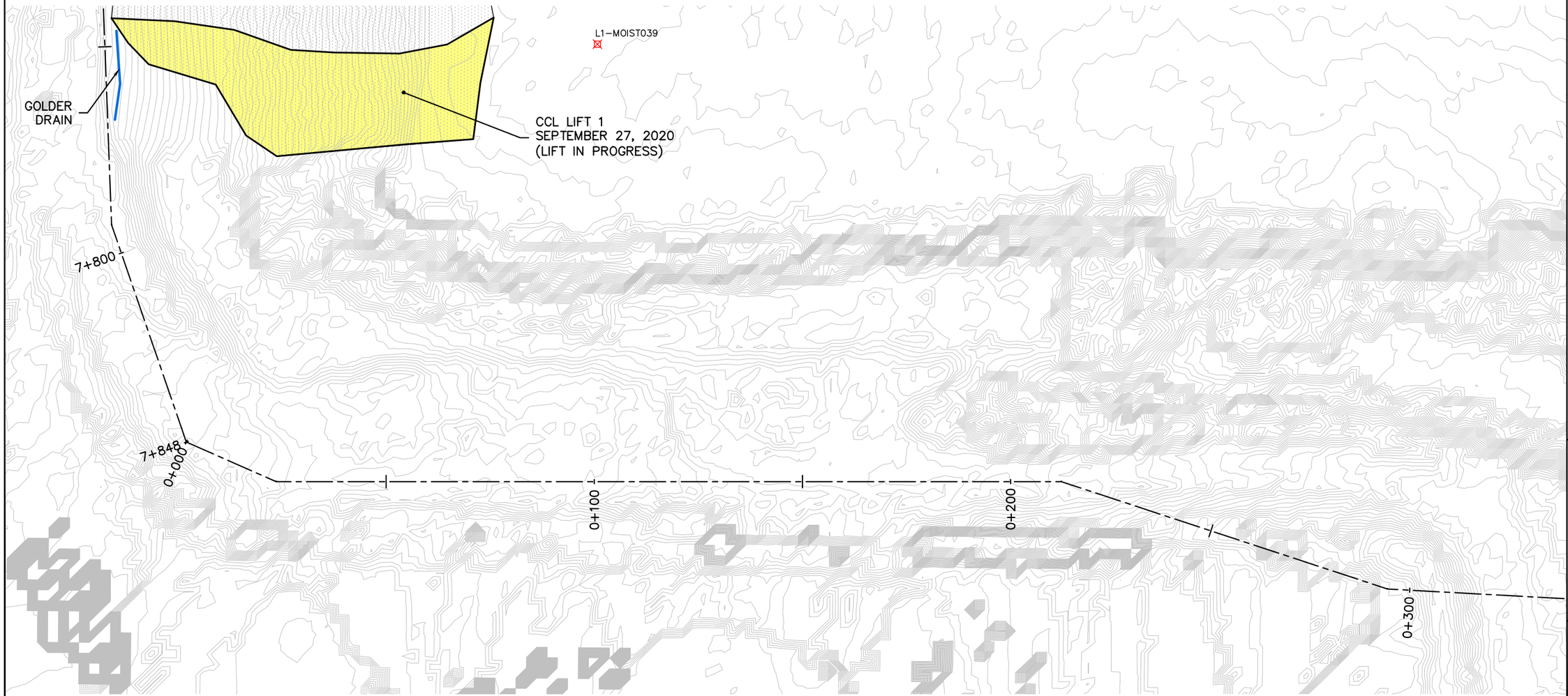
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 27, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED SEPTEMBER 27, 2020 = 632m^3
PLACED TO DATE = 8,659m^3

CCL LIFT 2
PLACED SEPTEMBER 27, 2020 = 686m^3
PLACED TO DATE = 6,029m^3

NCL LIFT 3
PLACED SEPTEMBER 27, 2020 = 1,873m^3
PLACED TO DATE = 10,228m^3

NCL LIFT 4
PLACED SEPTEMBER 27, 2020 = 0m^3
PLACED TO DATE = 7,129m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 27, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83) 6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

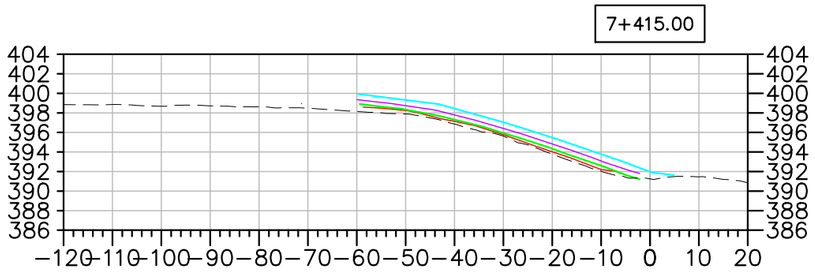
PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

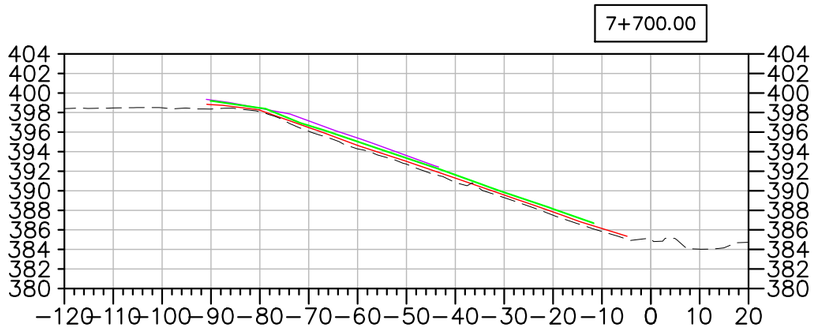
DRAWING TITLE
EMRS RECLAMATION

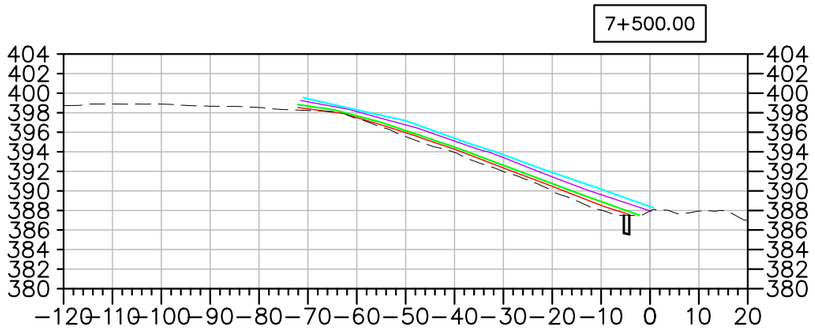
PURPOSE
DAILY PROGRESS

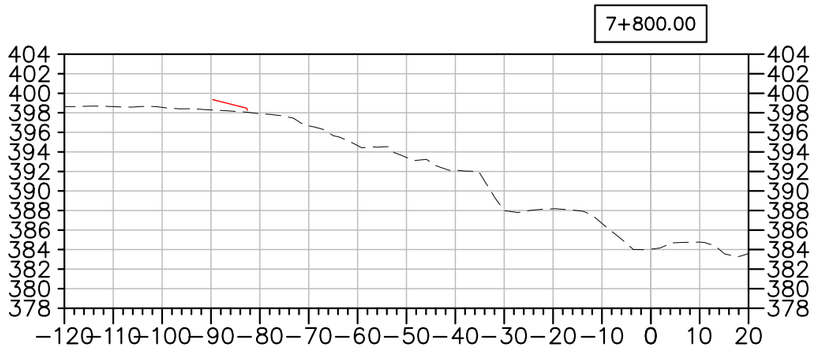
DATE	SEPTEMBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

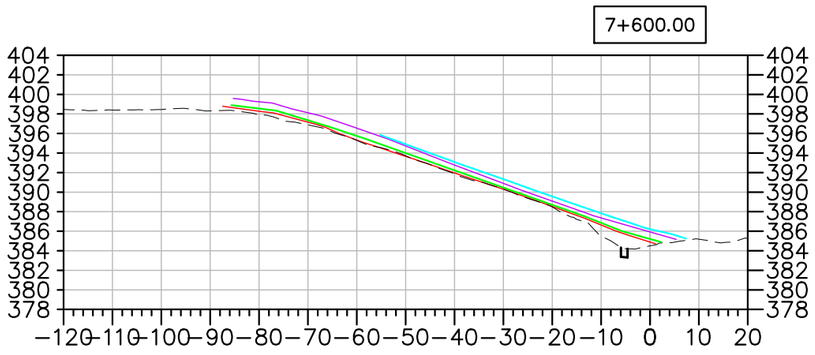
DWG. No.	PROJECT No.	PHASE No.
D–2	19–1138	113











EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 27, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

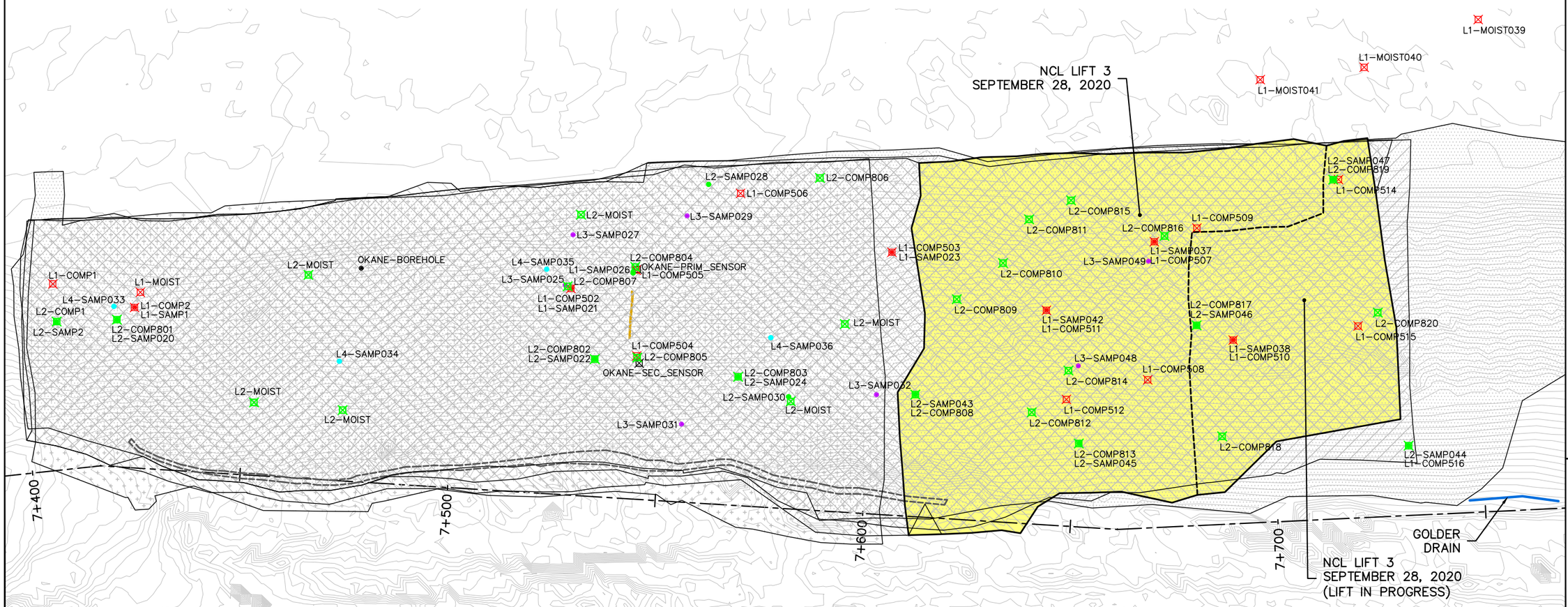
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 28, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED SEPTEMBER 28, 2020 = 0m^3
PLACED TO DATE = 8,659m^3

CCL LIFT 2
PLACED SEPTEMBER 28, 2020 = 0m^3
PLACED TO DATE = 6,029m^3

NCL LIFT 3
PLACED SEPTEMBER 28, 2020 = 3,881m^3
PLACED TO DATE = 14,109m^3

NCL LIFT 4
PLACED SEPTEMBER 28, 2020 = 0m^3
PLACED TO DATE = 7,129m^3



TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 29, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 28, 2020) SCALE: N.T.S.

EMRS RECLAMATION

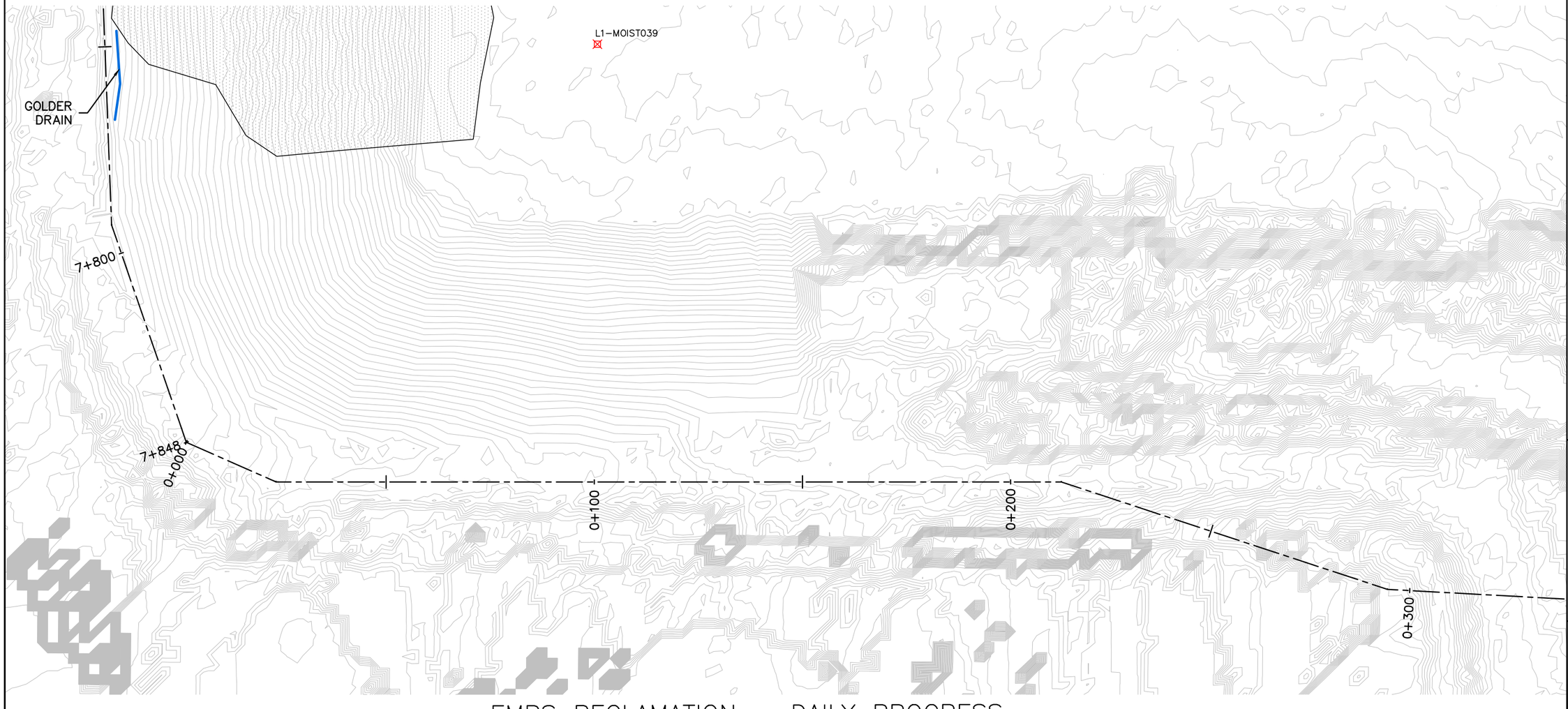
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 28, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED SEPTEMBER 28, 2020 = 0m^3
PLACED TO DATE = 8,659m^3

CCL LIFT 2
PLACED SEPTEMBER 28, 2020 = 0m^3
PLACED TO DATE = 6,029m^3

NCL LIFT 3
PLACED SEPTEMBER 28, 2020 = 3,881m^3
PLACED TO DATE = 14,109m^3

NCL LIFT 4
PLACED SEPTEMBER 28, 2020 = 0m^3
PLACED TO DATE = 7,129m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 28, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER PROJECT

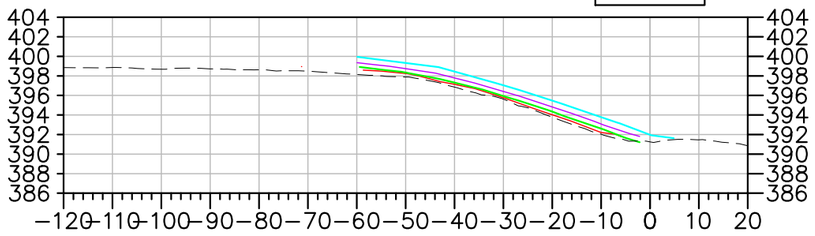
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 29, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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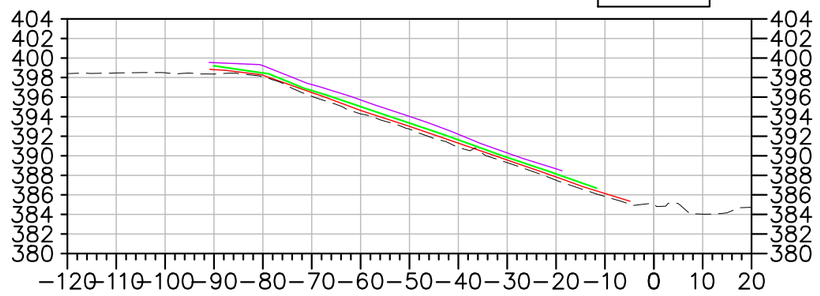

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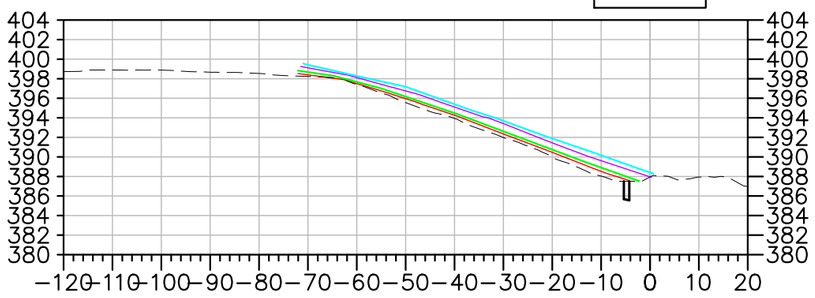

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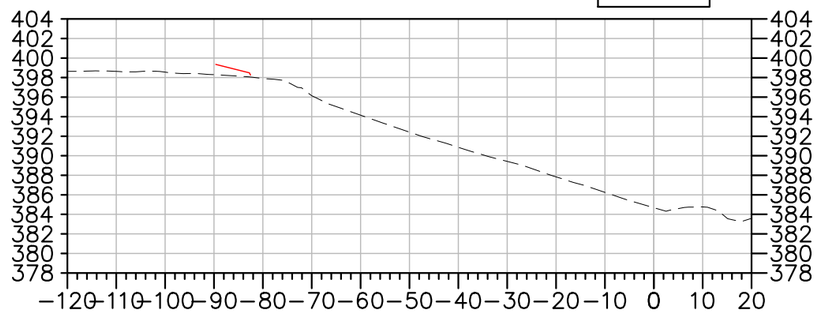

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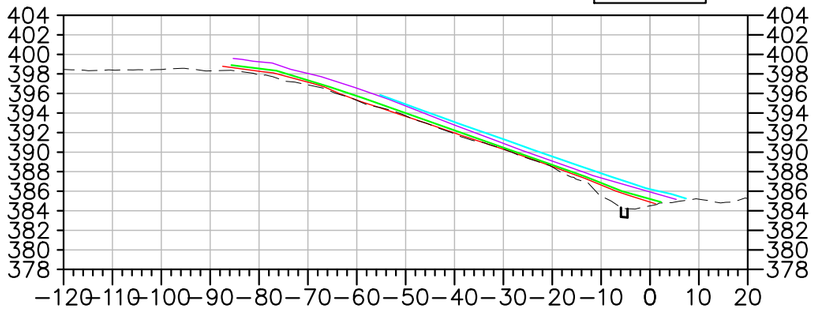

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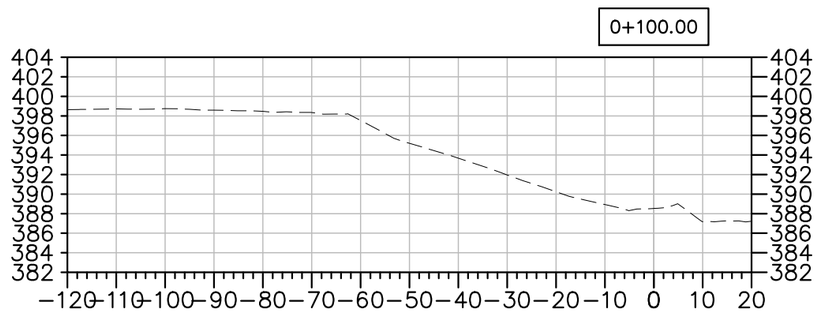


EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 28, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 29, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X–1	19–1138	113

EMRS RECLAMATION

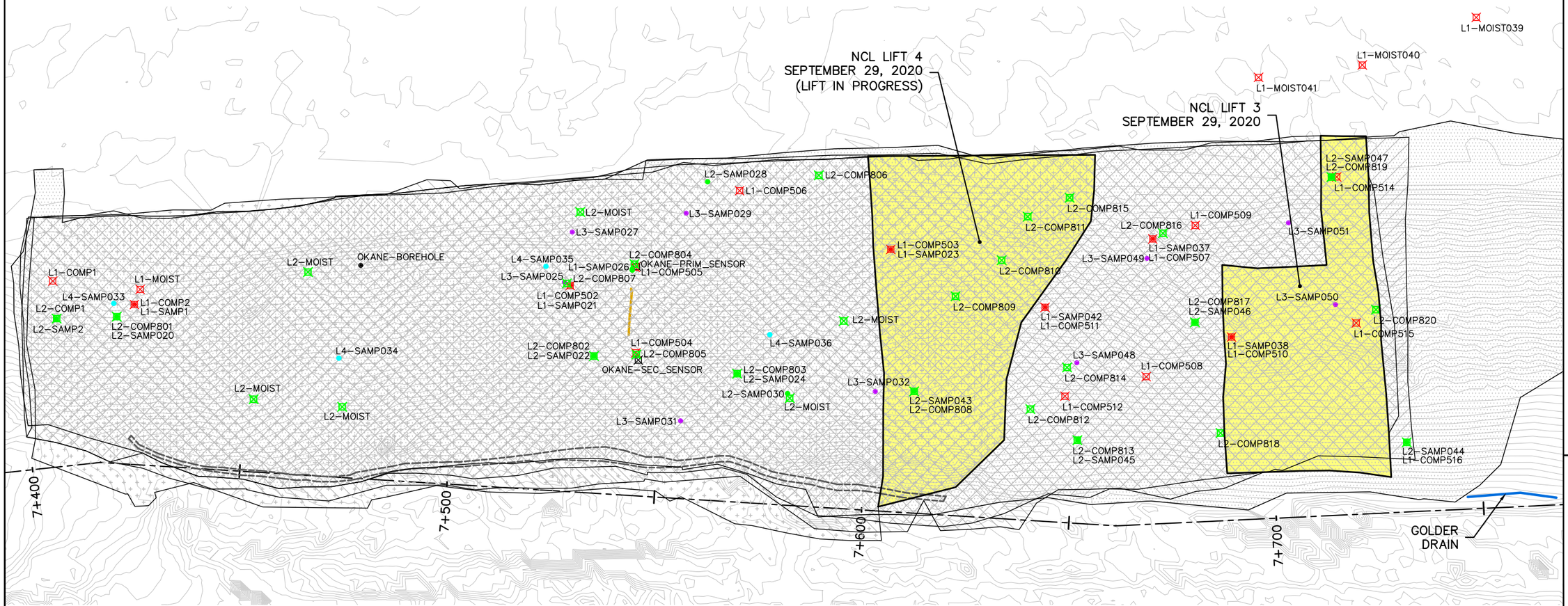
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 29, 2020 = 0m³
EXCAVATED TO DATE = 253m³

CCL LIFT 1
PLACED SEPTEMBER 29, 2020 = 0m³
PLACED TO DATE = 8,659m³

CCL LIFT 2
PLACED SEPTEMBER 29, 2020 = 0m³
PLACED TO DATE = 6,029m³

NCL LIFT 3
PLACED SEPTEMBER 29, 2020 = 64m³
PLACED TO DATE = 14,173m³

NCL LIFT 4
PLACED SEPTEMBER 29, 2020 = 1,212m³
PLACED TO DATE = 8,341m³



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 29, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 30, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

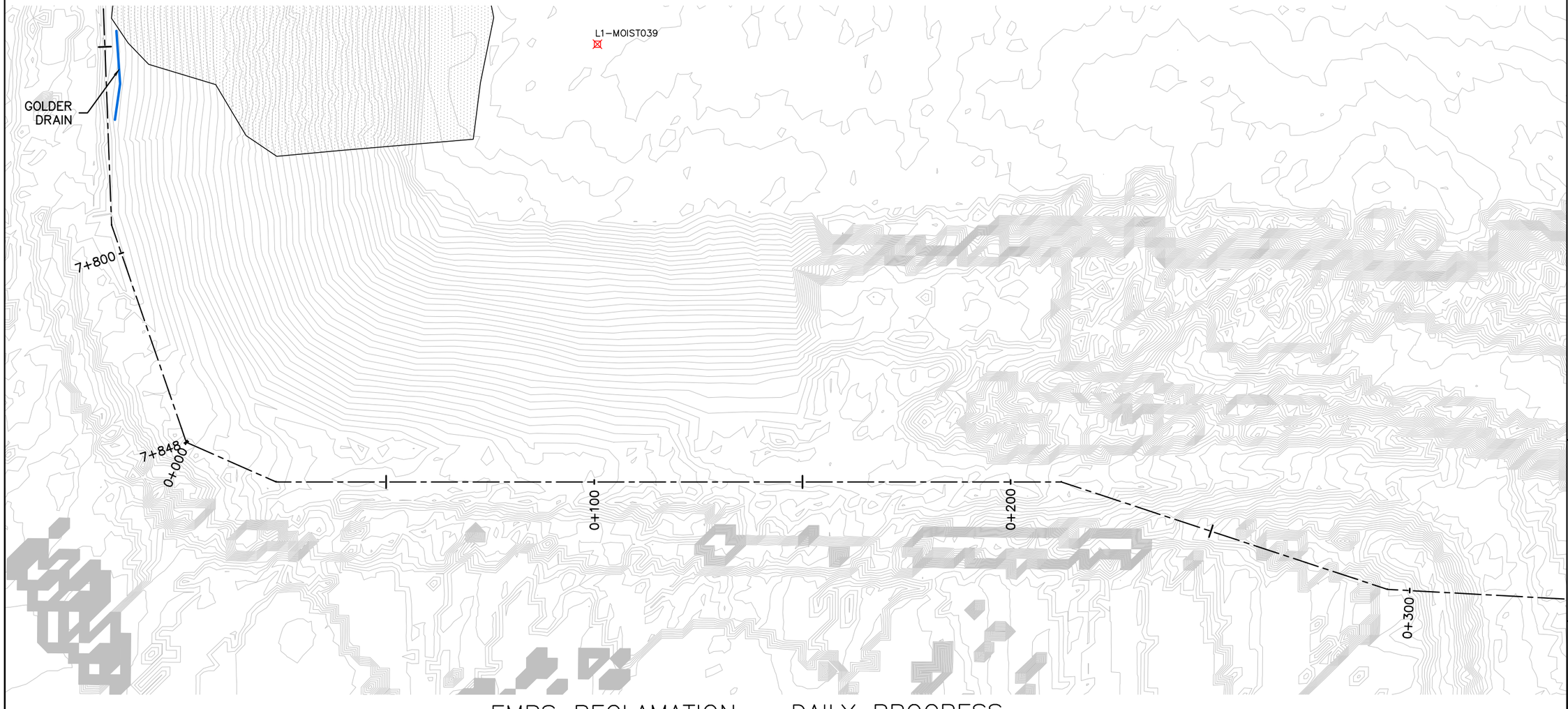
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 29, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED SEPTEMBER 29, 2020 = 0m^3
PLACED TO DATE = 8,659m^3

CCL LIFT 2
PLACED SEPTEMBER 29, 2020 = 0m^3
PLACED TO DATE = 6,029m^3

NCL LIFT 3
PLACED SEPTEMBER 29, 2020 = 64m^3
PLACED TO DATE = 14,173m^3

NCL LIFT 4
PLACED SEPTEMBER 29, 2020 = 1,212m^3
PLACED TO DATE = 8,341m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 29, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

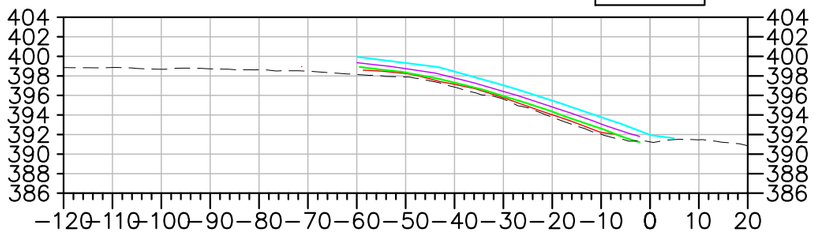
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 30, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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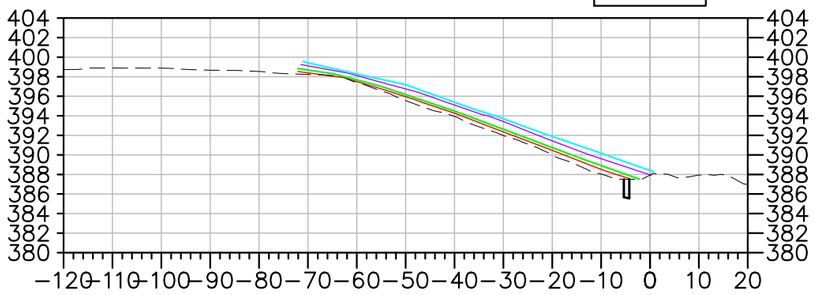

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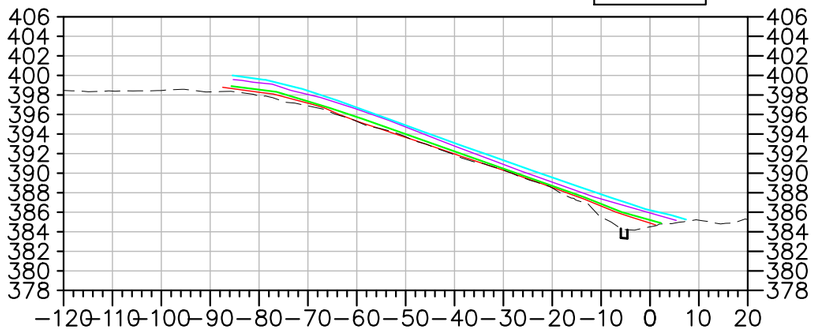

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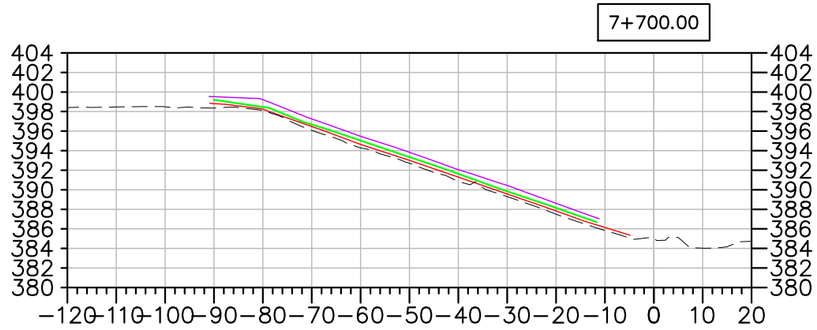
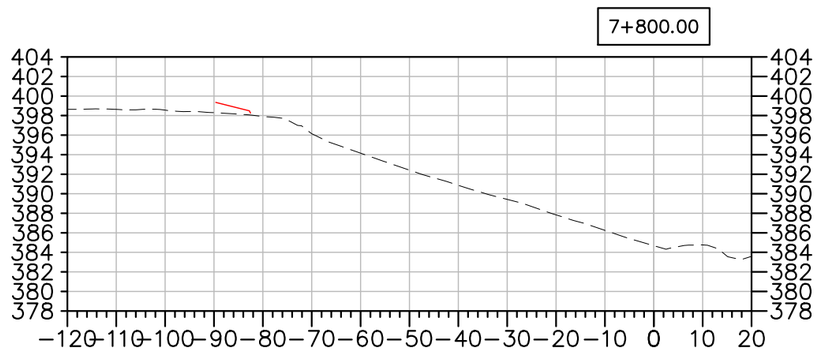


7+800.00



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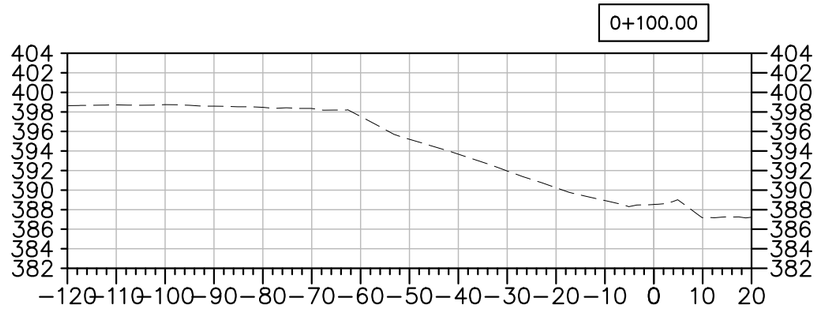


EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 29, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

EXISTING ROCK STOCKPILE

CCL LIFT #1

CCL LIFT #2

NCL LIFT #3

NCL LIFT #4

KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	SEPTEMBER 30, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X–1	19–1138	113

EMRS RECLAMATION

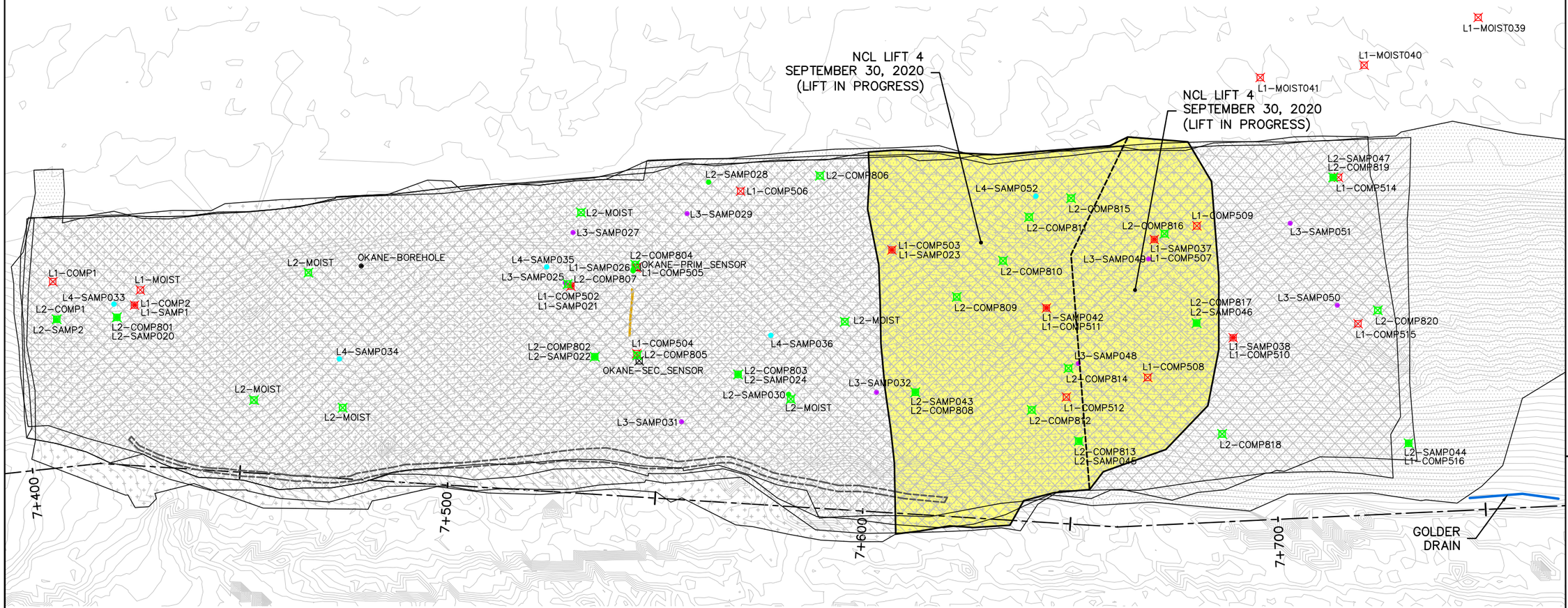
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 30, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED SEPTEMBER 30, 2020 = 0m^3
PLACED TO DATE = 8,659m^3

CCL LIFT 2
PLACED SEPTEMBER 30, 2020 = 0m^3
PLACED TO DATE = 6,029m^3

NCL LIFT 3
PLACED SEPTEMBER 30, 2020 = 0m^3
PLACED TO DATE = 14,173m^3

NCL LIFT 4
PLACED SEPTEMBER 30, 2020 = 1,687m^3
PLACED TO DATE = 10,028m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 30, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 1, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

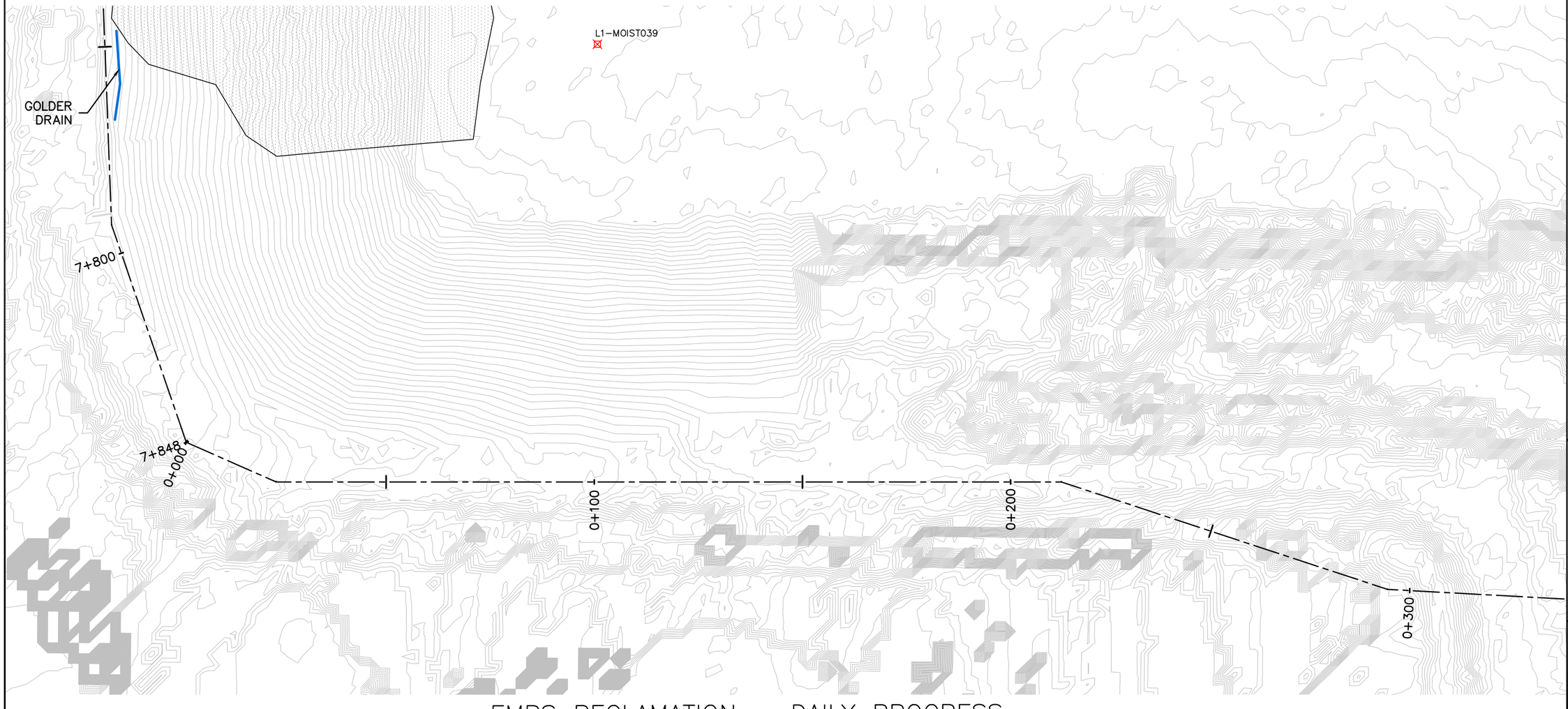
KEY TRENCH EXCAVATION
EXCAVATED SEPTEMBER 30, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED SEPTEMBER 30, 2020 = 0m^3
PLACED TO DATE = 8,659m^3

CCL LIFT 2
PLACED SEPTEMBER 30, 2020 = 0m^3
PLACED TO DATE = 6,029m^3

NCL LIFT 3
PLACED SEPTEMBER 30, 2020 = 0m^3
PLACED TO DATE = 14,173m^3

NCL LIFT 4
PLACED SEPTEMBER 30, 2020 = 1,687m^3
PLACED TO DATE = 10,028m^3



EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 30, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

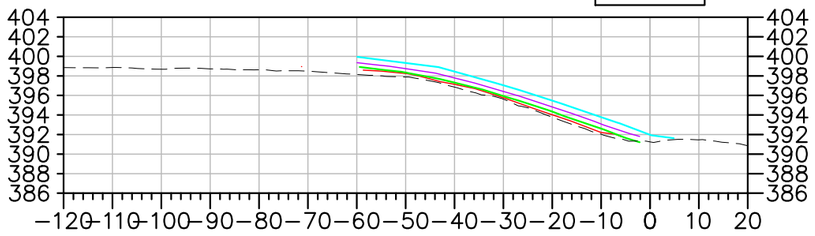
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 1, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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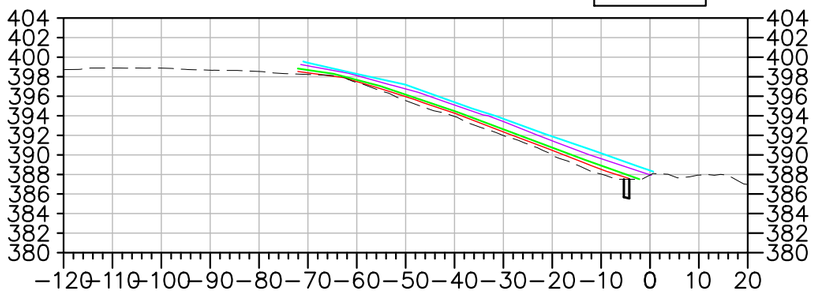

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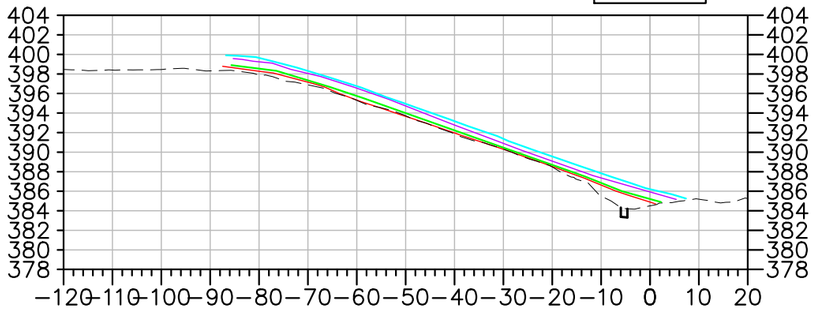

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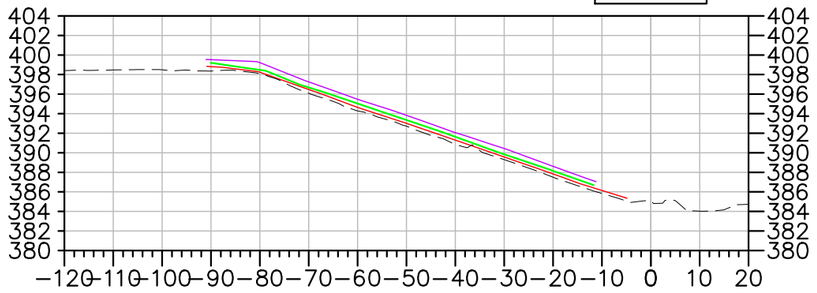
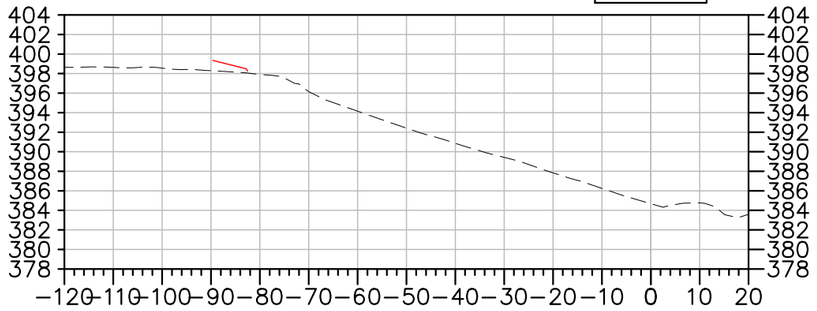


7+800.00



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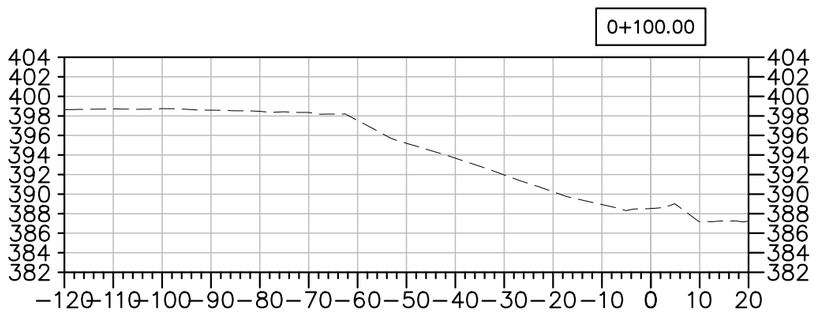


EMRS RECLAMATION – DAILY PROGRESS

(SEPTEMBER 30, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 1, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X–1	19–1138	113

EMRS RECLAMATION

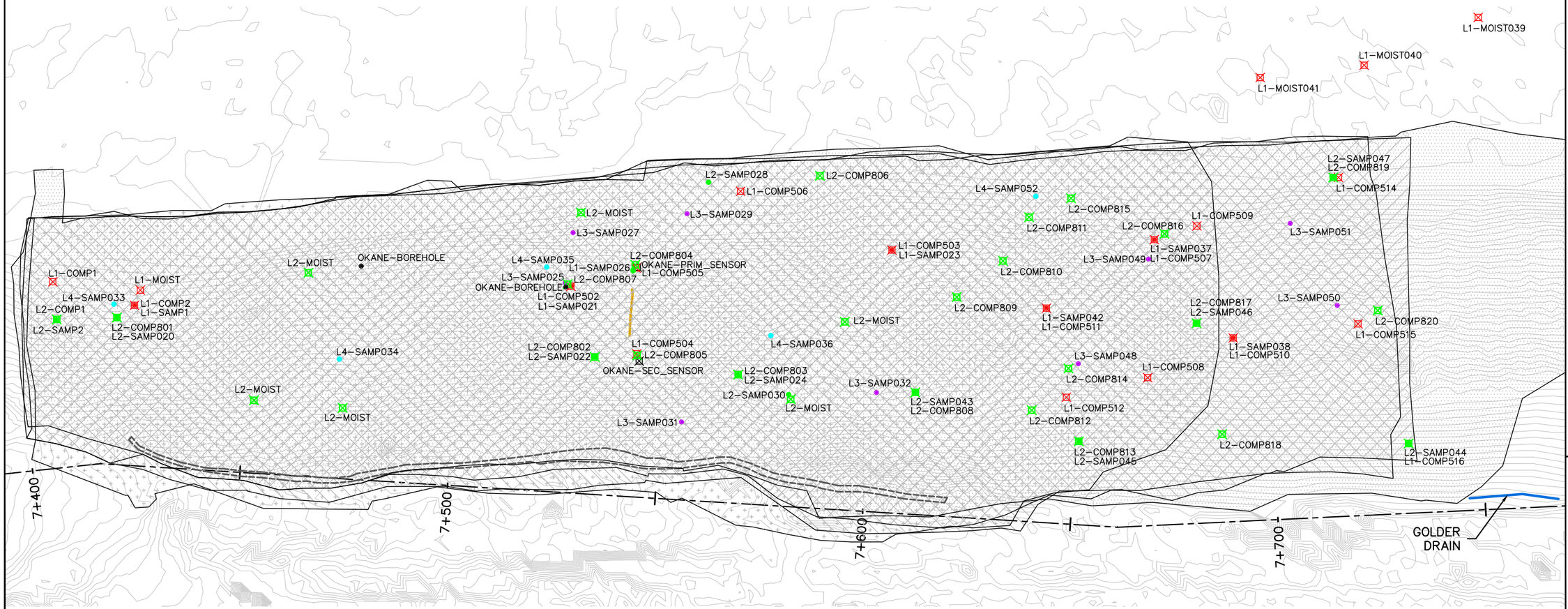
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 1, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED OCTOBER 1, 2020 = 0m^3
PLACED TO DATE = 8,659m^3

CCL LIFT 2
PLACED OCTOBER 1, 2020 = 0m^3
PLACED TO DATE = 6,029m^3

NCL LIFT 3
PLACED OCTOBER 1, 2020 = 0m^3
PLACED TO DATE = 14,173m^3

NCL LIFT 4
PLACED OCTOBER 1, 2020 = 0m^3
PLACED TO DATE = 10,028m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 1, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 2, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

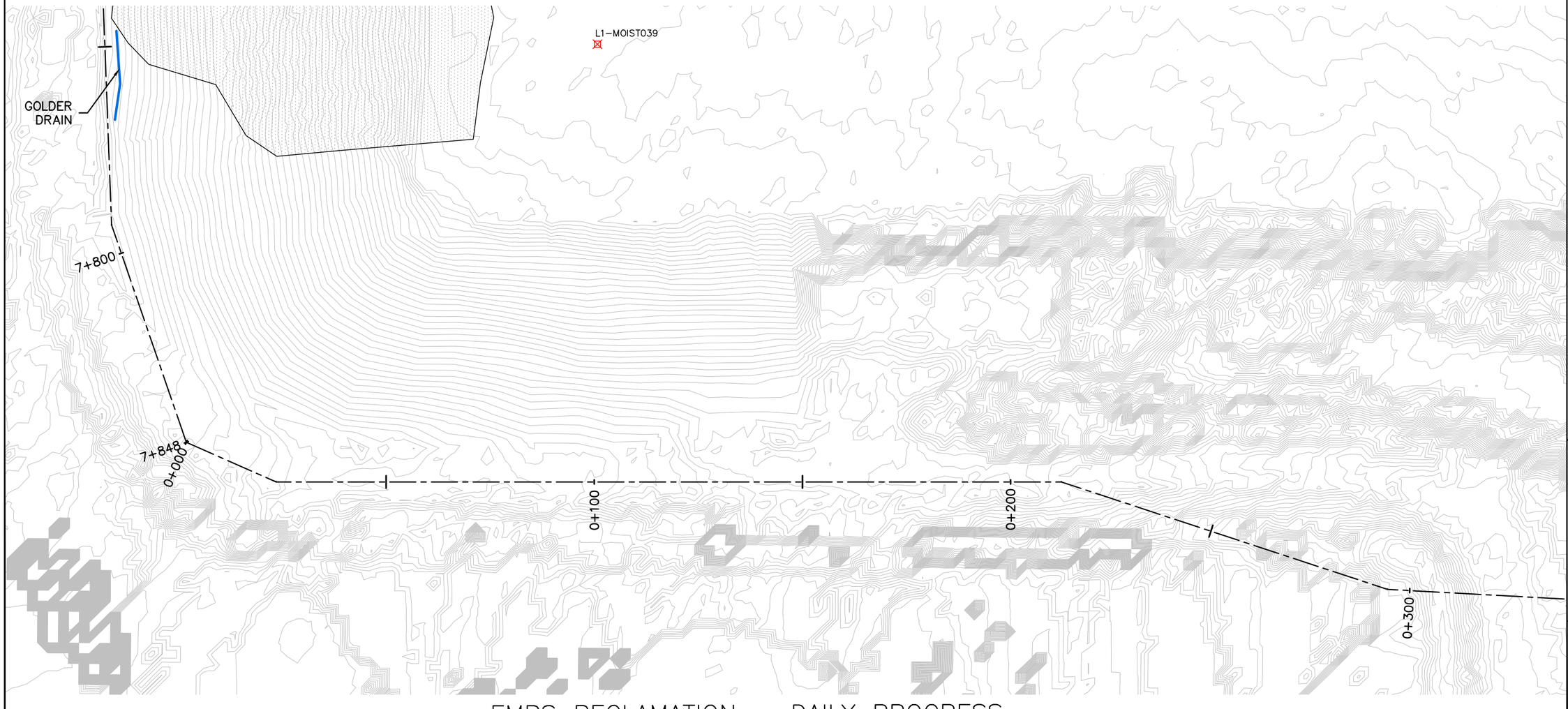
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 1, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED OCTOBER 1, 2020 = 0m^3
PLACED TO DATE = 8,659m^3

CCL LIFT 2
PLACED OCTOBER 1, 2020 = 0m^3
PLACED TO DATE = 6,029m^3

NCL LIFT 3
PLACED OCTOBER 1, 2020 = 0m^3
PLACED TO DATE = 14,173m^3

NCL LIFT 4
PLACED OCTOBER 1, 2020 = 0m^3
PLACED TO DATE = 10,028m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 1, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER PROJECT

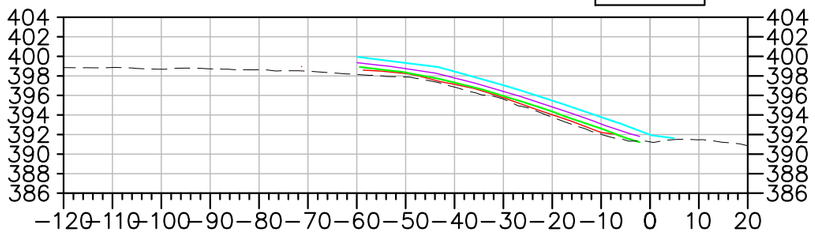
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 2, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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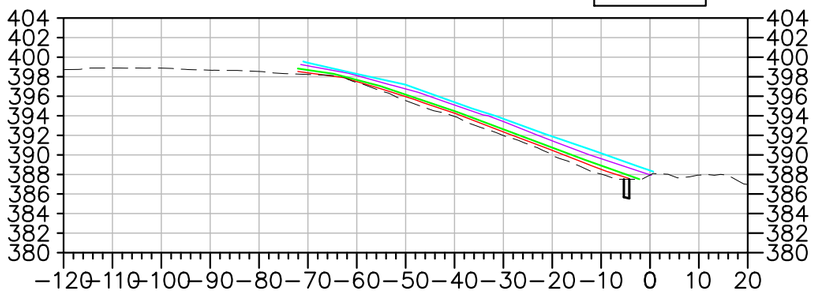

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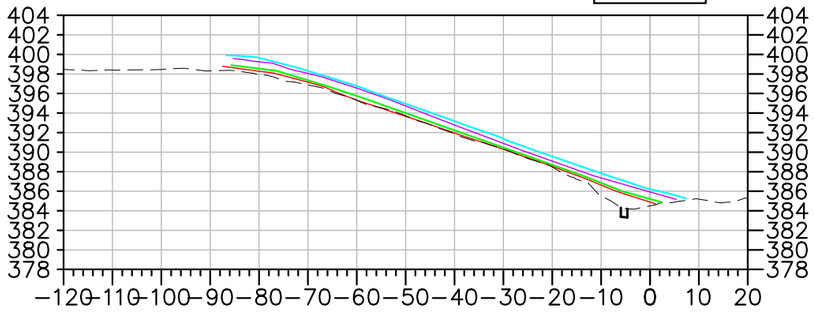

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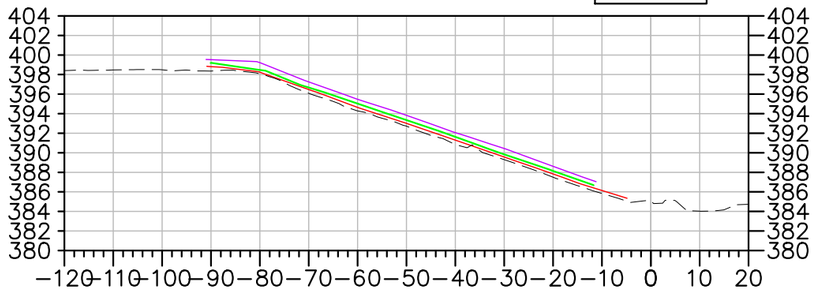

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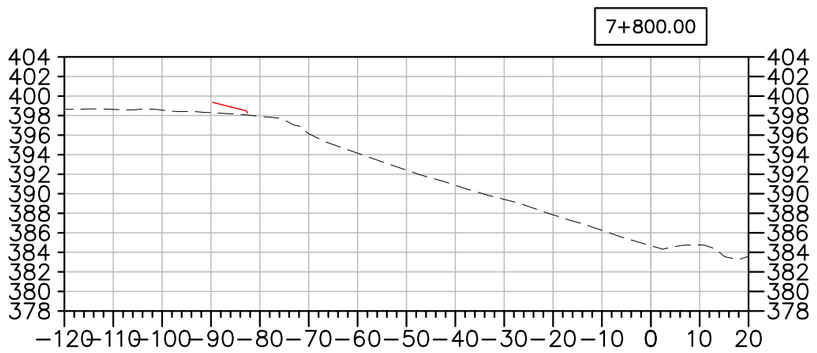

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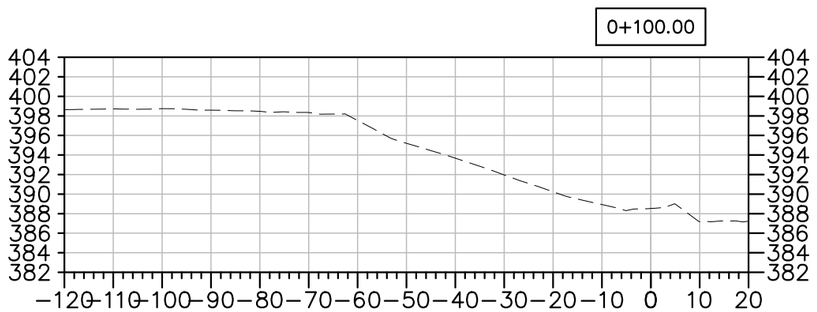


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 1, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 2, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

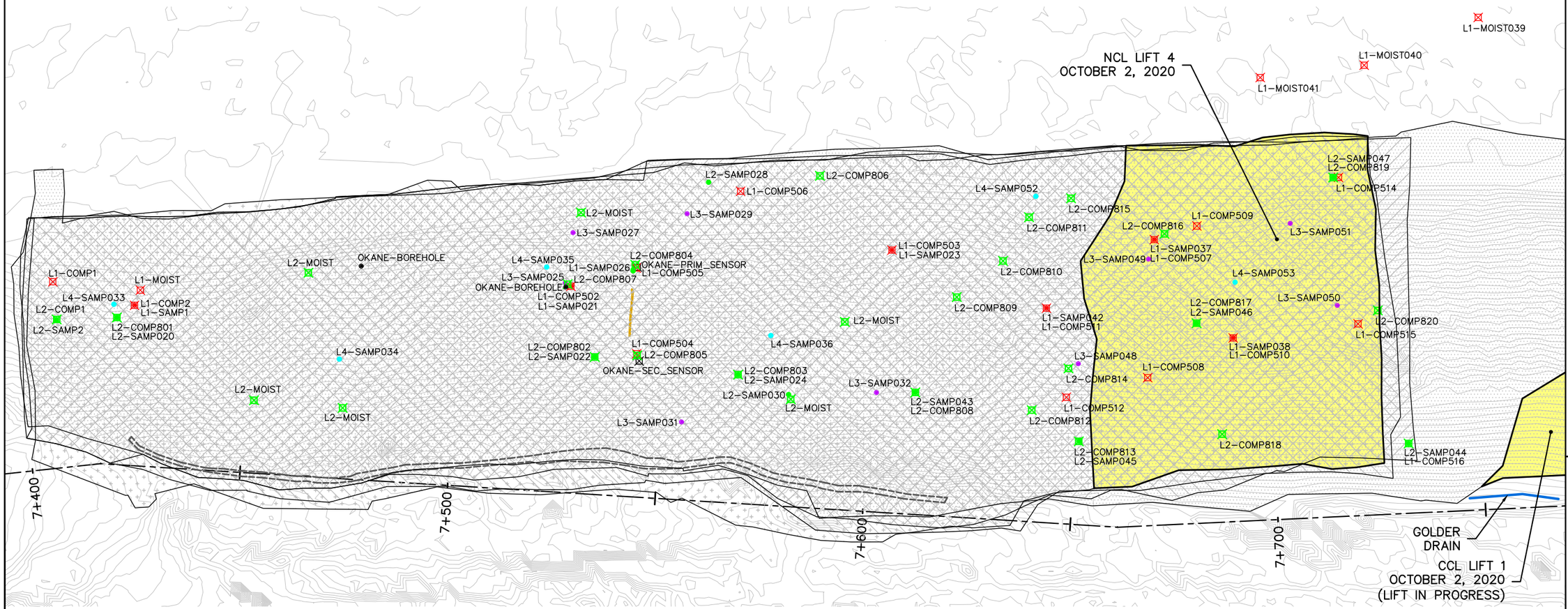
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 2, 2020 = 0m³
EXCAVATED TO DATE = 253m³

CCL LIFT 1
PLACED OCTOBER 2, 2020 = 502m³
PLACED TO DATE = 9,161m³

CCL LIFT 2
PLACED OCTOBER 2, 2020 = 0m³
PLACED TO DATE = 6,029m³

NCL LIFT 3
PLACED OCTOBER 2, 2020 = 0m³
PLACED TO DATE = 14,173m³

NCL LIFT 4
PLACED OCTOBER 2, 2020 = 1,386m³
PLACED TO DATE = 11,414m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 2, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 3, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

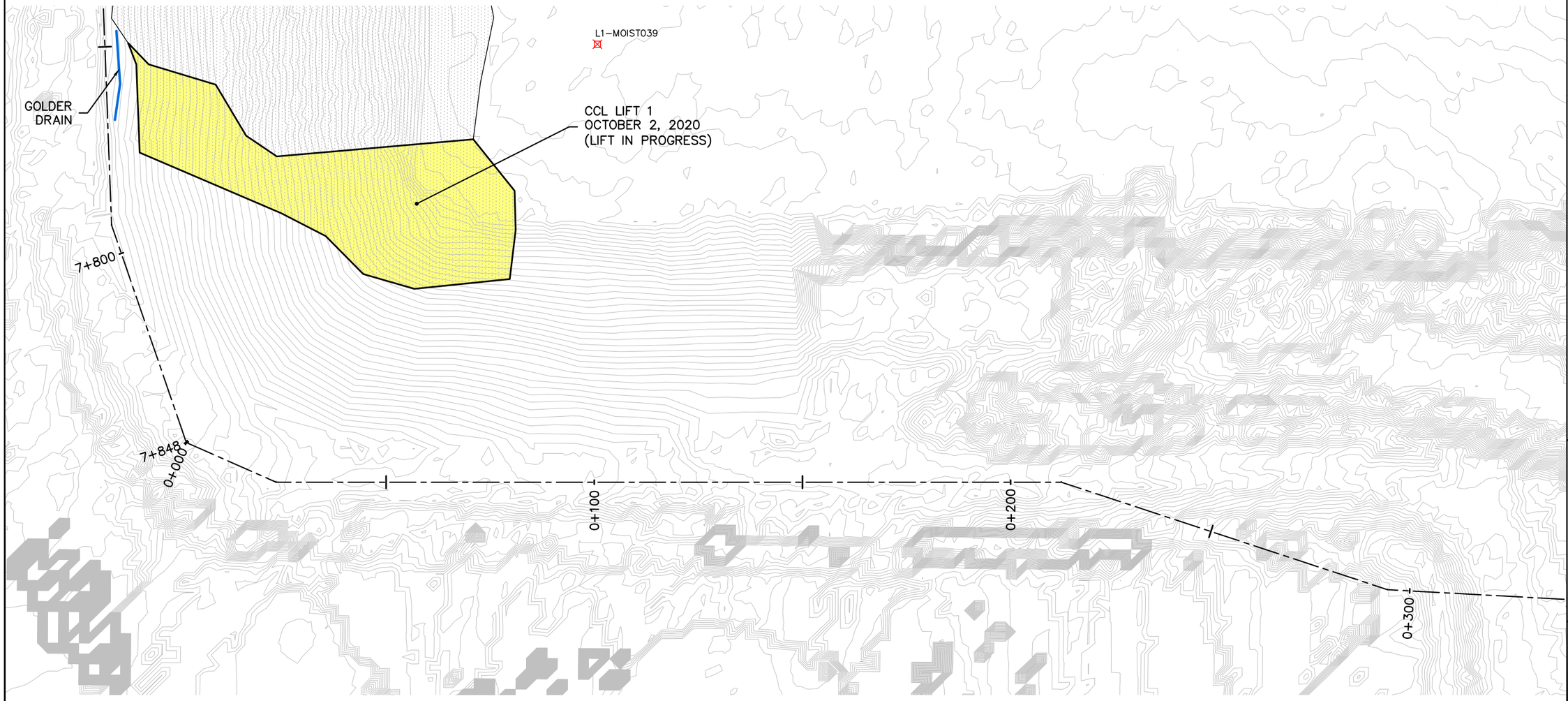
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 2, 2020 = 0m^3
EXCAVATED TO DATE = 253m^3

CCL LIFT 1
PLACED OCTOBER 2, 2020 = 502m^3
PLACED TO DATE = 9,161m^3

CCL LIFT 2
PLACED OCTOBER 2, 2020 = 0m^3
PLACED TO DATE = 6,029m^3

NCL LIFT 3
PLACED OCTOBER 2, 2020 = 0m^3
PLACED TO DATE = 14,173m^3

NCL LIFT 4
PLACED OCTOBER 2, 2020 = 1,386m^3
PLACED TO DATE = 11,414m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 2, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER PROJECT

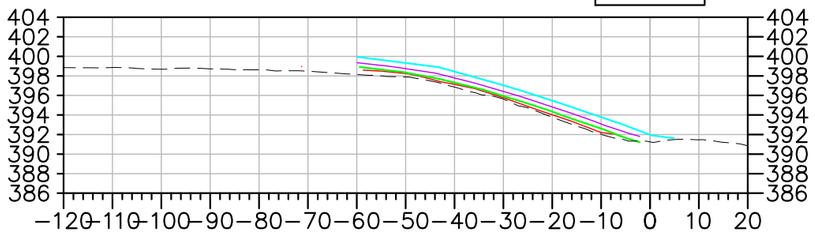
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 3, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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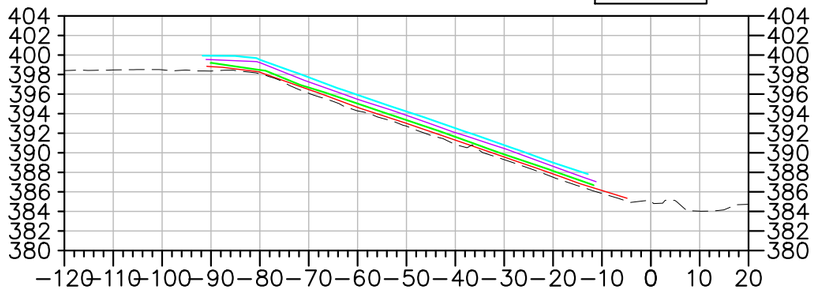

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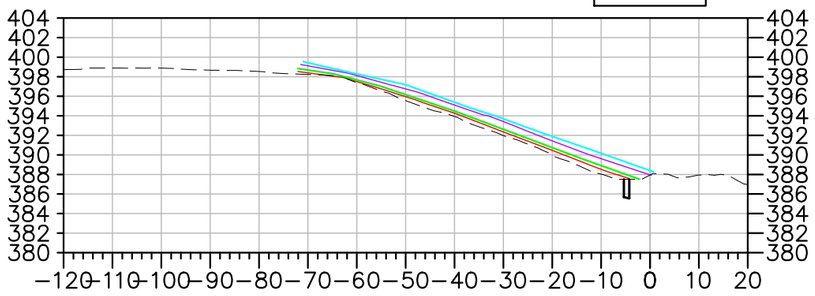

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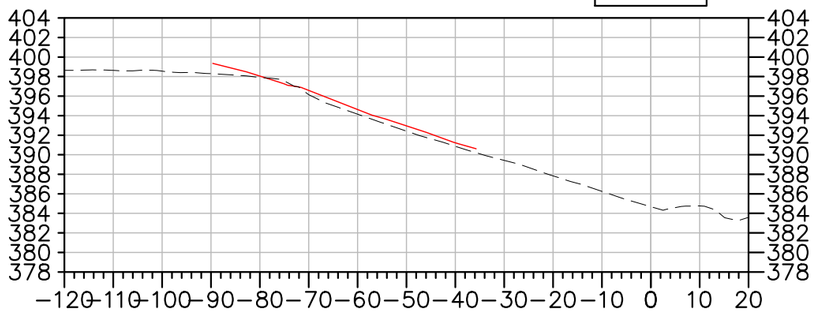

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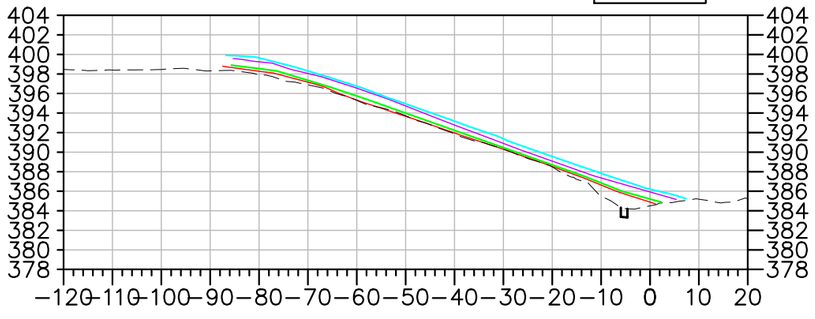

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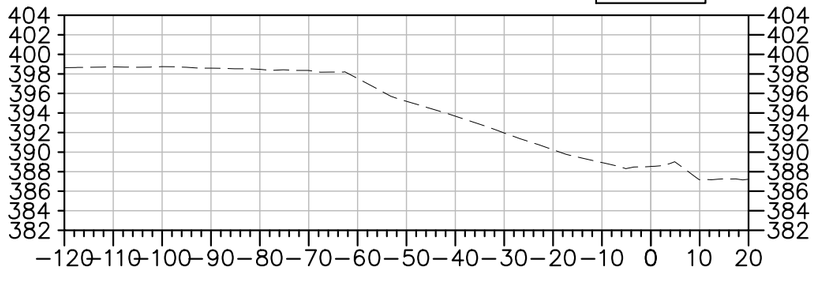


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 2, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 3, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

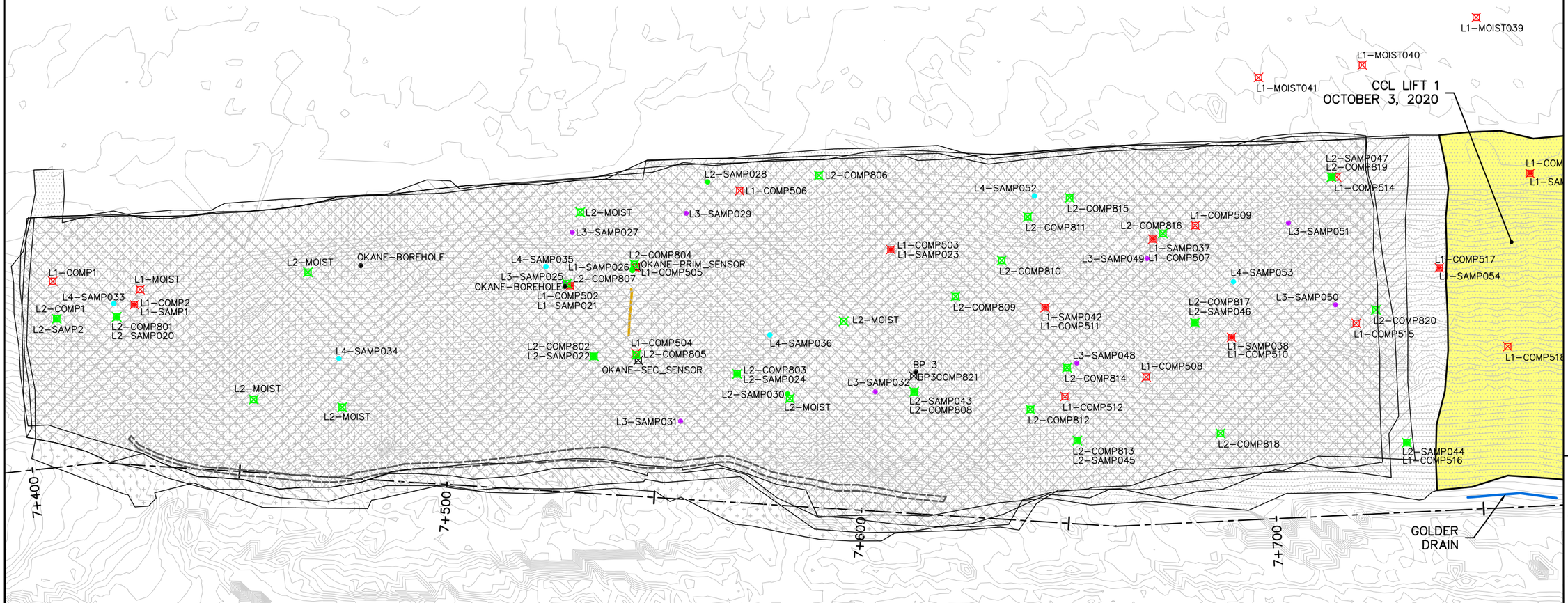
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 3, 2020 = 0m³
EXCAVATED TO DATE = 253m³

CCL LIFT 1
PLACED OCTOBER 3, 2020 = 1,683m³
PLACED TO DATE = 10,844m³

CCL LIFT 2
PLACED OCTOBER 3, 2020 = 0m³
PLACED TO DATE = 6,029m³

NCL LIFT 3
PLACED OCTOBER 3, 2020 = 0m³
PLACED TO DATE = 14,173m³

NCL LIFT 4
PLACED OCTOBER 3, 2020 = 1,386m³
PLACED TO DATE = 11,414m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 3, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 4, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

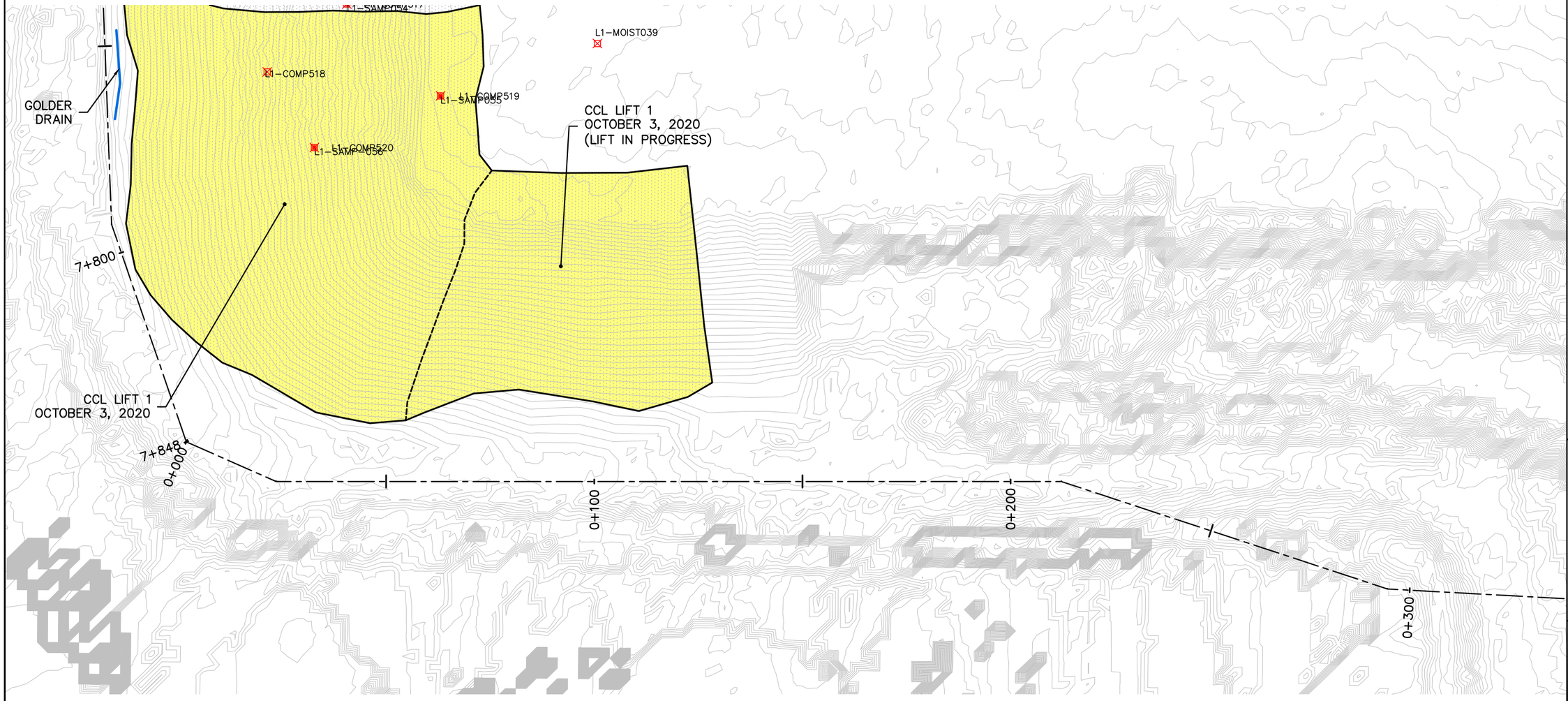
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 3, 2020 = 0m³
EXCAVATED TO DATE = 253m³

CCL LIFT 1
PLACED OCTOBER 3, 2020 = 1,683m³
PLACED TO DATE = 10,844m³

CCL LIFT 2
PLACED OCTOBER 3, 2020 = 0m³
PLACED TO DATE = 6,029m³

NCL LIFT 3
PLACED OCTOBER 3, 2020 = 0m³
PLACED TO DATE = 14,173m³

NCL LIFT 4
PLACED OCTOBER 3, 2020 = 1,386m³
PLACED TO DATE = 11,414m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 3, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum: North American Datum 1983 (NAD83) 6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum: Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

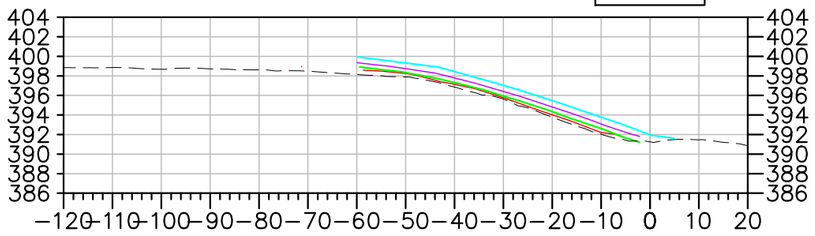
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 4, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D–2	19–1138	113

7+415.00



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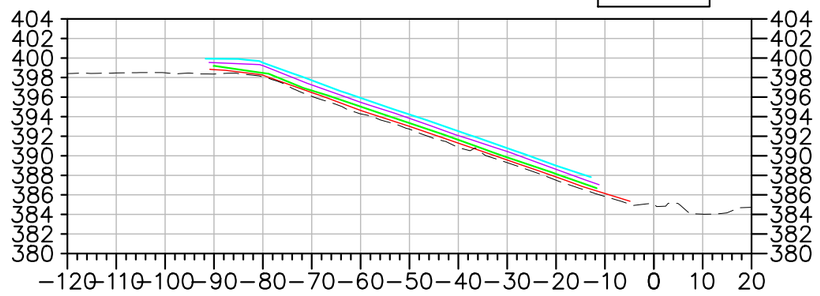

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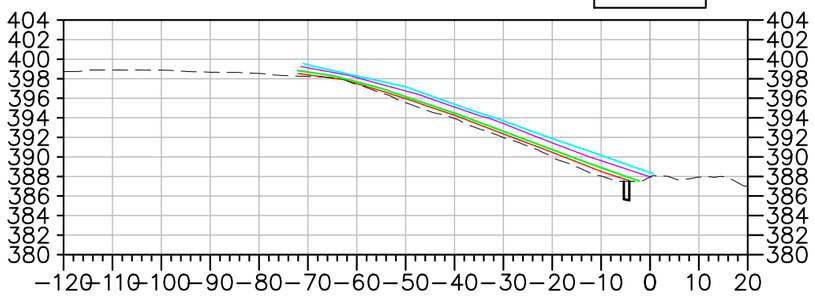

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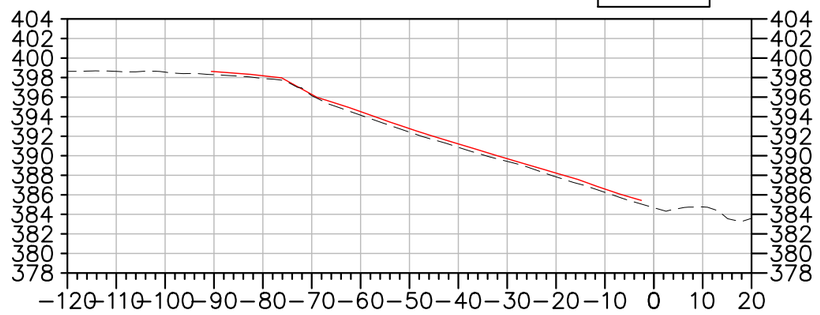

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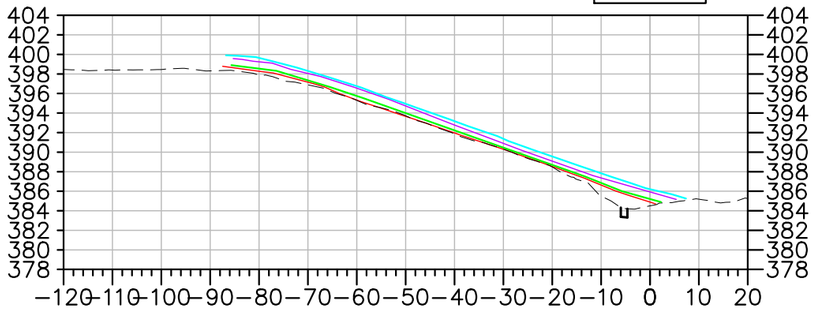

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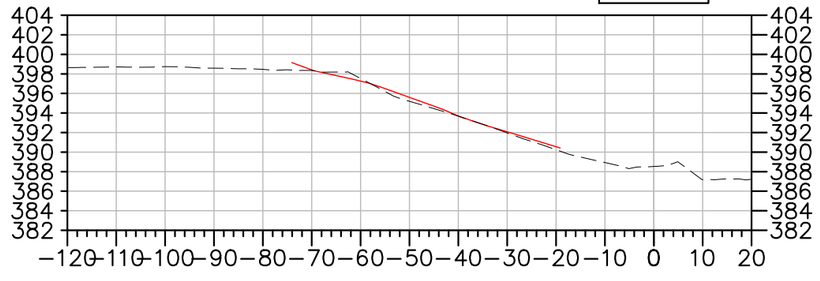


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 3, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 4, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

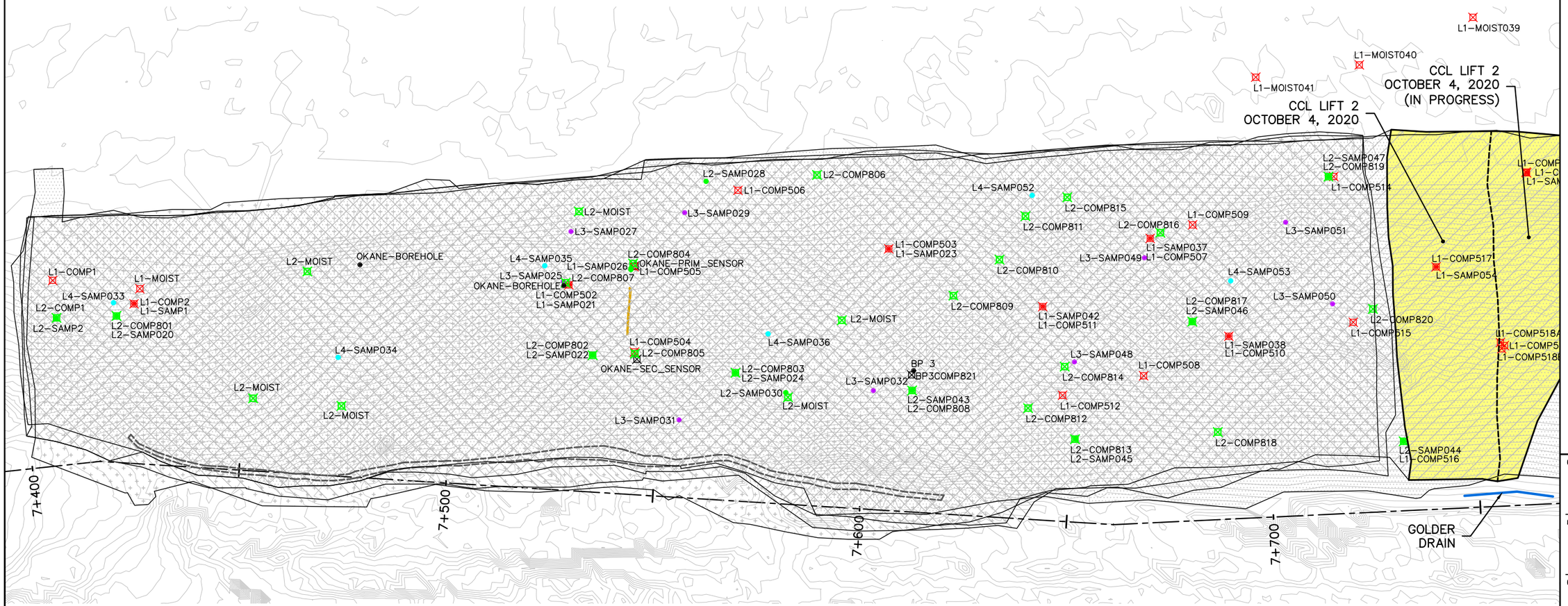
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 4, 2020 = 0m³
EXCAVATED TO DATE = 253m³

CCL LIFT 1
PLACED OCTOBER 4, 2020 = 260m³
PLACED TO DATE = 11,104m³

CCL LIFT 2
PLACED OCTOBER 4, 2020 = 1,015m³
PLACED TO DATE = 7,044m³

NCL LIFT 3
PLACED OCTOBER 4, 2020 = 0m³
PLACED TO DATE = 14,173m³

NCL LIFT 4
PLACED OCTOBER 4, 2020 = 0m³
PLACED TO DATE = 11,414m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 4, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 5, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

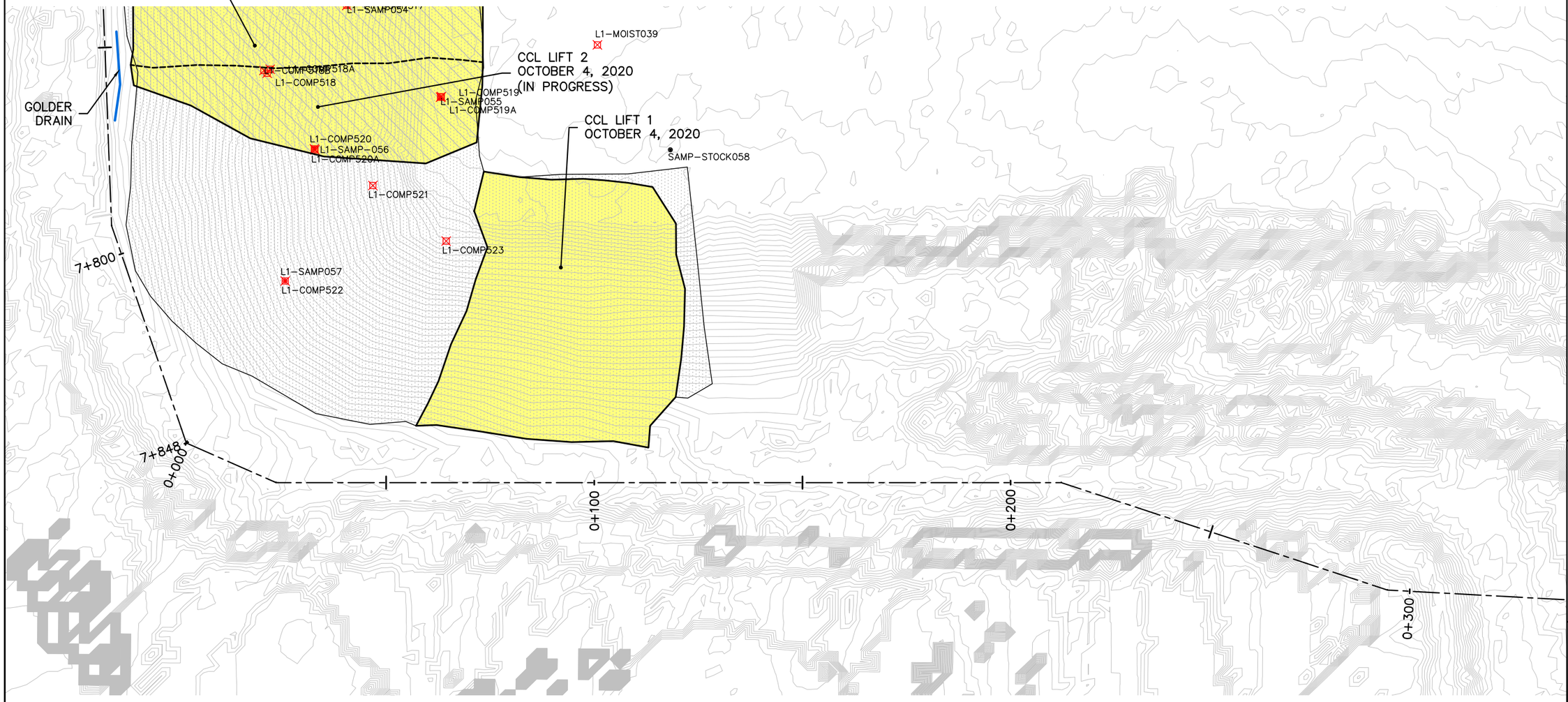
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 4, 2020 = 0m³
EXCAVATED TO DATE = 253m³

CCL LIFT 1
PLACED OCTOBER 4, 2020 = 260m³
PLACED TO DATE = 11,104m³

CCL LIFT 2
PLACED OCTOBER 4, 2020 = 1,015m³
PLACED TO DATE = 7,044m³

NCL LIFT 3
PLACED OCTOBER 4, 2020 = 0m³
PLACED TO DATE = 14,173m³

NCL LIFT 4
PLACED OCTOBER 4, 2020 = 0m³
PLACED TO DATE = 11,414m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 4, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

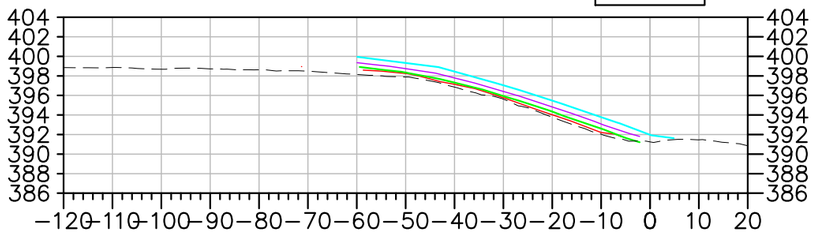
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 5, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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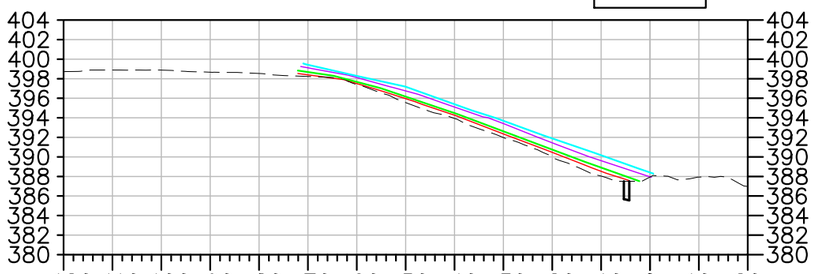

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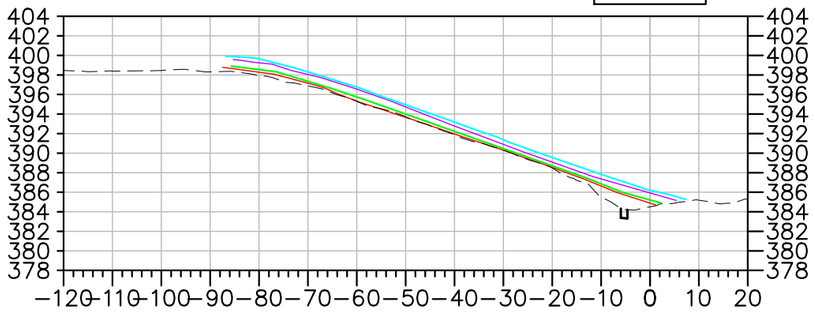

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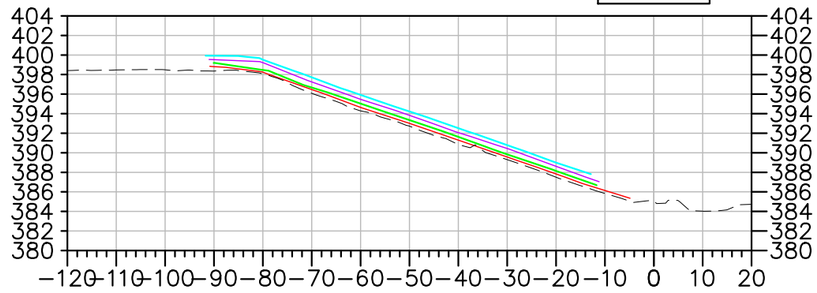

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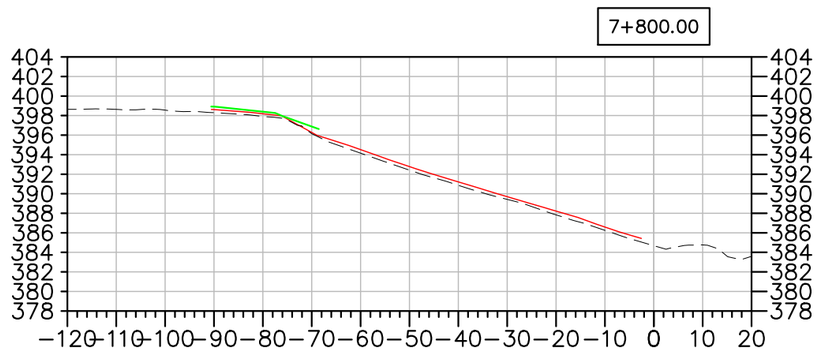

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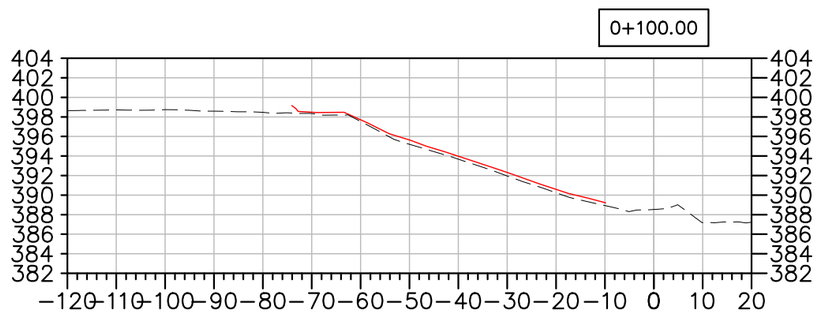


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 4, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 5, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

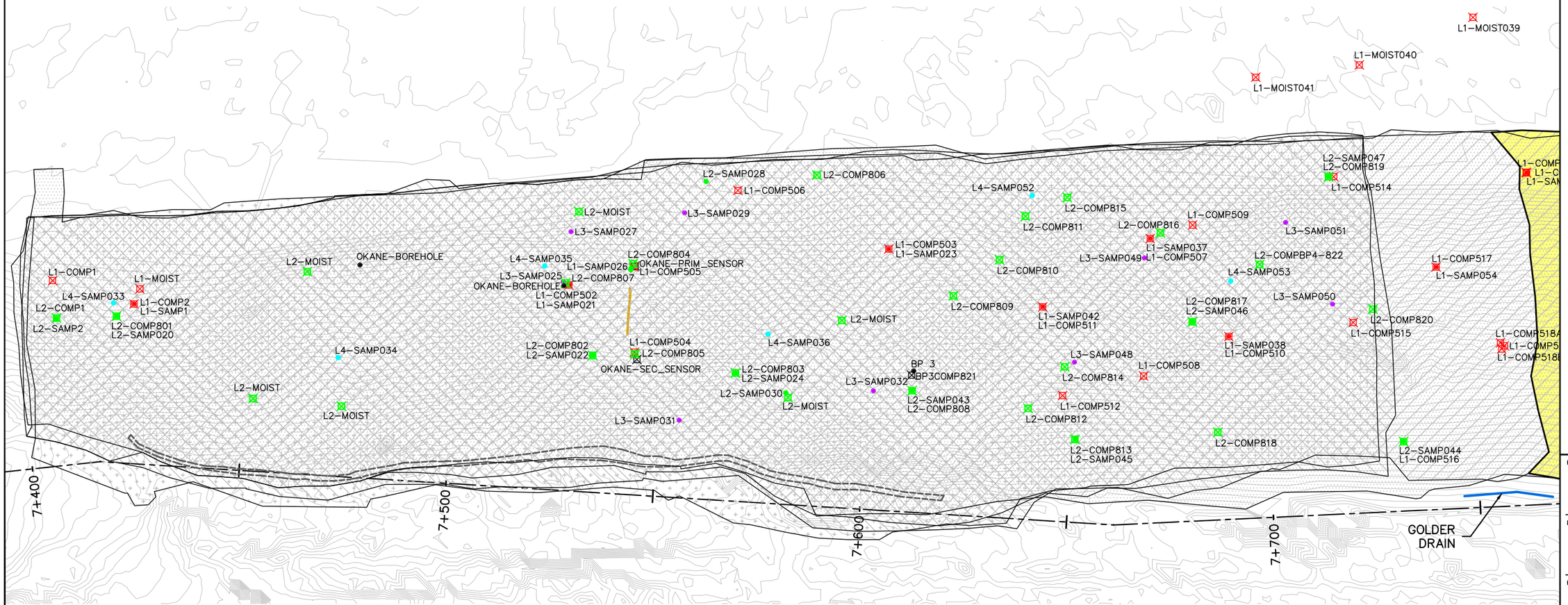
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 5, 2020 = 65m^3
EXCAVATED TO DATE = 318m^3

CCL LIFT 1
PLACED OCTOBER 5, 2020 = 83m^3
PLACED TO DATE = 11,187m^3

CCL LIFT 2
PLACED OCTOBER 5, 2020 = 369m^3
PLACED TO DATE = 7,413m^3

NCL LIFT 3
PLACED OCTOBER 5, 2020 = 0m^3
PLACED TO DATE = 14,173m^3

NCL LIFT 4
PLACED OCTOBER 5, 2020 = 0m^3
PLACED TO DATE = 11,414m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 5, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 6, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

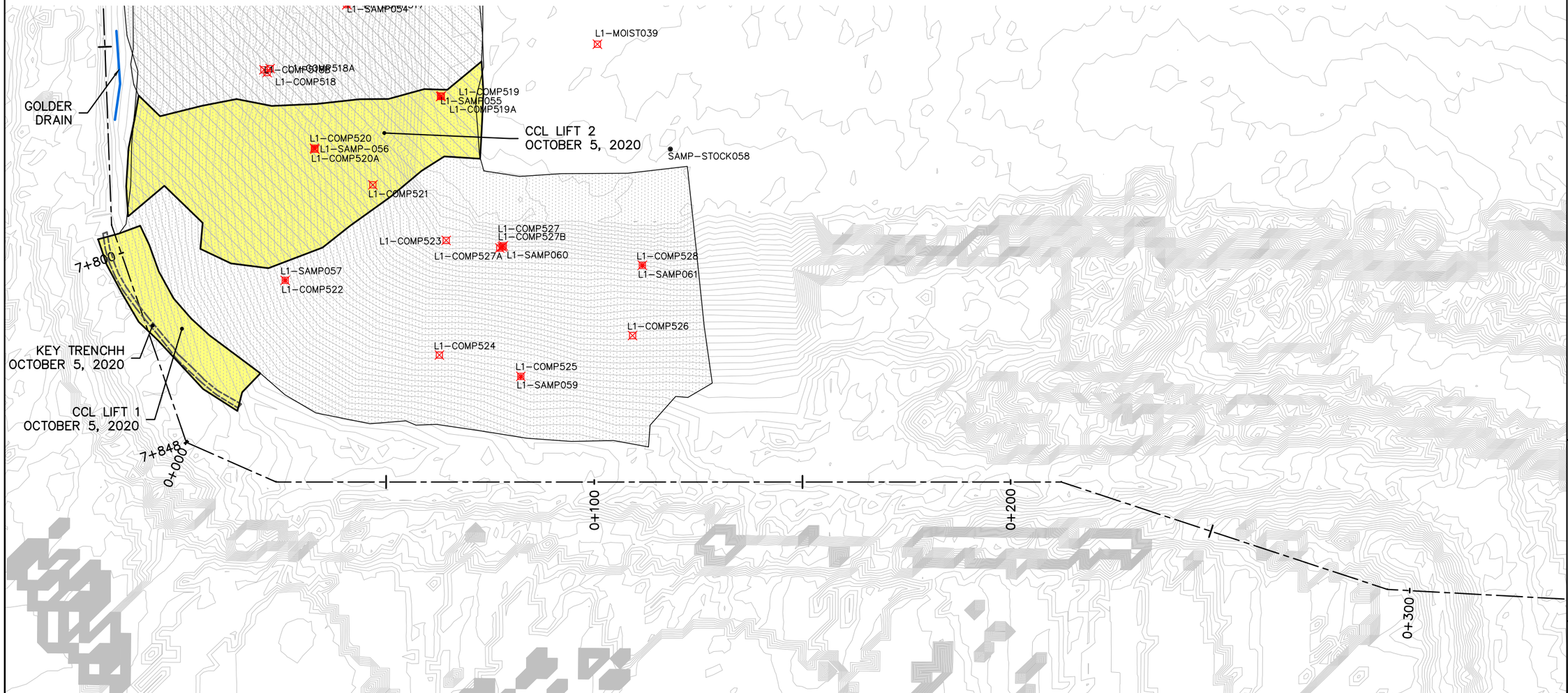
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 5, 2020 = 65m³
EXCAVATED TO DATE = 318m³

CCL LIFT 1
PLACED OCTOBER 5, 2020 = 83m³
PLACED TO DATE = 11,187m³

CCL LIFT 2
PLACED OCTOBER 5, 2020 = 369m³
PLACED TO DATE = 7,413m³

NCL LIFT 3
PLACED OCTOBER 5, 2020 = 0m³
PLACED TO DATE = 14,173m³

NCL LIFT 4
PLACED OCTOBER 5, 2020 = 0m³
PLACED TO DATE = 11,414m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 5, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

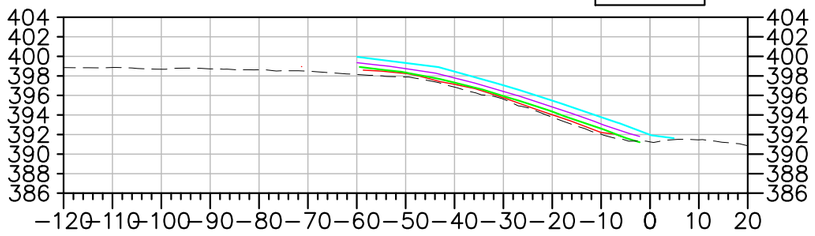
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 6, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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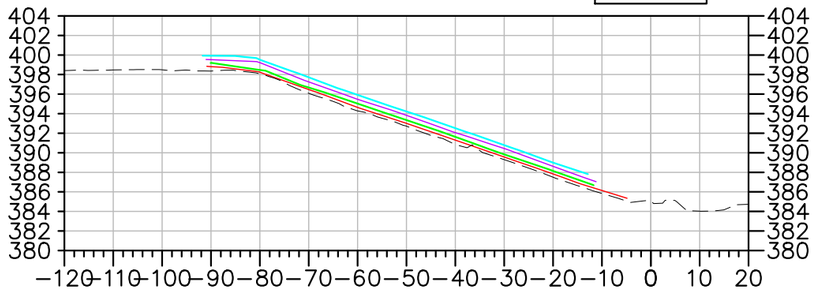

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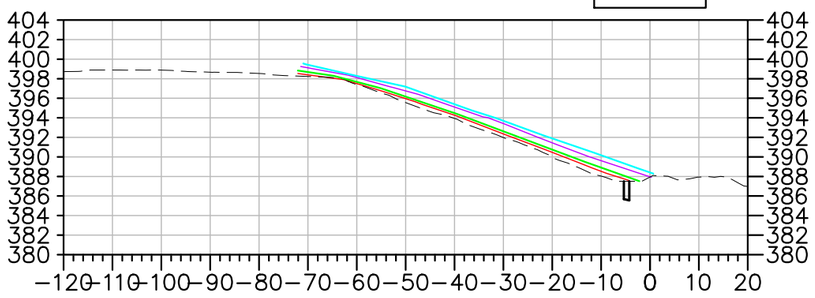

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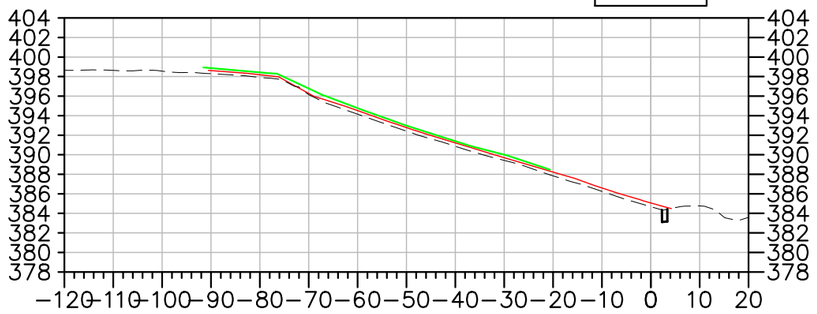

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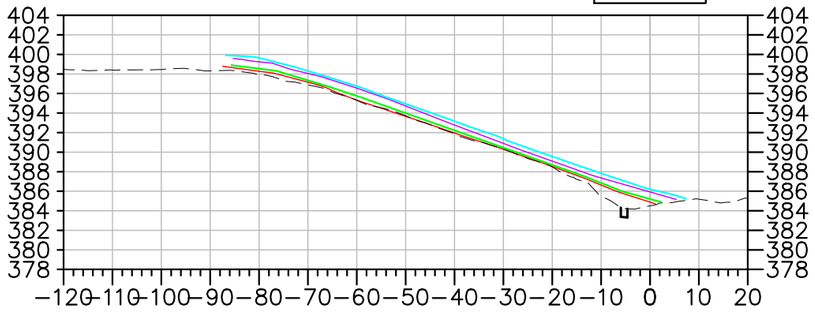

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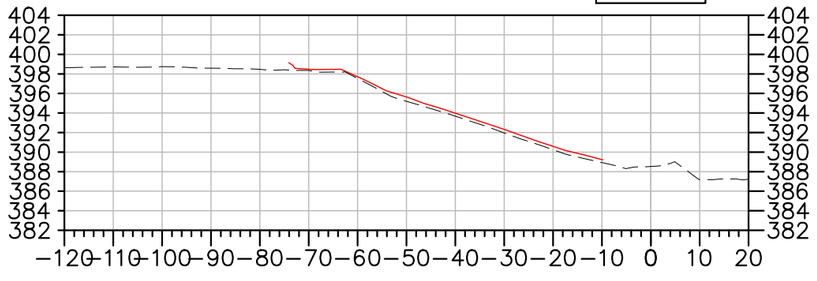


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 5, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 6, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

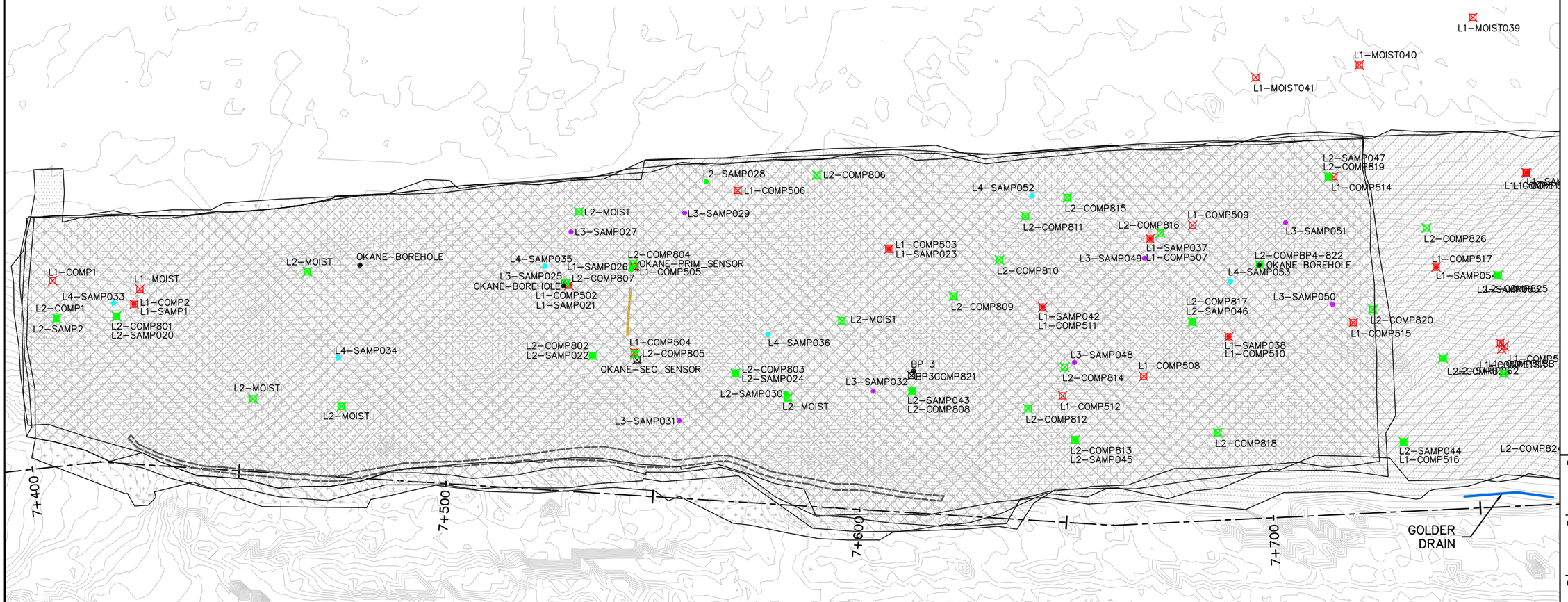
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 6, 2020 = 146m^3
EXCAVATED TO DATE = 464m^3

CCL LIFT 1
PLACED OCTOBER 6, 2020 = 188m^3
PLACED TO DATE = 11,375m^3

CCL LIFT 2
PLACED OCTOBER 6, 2020 = 1,688m^3
PLACED TO DATE = 9,101m^3

NCL LIFT 3
PLACED OCTOBER 6, 2020 = 0m^3
PLACED TO DATE = 14,173m^3

NCL LIFT 4
PLACED OCTOBER 6, 2020 = 0m^3
PLACED TO DATE = 11,414m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 6, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 7, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

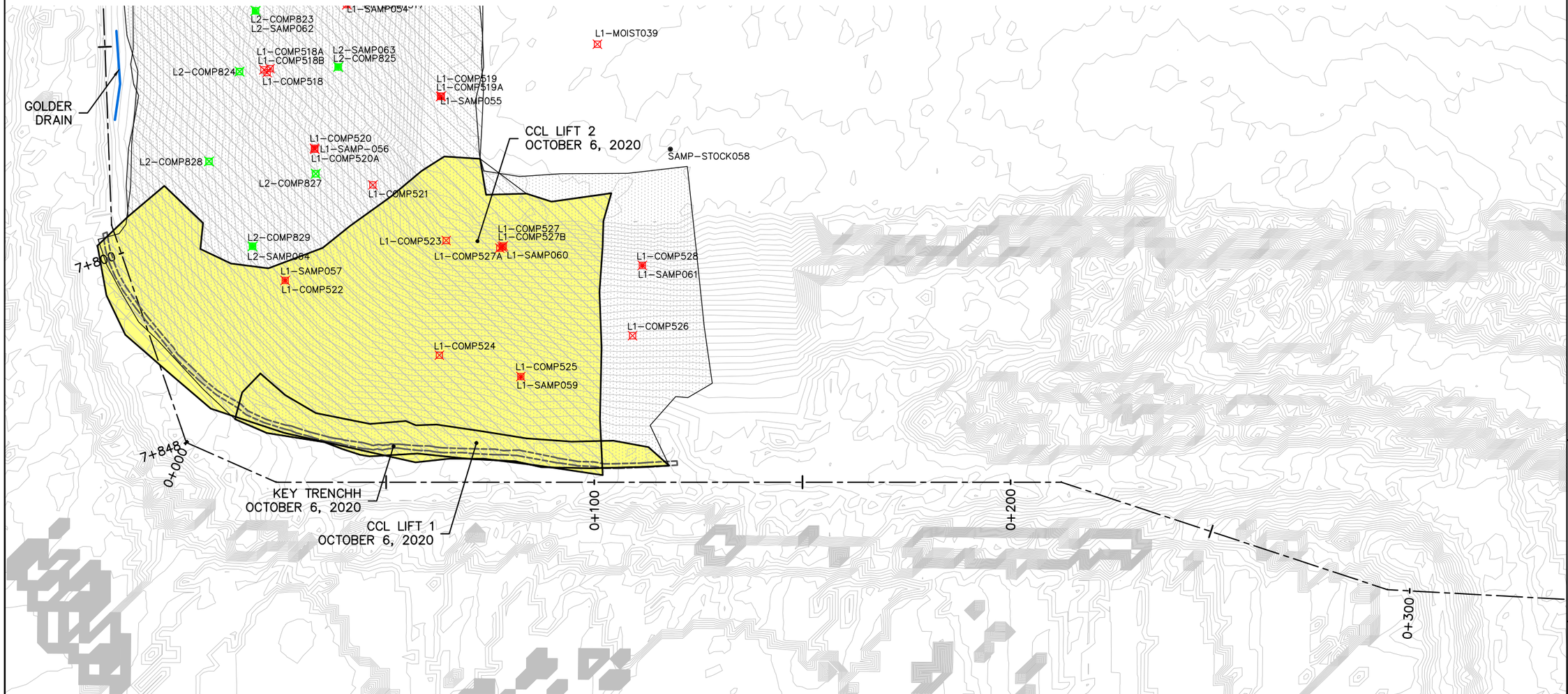
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 6, 2020 = 146m^3
EXCAVATED TO DATE = 464m^3

CCL LIFT 1
PLACED OCTOBER 6, 2020 = 188m^3
PLACED TO DATE = 11,375m^3

CCL LIFT 2
PLACED OCTOBER 6, 2020 = 1,688m^3
PLACED TO DATE = 9,101m^3

NCL LIFT 3
PLACED OCTOBER 6, 2020 = 0m^3
PLACED TO DATE = 14,173m^3

NCL LIFT 4
PLACED OCTOBER 6, 2020 = 0m^3
PLACED TO DATE = 11,414m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 6, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

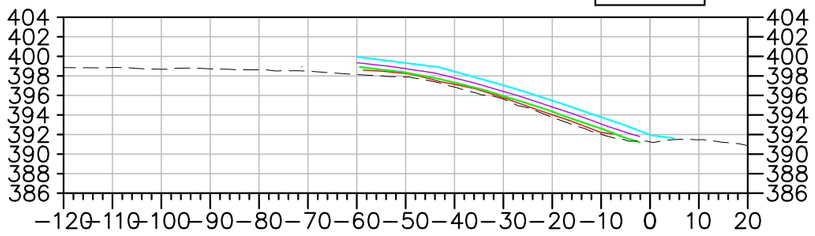
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 7, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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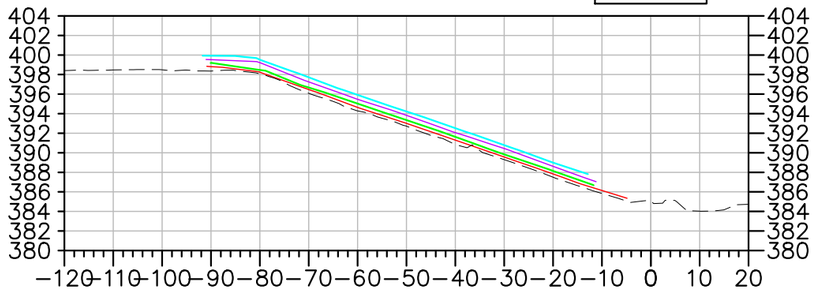

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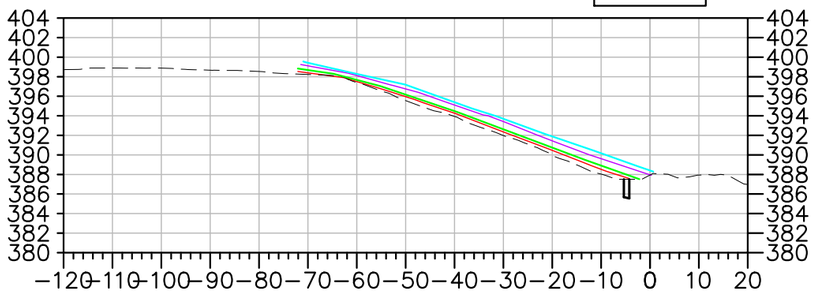

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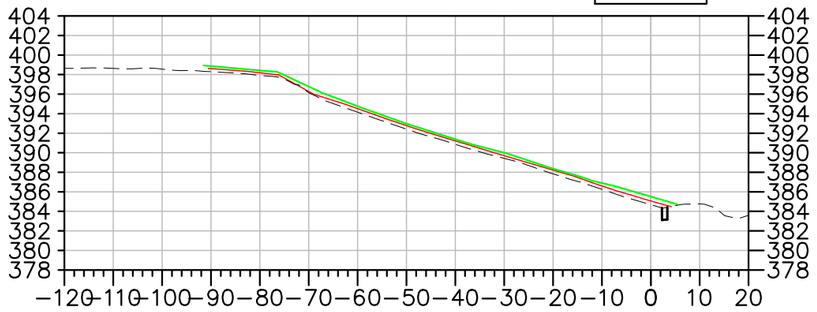

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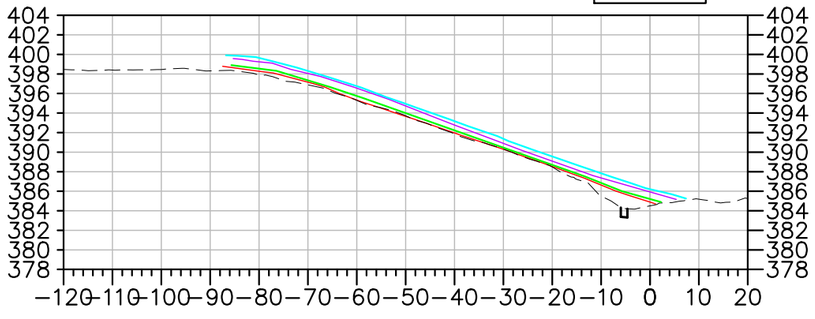

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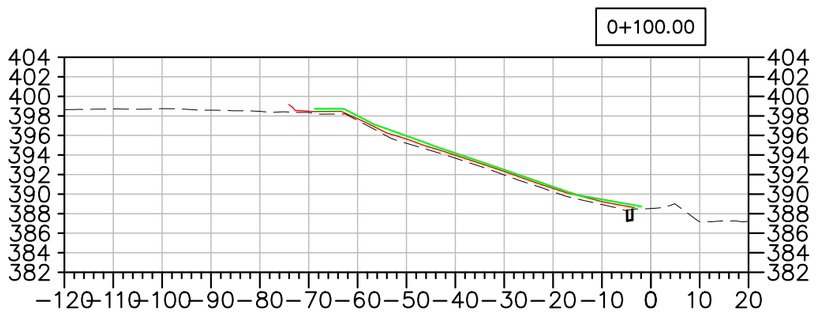


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 6, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 7, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

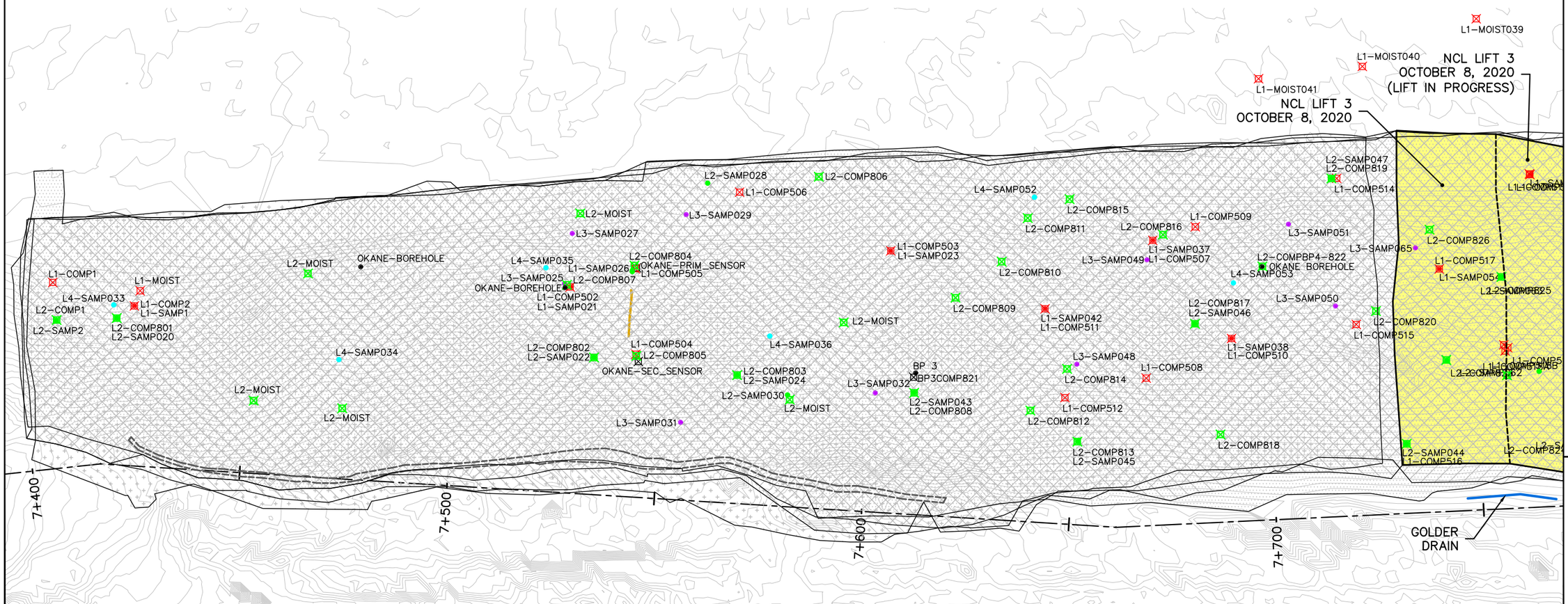
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 8, 2020 = 0m^3
EXCAVATED TO DATE = 464m^3

CCL LIFT 1
PLACED OCTOBER 8, 2020 = 0m^3
PLACED TO DATE = 11,375m^3

CCL LIFT 2
PLACED OCTOBER 8, 2020 = 0m^3
PLACED TO DATE = 9,101m^3

NCL LIFT 3
PLACED OCTOBER 8, 2020 = 2,001m^3
PLACED TO DATE = 16,174m^3

NCL LIFT 4
PLACED OCTOBER 8, 2020 = 0m^3
PLACED TO DATE = 11,414m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 8, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 9, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

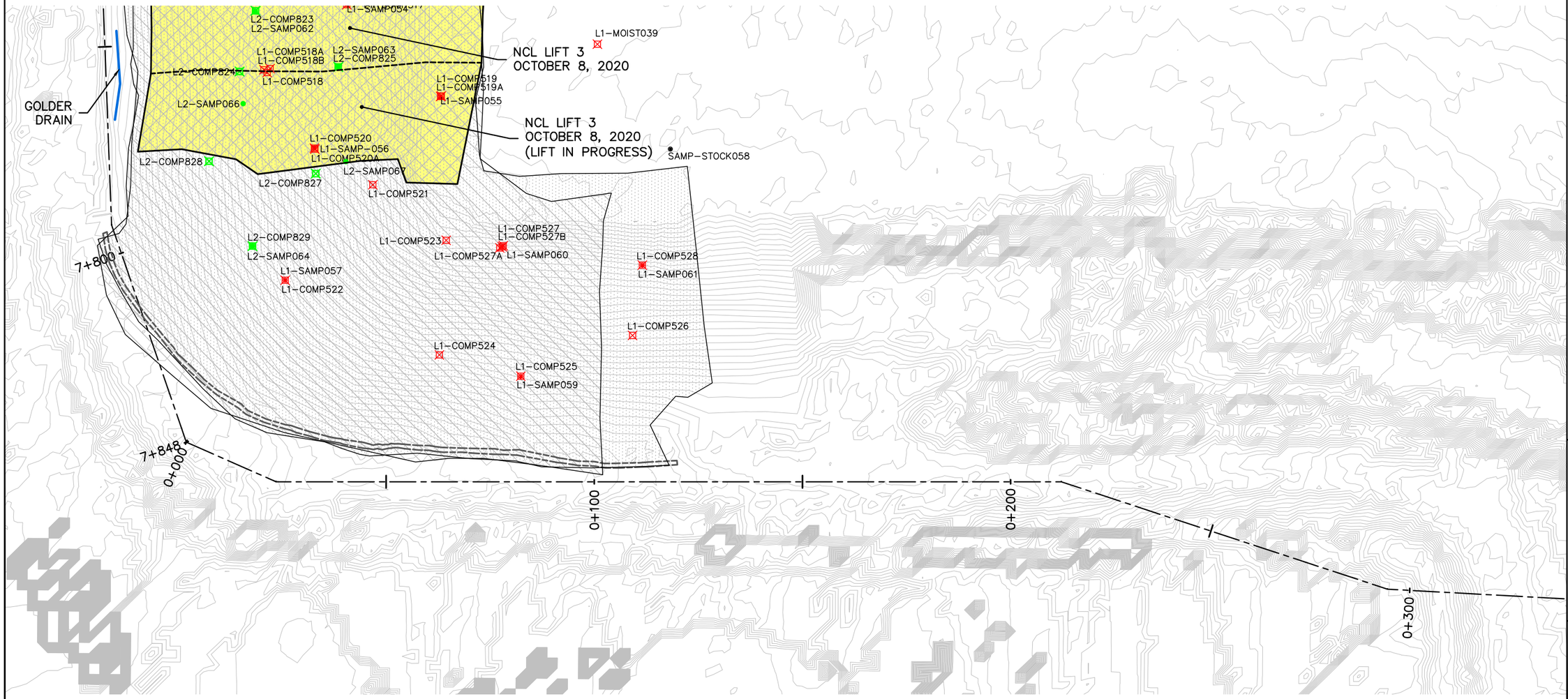
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 8, 2020 = 0m³
EXCAVATED TO DATE = 464m³

CCL LIFT 1
PLACED OCTOBER 8, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 8, 2020 = 0m³
PLACED TO DATE = 9,101m³

NCL LIFT 3
PLACED OCTOBER 8, 2020 = 2,001m³
PLACED TO DATE = 16,174m³

NCL LIFT 4
PLACED OCTOBER 8, 2020 = 0m³
PLACED TO DATE = 11,414m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 8, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum: North American Datum 1983 (NAD83) 6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum: Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

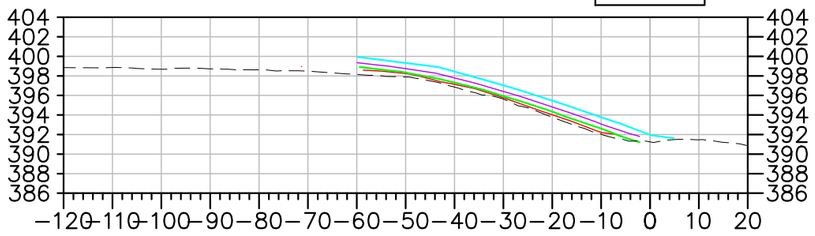
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 9, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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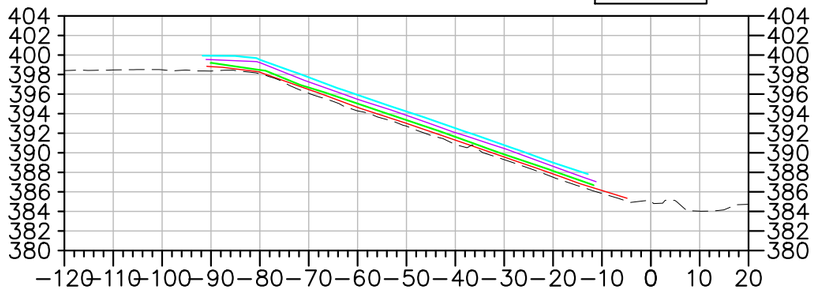

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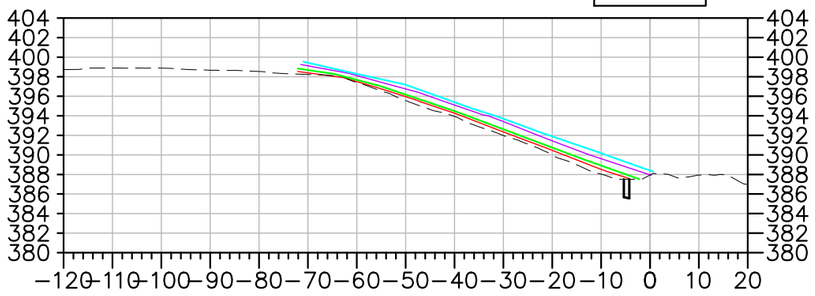

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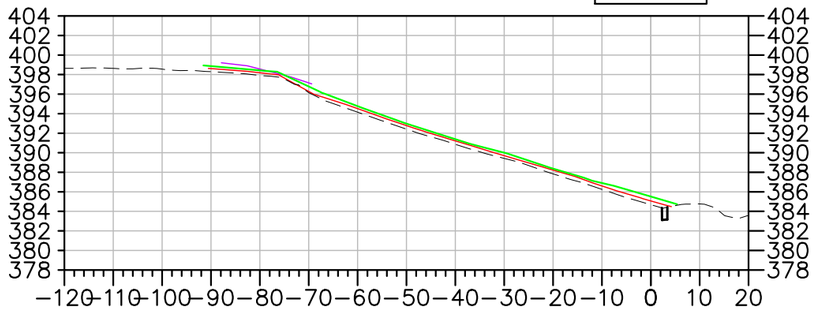

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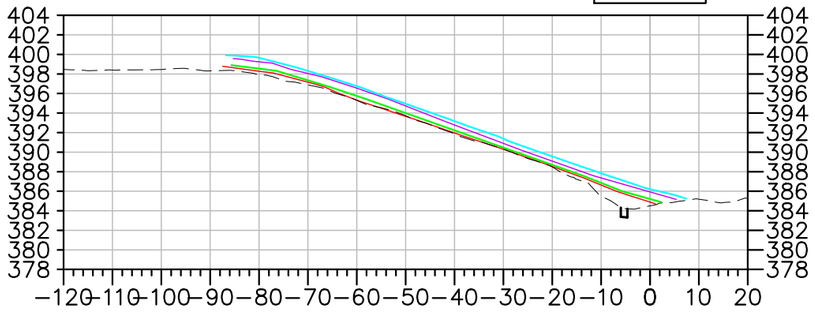

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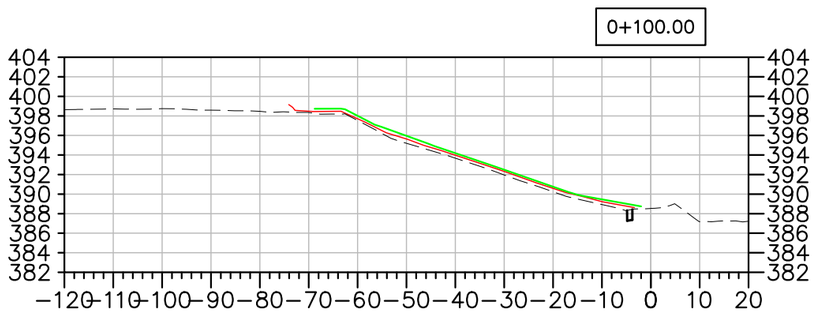


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 8, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 9, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

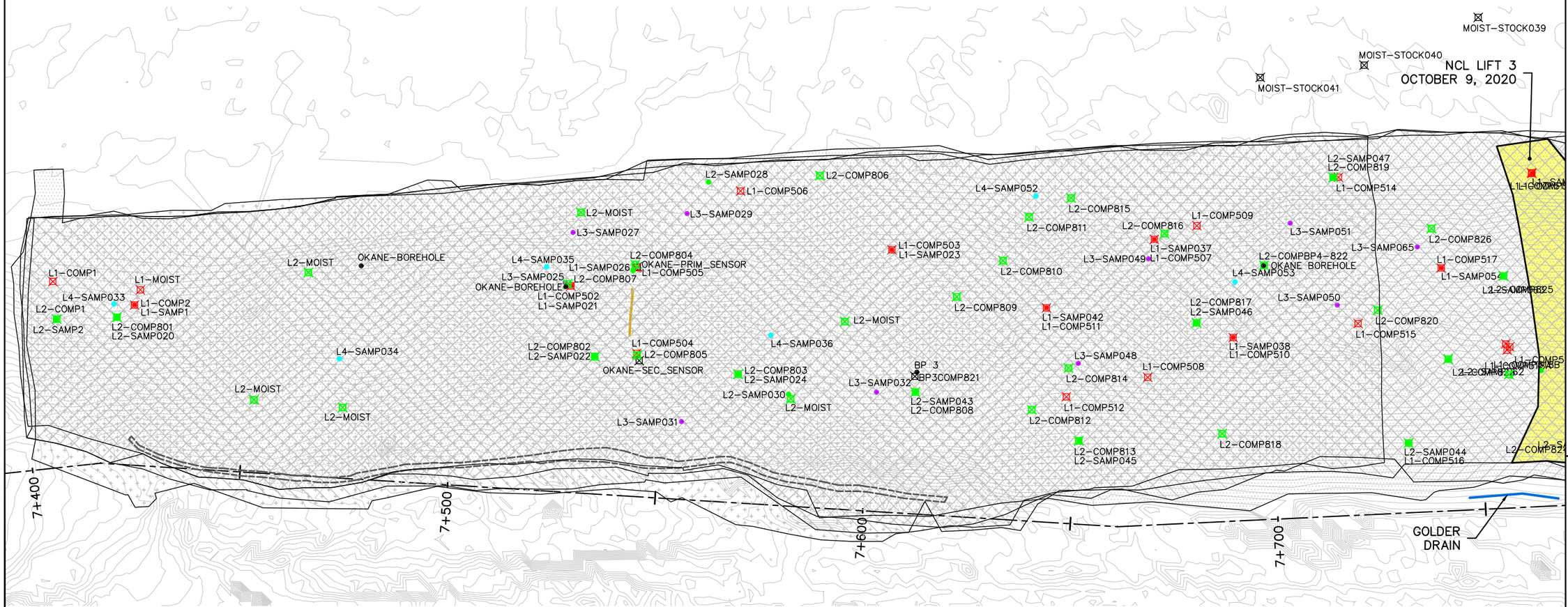
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 9, 2020 = 0m³
EXCAVATED TO DATE = 464m³

CCL LIFT 1
PLACED OCTOBER 9, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 9, 2020 = 0m³
PLACED TO DATE = 9,101m³

NCL LIFT 3
PLACED OCTOBER 9, 2020 = 1,032m³
PLACED TO DATE = 17,206m³

NCL LIFT 4
PLACED OCTOBER 9, 2020 = 0m³
PLACED TO DATE = 11,414m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 9, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 10, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

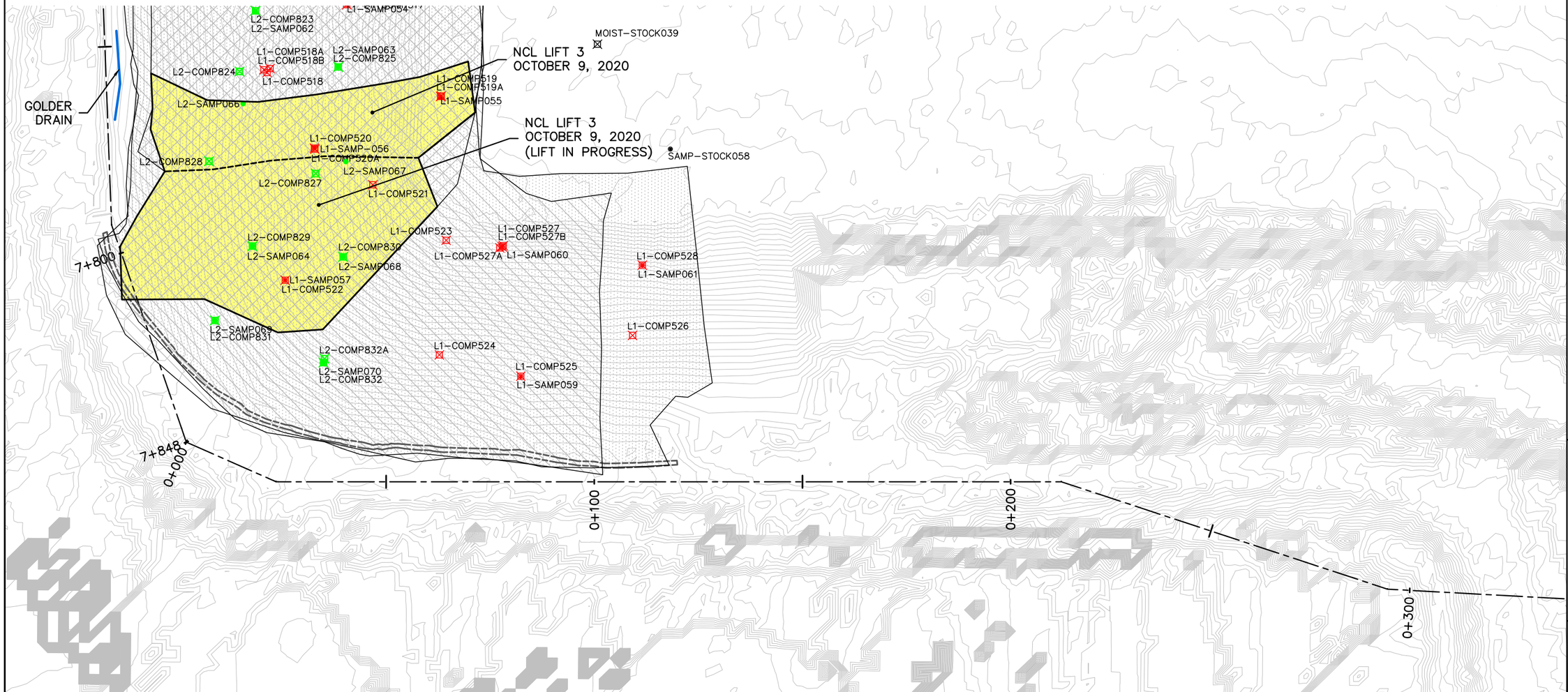
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 9, 2020 = 0m³
EXCAVATED TO DATE = 464m³

CCL LIFT 1
PLACED OCTOBER 9, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 9, 2020 = 0m³
PLACED TO DATE = 9,101m³

NCL LIFT 3
PLACED OCTOBER 9, 2020 = 1,032m³
PLACED TO DATE = 17,206m³

NCL LIFT 4
PLACED OCTOBER 9, 2020 = 0m³
PLACED TO DATE = 11,414m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 9, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

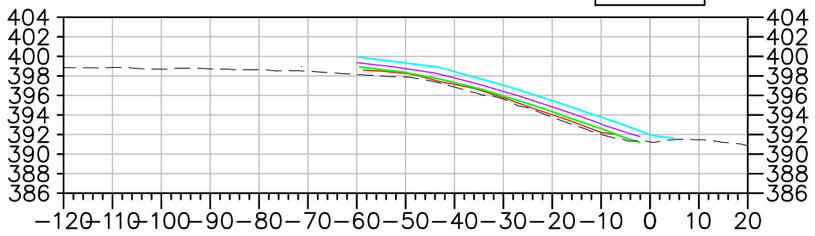
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 10, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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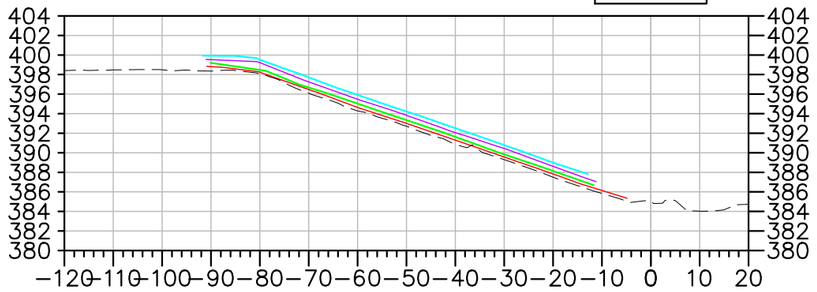

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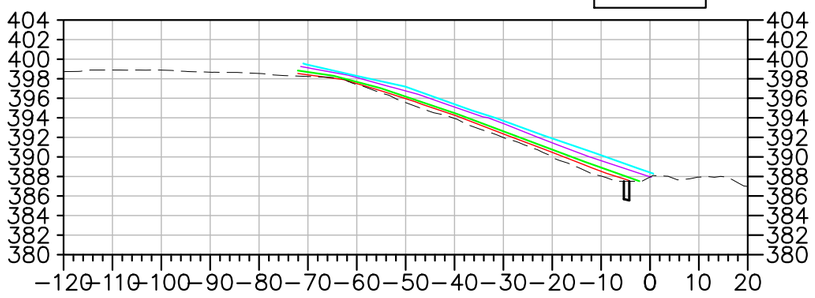

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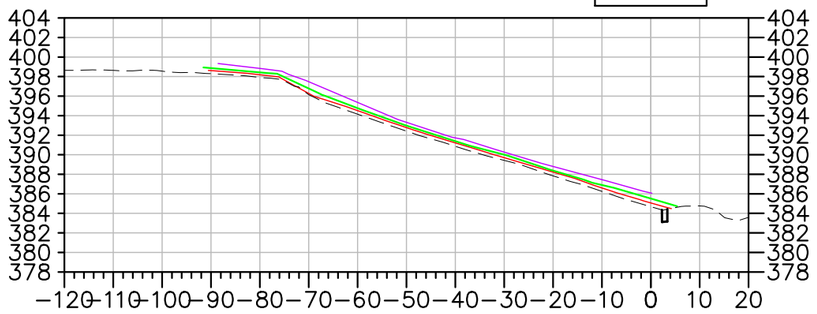

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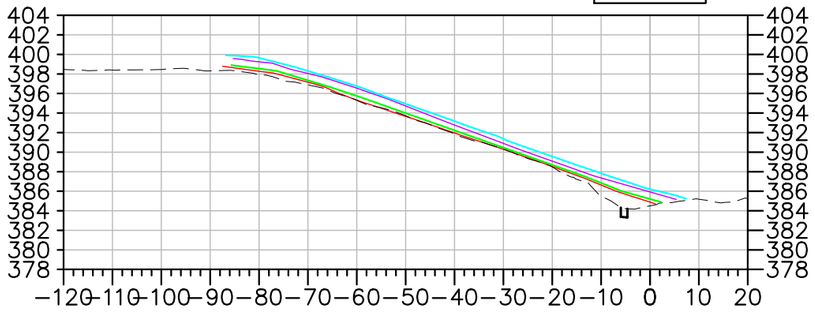

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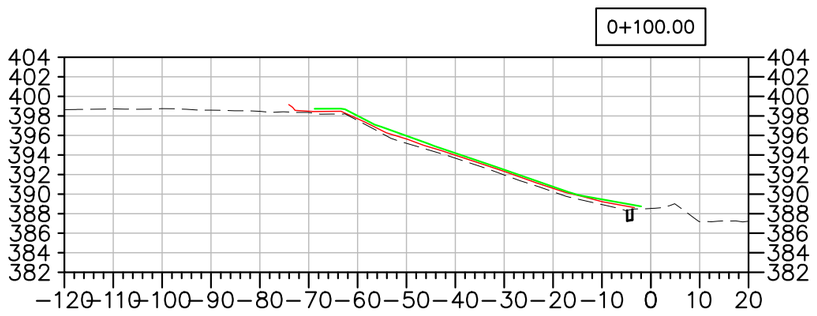


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 9, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 10, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

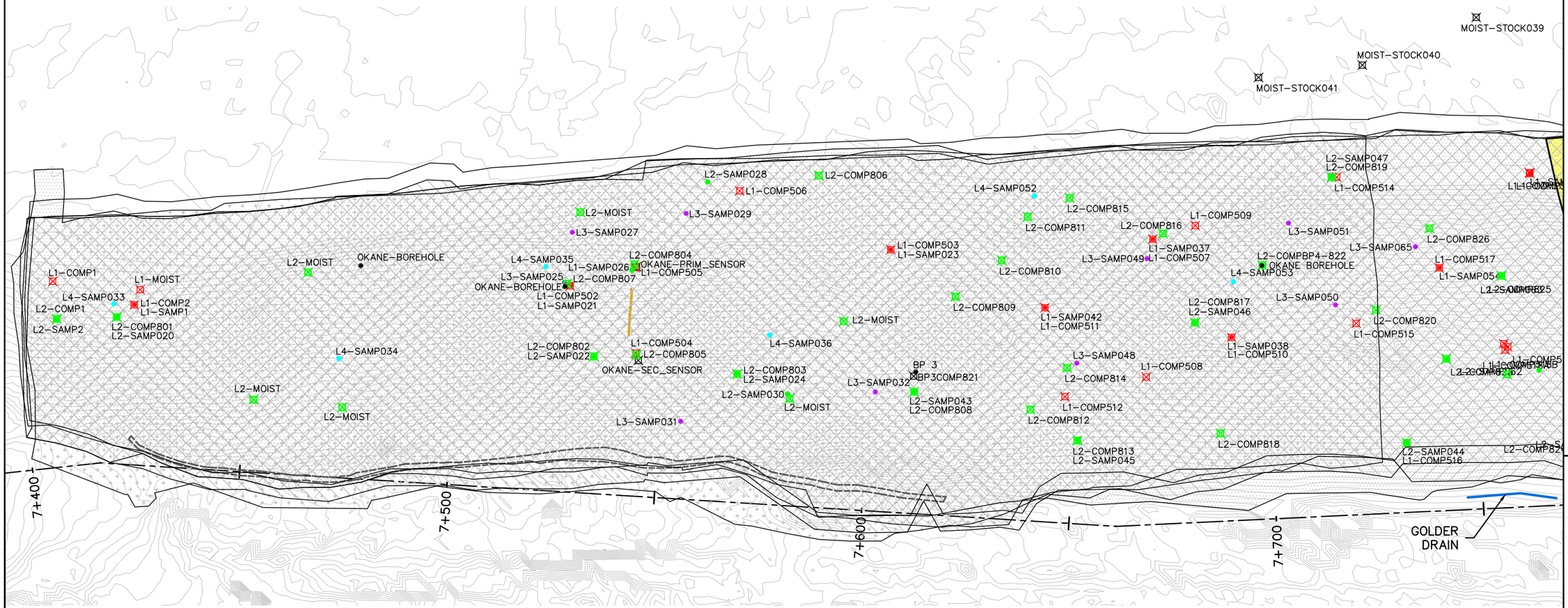
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 10, 2020 = 0m^3
EXCAVATED TO DATE = 464m^3

CCL LIFT 1
PLACED OCTOBER 10, 2020 = 0m^3
PLACED TO DATE = 11,375m^3

CCL LIFT 2
PLACED OCTOBER 10, 2020 = 278m^3
PLACED TO DATE = 9,379m^3

NCL LIFT 3
PLACED OCTOBER 10, 2020 = 1,041m^3
PLACED TO DATE = 18,247m^3

NCL LIFT 4
PLACED OCTOBER 10, 2020 = 0m^3
PLACED TO DATE = 11,414m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 10, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 11, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

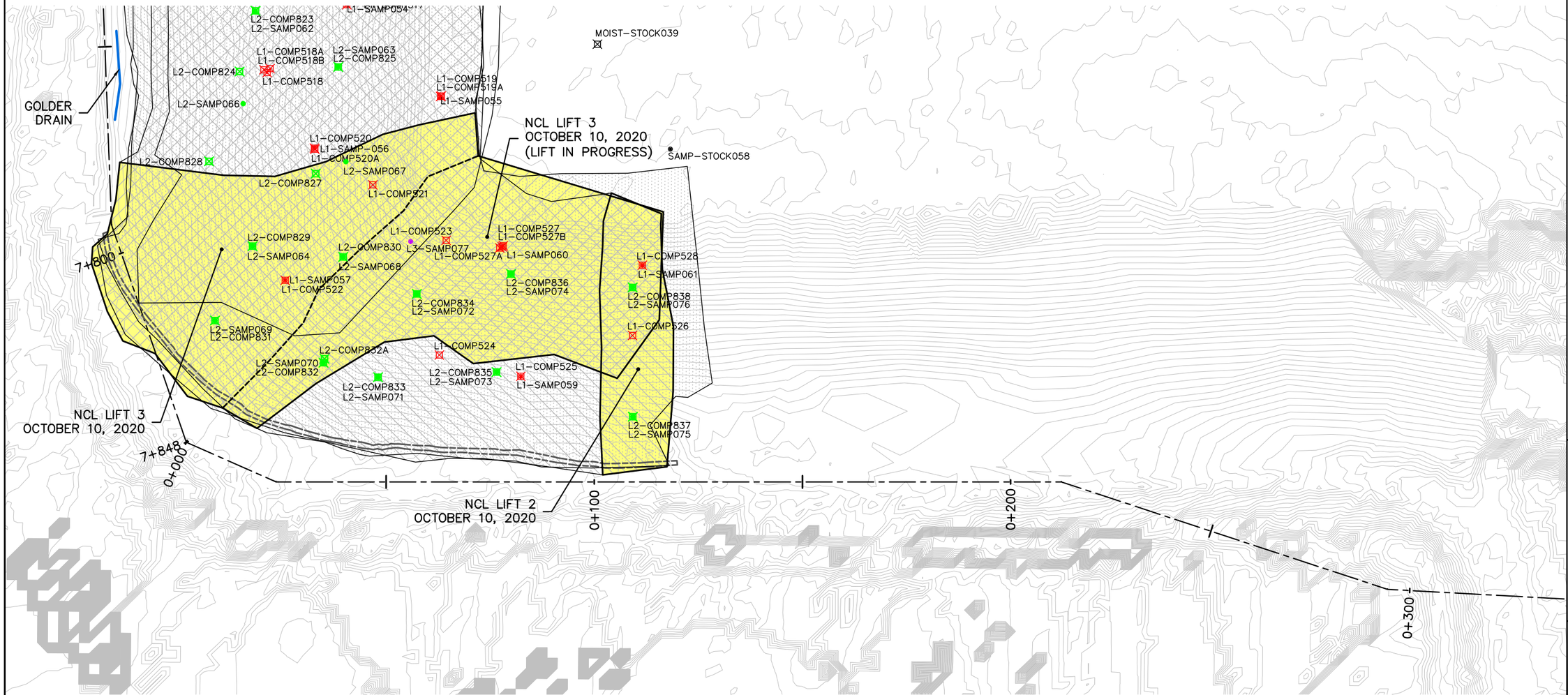
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 10, 2020 = 0m³
EXCAVATED TO DATE = 464m³

CCL LIFT 1
PLACED OCTOBER 10, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 10, 2020 = 278m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 10, 2020 = 1,041m³
PLACED TO DATE = 18,247m³

NCL LIFT 4
PLACED OCTOBER 10, 2020 = 0m³
PLACED TO DATE = 11,414m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 10, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

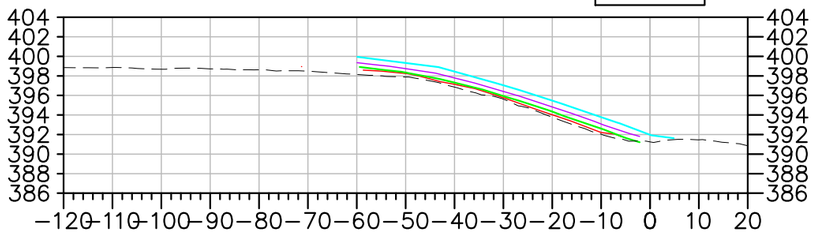
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 11, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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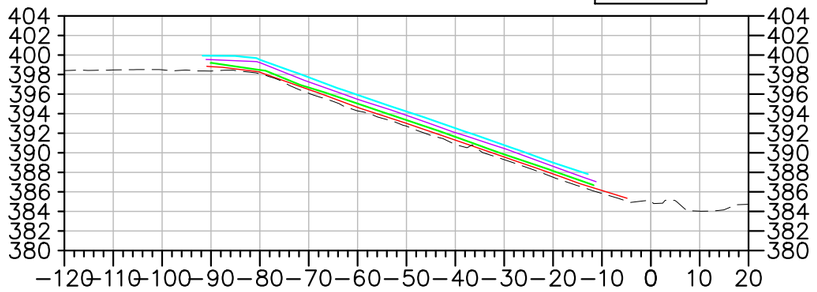

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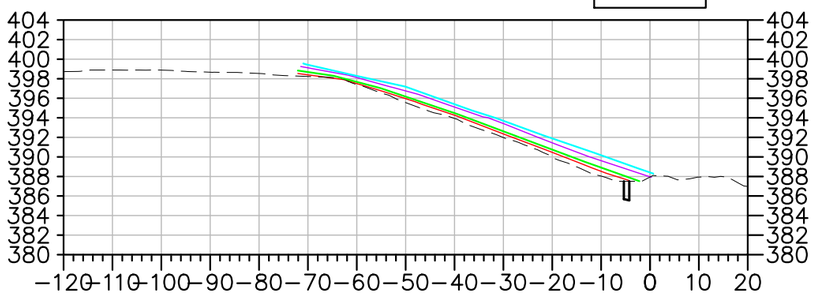

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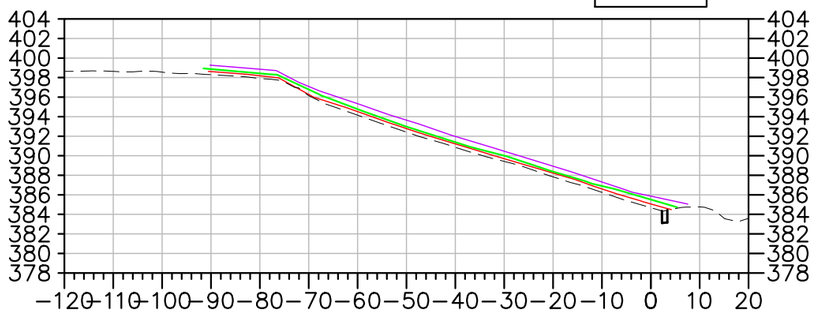

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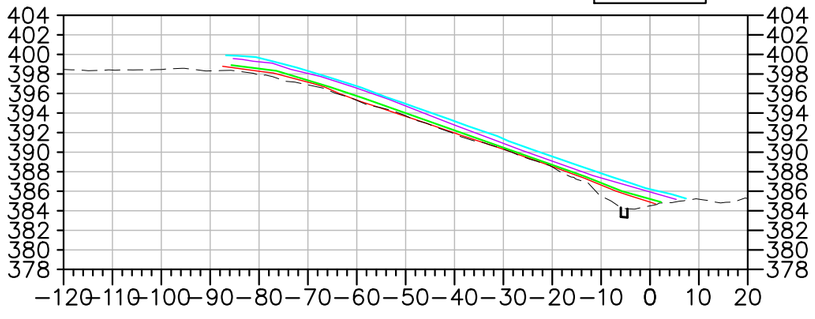

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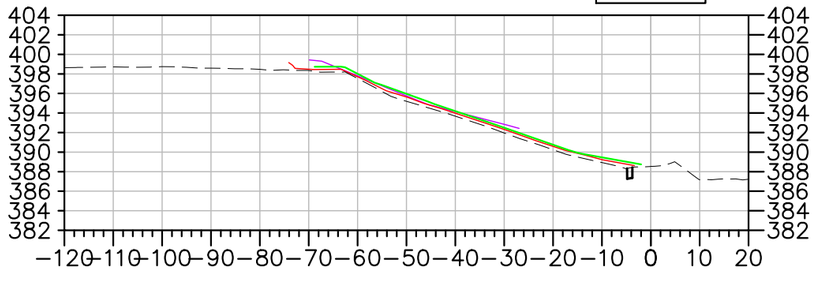


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 10, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 11, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

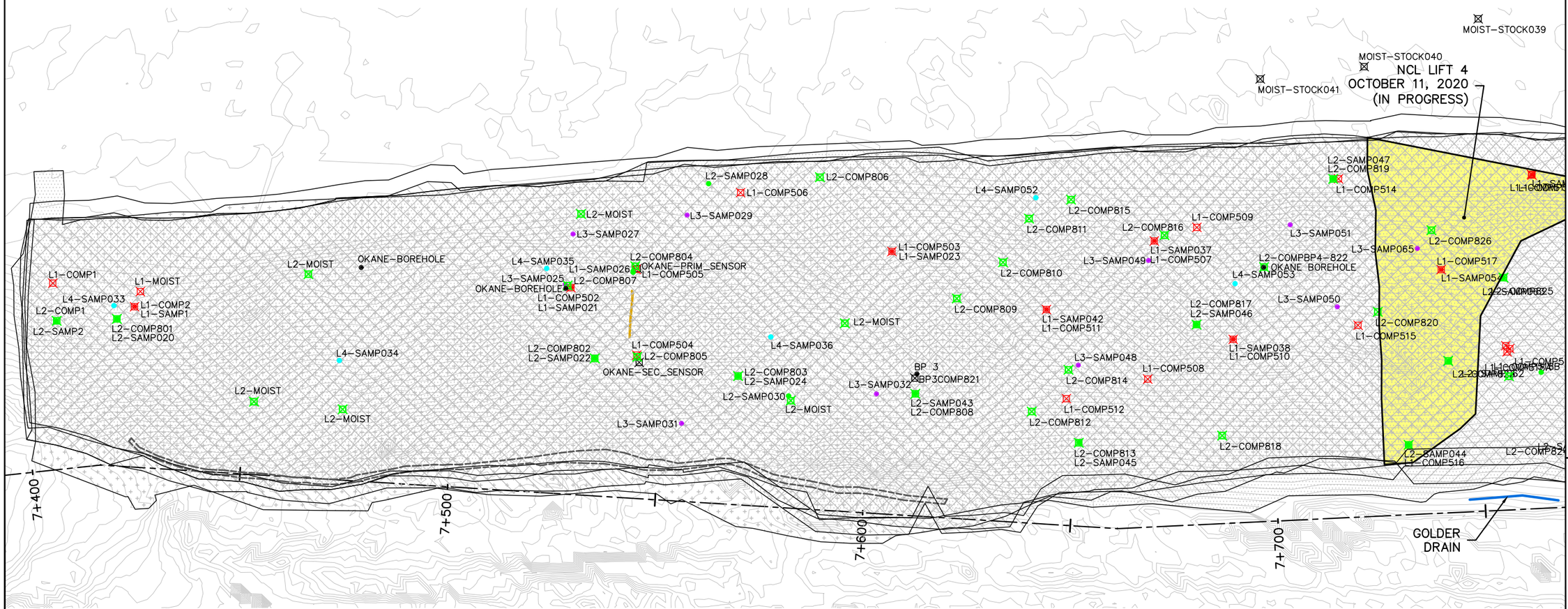
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 11, 2020 = 7m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 11, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 11, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 11, 2020 = 1,779m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 11, 2020 = 1,079m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 11, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 12, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

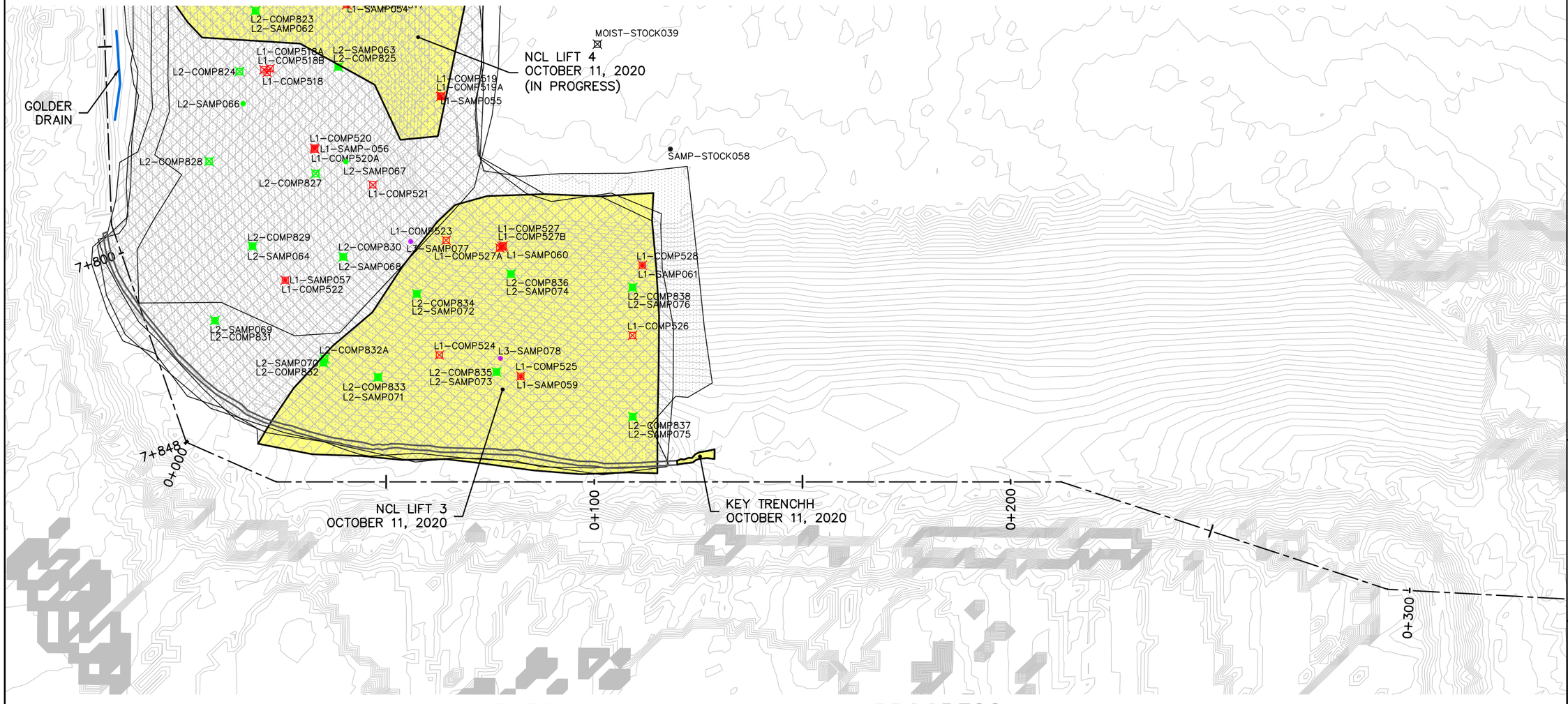
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 11, 2020 = 7m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 11, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 11, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 11, 2020 = 1,779m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 11, 2020 = 1,079m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 11, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

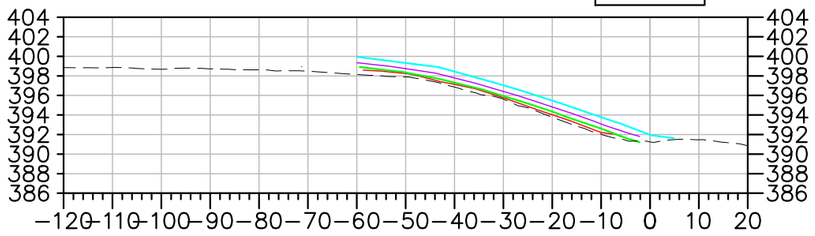
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 12, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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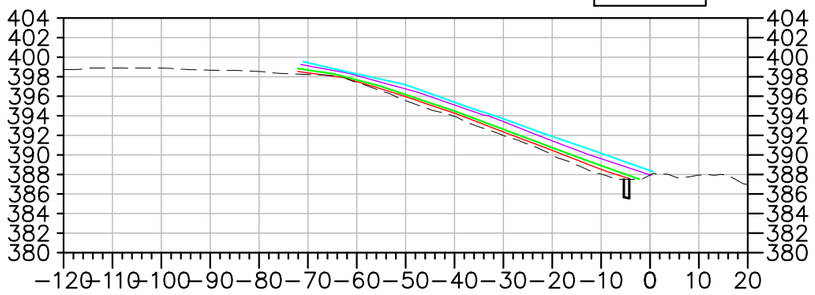

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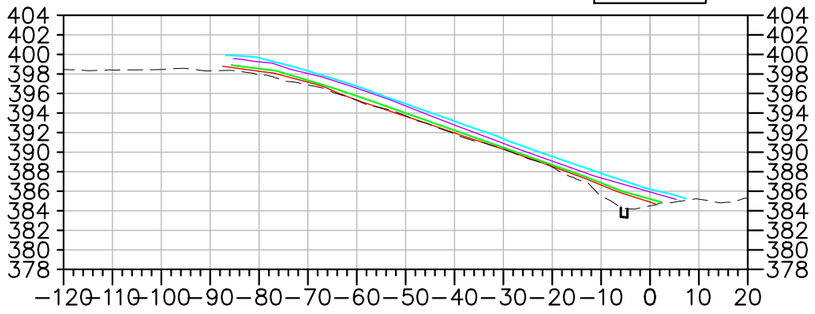

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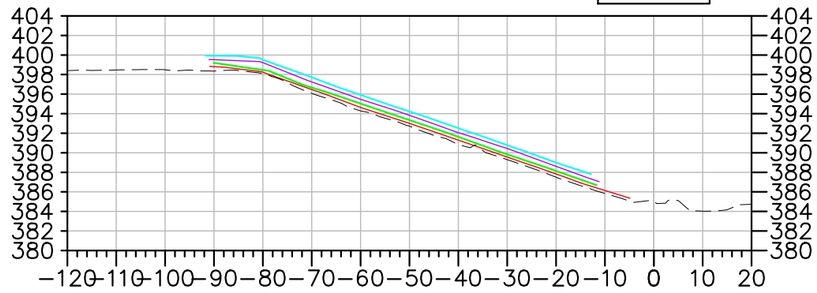

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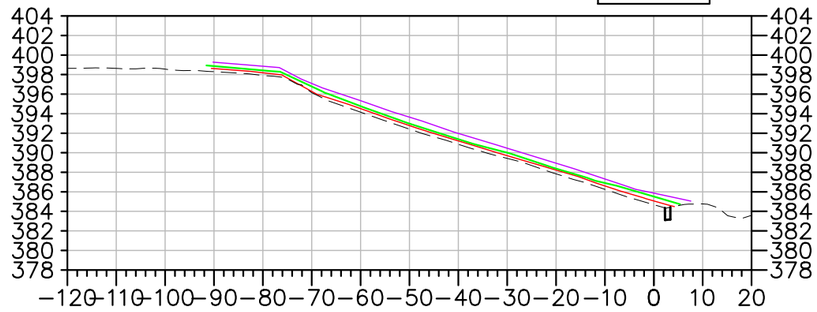

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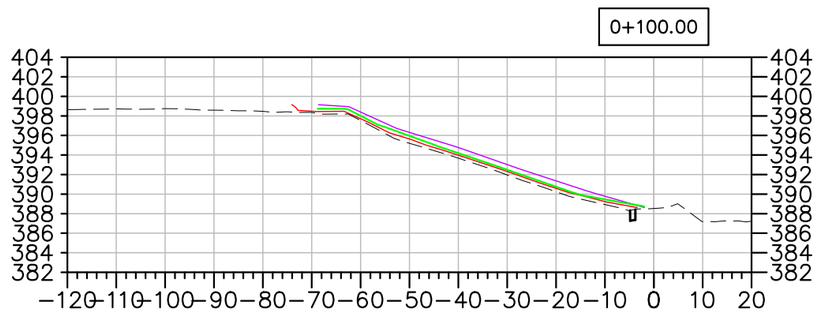

EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 11, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

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Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 12, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

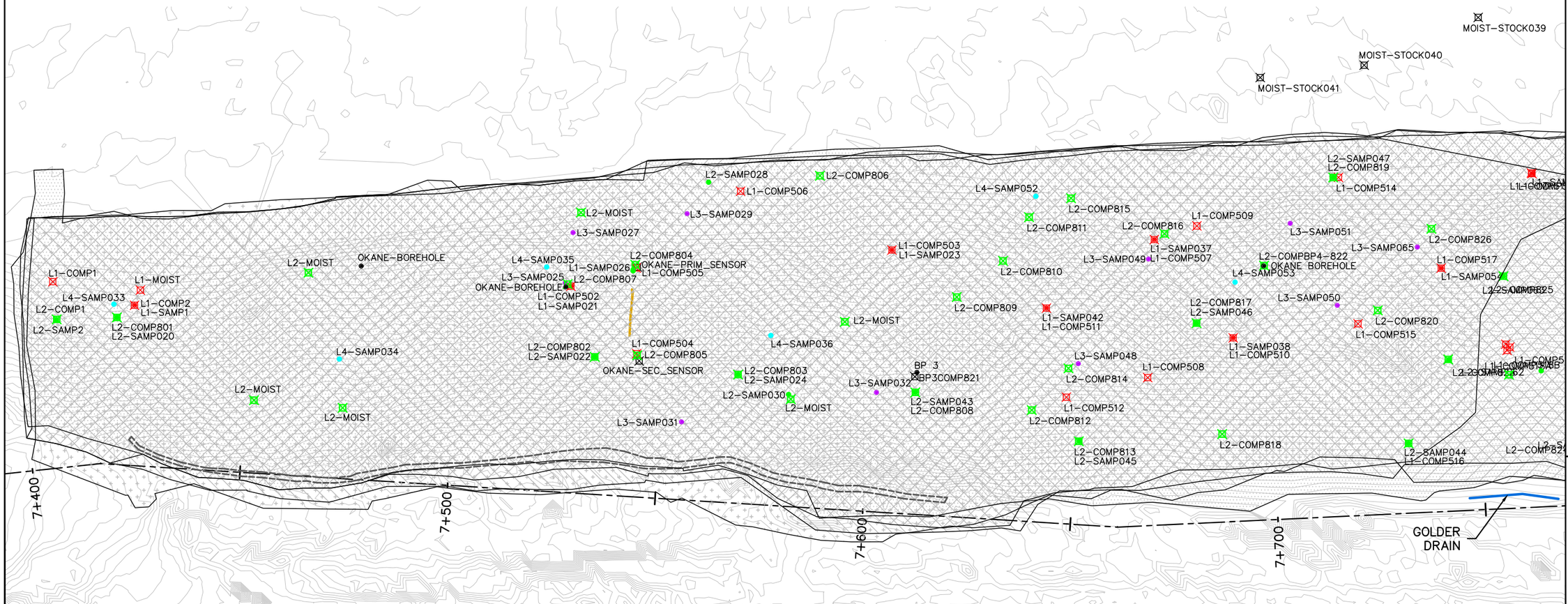
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 14, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 14, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 14, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 14, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 14, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 14, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
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PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 15, 2020
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D-1	19-1138	113

EMRS RECLAMATION

KEY TRENCH EXCAVATION
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PLACED TO DATE = 9,379m³

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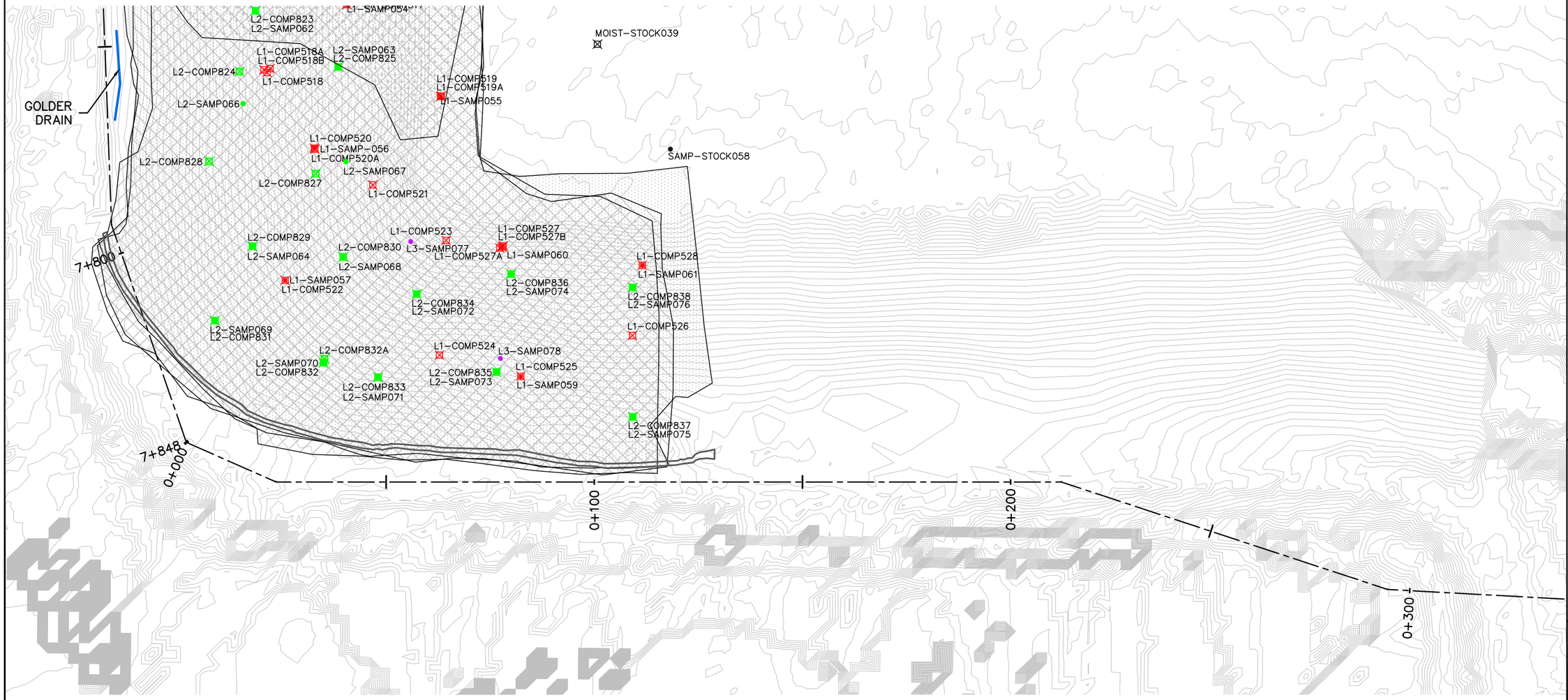
PLACED OCTOBER 14, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 14, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 14, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
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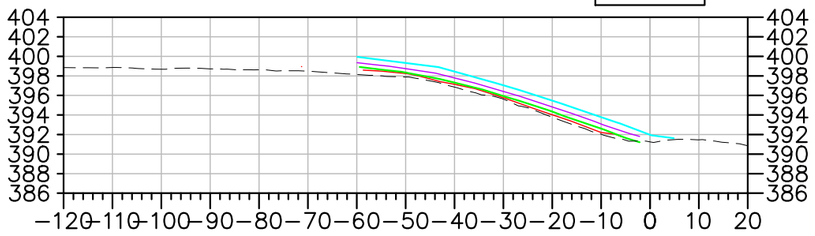
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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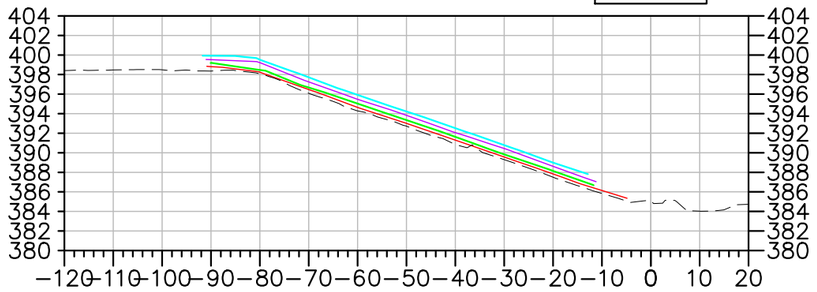

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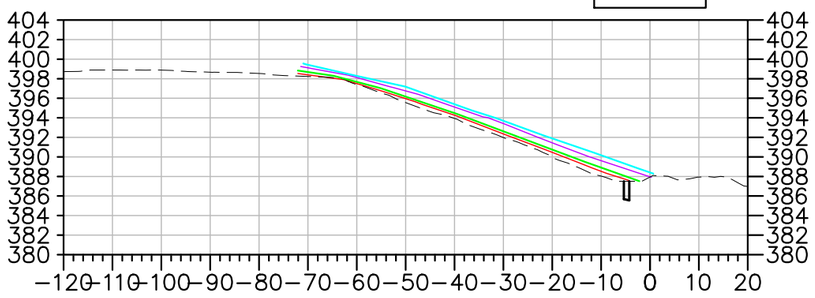

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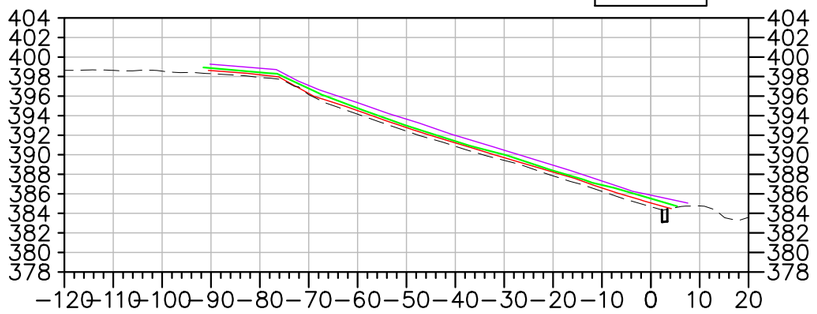

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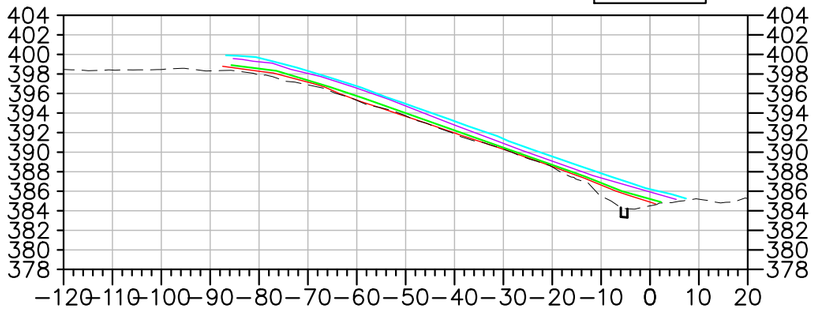

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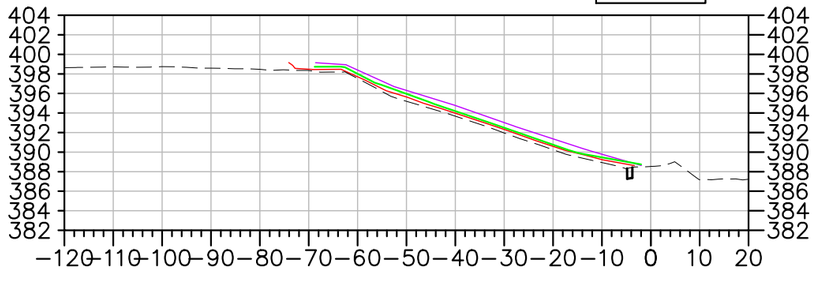

EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 14, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
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Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 15, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

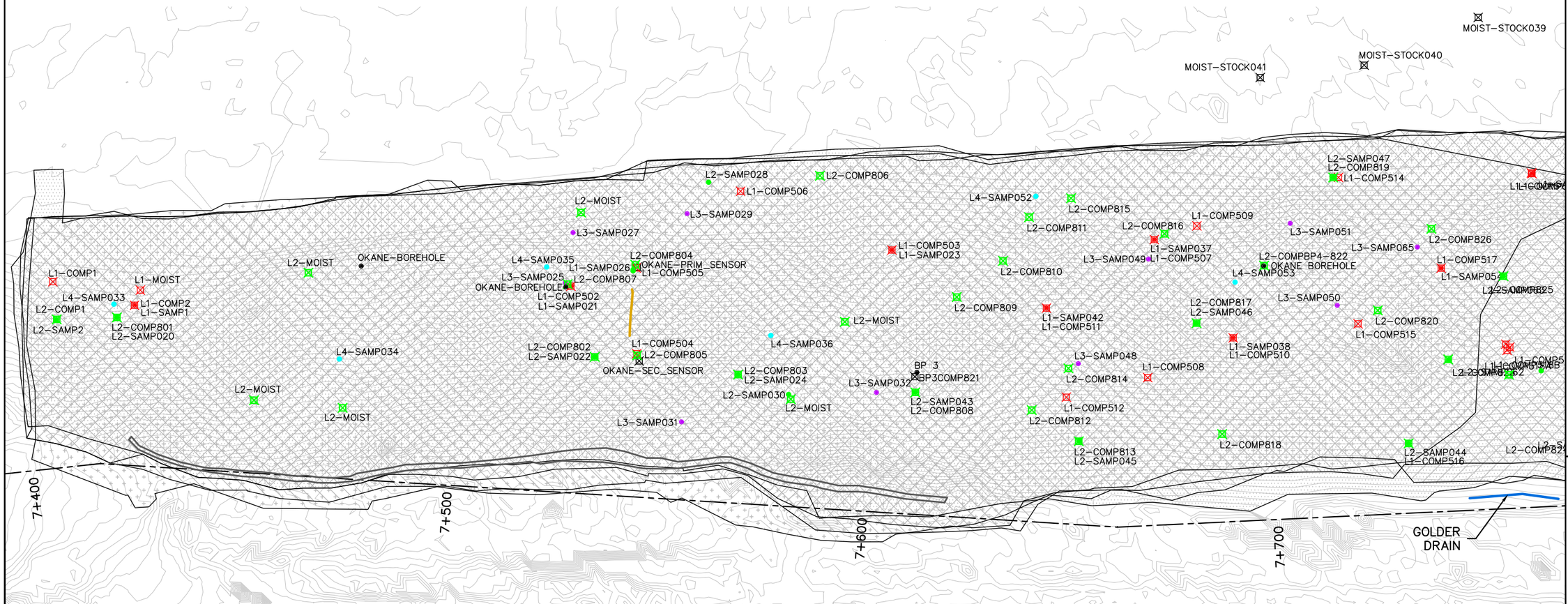
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 15, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 15, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 15, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 15, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 15, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 15, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
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Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 16, 2020
DRAWN	DAS
CHECKED	JT
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DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 15, 2020 = 0m³
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CCL LIFT 1
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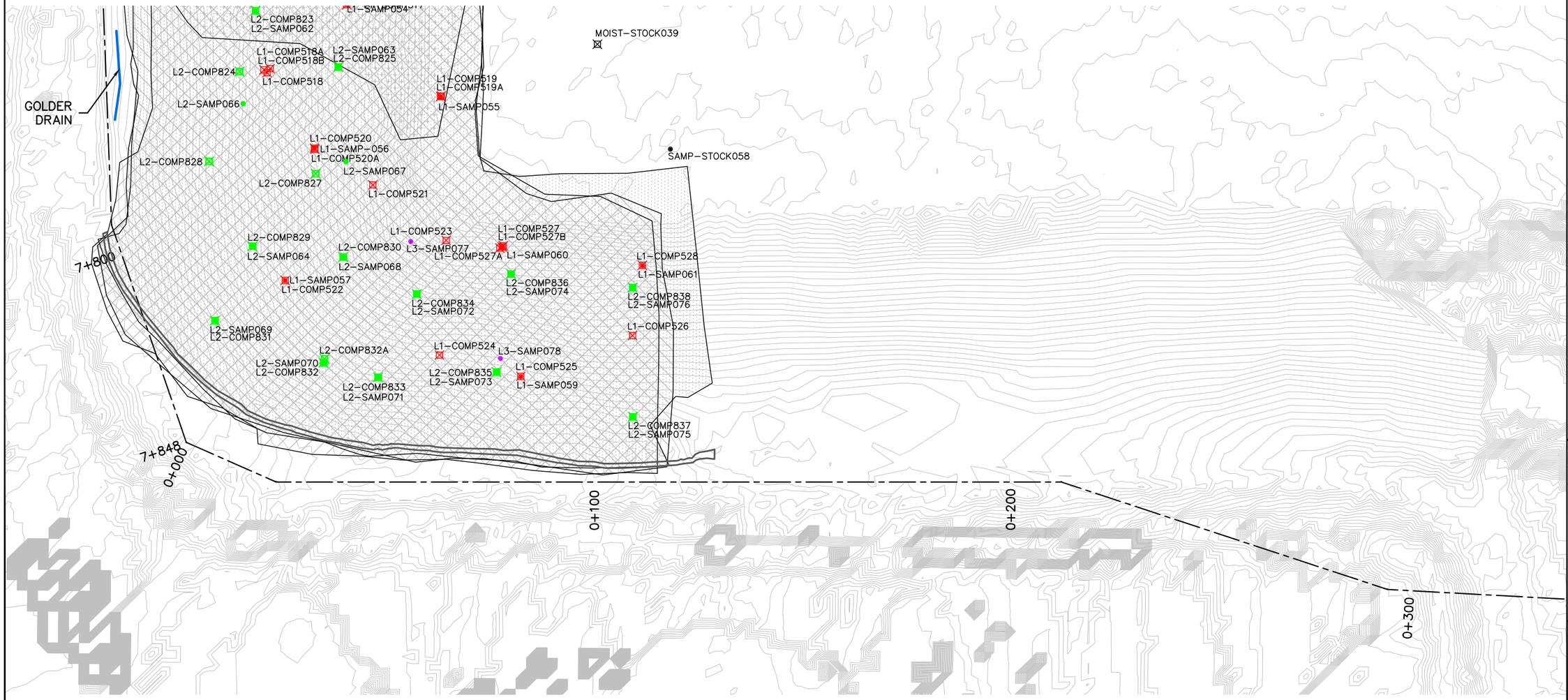
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 15, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 15, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
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Horizontal Datum:
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PROJECT TITLE
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RAINY RIVER
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PURPOSE
DAILY PROGRESS

DATE	OCTOBER 16, 2020
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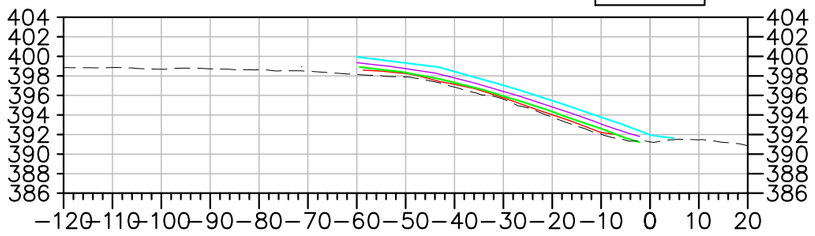
DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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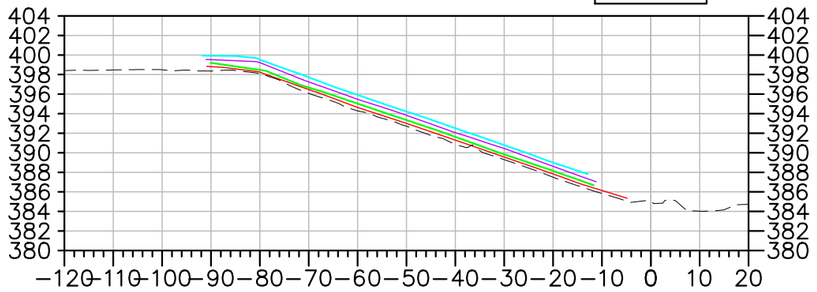

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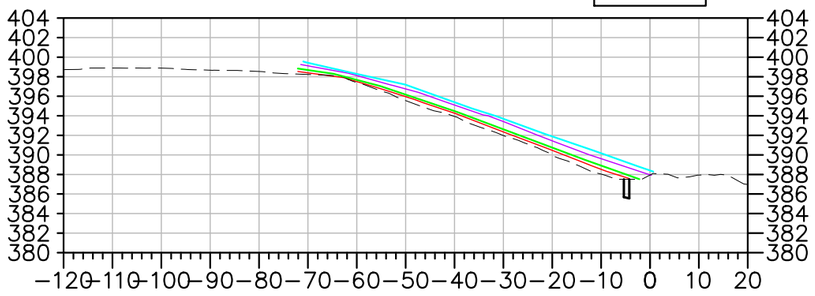

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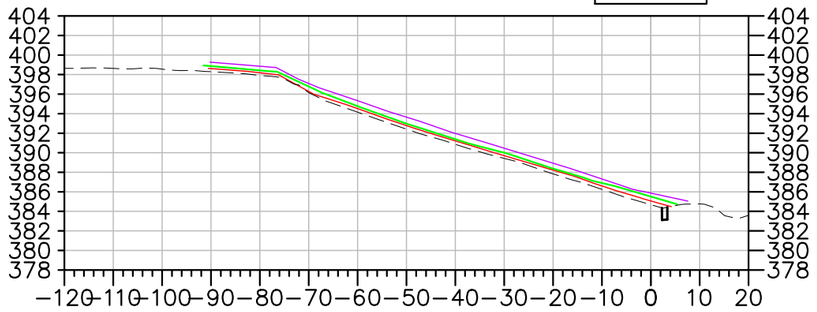

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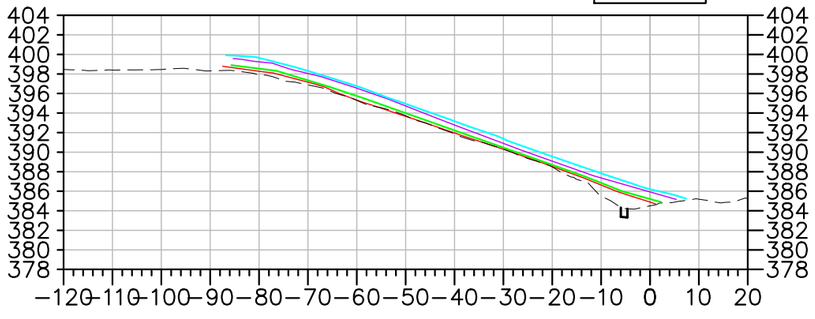

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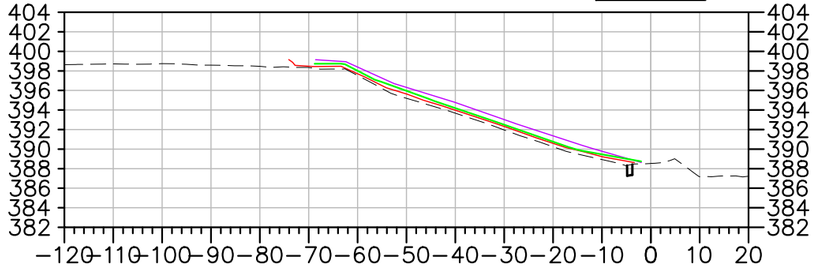

EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 15, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
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PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 16, 2020
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DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

KEY TRENCH EXCAVATION
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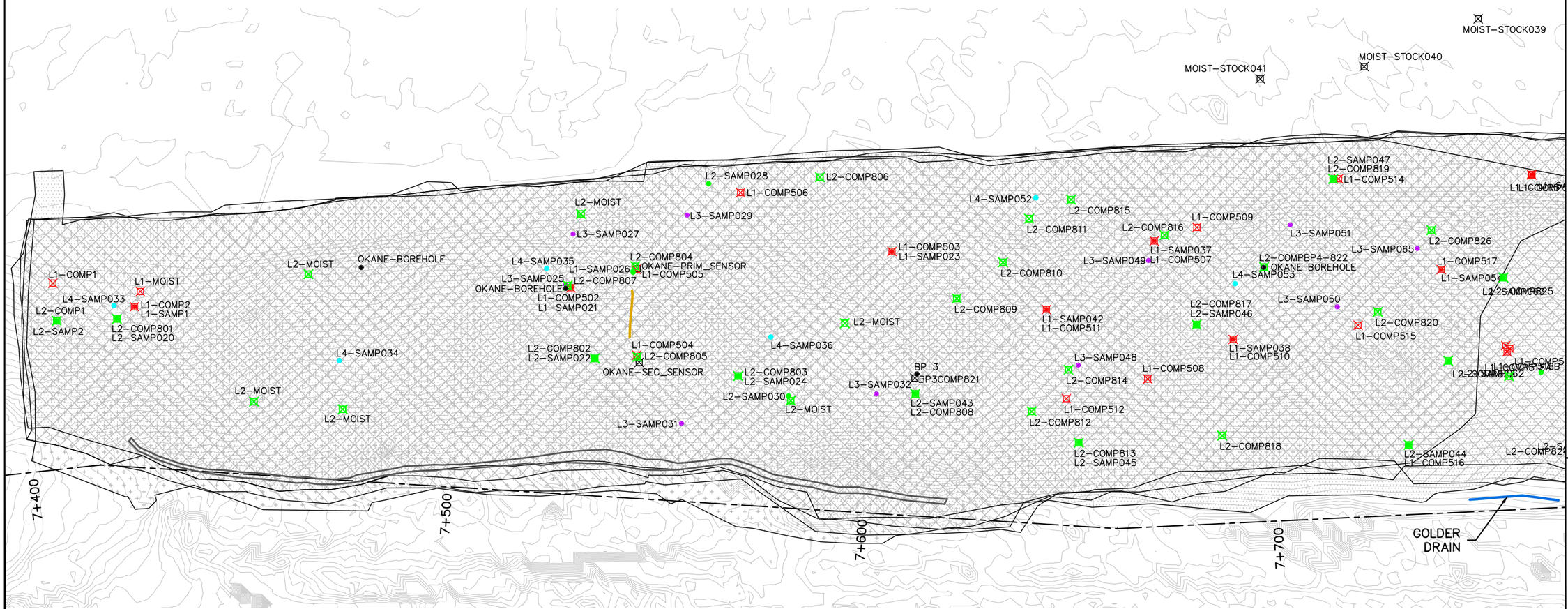
PLACED OCTOBER 16, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 16, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 16, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

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- KEY TRENCH
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PLACED OCTOBER 16, 2020 = 0m³
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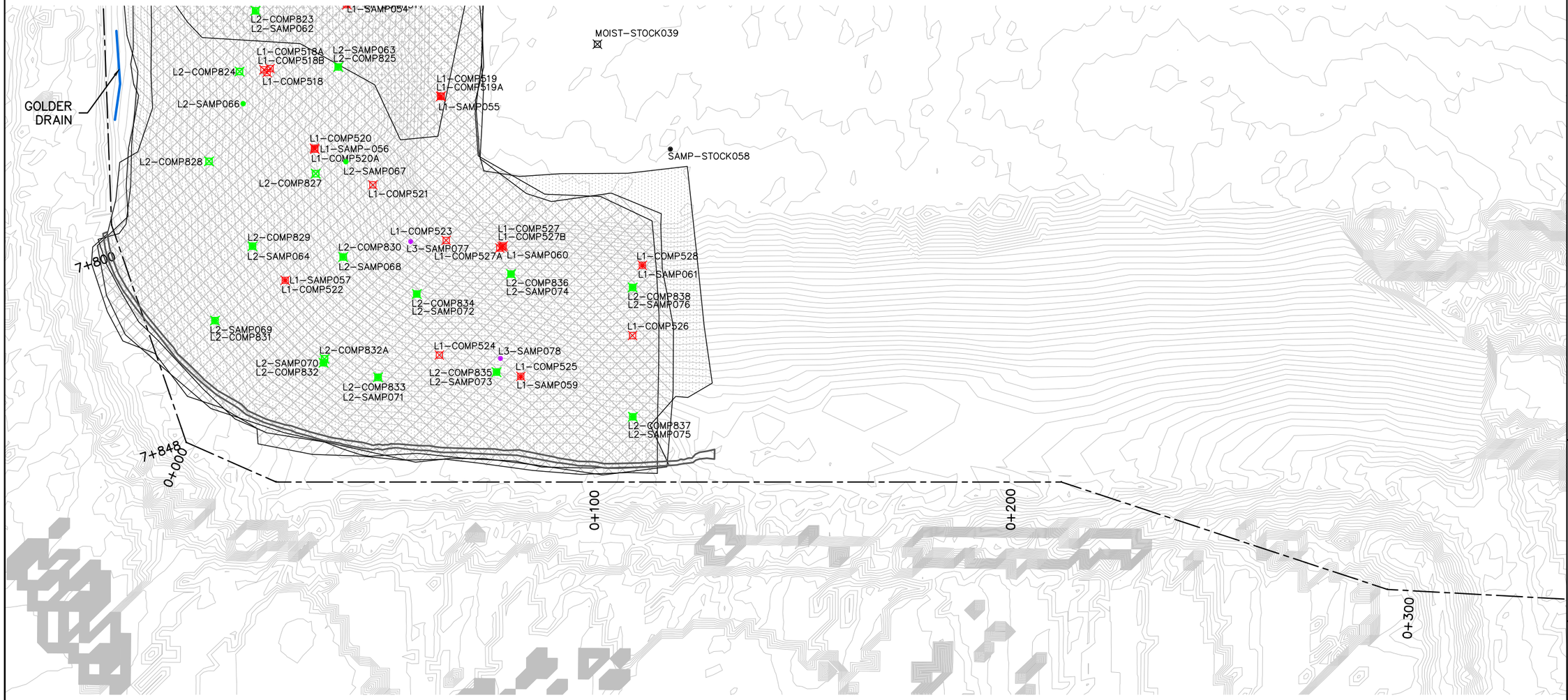
PLACED OCTOBER 16, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 16, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 16, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

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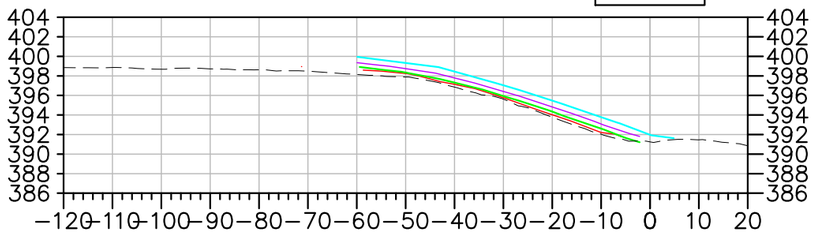
D-2	19-1138	113

7+415.00



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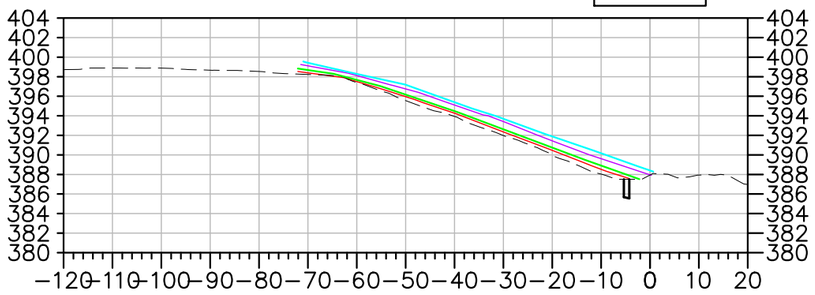

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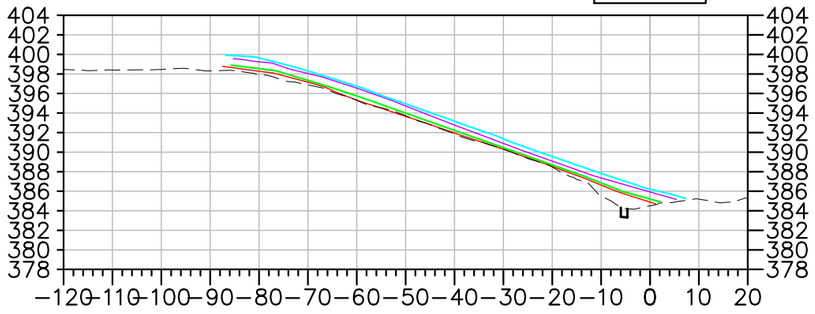

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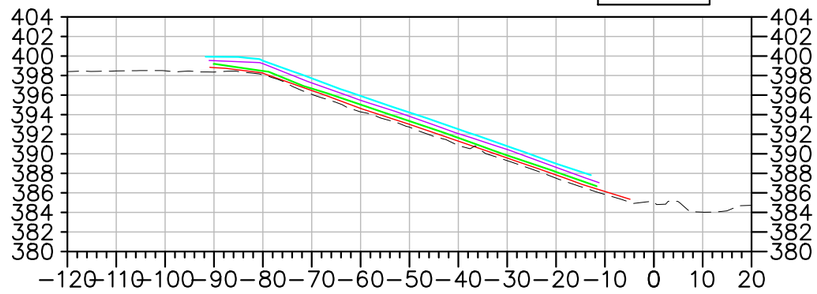

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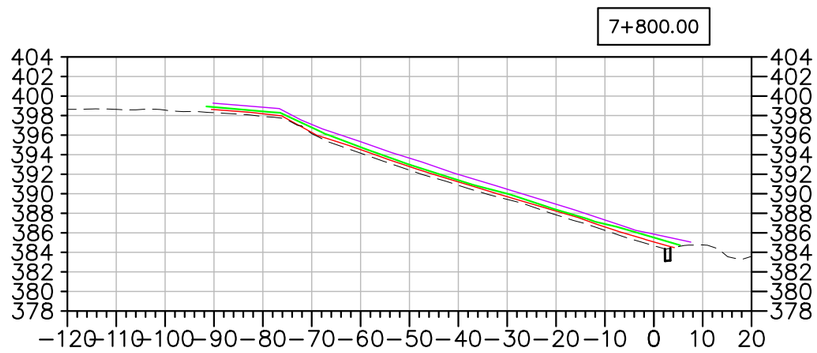

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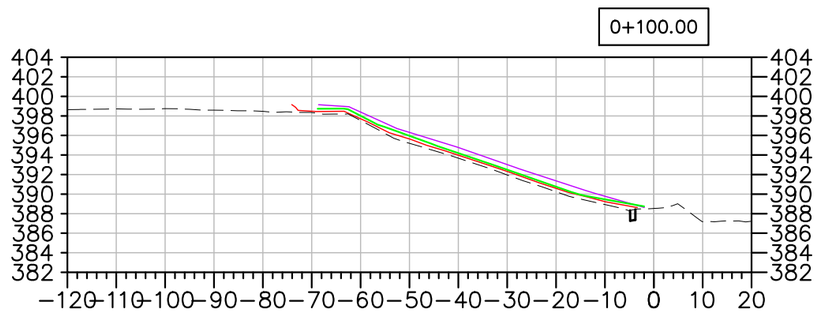


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 16, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 17, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

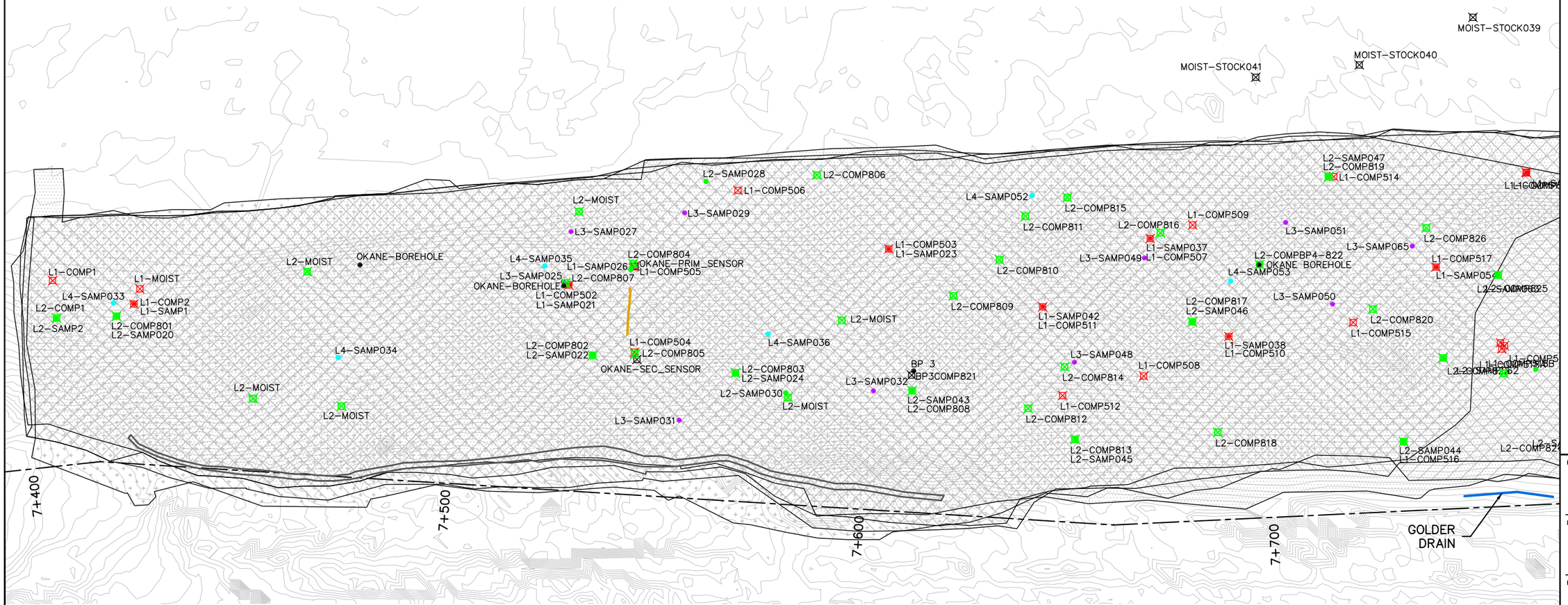
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 17, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 17, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 17, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 17, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 17, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 17, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 18, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

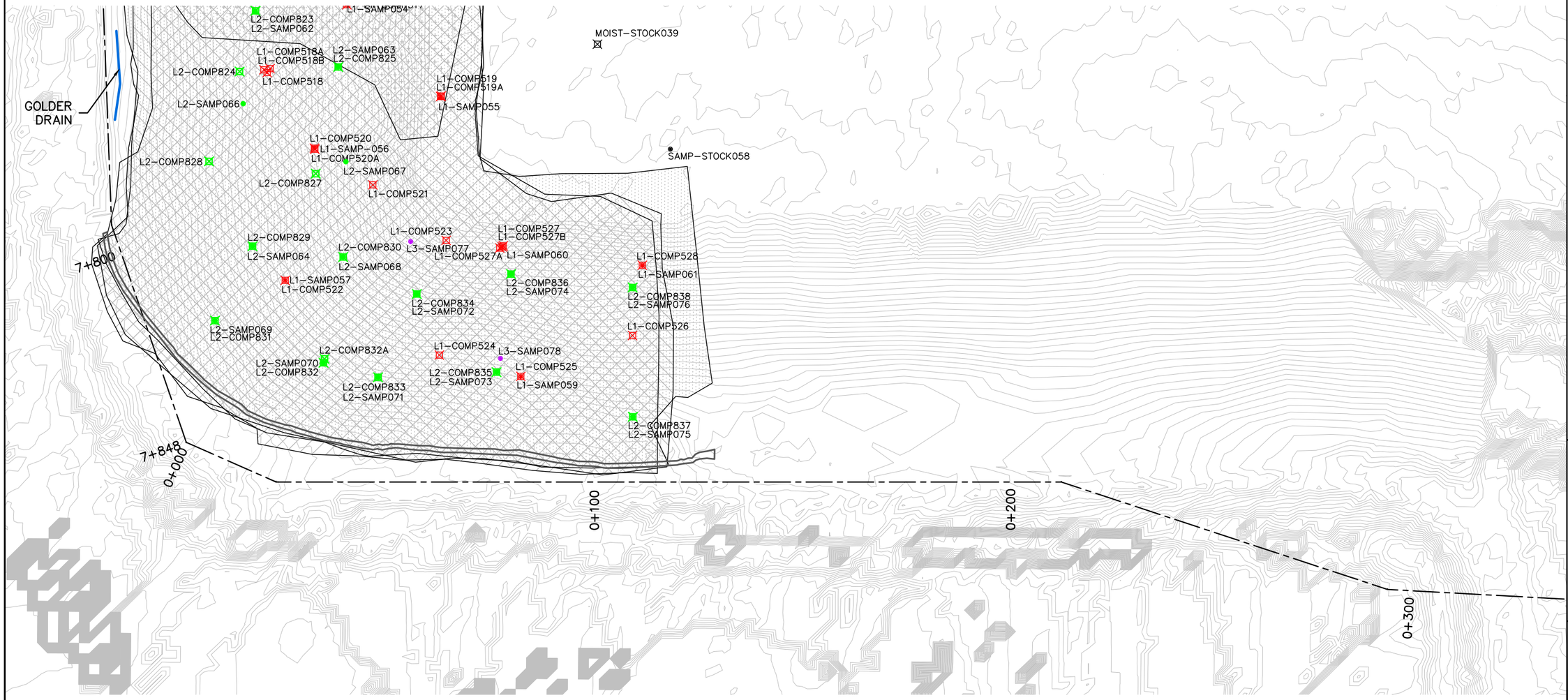
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 17, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 17, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 17, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 17, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 17, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 17, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

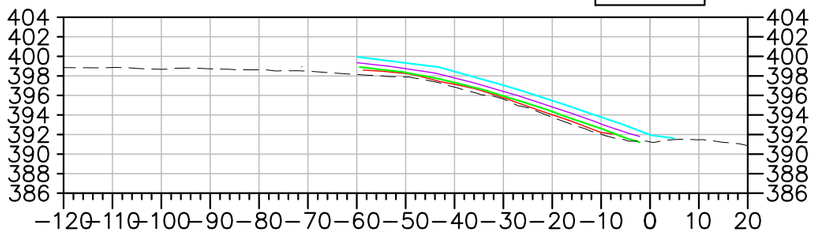
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 18, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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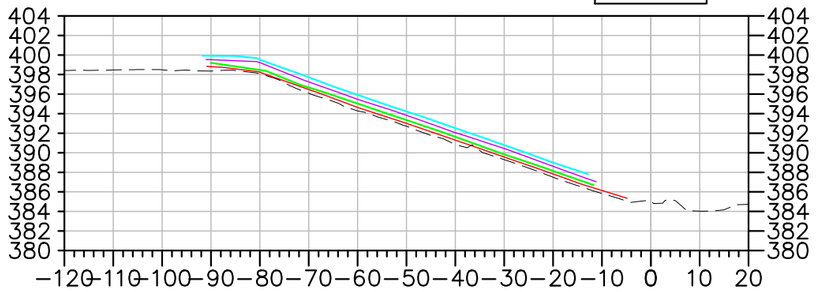

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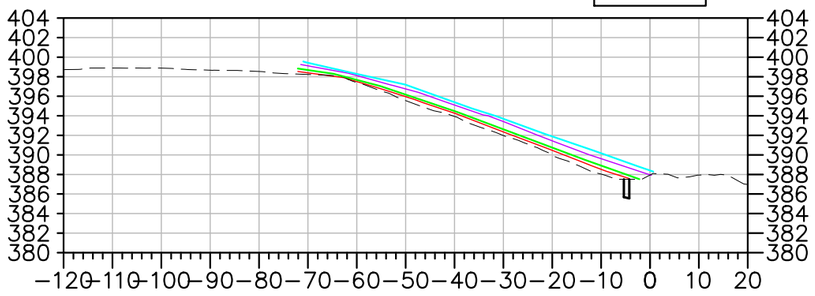

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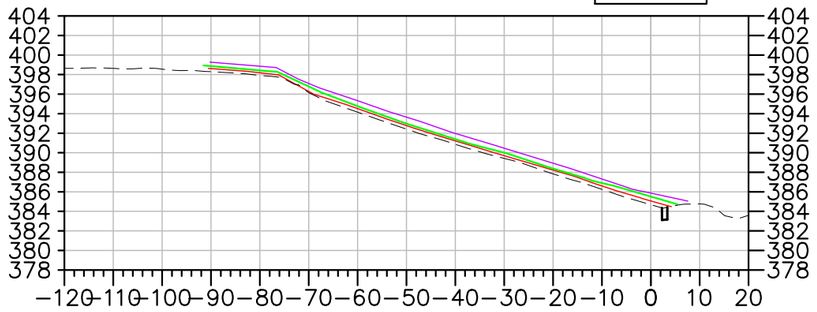

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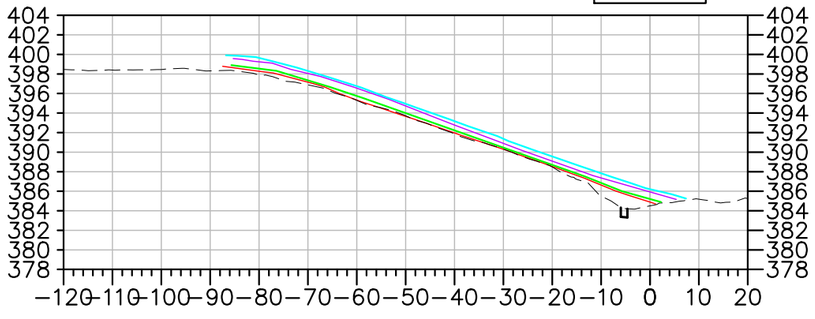

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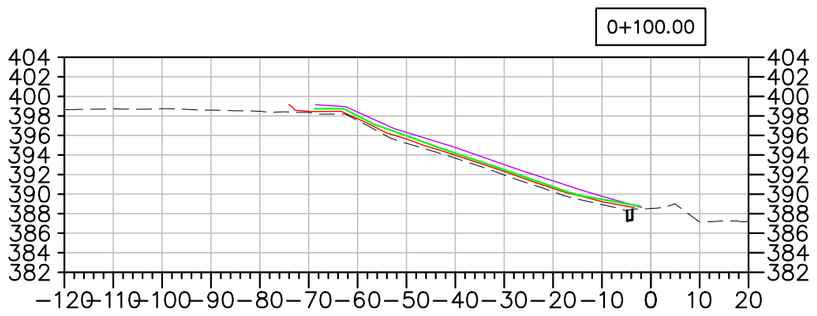


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 17, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 18, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

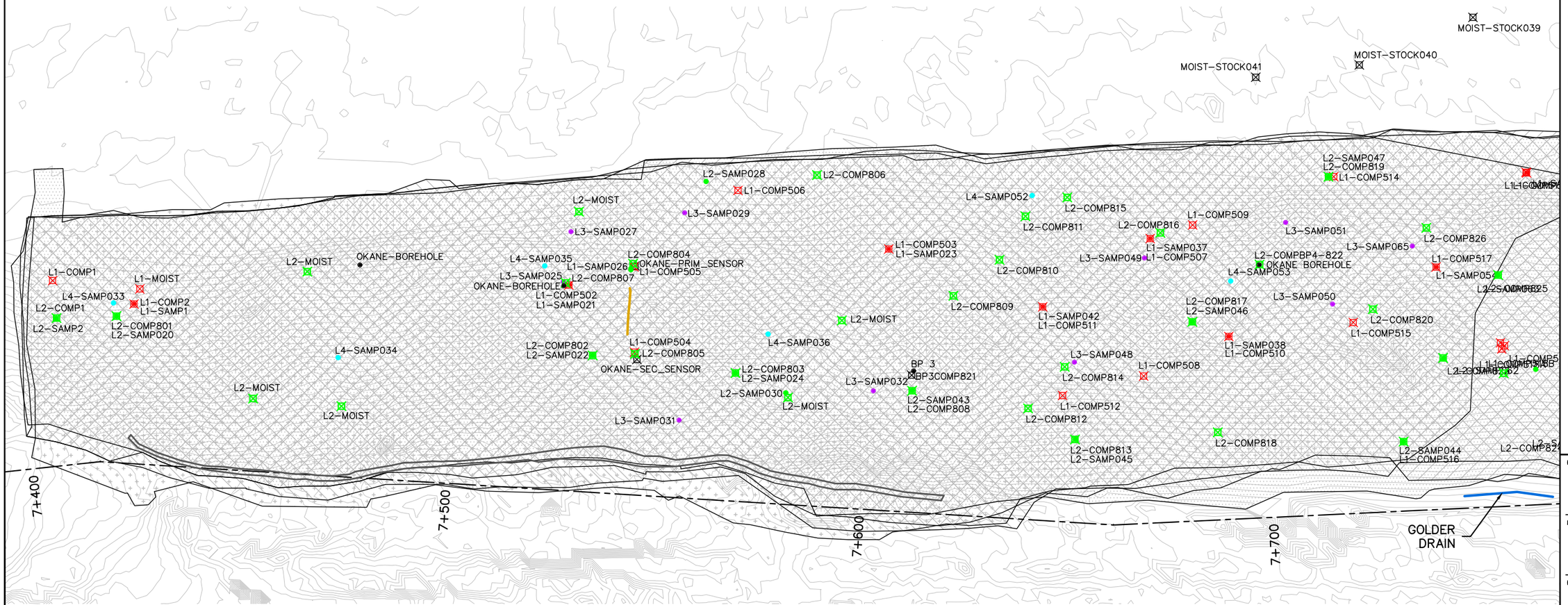
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 18, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 18, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 18, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 18, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 18, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 18, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 19, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

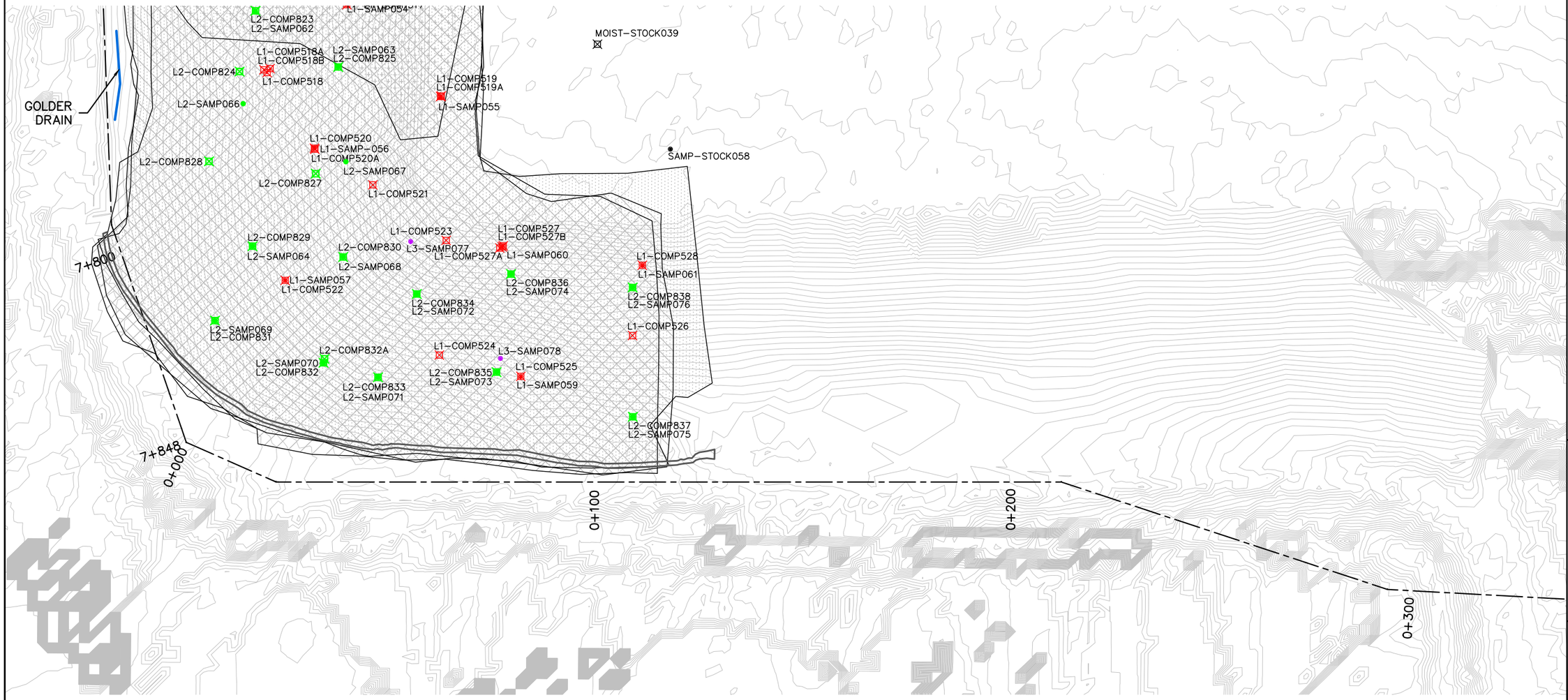
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 18, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 18, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 18, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 18, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 18, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 18, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

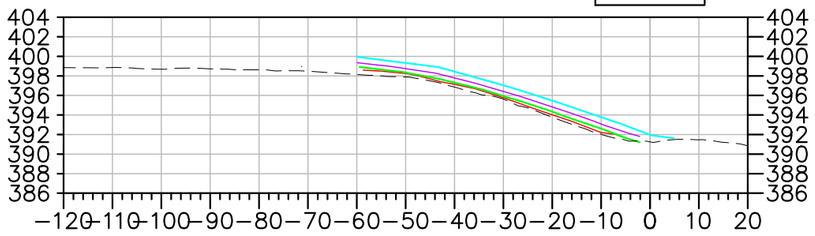
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 19, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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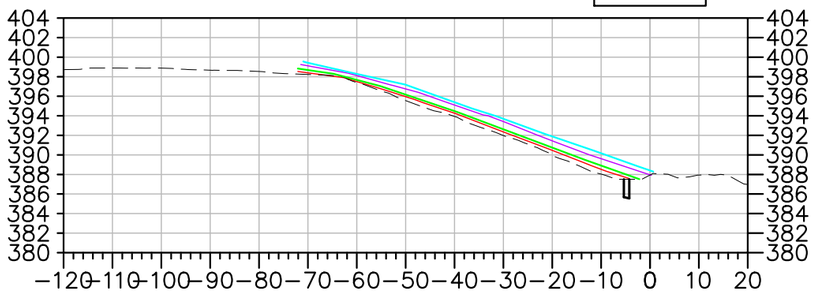

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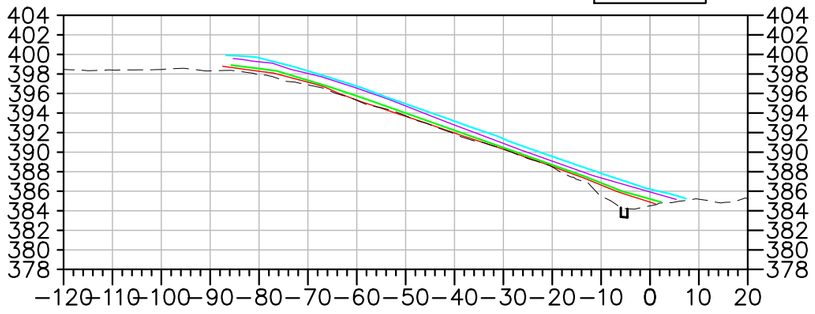

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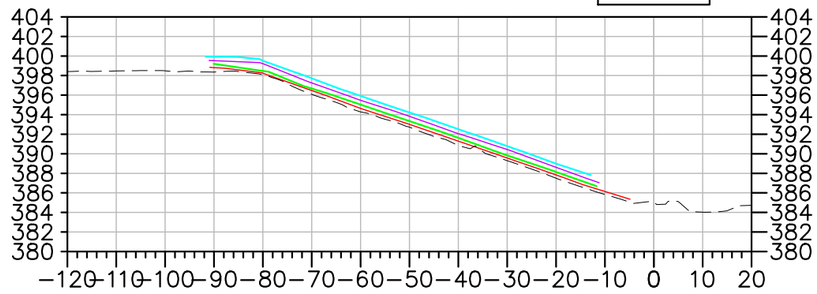

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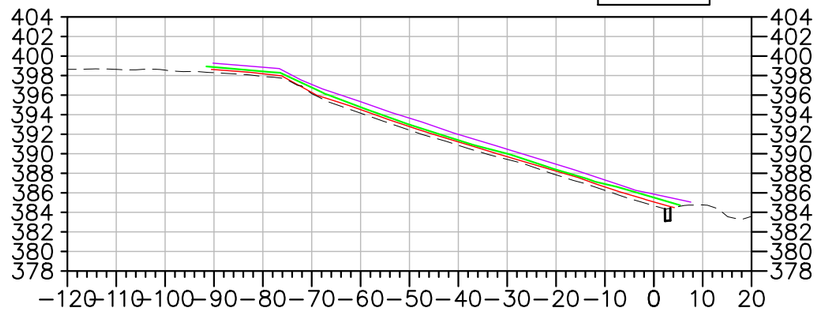

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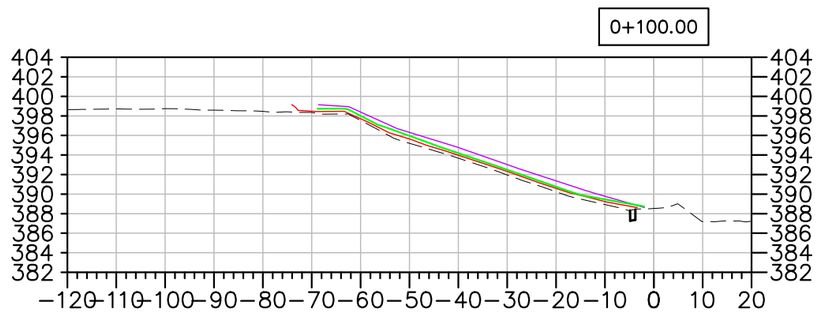


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 18, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 19, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

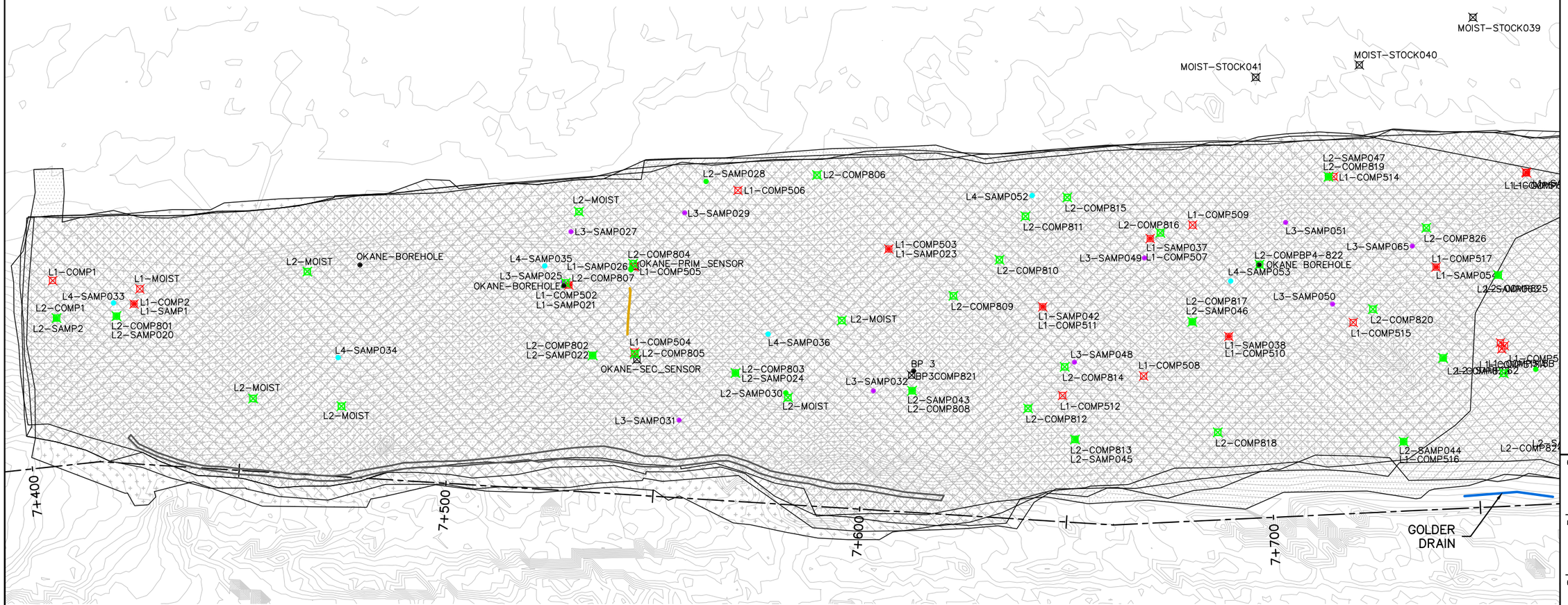
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 19, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 19, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 19, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 19, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 19, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 19, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 20, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

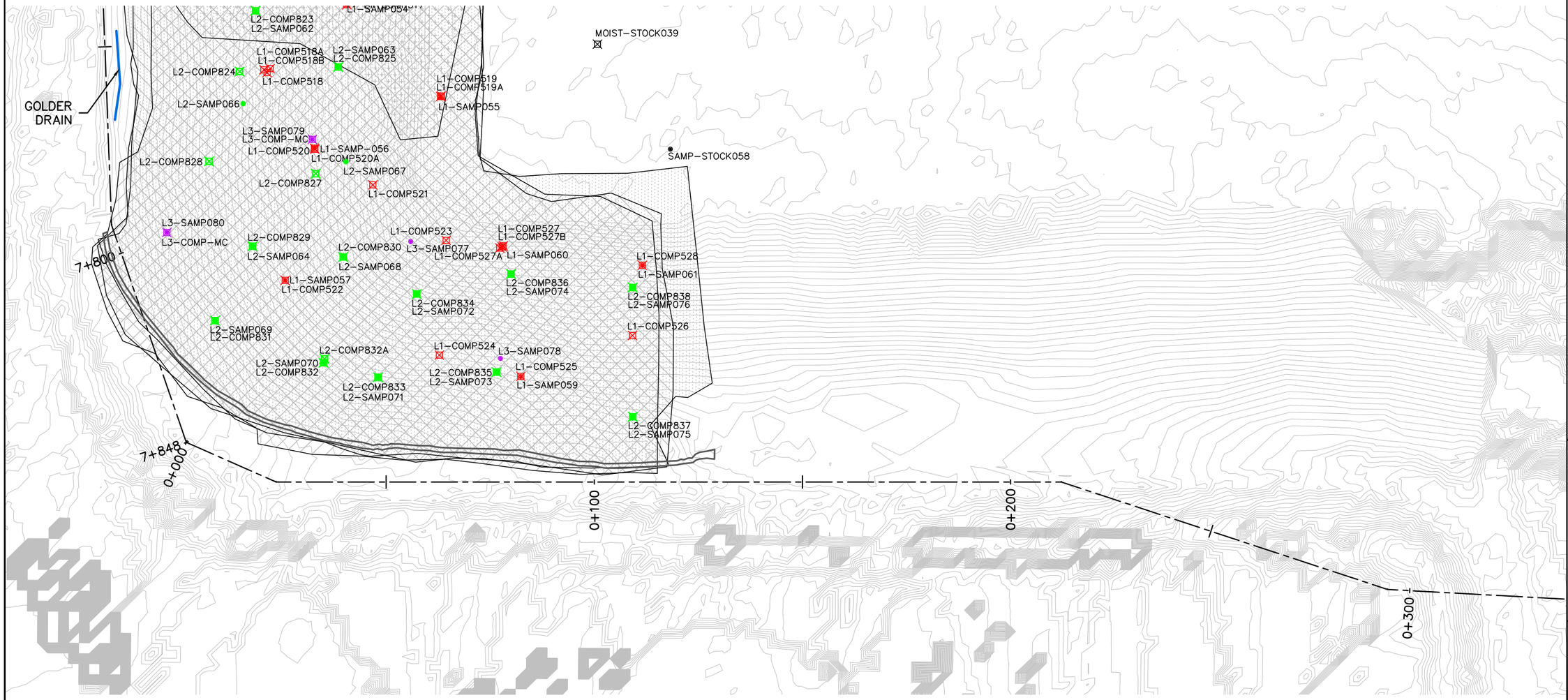
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 19, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 19, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 19, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 19, 2020 = 0m³
PLACED TO DATE = 20,026m³

NCL LIFT 4
PLACED OCTOBER 19, 2020 = 0m³
PLACED TO DATE = 12,493m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 19, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

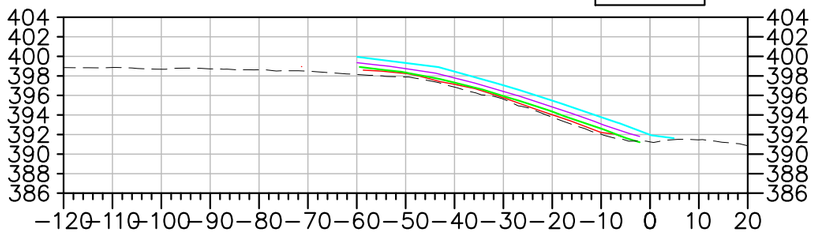
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 20, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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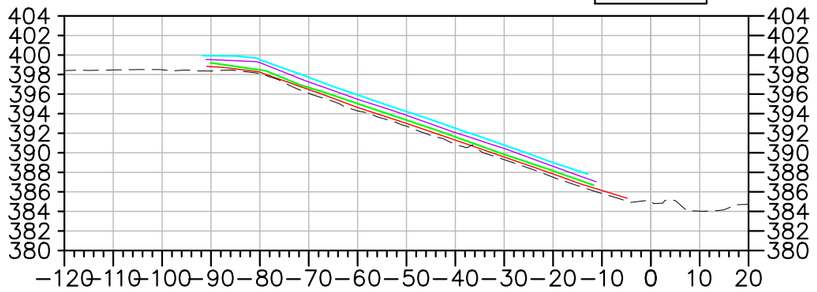

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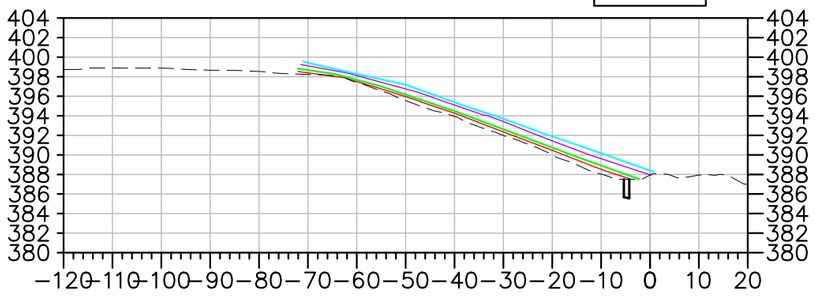

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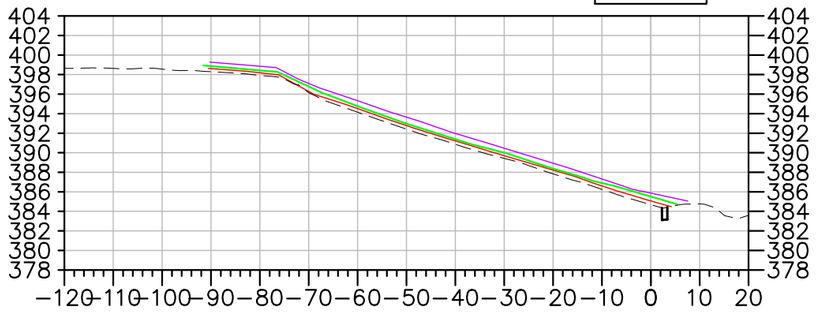

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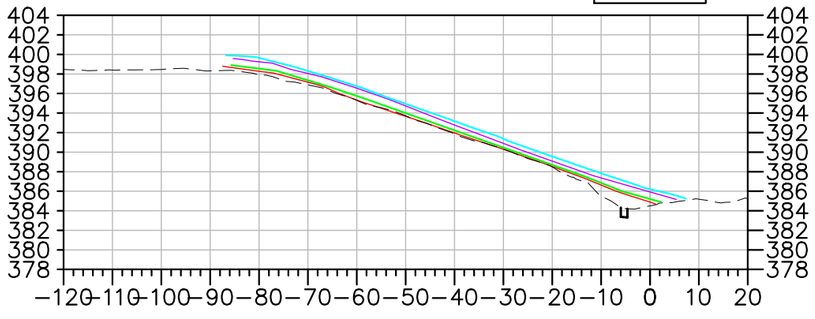

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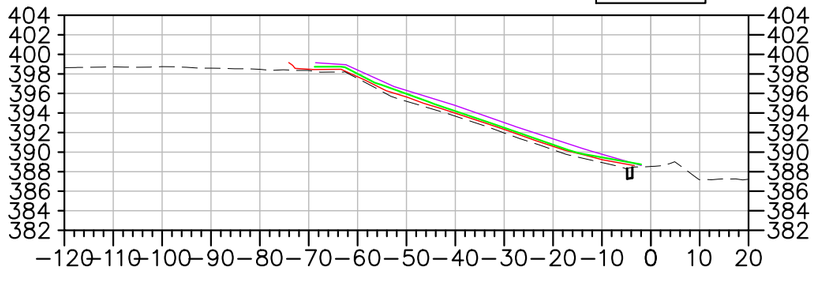


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 19, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 20, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

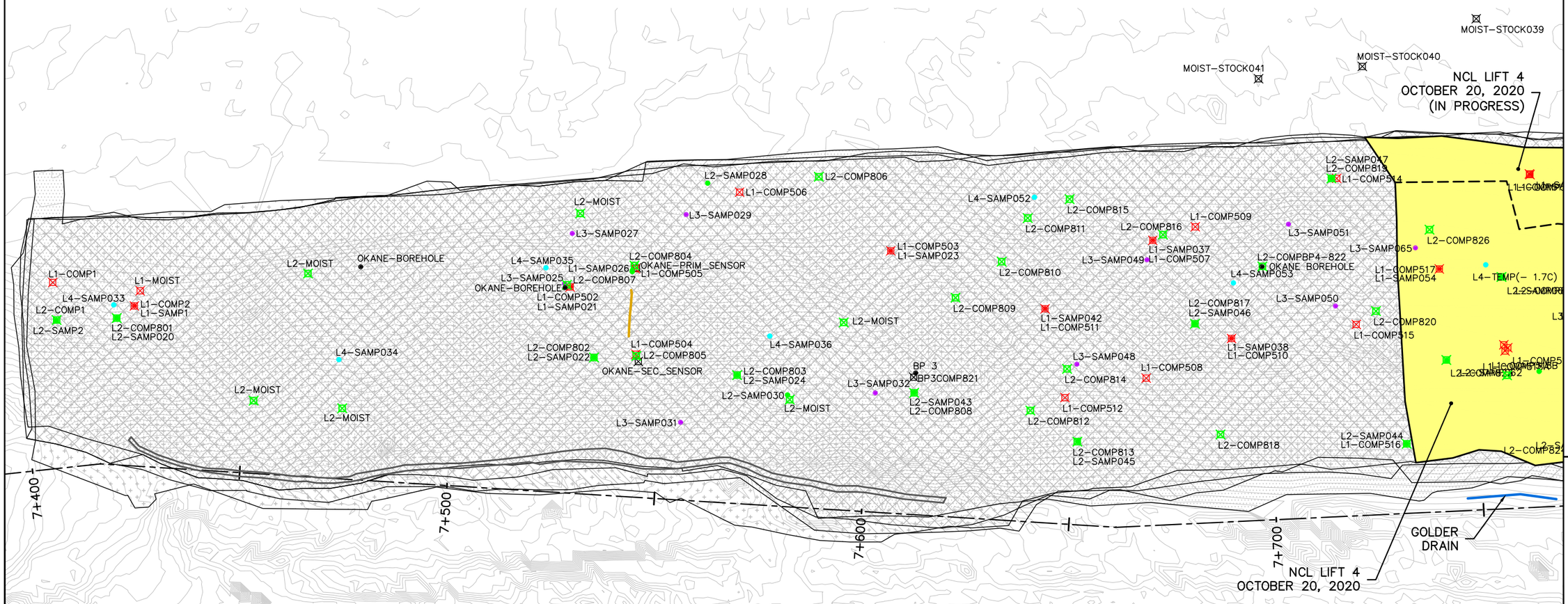
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 20, 2020 = 0m^3
EXCAVATED TO DATE = 471m^3

CCL LIFT 1
PLACED OCTOBER 20, 2020 = 0m^3
PLACED TO DATE = 11,375m^3

CCL LIFT 2
PLACED OCTOBER 20, 2020 = 0m^3
PLACED TO DATE = 9,379m^3

NCL LIFT 3
PLACED OCTOBER 20, 2020 = 0m^3
PLACED TO DATE = 20,046m^3

NCL LIFT 4
PLACED OCTOBER 20, 2020 = 1,546m^3
PLACED TO DATE = 14,039m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 20, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 21, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

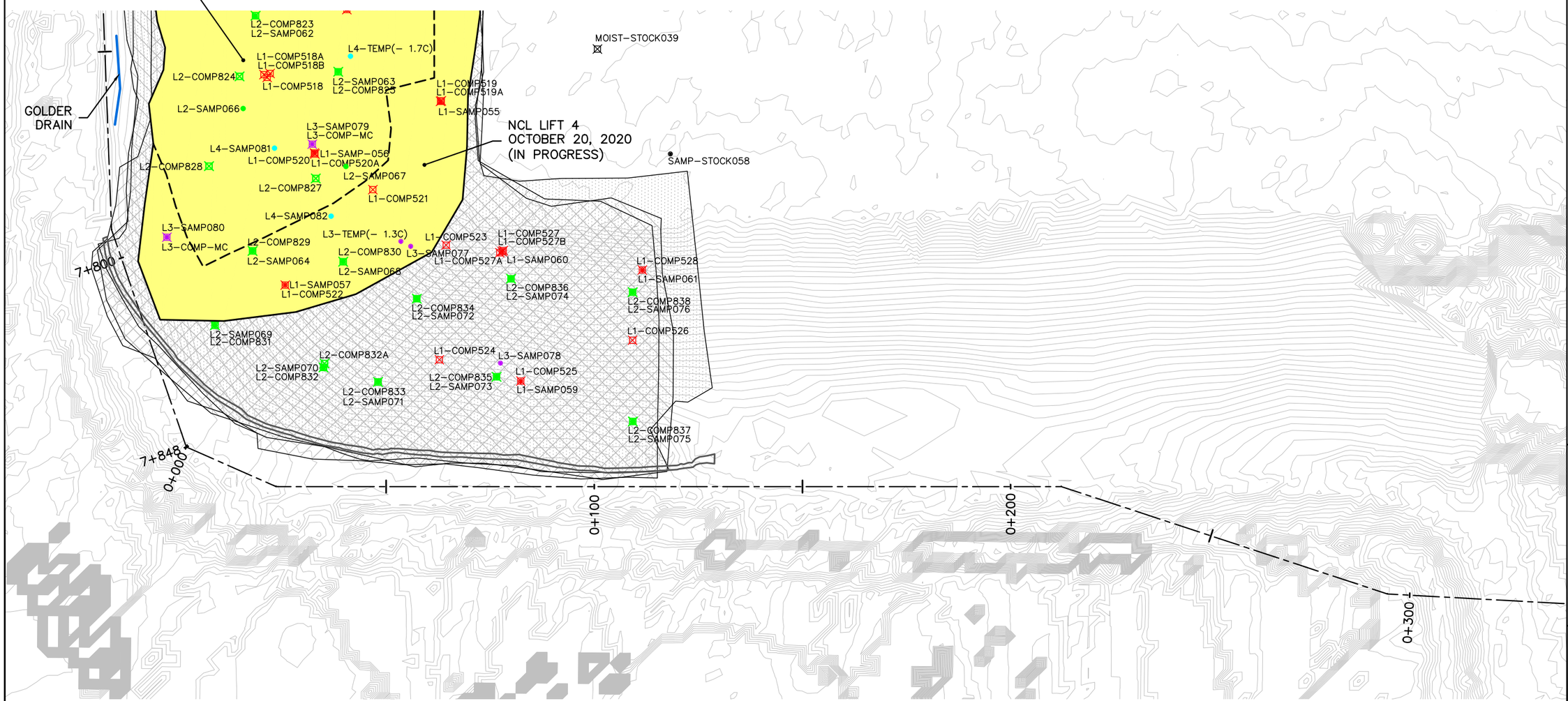
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 20, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 20, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 20, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 20, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 20, 2020 = 1,546m³
PLACED TO DATE = 14,039m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 20, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

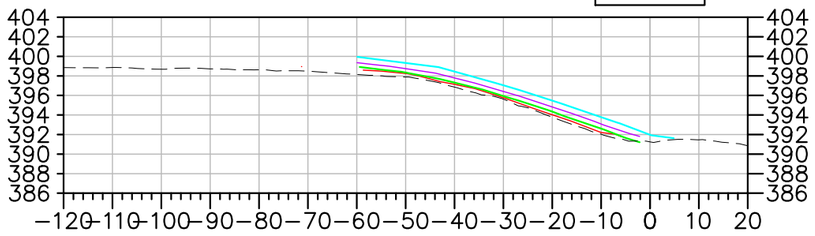
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 21, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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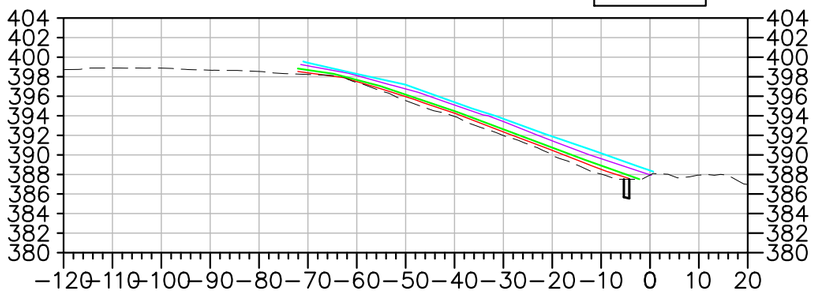

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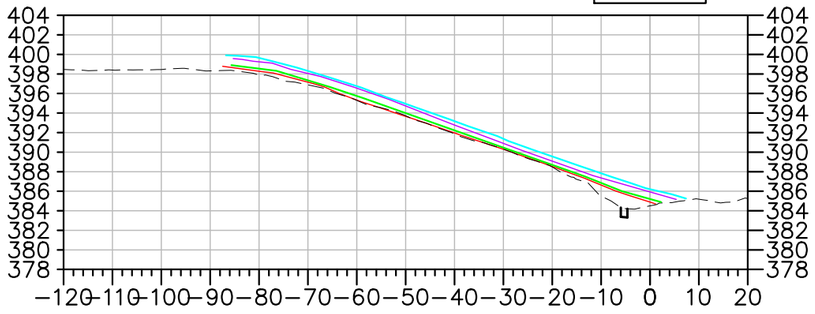

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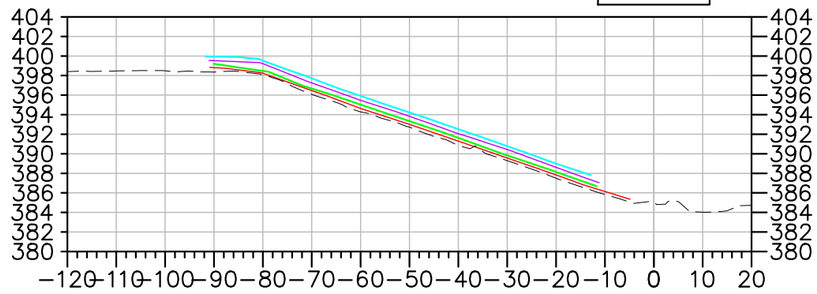

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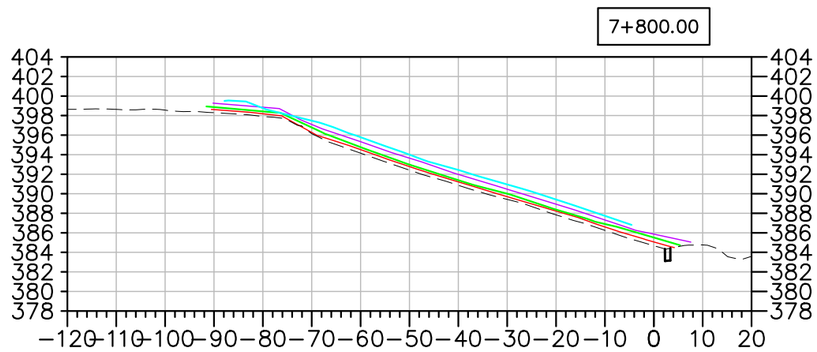

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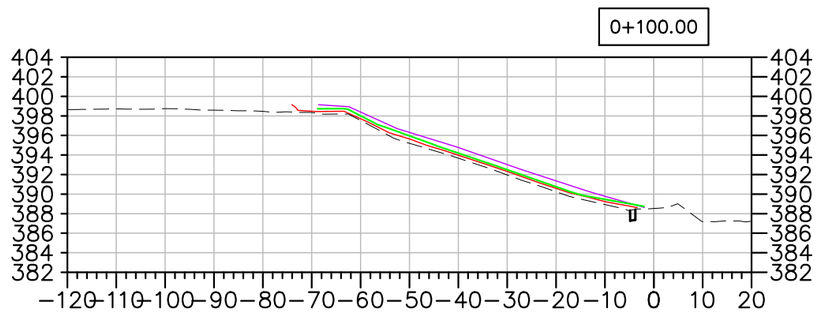


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 20, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 21, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X–1	19–1138	113

EMRS RECLAMATION

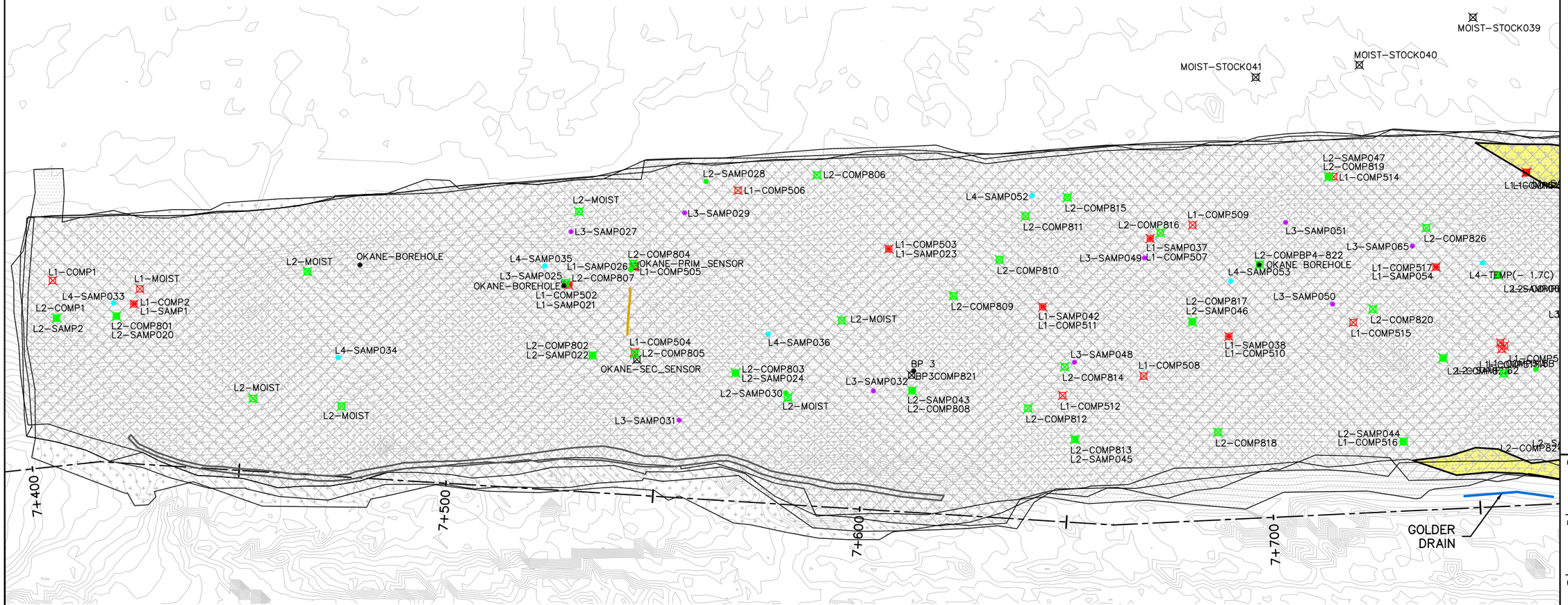
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 21, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 21, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 21, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 21, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 21, 2020 = 1,245m³
PLACED TO DATE = 15,284m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 21, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 22, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

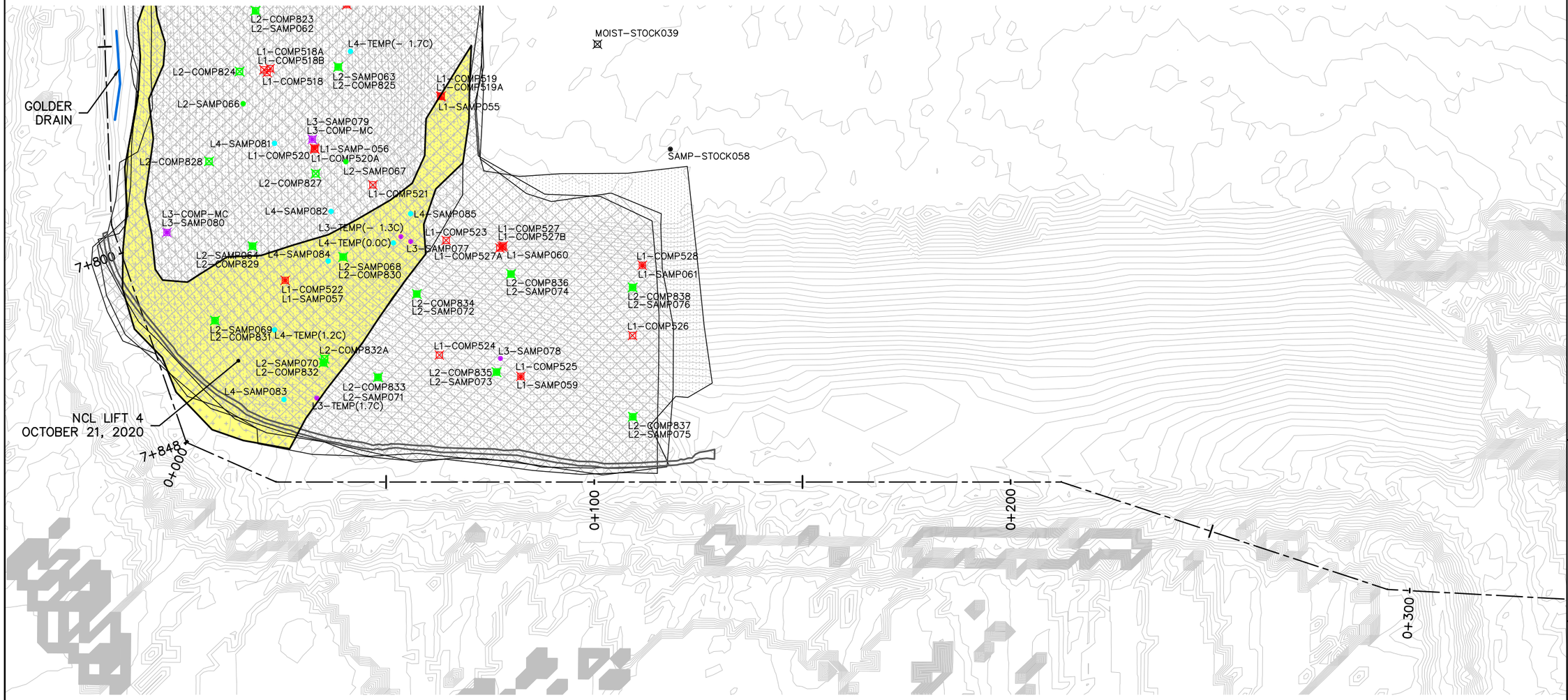
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 21, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 21, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 21, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 21, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 21, 2020 = 1,245m³
PLACED TO DATE = 15,284m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 21, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

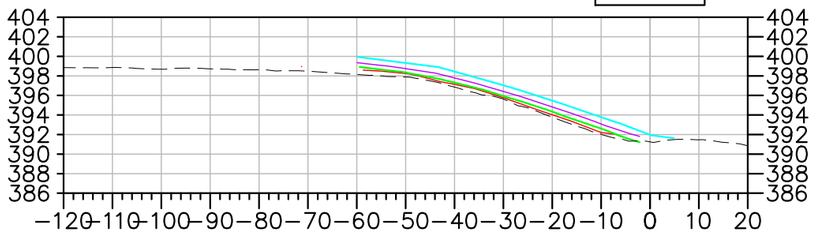
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 22, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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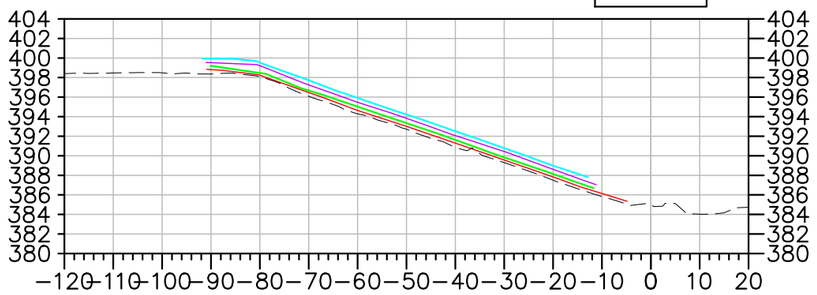

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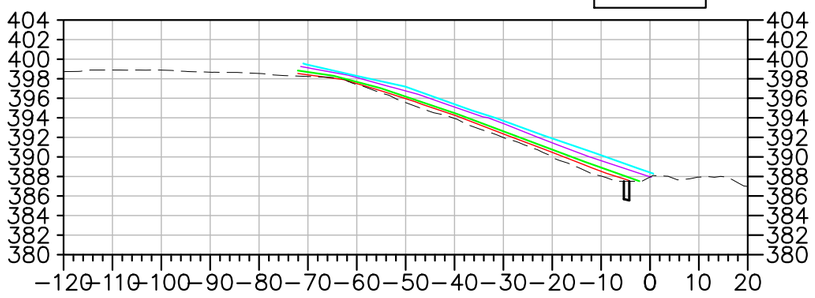

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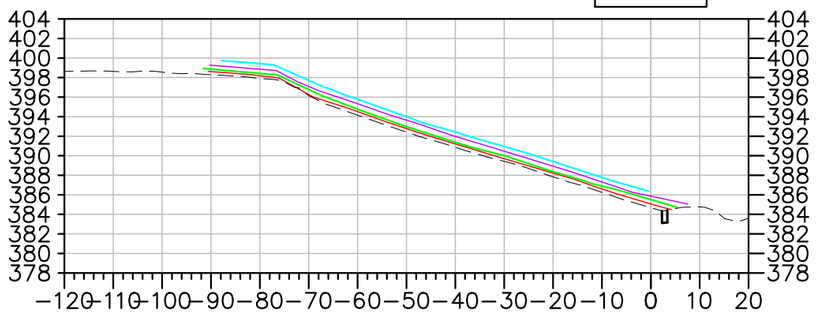

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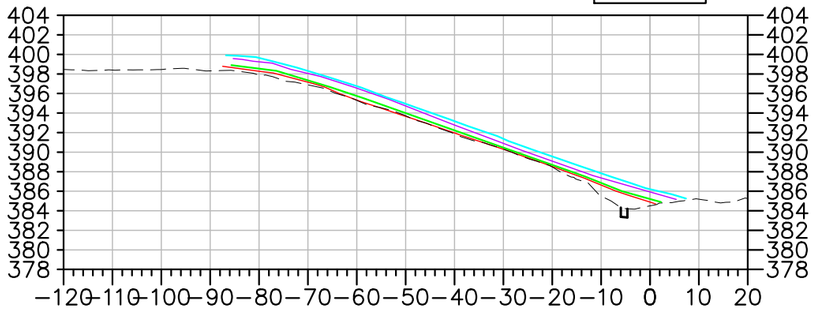

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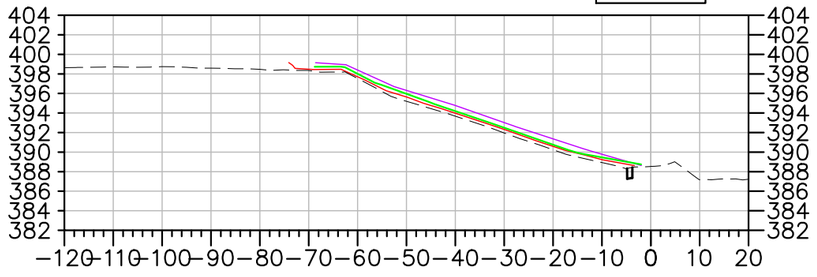


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 21, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 22, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

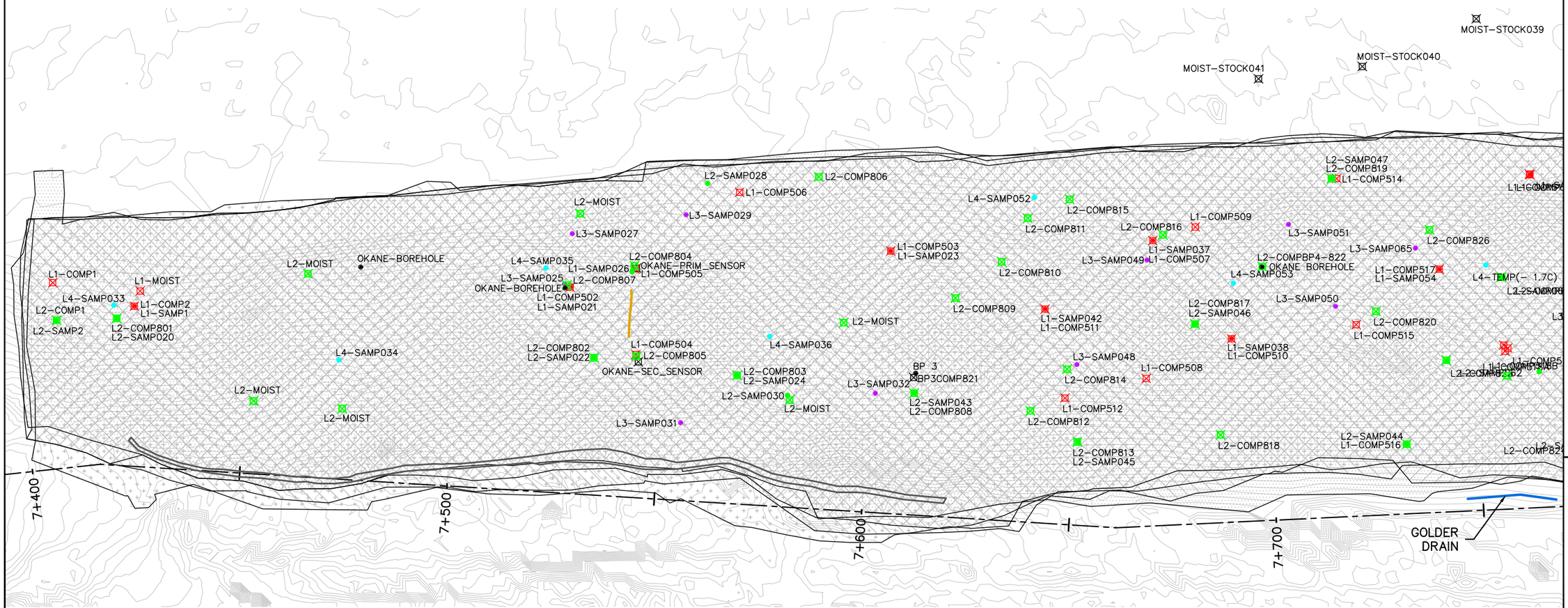
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 22, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 22, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 22, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 22, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 22, 2020 = 1,301m³
PLACED TO DATE = 16,585m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 22, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 23, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

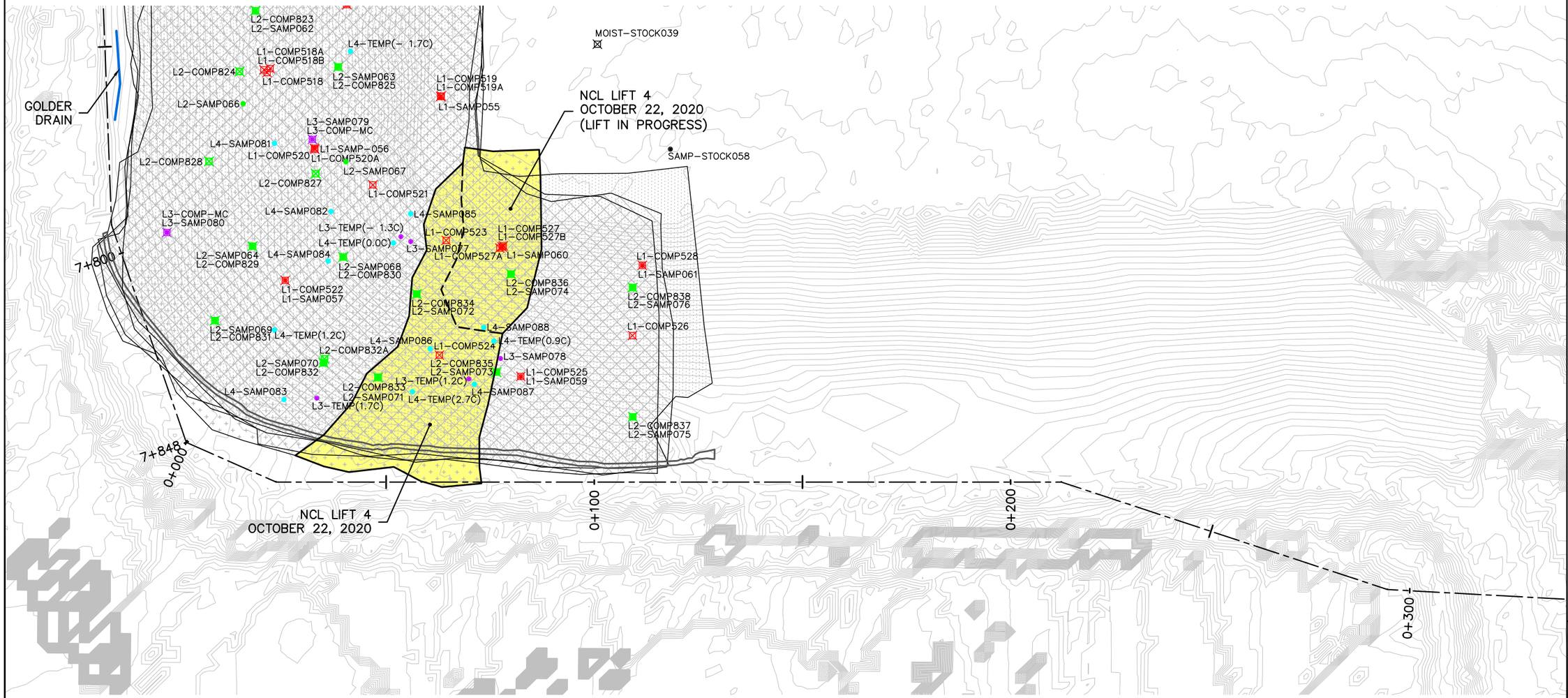
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 22, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 22, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 22, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 22, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 22, 2020 = 1,301m³
PLACED TO DATE = 16,585m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 22, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum: North American Datum 1983 (NAD83) 6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum: Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
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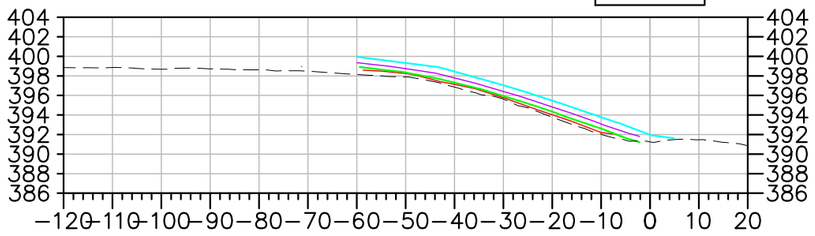
DATE	OCTOBER 23, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



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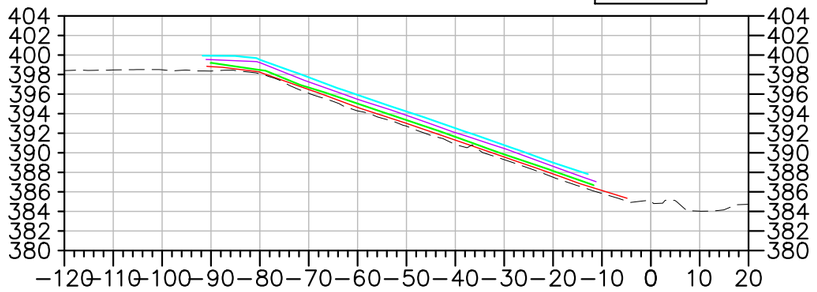

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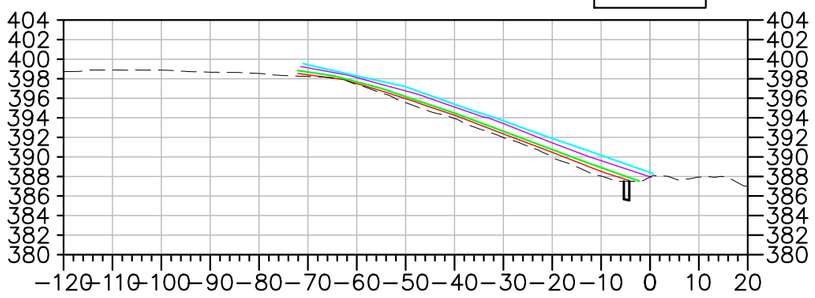

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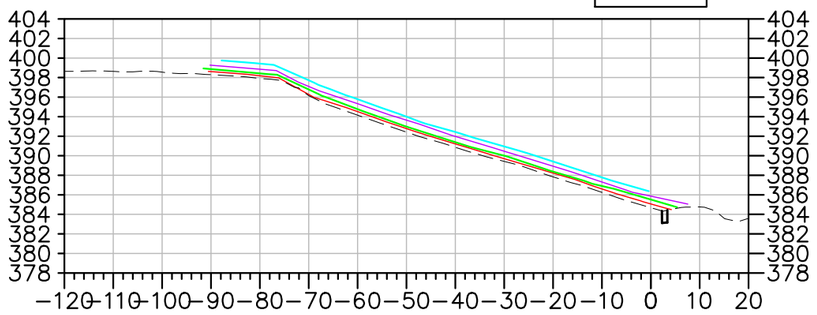

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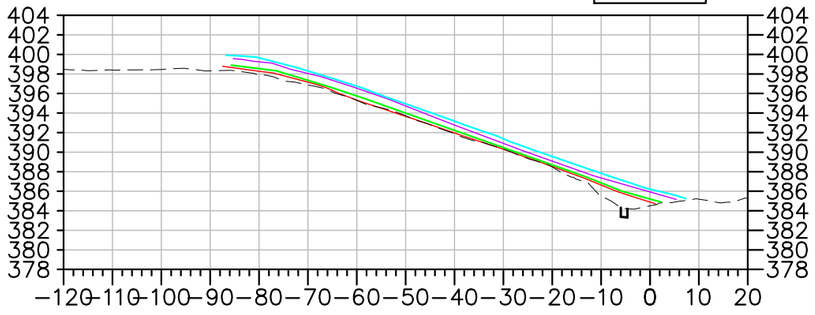

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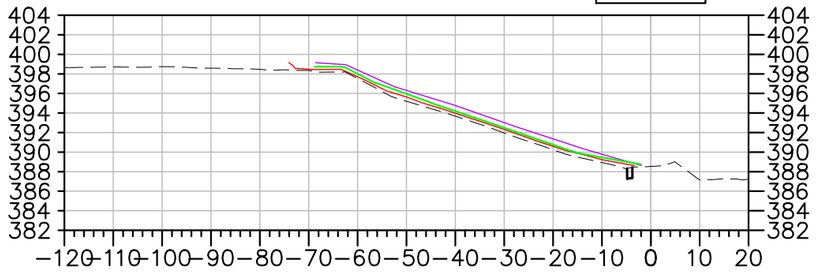


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 22, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 23, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

EMRS RECLAMATION

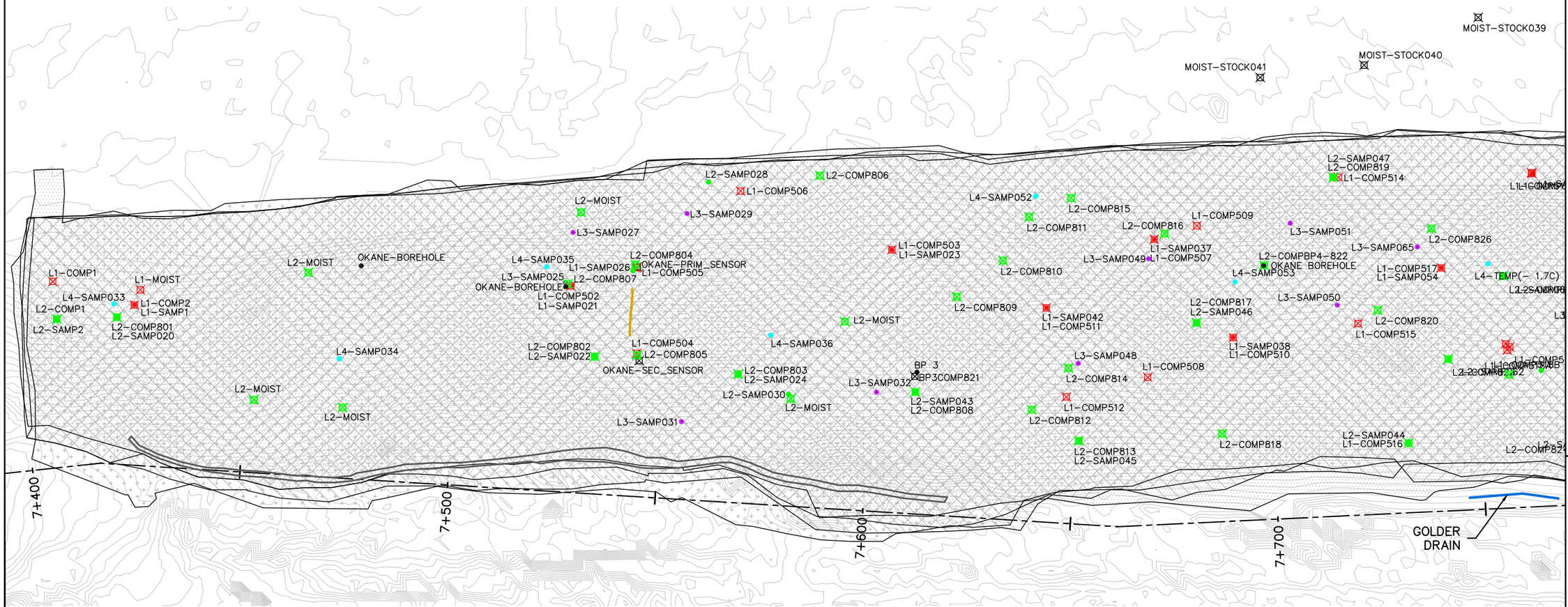
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 23, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 23, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 23, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 23, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 23, 2020 = 809m³
PLACED TO DATE = 17,394m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 23, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 24, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

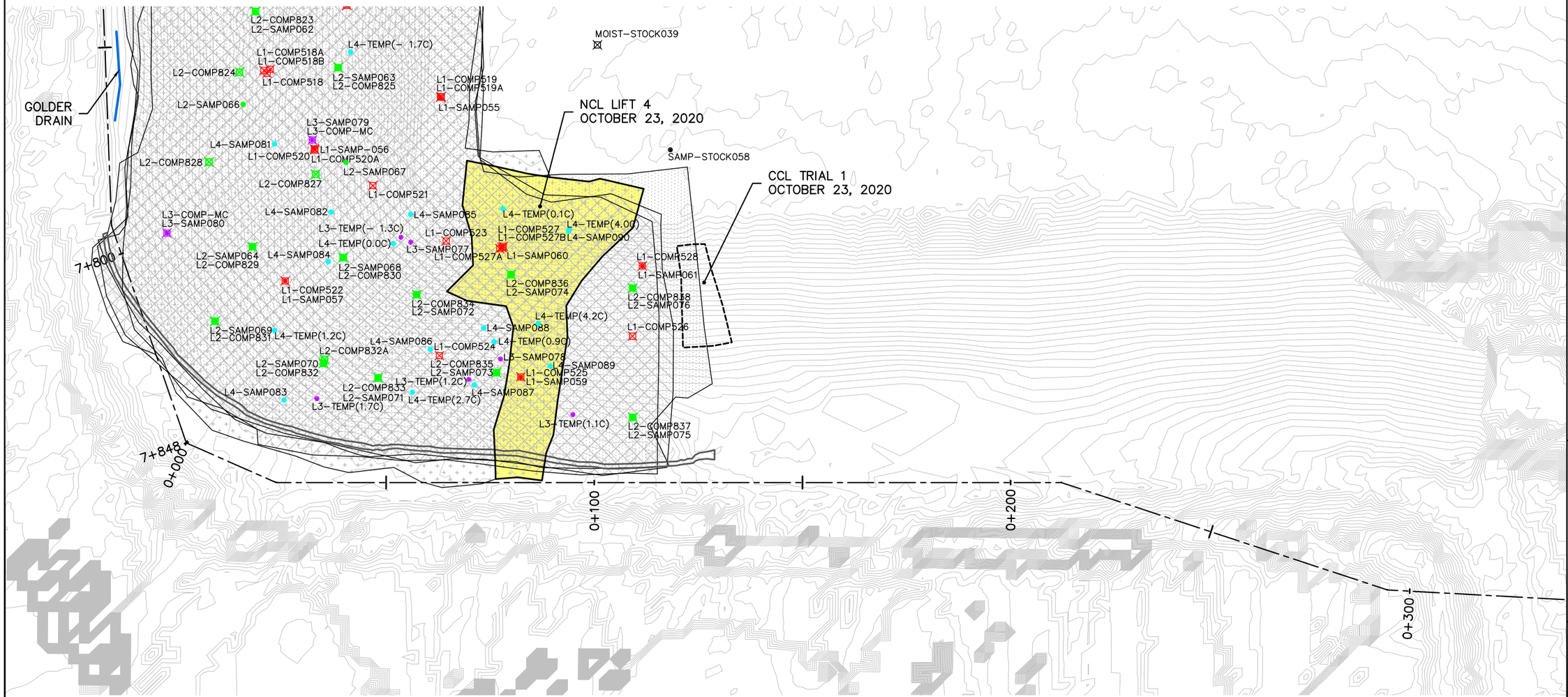
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 23, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 23, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 23, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 23, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 23, 2020 = 809m³
PLACED TO DATE = 17,394m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 23, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

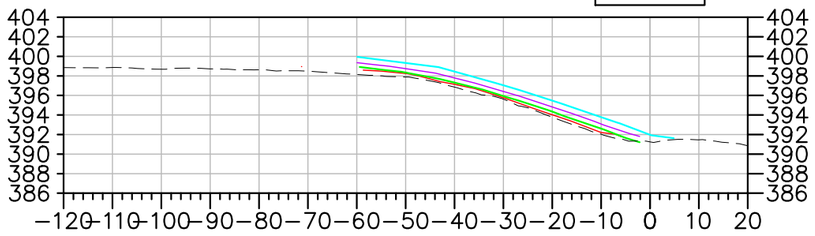
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

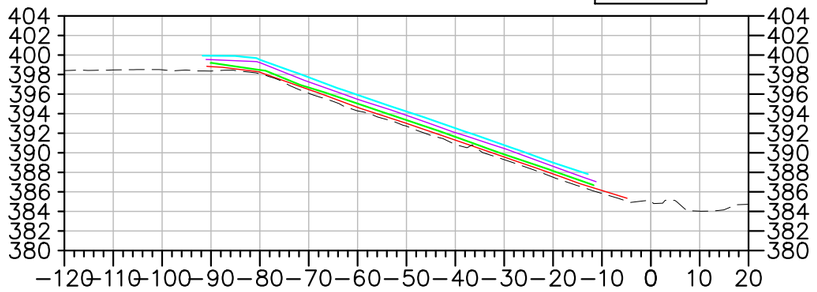
DATE	OCTOBER 24, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



7+700.00



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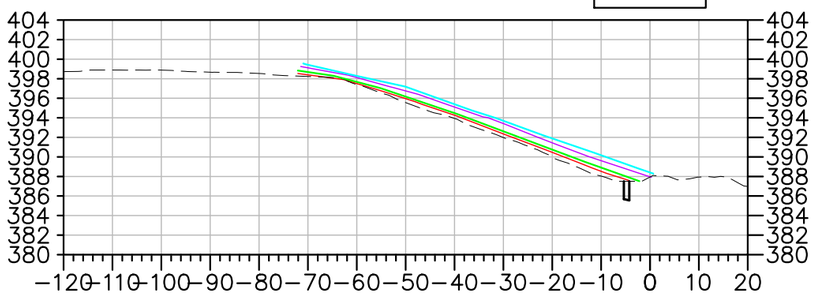

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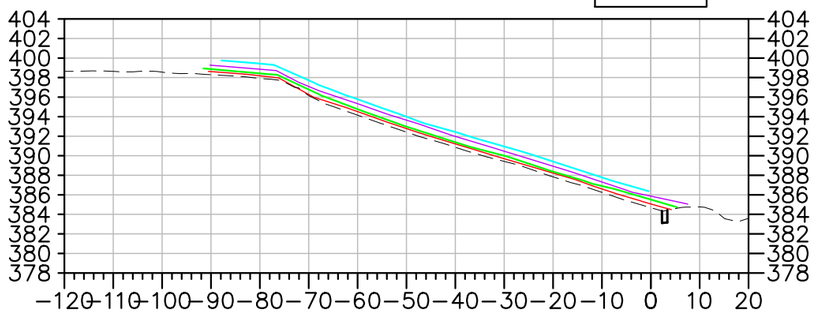

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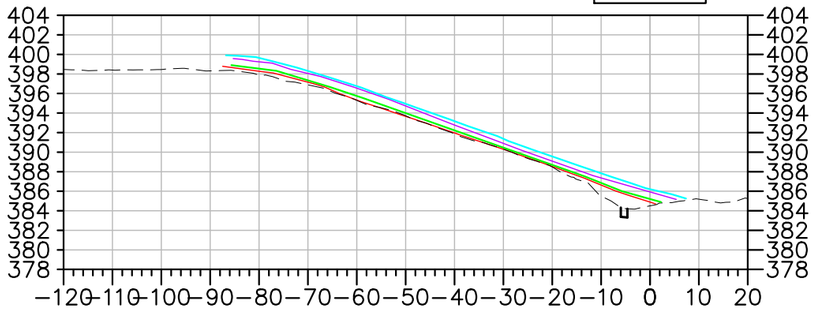

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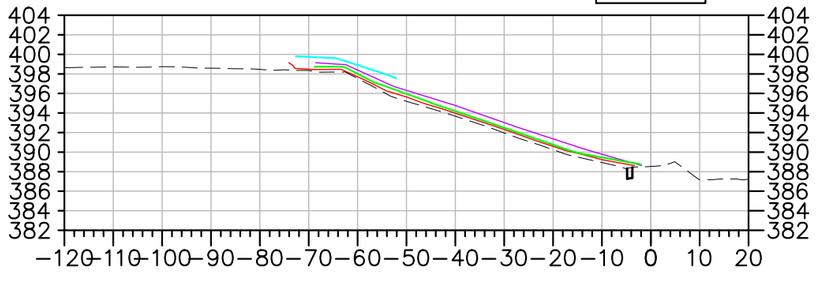


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 23, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 24, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X–1	19–1138	113

EMRS RECLAMATION

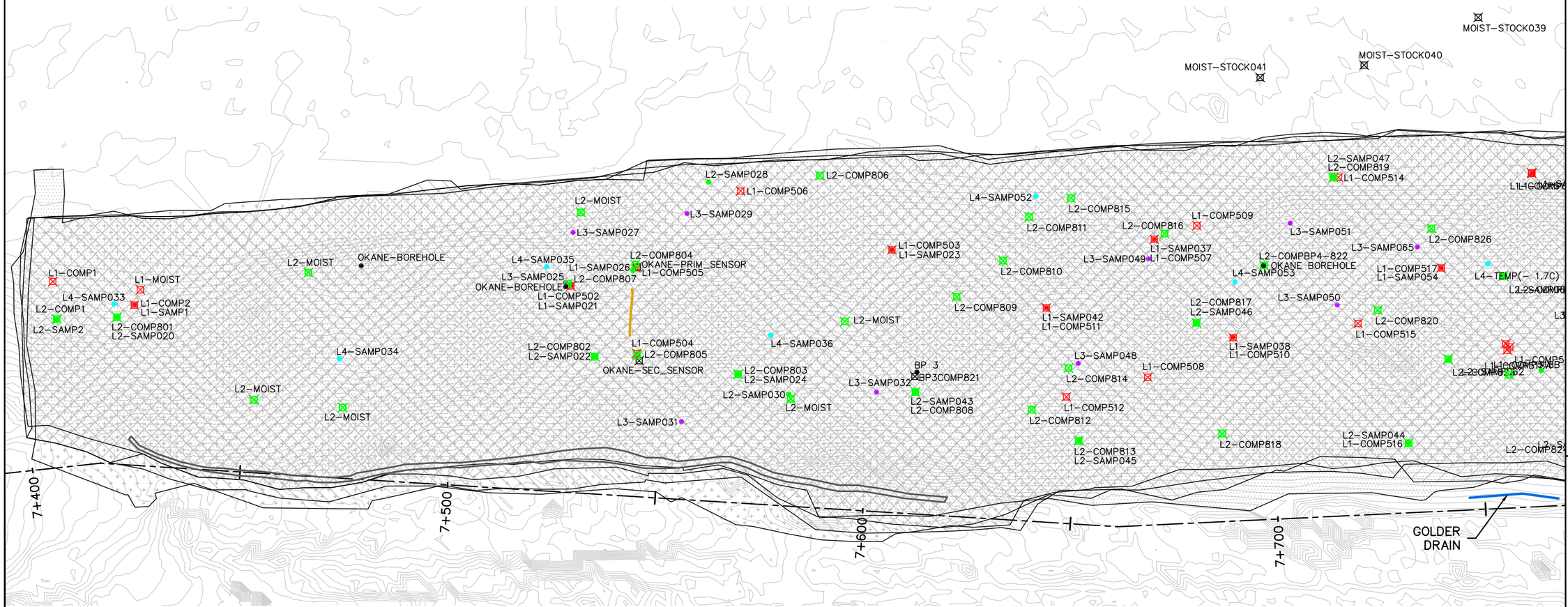
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 24, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 24, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 24, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 24, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 24, 2020 = 851m³
PLACED TO DATE = 18,245m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 24, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 25, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

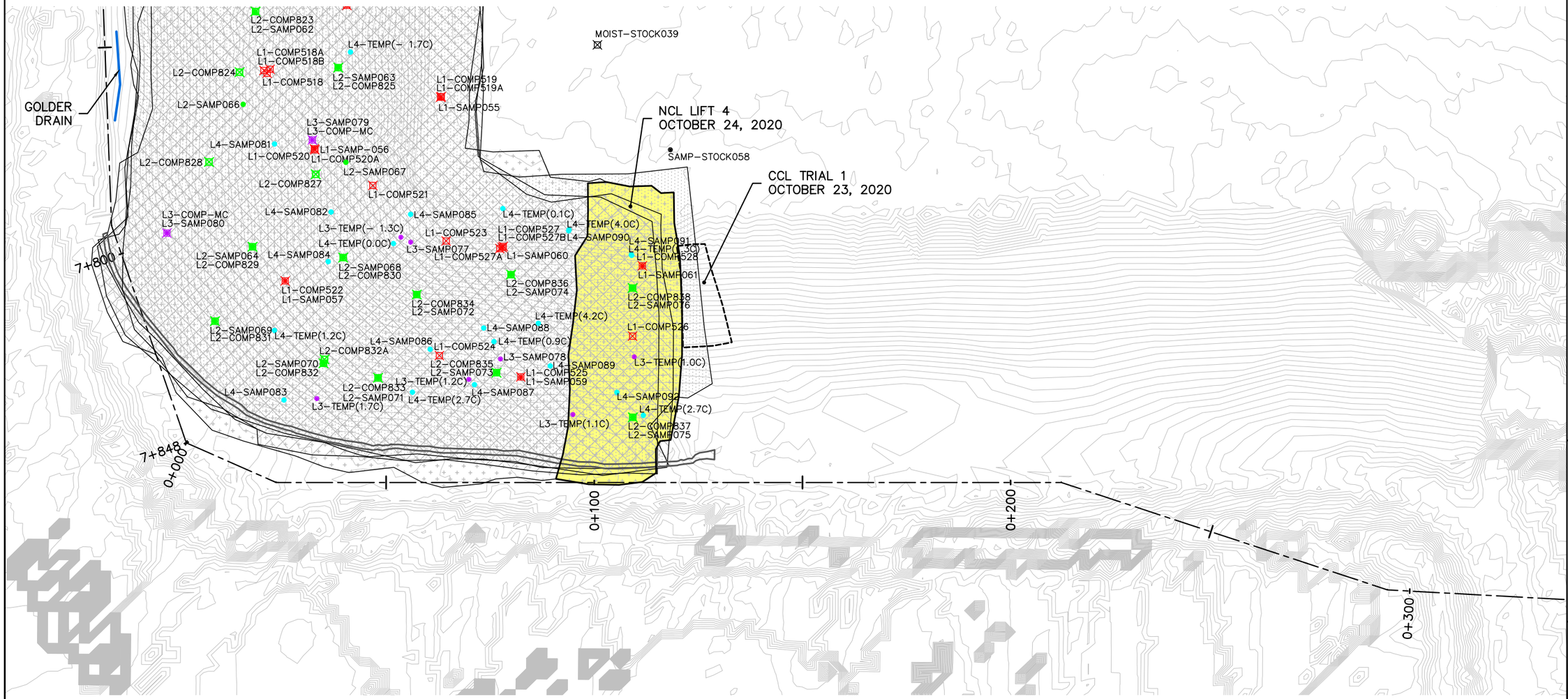
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 24, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 24, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 24, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 24, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 24, 2020 = 851m³
PLACED TO DATE = 18,245m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 24, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

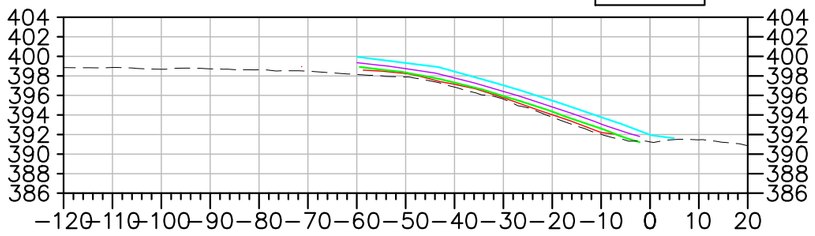
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

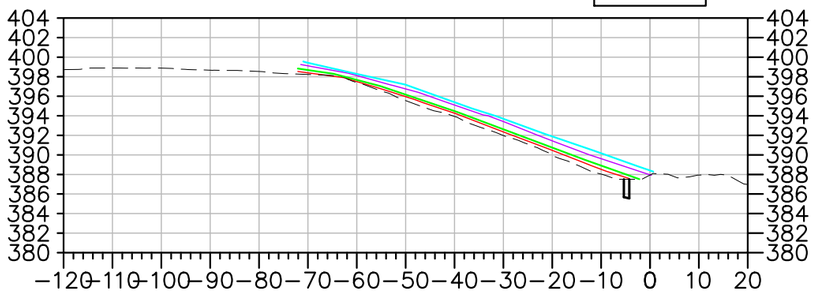
DATE	OCTOBER 25, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

7+415.00



7+500.00



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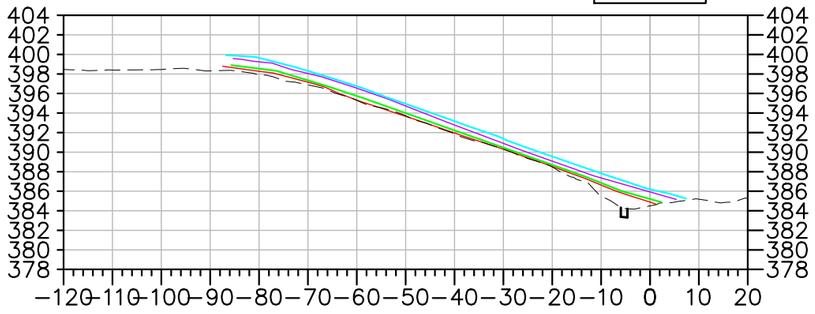

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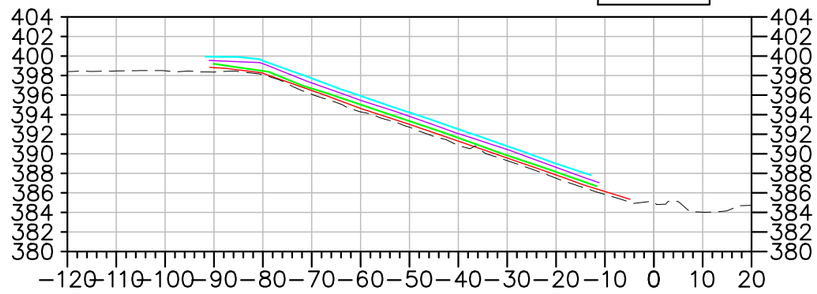
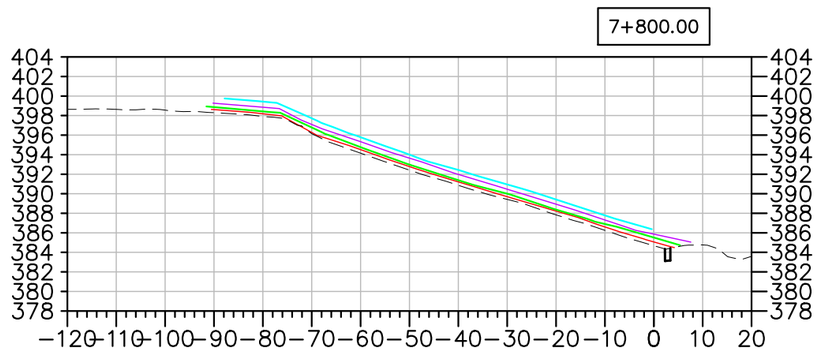


7+800.00



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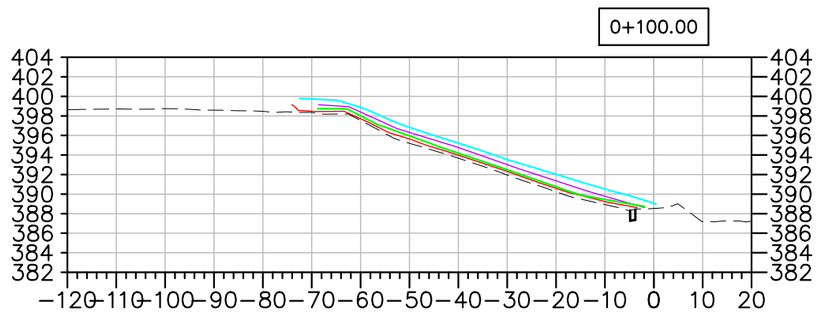


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 24, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 25, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X–1	19–1138	113

EMRS RECLAMATION

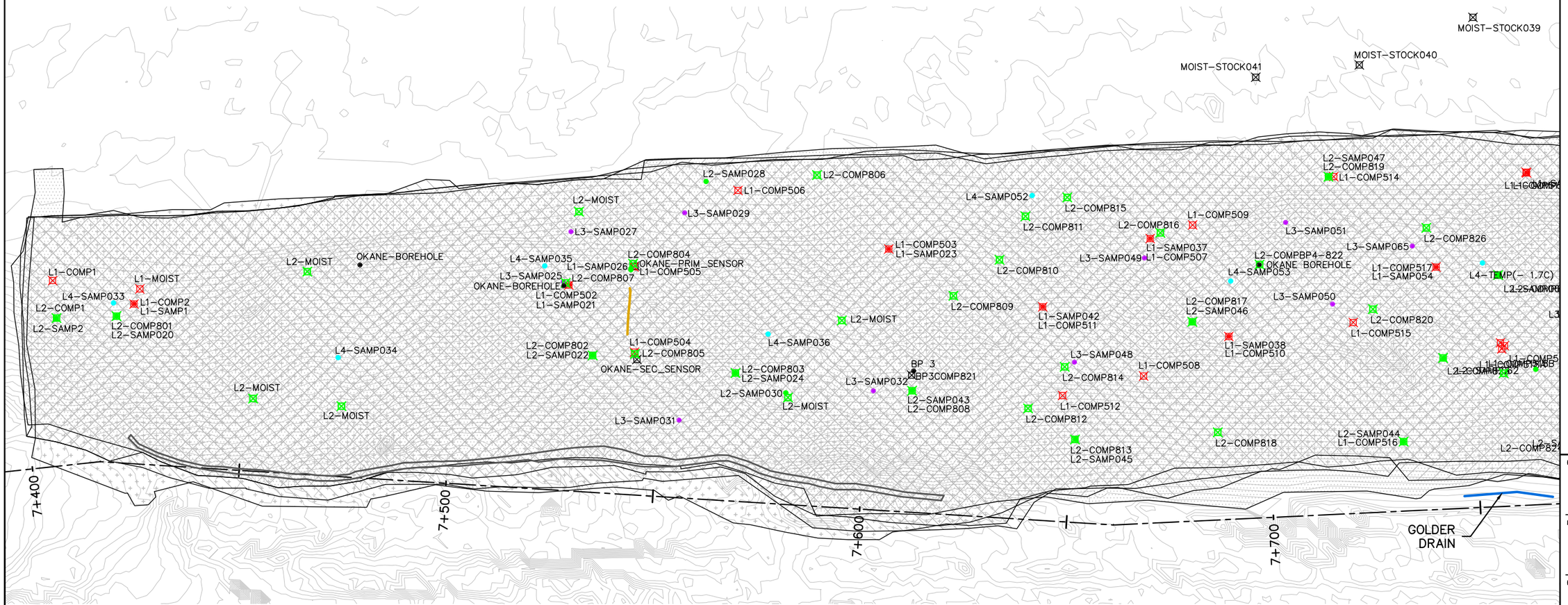
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 25, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 25, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 25, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 25, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 25, 2020 = 0m³
PLACED TO DATE = 18,245m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 25, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

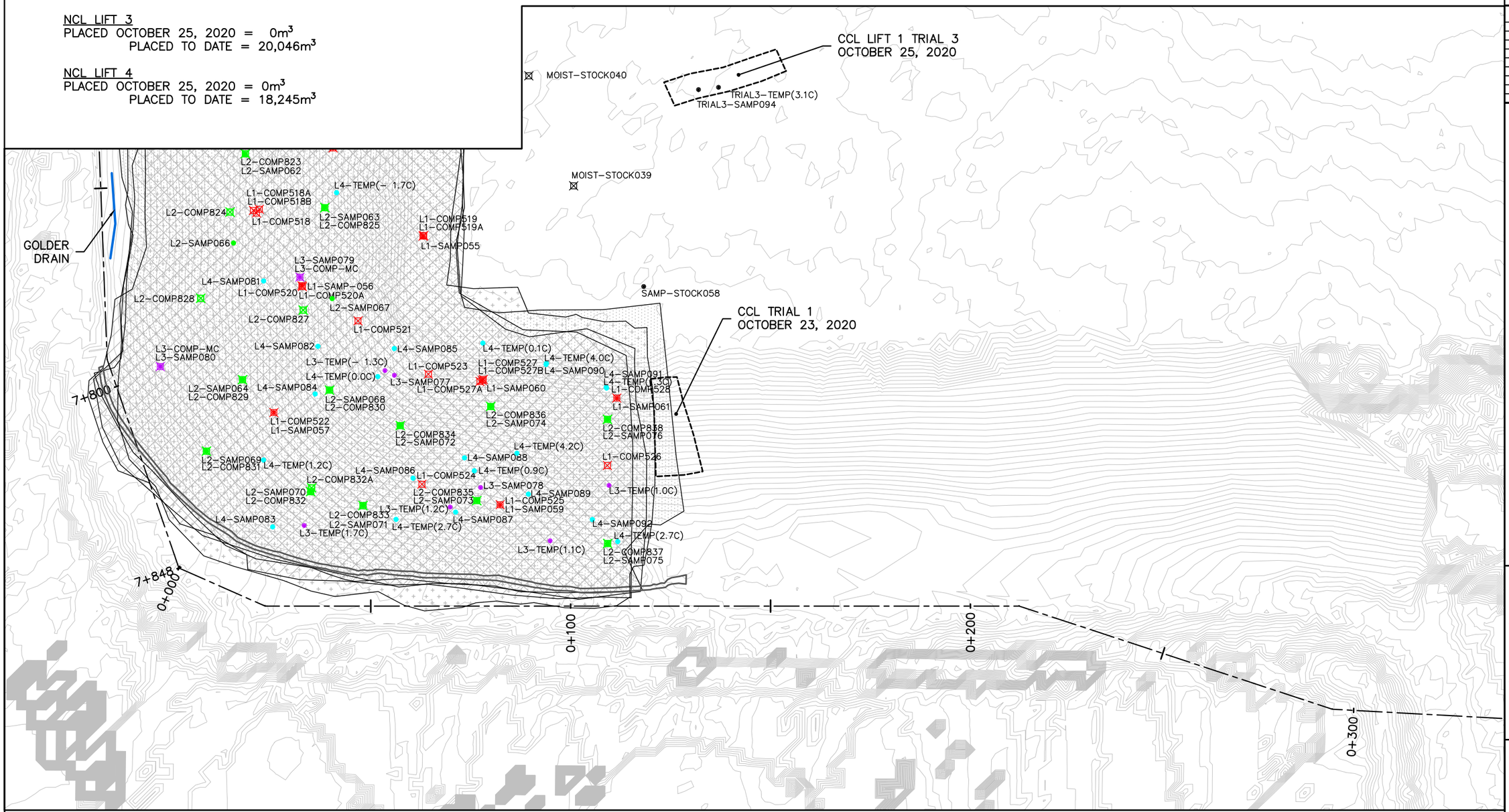
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 25, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 25, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 25, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 25, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 25, 2020 = 0m³
PLACED TO DATE = 18,245m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 25, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

EMRS RECLAMATION

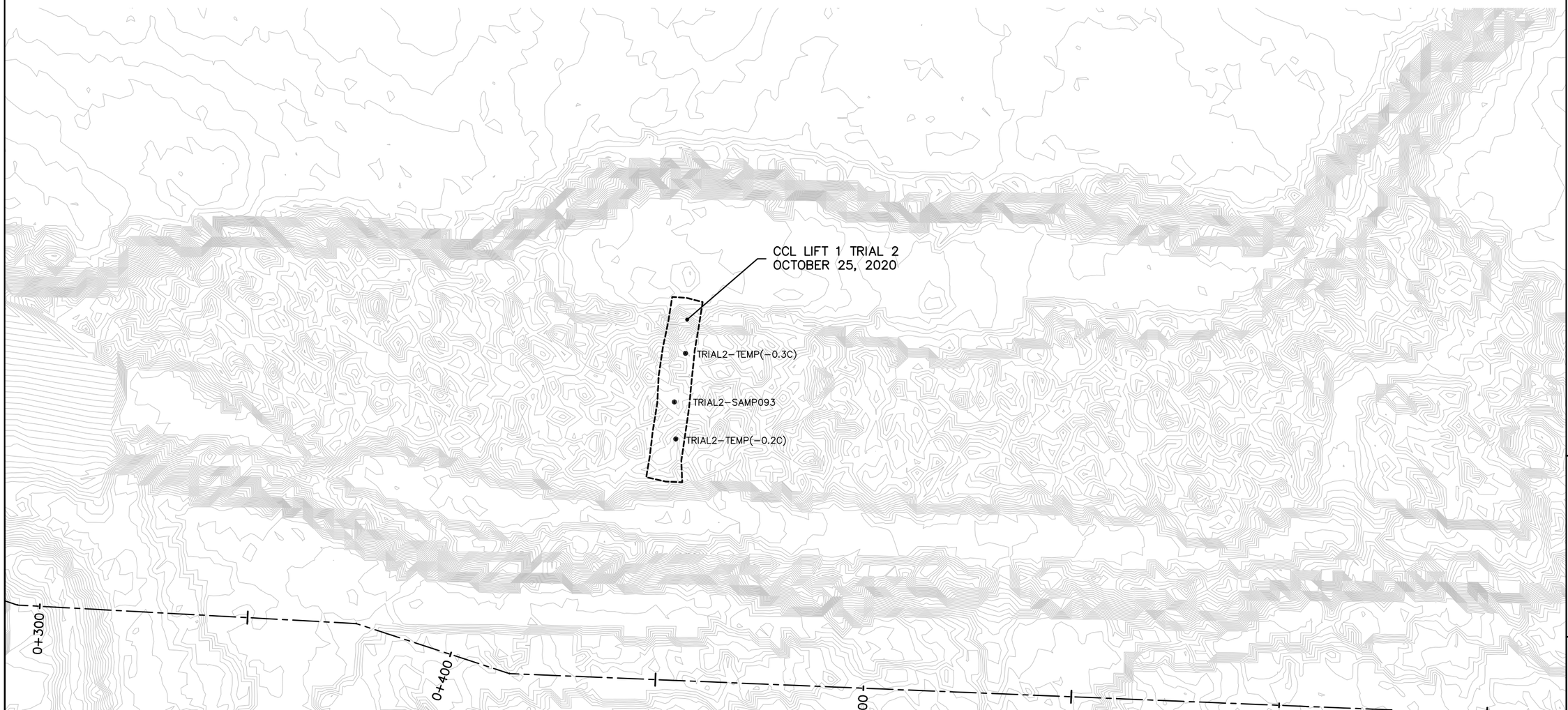
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 25, 2020 = 0m^3
EXCAVATED TO DATE = 471m^3

CCL LIFT 1
PLACED OCTOBER 25, 2020 = 0m^3
PLACED TO DATE = 11,375m^3

CCL LIFT 2
PLACED OCTOBER 25, 2020 = 0m^3
PLACED TO DATE = 9,379m^3

NCL LIFT 3
PLACED OCTOBER 25, 2020 = 0m^3
PLACED TO DATE = 20,046m^3

NCL LIFT 4
PLACED OCTOBER 25, 2020 = 0m^3
PLACED TO DATE = 18,245m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 25, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-3	19-1138	113

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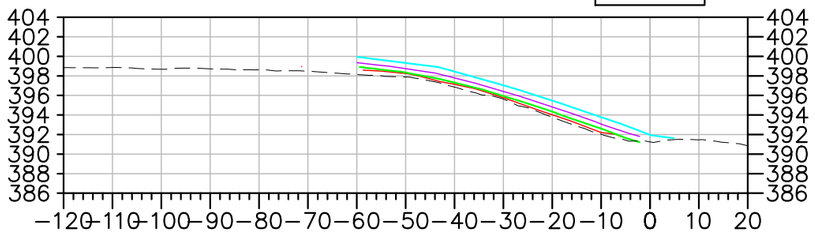

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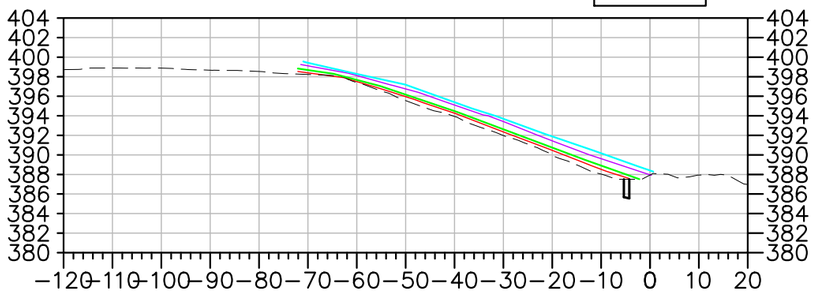

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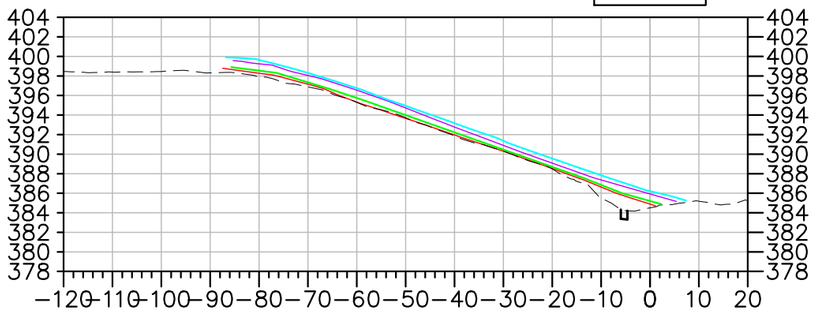

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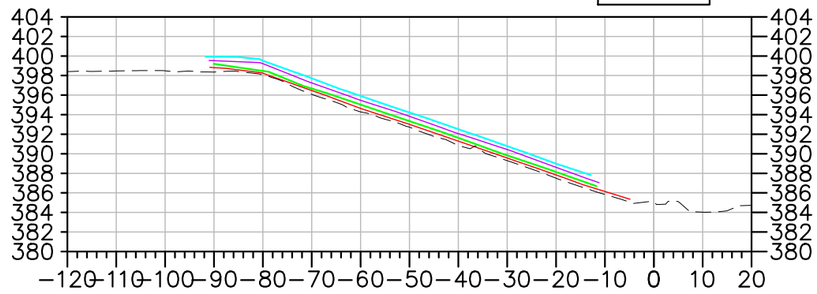

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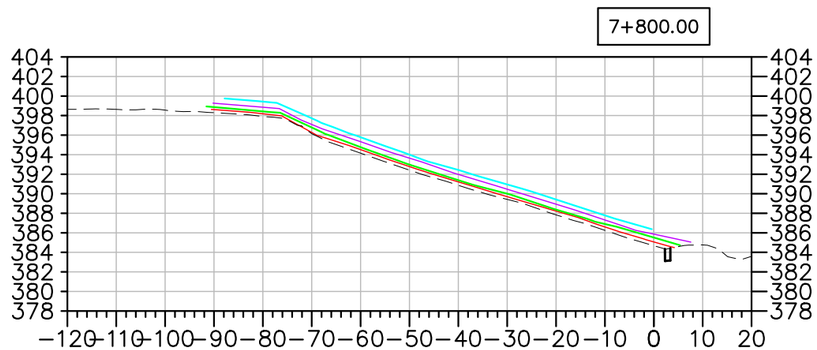

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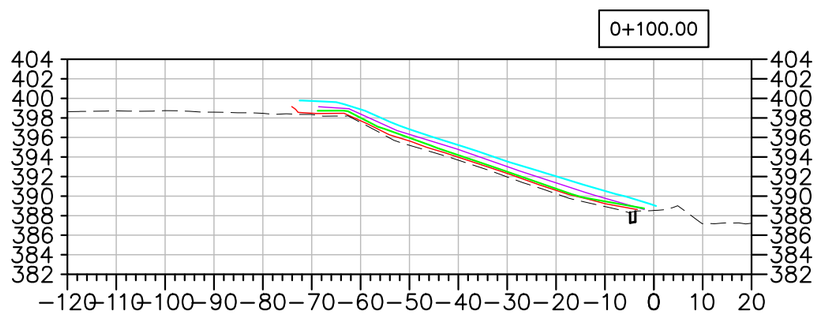


EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 25, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 26, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X–1	19–1138	113

EMRS RECLAMATION

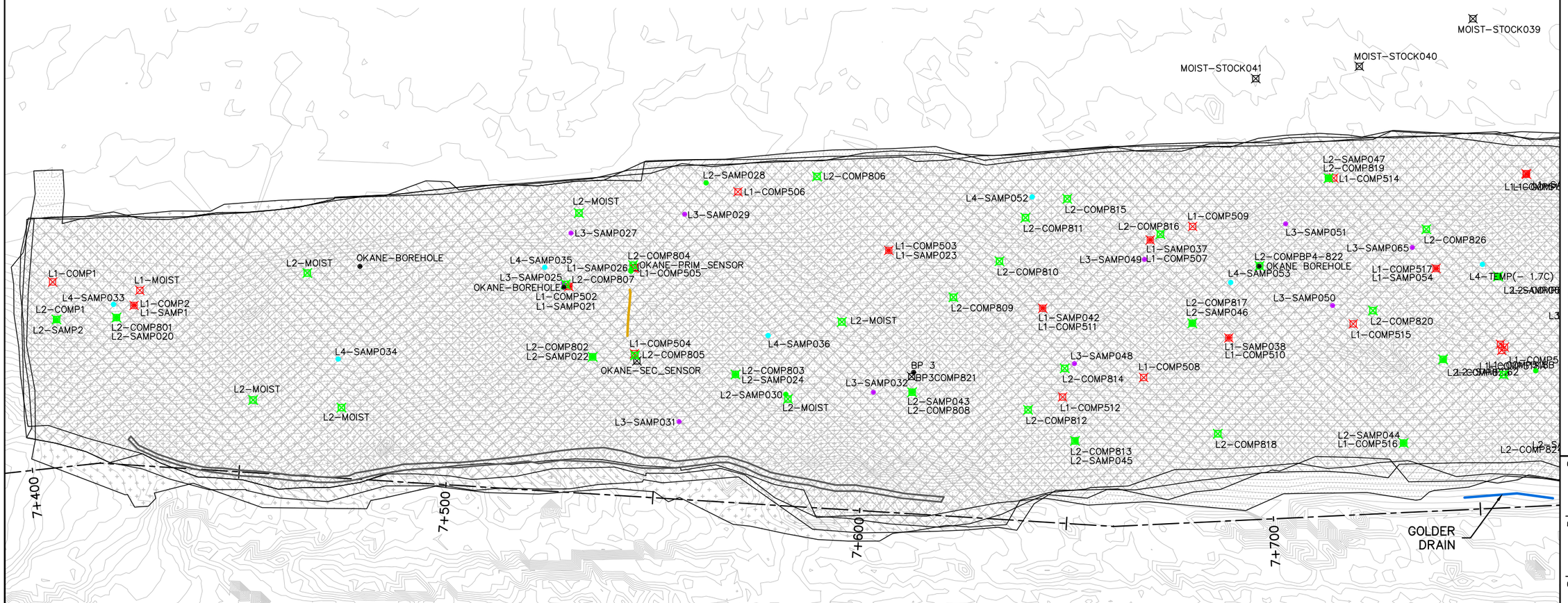
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 26, 2020 = 0m^3
EXCAVATED TO DATE = 471m^3

CCL LIFT 1
PLACED OCTOBER 26, 2020 = 0m^3
PLACED TO DATE = 11,375m^3

CCL LIFT 2
PLACED OCTOBER 26, 2020 = 0m^3
PLACED TO DATE = 9,379m^3

NCL LIFT 3
PLACED OCTOBER 26, 2020 = 0m^3
PLACED TO DATE = 20,046m^3

NCL LIFT 4
PLACED OCTOBER 26, 2020 = 0m^3
PLACED TO DATE = 18,245m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 26, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 27, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-1	19-1138	113

EMRS RECLAMATION

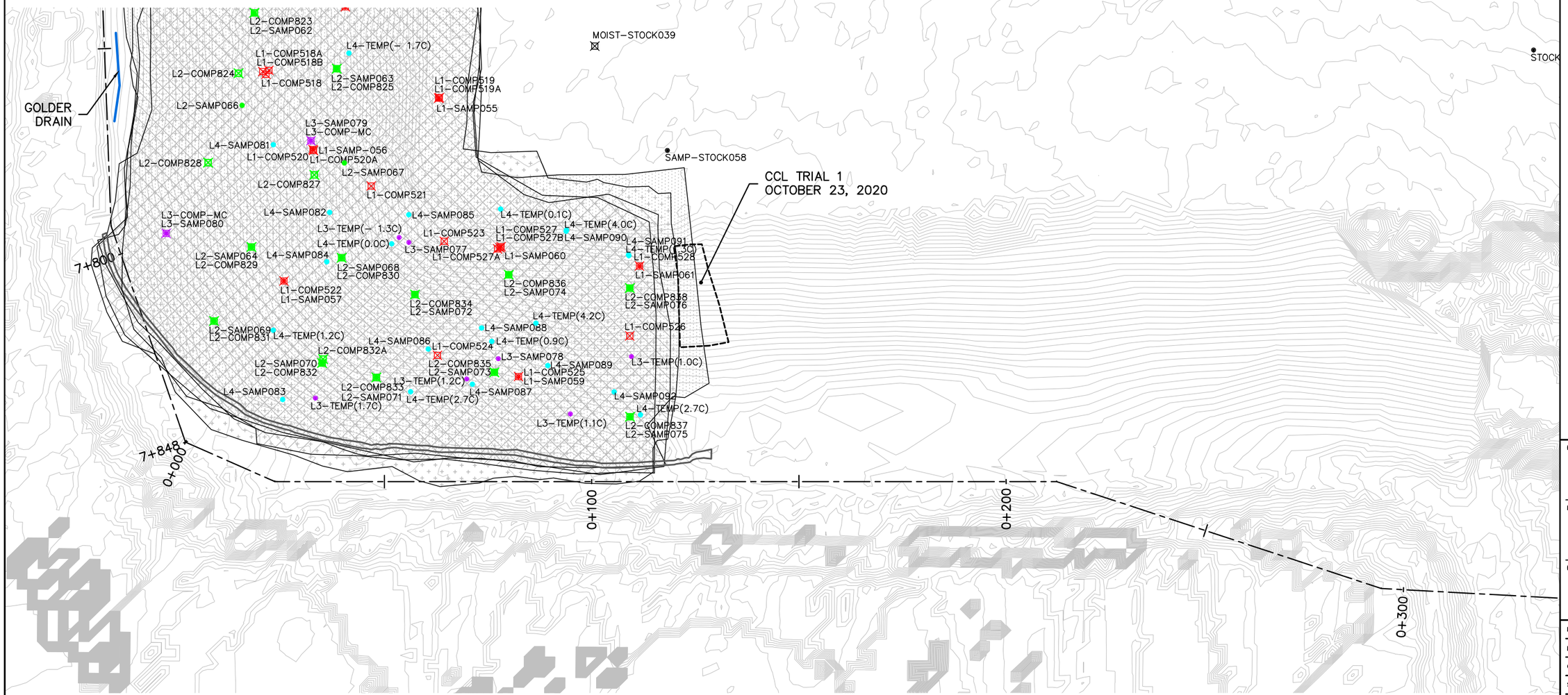
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 26, 2020 = 0m³
EXCAVATED TO DATE = 471m³

CCL LIFT 1
PLACED OCTOBER 26, 2020 = 0m³
PLACED TO DATE = 11,375m³

CCL LIFT 2
PLACED OCTOBER 26, 2020 = 0m³
PLACED TO DATE = 9,379m³

NCL LIFT 3
PLACED OCTOBER 26, 2020 = 0m³
PLACED TO DATE = 20,046m³

NCL LIFT 4
PLACED OCTOBER 26, 2020 = 0m³
PLACED TO DATE = 18,245m³



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 26, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 27, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D-2	19-1138	113

EMRS RECLAMATION

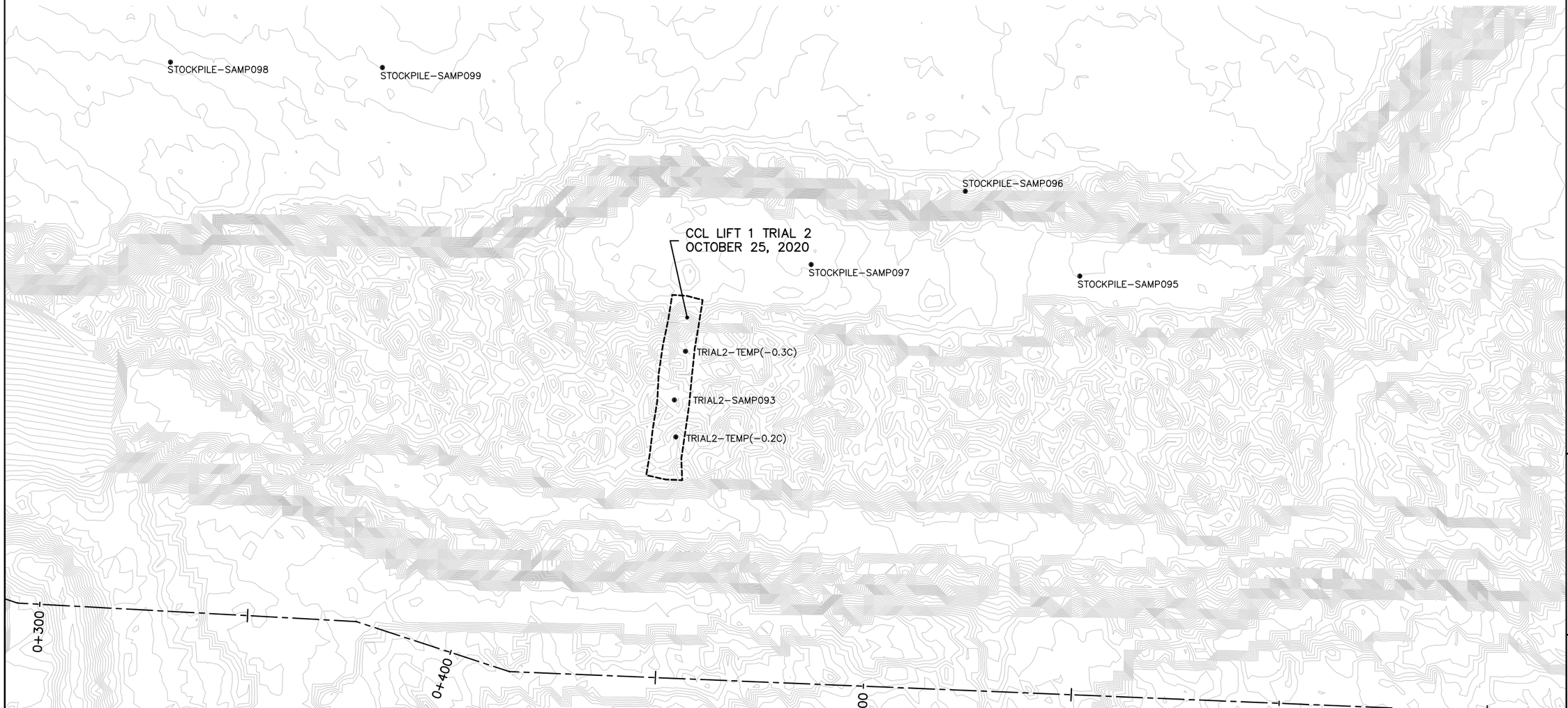
KEY TRENCH EXCAVATION
EXCAVATED OCTOBER 26, 2020 = 0m^3
EXCAVATED TO DATE = 471m^3

CCL LIFT 1
PLACED OCTOBER 26, 2020 = 0m^3
PLACED TO DATE = 11,375m^3

CCL LIFT 2
PLACED OCTOBER 26, 2020 = 0m^3
PLACED TO DATE = 9,379m^3

NCL LIFT 3
PLACED OCTOBER 26, 2020 = 0m^3
PLACED TO DATE = 20,046m^3

NCL LIFT 4
PLACED OCTOBER 26, 2020 = 0m^3
PLACED TO DATE = 18,245m^3



EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 26, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH
- LIFT #1 COMP. TEST SAMPLE
- LIFT #2 COMP. TEST SAMPLE
- LIFT #3 COMP. TEST SAMPLE
- LIFT #4 COMP. TEST SAMPLE
- WIRE
- PLACED TODAY

Horizontal Datum:
North American Datum 1983 (NAD83)
6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.
Vertical Datum:
Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

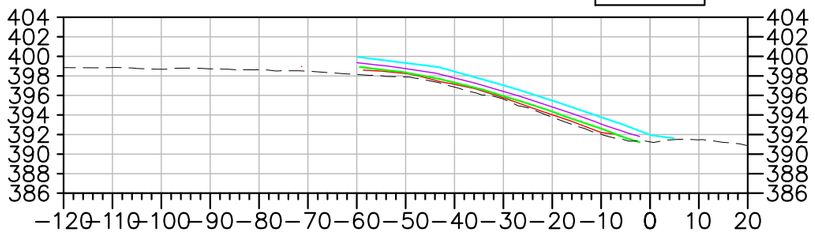
DRAWING TITLE
EMRS RECLAMATION

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 27, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
D–3	19–1138	113

7+415.00



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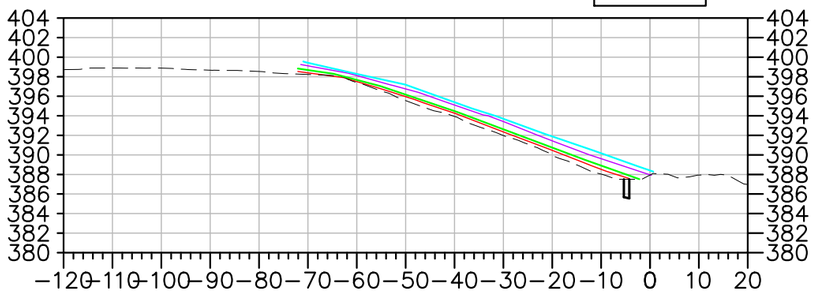

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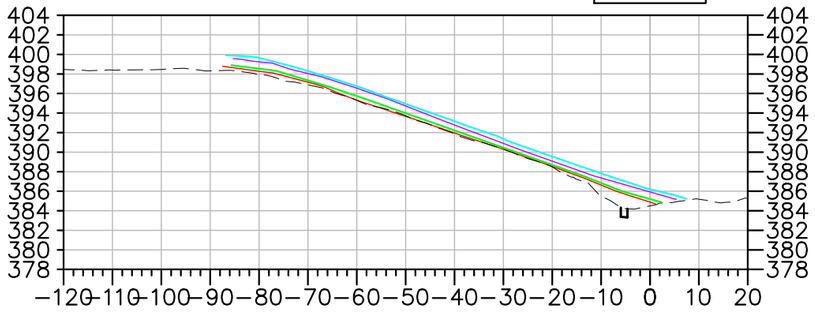

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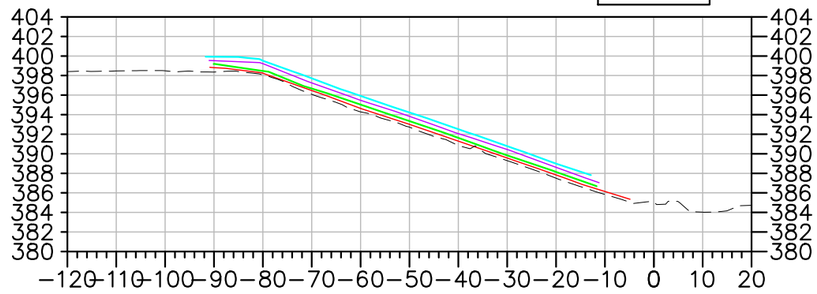

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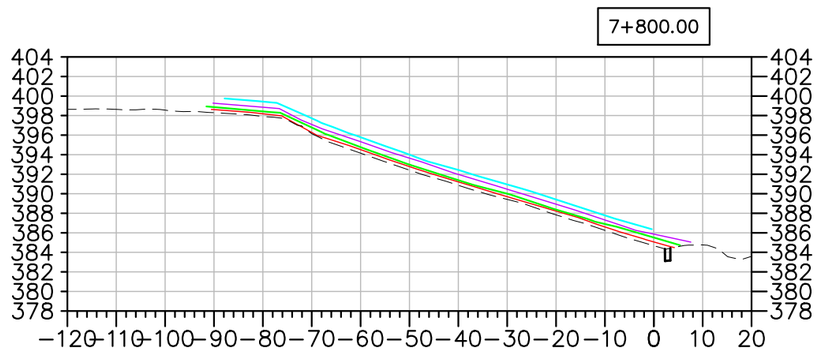

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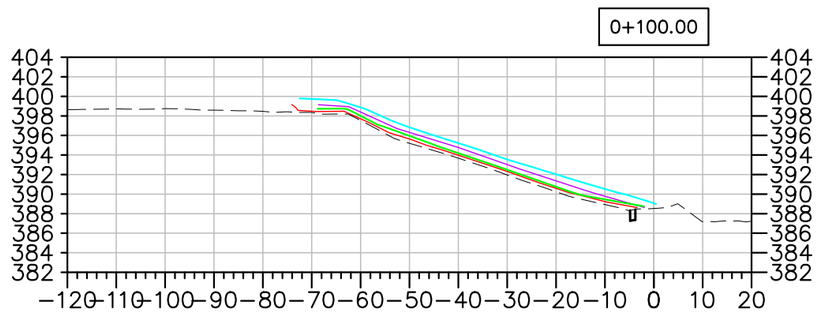

EMRS RECLAMATION – DAILY PROGRESS

(OCTOBER 26, 2020) SCALE: N.T.S.

TULLOCH ENGINEERING

DESIGNER

REVISIONS

	DATE	REMARKS

LEGEND

- EXISTING ROCK STOCKPILE
- CCL LIFT #1
- CCL LIFT #2
- NCL LIFT #3
- NCL LIFT #4
- KEY TRENCH

Horizontal Datum:
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6 Degree Universal Transverse Mercator (UTM) Grid Coordinates, Zone 15.

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Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations

PROJECT TITLE
NEW GOLD INC
RAINY RIVER
PROJECT

DRAWING TITLE
EMRS RECLAMATION
CROSS SECTIONS

PURPOSE
DAILY PROGRESS

DATE	OCTOBER 27, 2020
DRAWN	DAS
CHECKED	JT
SCALE	NTS
ISSUED FOR TENDER	
ISSUED FOR CONSTRUCTION	

DWG. No.	PROJECT No.	PHASE No.
X−1	19−1138	113

Appendix D

Daily Activities Summary, Panel Completion Records, and Tulloch Daily Reports

Appendix D

Activities Summary, Panel Completion Records and Daily Reports

1 PANEL CONSTRUCTION AND COMPLETION RECORDS

A local coordinate system was used for tracking the progress of the lower bench EMRS construction during the autumn 2020 season. Locations are described in distance relative to a designated station along a perimeter baseline at the toe of the EMRS, and offsets are used to indicate perpendicular distance away from the perimeter baseline. Where no offset is provided with stationing reference, it is generally understood the description is meant either to indicate the entire length of the lower EMRS slope, or the section of the slope length that was not previously referenced.

A summary of panel placement activities (Table D1), and relevant approval descriptions (Table D2) are described herein.

The information included in Table D1 is based on daily reports and notes provided by Tulloch. Lifts are generally referred to as L1 – first lift of the CCL, L2 – second lift of the CCL, L3 – first lift of the NCL, and L4 – second lift of the NCL. Sample notation indicates the lift from which the samples were taken as well as sample number. For example, 'EMRS-L2-020' indicates lift 2 (second lift of the CCL), program sample number 20. Where inconsistencies with this notation were noted in the reports, stated lift location is included in parentheses. Similarly, nuclear densometer test numbers starting with 500 were done on L1 of the CCL and 800 were done on L2 of the CCL. If a test was not assigned a test number, relevant reference information is provided in parentheses.

Table D2 describes the date of final survey and select material testing results for lift sections. Note: percent proctor values indicated with an asterisk use corrected dry density (when water content sample results were available), and percent wet/ dry of optimum values indicated with an asterisk use lab water content results. A value in red type indicates a result that does not pass Technical Specifications; a value that is also bolded indicates the value falls outside of the range of outliers for failed results.

Table D1: Construction Activities Summary

Date	Description	Location	Location	Offset	Offset	Compaction Tests	Samples Taken	Select Comments
26-Aug-20	Pushing and placing lift 1 CCL	7+400	7+475	-10	-54			
26-Aug-20	Moving CCL for dozers	7+400	7+475					
26-Aug-20	Packing lift 1 CCL	7+400	7+450			500, 501	EMRS-A1-L1-018	
27-Aug-20	Pushing & placing lift 1 CCL	7+475	7+500					Base surfaces provided are 10m and 2.5m grids; yielding lifts +/- 0.4m
27-Aug-20	Lift 1 CCL grading	7+400	7+485					
27-Aug-20	Packing lift 1 CCL	7+400	7+485					
27-Aug-20	Pushing and placing lift 2 CCL	7+400	7+430			800	EMRS-A1-L2-019	
28-Aug-20	Pushing and placing lift 2 CCL	7+400	7+450	-30	-50			
29-Aug-20	Pushing & placing lift 2 CCL	7+400	7+484					
29-Aug-20	Packing lift 2 CCL	7+400	7+484			801	EMRS-L2-020	
29-Aug-20	Pushing & placing lift 1 CCL	7+485	7+535					
29-Aug-20	Excavated key trench	7+442	7+551					
30-Aug-20	Pushing & placing lift 1 CCL	7+485	7+552					
30-Aug-20	Packing lift 1 CCL	7+485	7+552			502	EMRS-L1-021	
30-Aug-20	Pushing & placing lift 2 CCL	7+484	7+500					
30-Aug-20	Excavated key trench	7+551	7+586					
31-Aug-20								Conditions too wet for placement
1-Sep-20	Bulking in lift 2 CCL	7+483	7+550					Lift 2 CCL placed approximately 0.1m high so the dozer can trim after the rains. Dozer track-packed area before the rain arrived, this way the rain runs off instead of laying in the packer marks this way the clay dries faster.
2-Sep-20	Pushing and placing lift 2 CCL	7+469	7+545			802	EMRS-L2-022	Sample loads from the 830 mine trucks delivered were determined by NG and QC to be nice dark grey clay, to be used for the CCL layers. 830 mine trucks dumping CCL material between 7+840 and 0+060.
2-Sep-20	Pushing and placing lift 1 CCL	7+552	7+620					
2-Sep-20	Packing	7+469	7+545					
2-Sep-20	Key-in trench location	7+586	7+620					Lots of water coming into trench
3-Sep-20	Pushed and placed lift 1 CCL	7+620	7+650					Clay very greasy after last night's hard rain fall. 830 mine trucks are hauling in CCL/NCL material today.
4-Sep-20	Push and place lift 1 CCL	7+547	7+625					
4-Sep-20	Push and place lift 1 NCL	7+400	7+420					
4-Sep-20	Packing lift 1 CCL	7+547	7+625			503	EMRS-L1-023	
5-Sep-20	Pushing & placing lift 2 CCL	7+545	7+615	-66	-2			
5-Sep-20	Pushing & placing lift 3 NCL	7+420	7+480					

Date	Description	Location	Location	Offset	Offset	Compaction Tests	Samples Taken	Select Comments
5-Sep-20	Packing	7+545	7+615			803	EMRS-L2-024	
6-Sep-20	Pushing & placing lift 3 NCL	7+400	7+480					Only tested moisture content on lift 2 CCL (27.4%) prior to placing lift 3 NCL.
6-Sep-20	Grading lift 3 NCL	7+400	7+450					
7-Sep-20	Pushing & placing lift 3 NCL	7+450	7+490					Only tested moisture content on lift 2 CCL (25.8%) prior to placing lift 3 NCL.
7-Sep-20	Grading lift 3 NCL	7+450	7+480					
8-Sep-20	Pushing & placing lift 3 NCL	7+480	7+500					QA concern that lift 2 CCL may not meet moisture content requirements as the surface looked fairly dry. NG scraped the surface with the excavator and a moisture test was completed. Moisture content was 26.3% with a rod depth of 200mm.
8-Sep-20	Grading lift 3 NCL	7+480	7+500					Tested moisture content on lift 2 CCL (26.3%) prior to placing lift 3 NCL.
9-Sep-20	Pushing & placing lift 3 NCL	7+500	7+540					
9-Sep-20	Grading lift 3 NCL	7+500	7+525				EMRS-L3-025	
10-Sep-20	Assist Okane instrument install	7+540				'Test 1' (802 comparison), 504, 505, 804, 805	EMRS-L2-026	Assisted Okane with installation of soil monitoring instrumentation which required excavating through L2 and L1 CCL to blast rock then back filling in two 0.25m lifts, packing and testing each lift.
10-Sep-20	Grading lift 3 NCL	7+525	7+535					
11-Sep-20	Pushing & placing L1 CCL	7+540	7+600	-63	-84			
11-Sep-20	Pushing & placing L3&L4 NCL	7+530	7+550	-32	-63		EMRS-L3-027	L3 and L4 NCL lifts placed in panel including monitoring instruments
11-Sep-20	Bulking L3 NCL	7+530						
12-Sep-20								Okane on site to finish installing monitoring instrumentation
13-Sep-20	Place & pack L1 CCL	7+543	7+615	-61	-89	506		
13-Sep-20	Place & pack L2 CCL	7+542	7+615	-61	-87	806	EMRS-L2-028	
14-Sep-20	Push and place L3 NCL	7+514	7+552	-0.3	-78		EMRS-L3-029	
14-Sep-20	Push and place L4 NCL	7+530	7+550	-0.3	-78			
15-Sep-20	Push and place L3 NCL	7+550	7+585			'Test 1', 'Test 2', (September 15 Density Report)	EMRS-L3-030 (L2 CCL), EMRS-L3-031	The L2 CCL material tested has been exposed for more then 24 hours, tests where completed to check moisture prior to L3 NCL placement. Both locations had more then 0.4 m of cover remaining after stripping away the dry material to complete tests
15-Sep-20	(surveyed)	7+550	7+570					
16-Sep-20	NG placing & shaping L3 NCL	7+568	7+614	-4	-86		EMRS-L3-032	Completed the area that had the L2 CCL exposed for more then 24hrs
16-Sep-20	NG Pushing L4 NCL	7+400	7+415					
17-Sep-20	NG push and place L4 NCL	7+400	7+450				EMRS-L3-033 (L4 NCL)	
18-Sep-20	NG pushed & shaped L4 NCL	7+400	7+465				EMRS-L3-034 (L4 NCL)	
18-Sep-20	Cover PAG Burrito with NCL lift	7+425		-3	10			NG covered a burrito that had PAG rock on it with a lift of NCL material
19-Sep-20	Pushing & placing L4 NCL	7+439	7+510					
19-Sep-20	Grading L4 NCL	7+439	7+472	-3	-67			
20-Sep-20	Pushing & grading L4 NCL	7+468	7+535	-0.8	-76		EMRS-L3-035 (L4 NCL)	

Date	Description	Location	Location	Offset	Offset	Compaction Tests	Samples Taken	Select Comments
21-Sep-20	Pushing & placing L4 NCL	7+530	7+593					
21-Sep-20	Grading L4 NCL	7+530	7+564	-1	-82		EMRS-L4-036	
21-Sep-20		N:540858 1.078 E:428747 .924				807		Nuclear densometer testing at location of Okane permeameter test on L2 CCL
21-Sep-20	Hauling NCL material	7+530	7+593					
22-Sep-20	Placing, Grading L4 NCL	7+564	7+604	0	-83			
22-Sep-20	Pushing & Placing L1 CCL	7+625	7+655					
22-Sep-20	Shaping Rock	7+629	7+773	-3	-42			
23-Sep-20	Pushing and Placing L1 CCL	7+625	7+702					Dry density revised on all up to date compaction forms with lab proctors
24-Sep-20	Graded & Packed L1 CCL	7+625	7+705			507, 508, 509, 510	EMRS-L1-037	
24-Sep-20	Pushing & Placing L1 CCL	7+702	7+734				EMRS-L1-038	
24-Sep-20	Pushing & Placing L2 CCL	7+650	7+690					
25-Sep-20	Pushing and placing L2 CCL	7+653	7+700					
25-Sep-20	Pushing and placing L1 CCL	7+734	7+750					
25-Sep-20	Sample stockpiles						EMRS-L1-039 (stockpile), EMRS-L1-040 (stockpile), EMRS-L1-041 (stockpile)	Begin additional sampling from stockpiles to review material characteristics ahead of placement
26-Sep-20	Placed & graded L1 CCL	7+706	7+743					Transition area +/- 7+610 an improved trimmed rock surface was made available for lift thickness reference. NG also brought in a D8T GPS Dozer.
26-Sep-20	Packed L1 &L2 CCL	7+618	7+743			511, 512, 514, 515, 516, 808, 809.	EMRS-L1-042, EMRS-L2-043, EMRS-L1-044	Excluded marked off toe drain location
26-Sep-20	Placed & graded L2 CCL	7+618	7+702					
27-Sep-20	Placed & graded L2 CCL	7+702	7+735			810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820	EMRS-L2-045, EMRS-L2-046, EMRS-L2-047	
27-Sep-20	Pushed & placed L3 NCL	7+612	7+720					
27-Sep-20	Pushed and placed L1 CCL	7+740	7+775					
28-Sep-20	Placed & graded L3 NCL	7+612	7+680				EMRS-L2-048, EMRS-L2-049	
28-Sep-20	Pushed & placed L3 NCL	7+680	7+730					CCL is a mix of WML & Brena, dark grey and some light brown clay mix. Sticky due to the light rain.
29-Sep-20	Placed & graded L3 NCL	7+680	7+727				EMRS-L3-050, EMRS-L3-051	CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the light rain.
29-Sep-20	Pushed & placed L4 NCL	7+615	7+645					
30-Sep-20	Placed & graded L4 NCL	7+600	7+654					

Date	Description	Location	Location	Offset	Offset	Compaction Tests	Samples Taken	Select Comments
30-Sep-20	Grading toe of slope	7+400	7+600					
30-Sep-20	Pushed & placed L4 NCL	7+654	7+685				EMRS-L4-052	CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the rain. Heavy rains in late morning so crew shut down at 12:30 material was getting to sticky and to hard to place.
1-Oct-20								CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the rain. No work performed.
2-Oct-20	Placed & graded L4 NCL	7+650	7+725				EMRS-L4-053	
2-Oct-20	Pushed & placed L1 CCL	7+754	0+080					
3-Oct-20	Placed & graded L1 CCL	7+740	0+060					
3-Oct-20	Pushed & placed L1 CCL	0+060	0+125			821 (corresponds with BP3)		
3-Oct-20	Packing	7+740	7+800			517, 518, 519, 520	EMRS-L1-054, EMRS-L1-055, EMRS-L1-056	211 packer's sheep foot was plugged up and densities were reading low. The sheep's foot was cleaned and instructed to make one more pass to see if that would bring up the densities.
4-Oct-20	Placed & graded L1 CCL	0+060	0+115			518A, 518B, 519A, 520A, 521, 522, 523.	EMRS-L1-057 EMRS-Stockpile-058	Okane on site. Retested compaction tests 518A, 518B, 519A, 520A due to the packer issues yesterday. Some of these tests didn't prove to be any better densities. Okane gave NG the go ahead to start placing L2 CCL.
4-Oct-20	Pushed & placed L2 CCL	7+755	7+775					
4-Oct-20	Placed & graded L2 CCL	7+733	7+755					
5-Oct-20	Placed & graded L2 CCL	7+755	7+810					
5-Oct-20	Placed & graded L1 CCL	7+795	0+008			524, 525, 526, 527, 528,527A, 527B, 822.	EMRS-L1-059, EMRS-L1-061, EMRS-L1-060	Okane on site. Installed BP 4. Issues with Lift 1 CCL densities and water content, extra compaction tests where performed to allow NG to place L2 CCL.
5-Oct-20	packing	L1 & L2 CCL						
5-Oct-20	Key-in trench location	7+816	0+008					Blueish Clay, +/- 1m depth/ some bedrock
6-Oct-20	Placed & graded L2 CCL	7+778	0+104			823, 824, 825, 826, 827, 828, 829	EMRS-L2-063. EMRS-L2-062. EMRS-L2-064	
6-Oct-20	Placed & graded L1 CCL	0+008	0+118					
6-Oct-20	Packing	L1 and L2 CCL						
6-Oct-20	Key-in trench location	0+008	0+118					Rolling bedrock with clay in between
7-Oct-20	Stockpile material	+/- 7+850 corner						Material was too wet from the rain we received last night so no material was placed today. NG worked to clean up and stockpile material at the crest of the slope to increase efficiency when the material dries and they are able to place again.
8-Oct-20	Placed & graded L3 NCL	7+733	7+756					
8-Oct-20	Pushed & placed L3 NCL	7+756	7+806				EMRS-L3-065, EMRS-L2-066, EMRS-L2-067	

Date	Description	Location	Location	Offset	Offset	Compaction Tests	Samples Taken	Select Comments
9-Oct-20	Placed & graded L3 NCL	7+756	7+780	-10	-90			
9-Oct-20	Pushed & placed L3 NCL	7+780	0+062					
9-Oct-20	Packed L2 CCL	0+062	0+0104			830, 831, 832, 832A (retest)	EMRS-L2-068, EMRS-L2-070, EMRS-L2-069	Consulted Okane regarding variable dry density and moisture content values testing L2 CCL that was placed on Oct 6, 2020. As per Okane recommendation, the packer did 4 more passes over the location of Compaction test 832 and was then retested (832A) to confirm material was meeting compaction standards and that the lower dry density values were due to slightly higher moisture content from the rain.
10-Oct-20	Placed & graded L3 NCL	7+769	7+843	-8	-88	833, 834, 835, 836, 837, 838.	EMRS-L2-071, EMRS-L2-072, EMRS-L2-074, EMRS-L2-075. EMRS-L2-073, EMRS-L2-076, EMRS-L3-077	
10-Oct-20	Pushed & placed L3 NCL	7+843	0+117					Panel was dryer then it was yesterday when packed. Equipment could drive on it and would not rut as bad. Moisture content seemed a lot better but did vary throughout the panel even though material seemed consistent.
11-Oct-20	Placed & graded L3 NCL	0+015	0+116	-1	-70		EMRS-L3-078	
11-Oct-20	Pushed & placed L4 NCL	7+733	7+775					
11-Oct-20	Key-in trench location	0+120	0+0129					Bedrock, excavated on Oct 6, 2020
12-Oct-20								No work completed
13-Oct-20								No work completed due to rain the NG rainy river site received last night and the material being too saturated.
14-Oct-20								No work was done at the EMRS reclamation today due to rain and conditions being unsuitable to place material.
15-Oct-20								No work was done at the EMRS reclamation today due to rain and conditions being unsuitable to place material.
16-Oct-20								Okane advised not to place L4 NCL over the 2.5-5cm snow present (wait for snow to melt or remove), and that if the snow melted to make sure the L3 NCL was not over saturated prior to L4 NCL placement. No material was placed at the EMRS reclamation today due to snow and conditions being unsuitable to place material. NG and the Veert dozer did start pushing the material that was stockpiled earlier in the week by NG Construction closer to the slope to speed up productivity once NG is able to place L4 NCL.
17-Oct-20								No material was placed at the EMRS reclamation today due to snow and conditions being unsuitable to place material.
18-Oct-20								No material was placed at the EMRS reclamation today due to snow and conditions being unsuitable to place material. NG started to stockpile some NCL material in preparation to place this morning but then got shut down due to snow.

Date	Description	Location	Location	Offset	Offset	Compaction Tests	Samples Taken	Select Comments
19-Oct-20	Clear Snow	7+770	7+805				EMRS-L3-079, EMRS-L3-080, EMRS-L3-080	Various discussions throughout the day with Okane in reference to snow being present on the L3 NCL and how to proceed with L4 NCL placement. NG started clearing snow from sta +/- 7+770 - 7+805, preparing to place L4 NCL.
20-Oct-20	Placed & graded L4 NCL	7+725	7+800	-90	-12		EMRS-L4-081, EMRS-L4-082	
20-Oct-20	Pushed & placed L4 NCL	7+800	0+060	-86	-3			New Gold announced that the EMRS will continue placement as long as temperatures permit.
21-Oct-20	Placed & graded L4 NCL	7+800	0+055	-87	-2		EMRS-L4-083, EMRS-L4-084, EMRS-L4-085	
22-Oct-20	Placed & graded L4 NCL	0+055	0+088	-75	0		EMRS-L4-086, EMRS-L4-087, EMRS-L4-088	Additional guidance for EMRS Cover System Placement - Frozen Conditions received from Okane
22-Oct-20	Trial L1 CCL	0+125	0+135					L1 CCL Trial: Cleared snow off at 0+125 - 0+135 to perform a trial to place L1 CCL. Placed 0.30m of CCL with the D65 dozer, started to pack the CCL and the packer got stuck. We noticed the drum and tires filling up with CCL and made it very slippery.
23-Oct-20	Placed & graded L4 NCL	0+069	0+095	0	-77			
23-Oct-20	Placed L4 NCL	0+095	0+110	-50	-72		EMRS-L4-089, EMRS-L4-090	
24-Oct-20	Placed & graded L4 NCL	0+095	0+113				EMRS-L4-091, EMRS-L4-092	Okane on site. Discussed work plan and Okane's concern about ambient temperatures, also the amount of snow being on top of the stockpiles of clay.
24-Oct-20	Trial 2 Access	0+450						At 0+113 NG sloped and covered all L1, L2, L3 face surface to protect it for the winter. Started punching a roadway through the stockpiles to perform a L1 CCL placement trial 2 at +/- 0+450.
25-Oct-20	Trial 2 L1 CCL	0+450	0+457	-91	-47		T2-EMRS-L1-093	CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Very very sticky. As temperature rises up the stickier it gets.
25-Oct-20	Trial 3 L1 CCL	0+125	0+150	-135	-125		T3-EMRS-L1-094	L1 CCL Trial 2 at 0+450 - 0+457, o/s -91m - -47m: Cleared snow, placed 0.25m of CCL with D65 dozer. 211 packer packed area with vibration and no vibration. Packer constantly picked up. Did not get stuck. L1 CCL Trial 3 at 0+125 - 0+150, o/s -139m - -125m: Cleared snow, placed 0.25m of CCL with D65 dozer. 211 packer packed area with vibration and no vibration. Packer constantly picked up. Did not get stuck. Temperatures are playing a big issue with the packer picking up. The closer it gets to zero the stickier and more the packer picks up.
26-Oct-20	Level tops stockpiles for winter shut down; stockpile samples						EMRS-SP-095, EMRS-SP-096, EMRS-SP-097, Sample EMRS-SP-098, EMRS-SP-099	

Table D2: Panel Completion Summary

Location	Offset	CCL-L1	CCL-L2	NCL-L3	NCL-L4	Panel Accepted[12345]	Field Max DD Reference	Lab Max DD Reference	% Field Proctor	% Lab Proctor*	% Field Moisture Content	% Wet/Dry Lab OWC*	Borehole Permeameter	Comment
7+400 7+485		27-Aug-20				1&5	1447	1512	95	90*	30.6	4.9*	-	Possible error in sample collection
							1447	1512	104	99	28.8	2.5		
7+400 7+484			29-Aug-20			1&5	1447	1600	102	95*	31.9	6.2*	EMRSBP-001	Hydrometer indicates incorrect proctor
							1447	1600	96	**90***	28.8	2.1		
							-	-	-	-	27.4	5.1		Sept 6 moisture check before placing L3 (7+452)
							-	-	-	-	25.8	3.5		Sept 7 moisture check before placing L3 (7+473)
7+485 7+552		30-Aug-20				2	1447	1700	95	117*	31.5	**9.3***	-	
							1477	1729	116	98*	21.7	3.0*		Sept 10 install secondary station (excavate and recompact)
							1477	1729	111	93	23.7	5.7		Sept 10 install primary station (excavate and recompact)
7+469 7+545		2-Sep-20				2	1447	1712	98	**86***	27.9	3.9*	EMRS-BP-002	Compaction test #802 Hydrometer indicates incorrect proctor
							-	-	-	-	26.3	**7.1**		Sept 8 moisture check before placing L3 (7+528)
							1447	1621	103	92	28.7	6.8		Sept 10 compaction 'Test 1', 5 m away from original Test 802
						1	1447	1712	104	93	28.6	6.7		Sept 10 compaction 'Test 2', vicinity of secondary instrument install
							1447	1712	109	98	23.4	1.5		Sept 10 install secondary station (excavate and recompact)
							1447	1621	109	97	25.3	3.4		Sept 10 compaction 'Test 3', vicinity of primary instrument install

Location	Offset	CCL-L1	CCL-L2	NCL-L3	NCL-L4	Panel Accepted[12345]	Field Max DD Reference	Lab Max DD Reference	% Field Proctor	% Lab Proctor*	% Field Moisture Content	% Wet/Dry Lab OWC*	Borehole Permeameter	Comment
							1447	1621	108	96	24.7	2.8		Sept 10 install primary station (excavate and recompact)
							1700	1700	94	94	22.9	4.7		Compaction test at BP-002Sept 21
7+547 7+625		4-Sep-20				1&5	1447	1700	97	**84***	24.4	4.9*	-	Hydrometer indicates incorrect proctor
							1447	1621	101	91*	24.8	2.3*		Hydrometer indicates incorrect proctor
							1700	1700	102	102	17.5	-0.7*		Sept 15 material check before placing L3
7+545 7+615			5-Sep-20			2	1700	1700	101	101	18.3	0.1	EMRS-BP-003	Sept 15 material check before placing L3
							1512	1565	87	90*	31.8	-0.3*		Sept 26 compaction test / sample on uncovered section of L2 at 7+611
							1512	1564	94	**88***	24.9	4.8*		Oct 3 compaction test / sample at BP-003, 7+610
7+400 7+450				6-Sep-20		3	-	-	-	-	-	-	-	
7+450 7+480				7-Sep-20		3	-	-	-	-	-	-	-	
7+480 7+500				8-Sep-20		3	-	-	-	-	-	-	-	
7+500 7+525				9-Sep-20		3	-	-	-	-	-	-	-	
7+530 7+550				11-Sep-20		3	-	-	-	-	-	-	-	
7+453 7+615	-61 -89	13-Sep-20				4	1700	1700	102	102	19.2	1.0	-	Small section at crest of slope
7+453 7+615	-61 -89		13-Sep-20			4	1700	1700	100	100	19.2	1.0	-	Small section at crest of slope
7+514 7+552	-0.3 -78			14-Sep-20		3	-	-	-	-	-	-	-	

Location	Offset	CCL-L1	CCL-L2	NCL-L3	NCL-L4	Panel Accepted[12345]	Field Max DD Reference	Lab Max DD Reference	% Field Proctor	% Lab Proctor*	% Field Moisture Content	% Wet/Dry Lab OWC*	Borehole Permeameter	Comment
7+530 7+550	-0.3 -78				14-Sep-20	3	-	-	-	-	-	-	-	
7+550 7+570	-3 -82			15-Sep-20		3	-	-	-	-	-	-	-	
7+568 7+614	-4 -86			16-Sep-20		3	-	-	-	-	-	-	-	
7+400 7+445					18-Sep-20	3	-	-	-	-	-	-	-	
7+439 7+472	3 -67				19-Sep-20	3	-	-	-	-	-	-	-	
7+468 7+535	-0.8 -76				20-Sep-20	3	-	-	-	-	-	-	-	
7+530 7+564	-1 -82				21-Sep-20	3	-	-	-	-	-	-	-	
7+564 7+604	0 -83				22-Sep-20	3	-	-	-	-	-	-	-	
7+625 7+705		24-Sep-20				1&5	1512	1633	96	**88***	26.1	**7.2***	-	
							1512	1633	98	91	26.1	6.0		
							1512	1633	95	**88**	27.3	**7.2**		
							1512	1633	95	90*	24.3	0.6*		
							1600	1710	96	**90***	20.2	-0.4*		Sept 26, before L2 placement
							1512	1710	94	**83**	27.6	6.7		Sept 26, before L2 placement
7+706 7+743		26-Sep-20				1&5	1600	1633	97	95	21.3	1.2	-	
							1512	1710	98	**86**	24.7	3.8		
							1512	1710	100	92*	23.6	**-2.6***		
7+618 7+702			26-Sep-20			2	1512	1565	90	**87**	29.1	5.8	EMRS-BP-004	
							1621	1565	97	101	20.0	**-3.3**		
							1512	1565	94	91	26.6	3.3		
							1512	1468	90	93	30.6	4.4		
							1512	1744	93	**79***	29.1	**14.9***		
							1512	1468	88	91	30.5	4.3		
							1512	1468	95	98	26.5	0.3		

Location	Offset	CCL-L1	CCL-L2	NCL-L3	NCL-L4	Panel Accepted[12345]	Field Max DD Reference	Lab Max DD Reference	% Field Proctor	% Lab Proctor*	% Field Moisture Content	% Wet/Dry Lab OWC*	Borehole Permeameter	Comment
							1512	1468	93	96	29.3	3.1		
							1512	1468	90	**76***	27.7	**-4.4%**		
							1512	1468	93	96	25.7	-0.5		
							1512	1643	105	96	18	**-2.4**		October 5, 7+699 o/s -61m BP4 location
7+702 7+735			27-Sep-20			4	1512	1468	96	102*	24.3	**-5.5***	-	
							1512	1468	94	97	27.0	0.8		
7+612 7+680				28-Sep-20		3	-	-	-	-	-	-	-	
7+727				29-Sep-20		3	-	-	-	-	-	-	-	
7+600 7+654					30-Sep-20	3	-	-	-	-	-	-	-	
7+650 7+725					2-Oct-20	3	-	-	-	-	-	-	-	
7+740 0+060	3-Oct-20					4	1512	1638	92	**88***	29.0	3.9*	-	
							1512	1638	96	**88**	25.3	5.1		Test 518
							1512	1468	90	93*	30.0	3.1*		Test 519
							1512	1468	89	94*	28.5	-0.5*		Test 520
							1512	1638	92	**85**	29.7	**9.5**		Test 518A (retest same area as 518 after additional compaction)
							1512	1638	87	**80**	31.5	**11.3**		Test 518B (retest same area as 518 after additional compaction)
							1512	1468	93	96	26.1	-0.1		Test 519A (retest same areas as 519 after additional compaction)
							1512	1468	99	102	22.6	**-3.6**		Test 520A (retest same area as 520 after additional compaction)
							1512	1468	95	98	25.6	-0.6		
							1512	1468	99	96*	24.6	2.8*		

Location	Offset	CCL-L1	CCL-L2	NCL-L3	NCL-L4	Panel Accepted[12345]	Field Max DD Reference	Lab Max DD Reference	% Field Proctor	% Lab Proctor*	% Field Moisture Content	% Wet/Dry Lab OWC*	Borehole Permeameter	Comment
							1512	1468	91	93	29.8	3.6		
0+060 0+115		4-Oct-20				1&5	1512	1646	155	143	30.7	**9.6**	-	
							1512	1646	95	**89***	24.9	0.6*		
							1512	1468	87	90	32.0	5.8		
							1512	1468	86	92*	30.2	-0.3*		
							1512	1468	88	91	32.3	6.1		
							1512	1468	92	94	29.1	2.9		
							1512	1468	92	**83***	22.3	3.6*		
7+733 7+755			4-Oct-20			1	1512	1643	105	97	24.9	4.5	-	
7+795 0+008		5-Oct-20				4	-	-	-	-	-	-	-	Small section near toe
7+755 7+810			5-Oct-20			4&5	1512	1643	103	94*	26.8	**8.4***	-	
							1512	1643	106	97	26	5.6		
							1512	1643	104	96*	26.1	4.4*		
							1512	1643	105	97	25.6	5.2		
							1512	1643	105	96	26.1	5.7		
0+008 0+118		6-Oct-20				4&5	1512	1728	117	97*	18.1	6.4*		Small section near toe
							1512	1728	113	96*	19.8	5.3*		
7+778 0+104			6-Oct-20			4&5	1512	1643	105	97	25.6	5.2	-	
							1512	1643	107	100*	23.9	1.8*		
							1512	1643	106	95*	23.9	**7.2***		
							1512	1643	99	91*	28.2	**7.4***		
							1512	1643	101	90*	26.5	**9.2***		
							1512	1643	103	94	25.9	5.5		
							1512	1643	108	99*	23.1	2.9*		
							1512	1643	107	95*	23.7	**8.3***		
7+733 7+756				8-Oct-20		3	-	-	-	-	-	-	-	
7+756 7+780	-10 -90			9-Oct-20		3	-	-	-	-	-	-	-	
0+062 0+0104			9-Oct-20			4&5	1512	1728	113	96*	19.8	5.7*	-	
							1512	1728	114	97*	18.3	4*		
7+769 7+843	8 -88			10-Oct-20		3	-	-	-	-	-	-	-	

Location	Offset	CCL-L1	CCL-L2	NCL-L3	NCL-L4	Panel Accepted[12345]	Field Max DD Reference	Lab Max DD Reference	% Field Proctor	% Lab Proctor*	% Field Moisture Content	% Wet/Dry Lab OWC*	Borehole Permeameter	Comment
0+015 0+116	-1 -70			11-Oct-20		3	-	-	-	-	-	-	-	
7+725 7+800	-90 -12				20-Oct-20	3	-	-	-	-	-	-	-	
7+800 0+055	-87 -2				21-Oct-20	3	-	-	-	-	-	-	-	
0+055 0+088	-75 0				22-Oct-20	3	-	-	-	-	-	-	-	
0+069 0+095	0 -77				23-Oct-20	3	-	-	-	-	-	-	-	
0+095 0+113					24-Oct-20	3	-	-	-	-	-	-	-	

Notes:
Date of completion refers to date of final lift survey
1 - Visual inspection along with associated water content used to determine if panel was acceptable
2 - Area identified for borehole permeameter testing to ensure panel suitability and final approval
3 –Acceptable conditions for placement of NCL
4 – Area meets Technical Specifications
5 - Refer to Section **Error! Reference source not found.** for further discussion on testing results

*Indicates a lab correction for moisture content has been applied to dry density measurements when calculating percent of lab proctor, or that the lab moisture content was used when comparing to optimum water content
Bolded values indicate the result is outside of the range of outliers for failed tests indicated in the Technical Specifications

2 DAILY REPORTS

Rainy River EMRS
Daily Progress Reports

Date:	Aug 26, 2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Weather: Cloudy

Precipitation 0 mm

Wind: Moderate

Temperature (High/Low): 27 / 16

Humidity: 60 to 80%

Meeting Summaries:

Okane representatives on site observing the placement and materials.

Work Location and Tasks:

Task Description	Location of Work	Equipment & Personnel Used
Pushing and placing lift 1 CCL	7+400 - 7+475	Dozers D8T, D65PX
Moving CCL for dozers	7+400 - 7+475	Excavator 210
Packing lift 1 CCL	7+400 - 7+450	Packer 211

Description of CCL Material:

Dark grey, 30% moisture, pliable.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable		✔	Bulking in lift 1 CCL
Water Content within Acceptable Range	✔		
Density within Acceptable Range	✔		
Corrected Actions Taken			

Testing and Sampling Completed:

Trial testing only.

General Daily Remarks:

First day went well, placed and pushed lift 1 CCL from 7+400 - 7+475, -10m - -54m. This area was not at final lift grade.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Garry Noga

Digitally signed by Garry Noga
Date: 2020.08.28 11:26:10 -04'00'

CQC Representative:

Ted Linley

Digitally signed by Ted Linley
Date: 2020.08.28 11:26:39 -04'00'

PHOTOGRAPHS

Photo #: 1

D65 pushing lift 1, +/- 7+450

Photo #: 2

Material placed being a pliable dark grey.

Photo #: 3

Excavator bailing CCL material for D65 dozer to push down the slopes.

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Aug 27, 2020	**Owner/Client:**	New Gold Inc.
Day:	Thursday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Weather: Clear

Precipitation 0 mm

Wind: Moderate

Temperature (High/Low): 25 / 13

Humidity: 20 to 40%

Meeting Summaries:

Okane sent QC material descriptions and pictures of how to describe clay.

Work Location and Tasks:

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing lift 1 CCL	7+475 - 7+500	Dozer D65, Excavator 210
Lift 1 CCL grading	7+400 - 7+485	Dozer D65, Excavator 210
Packing lift 1 CCL	7+400 - 7+485	Packer 211
Pushing and placing lift 2 CCL	7+400 - 7+430	Dozer D65, Excavator 210

Description of CCL Material:

CCL dark grey, very pliable, sticky.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/- 0.25m
Water Content within Acceptable Range	✔		30.6%,31.9%,28.8%
Density within Acceptable Range	✔		
Corrected Actions Taken			

Testing and Sampling Completed:

Compaction lift 1:
Refer to tests 500, 501
Compaction lift 2:
Refer to test 800

Samples:
EMRS-A1-L1-018
7+422.2, o/s -38.5m, elev 397.1m

EMRS-A1-L2-019
7+409.5, o/s -35.5m, elev 396.7m

General Daily Remarks:

NG pushed and placed lift 1 CCL from 7+400 - 7+785. This area is now surveyed, compaction and a sample taken, NG can now place the second lift on this area. NG started placing the lift 2 between 7+400 - 7+435.
Started excavating the key trench.
Packing was continuous all day.
The surface provided by NG is not the greatest, I am needing to bounce between 2 surfaces because one surface spacing is 10m and the other is 2.5m, ideally 5m or 6m is best. The surface provided is causing the lifts to be +/- 0.4m.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :
Garry Noga
Digitally signed by Garry Noga
Date: 2020.08.28 12:15:56 -04'00'

CQC Representative:
Ted Linley
Digitally signed by Ted Linley
Date: 2020.08.28 12:16:53 -04'00'

PHOTOGRAPHS

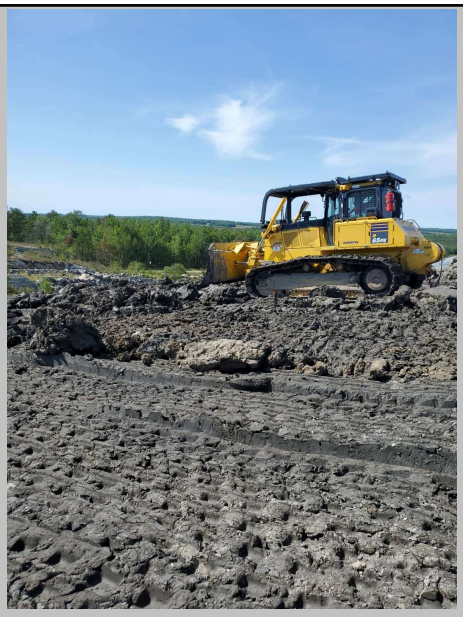

Photo #: 1

D65 placing lift 2, +/- 7+420.

Photo #: 2

Excavator 210 excavating the key trench at the bottom of slope, +/- 7+450.

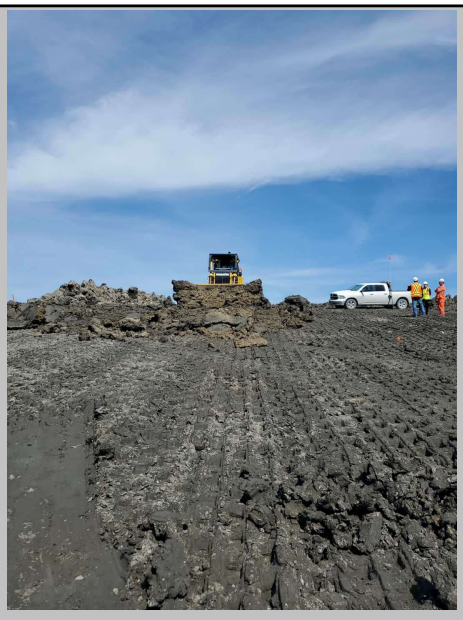

Photo #: 3

Lift 2 CCL material very sticky, dark grey, pliable.

Photo #: 4

Continuous packing being performed on both lifts 1 - 2.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Aug 28, 2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Weather: Showers

Precipitation 0 - 5 mm

Wind: High

Temperature (High/Low): 24 / 16

Humidity: 60 to 80%

Meeting Summaries:

Okane representatives on site helping with soil identification.

Work Location and Tasks:

Task Description	Location of Work	Equipment & Personnel Used
Pushing and placing lift 2 CCL	7+400 - 7+450	Dozer D65

Description of CCL Material:

Dark grey, sticky, very pliable.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/- 0.250m
Water Content within Acceptable Range			
Density within Acceptable Range			
Corrected Actions Taken			

Testing and Sampling Completed:

No testing or samples taken.

General Daily Remarks:

Early morning rain caused the lack of production wind really dried the clay after the rain.
Placing and pushing lift 2 CCL between 7+400 - 7+450, o/s -30m - -50m.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Lift 2 CCL drying out after the rain.

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Aug 29, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Weather: Clear

Precipitation 0 mm

Wind: Moderate

Temperature (High/Low): 23 / 12

Humidity: 0 to 20%

Meeting Summaries:

O'Kane representatives very pleased with production and placement of the 2 lifts of CCL. They are happy with the moisture content of the placed material.

Work Location and Tasks:

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing lift 2 CCL	7+400 - 7+484	Dozers D65 & 155AX
Packing lift 2 CCL	7+400 - 7+484	Packer 211
Pushing & placing lift 1 CCL	7+485 - 7+535	Dozers D65 & 155AX
Excavated key trench	7+442 - 7+551	Excavator 210

Description of CCL Material:

Dark grey, sticky, very pliable clumpy large lumps not being able to be broken by hand.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/- 0.25m
Water Content within Acceptable Range	✔		28.8%
Density within Acceptable Range	✔		96%
Corrected Actions Taken			

Testing and Sampling Completed:

Compaction Test # 801, lift 2 CCL.
Refer to attached density form.

Sample # EMRS-L2-020.
Moisture content only.

General Daily Remarks:

NG pushed and placed lift 2 CCL from 7+400 - 7+484. This area is now surveyed, compaction and a sample taken. NG started placing the lift 1 between 7+485 - 7+535.
Continued excavating the key trench.
Packing was continuous all day.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Lift 2 CCL backfill key trench +/- 7+450.

Photo #: 2

Excavating key trench to bedrock +/- 7+460.

Photo #: 3

Dozers D65 & 155AX pushing and placing lift 2 CCL, +/- 7+460.

Photo #: 4

Packer continuously packing lift 2 CCL.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Lift 2 CCL, 7+418, o/s 35.3m
sample - EMRS-L2-020

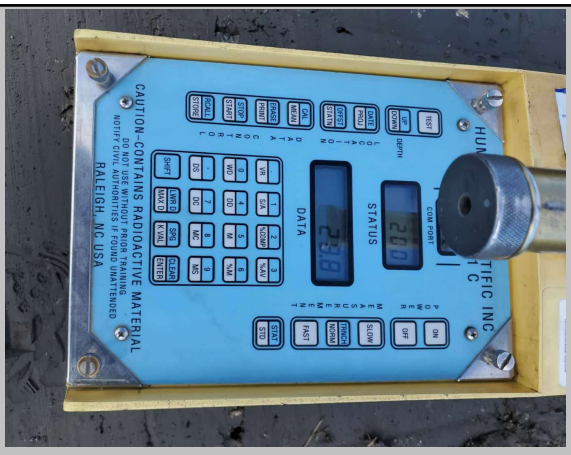

Photo #: 6

Lift 2 CCL, 7+418, o/s 35.3m
density test showing a 28.8% moisture content.

Photo #: 7

Density test on lift 2 CCL at 7+418, o/s 35.3m.

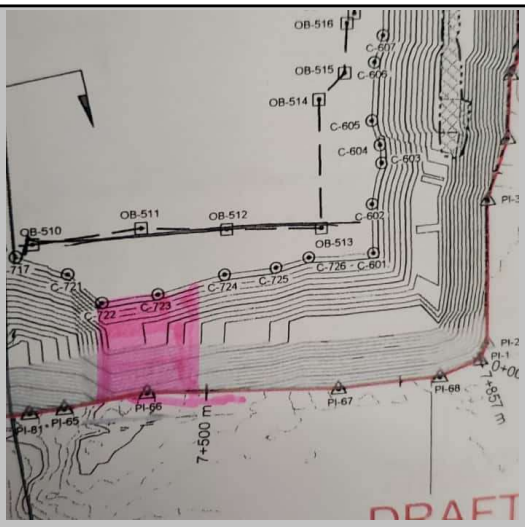

Photo #: 8

Approximate location of CCL placed.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Aug 30, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Weather: Cloudy

Precipitation 0 mm

Wind: Moderate

Temperature (High/Low): 24 / 8

Humidity: 0 to 20%

Meeting Summaries:

Work Location and Tasks:

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing lift 1 CCL	7+485 - 7+552	Dozer's D65 & 155AX
Packing lift 1 CCL	7+485 - 7+552	Packer 211
Pushing & placing lift 2 CCL	7+484 - 7+500	Dozer's D65 & 155AX
Excavated key trench	7+551 - 7+586	Excavator 210

Description of CCL Material:

Dark grey, sticky, very pliable clumpy large lumps not being able to be broken by hand. Some light brown Brenna now visible in the dark grey CCL. Sample taken.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/- 0.25m
Water Content within Acceptable Range	✔		28.8%
Density within Acceptable Range	✔		95%
Corrected Actions Taken			

Testing and Sampling Completed:

Compaction Test # 502, lift 1 CCL.
Refer to attached density form.

Sample # EMRS-L1-021.
Moisture content & max dry density.

General Daily Remarks:

NG pushed and placed lift 1 CCL from 7+485 - 7+552. This area is now surveyed, compaction and a sample taken. NG started placing the lift 2 between 7+484 - 7+500.
Continued excavating the key trench.
Packing was continuous all day.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Digitally signed by

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

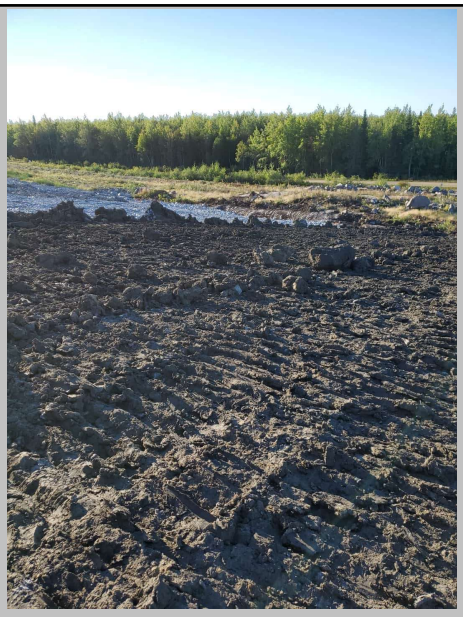

Photo #: 1

Placing lift 1 CCL, +/- 7+530.

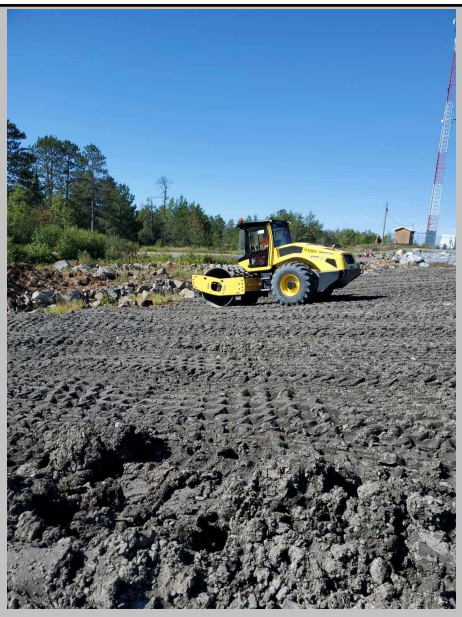

Photo #: 2

Packer continuously packing lift 1 CCL.

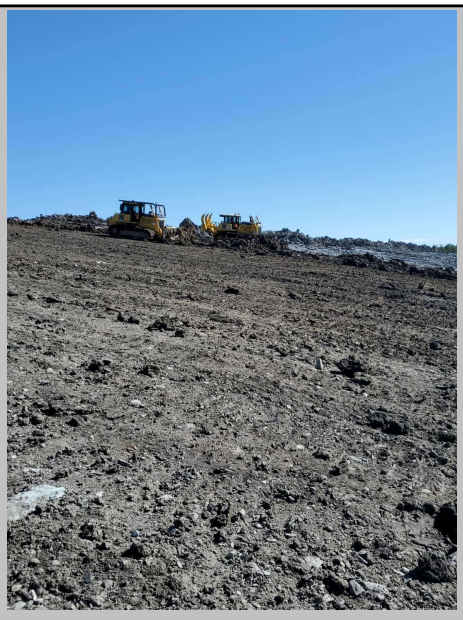

Photo #: 3

Both dozer's pushing and placing lift 1 CCL, +/- 7+530.

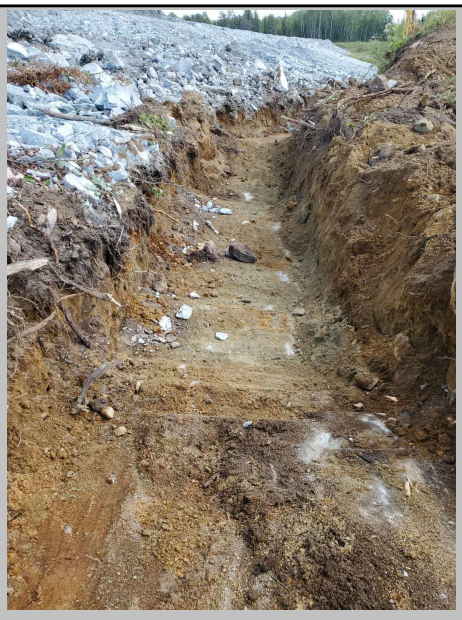

Photo #: 4

PAG toe trench excavation to bedrock+/- 7+560.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Trench digging at toe of the PAG, excavation to bedrock +/- 7+570.

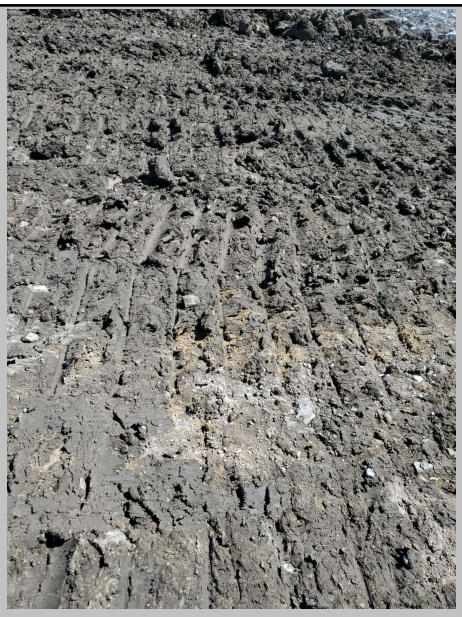

Photo #: 6

Light brown Brenna is now apparent in the dark grey CCL.

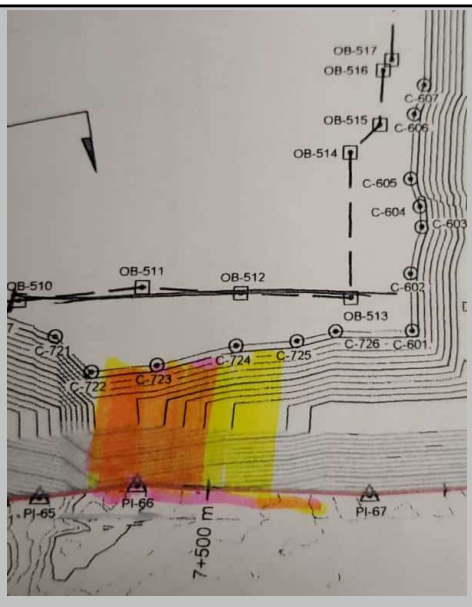

Photo #: 7

Todays lift 2 CCL placement.

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Aug 31, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Weather: Clear

Precipitation 0 mm

Wind: High

Temperature (High/Low): 18 / 12

Humidity: 0 to 20%

Meeting Summaries:

Met with New Gold (Garry) at the EMRS to discuss clay conditions. It was decided that the clay conditions where way to wet to place or slime off.
No work today.

Work Location and Tasks:

Task Description	Location of Work	Equipment & Personnel Used
No work today		

Description of CCL Material:

Very wet from the rain received all night.

Panel Approval:

Panel Description: Not to place today.

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☑	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☑	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☑	☐	No work completed today.

Testing and Sampling Completed:

None.

General Daily Remarks:

Clay material to wet to push and place due to the heavy rains last night.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Digitally signed by

<original signed by>

CQC Representative:

Digitally signed by

<original signed by>

PHOTOGRAPHS

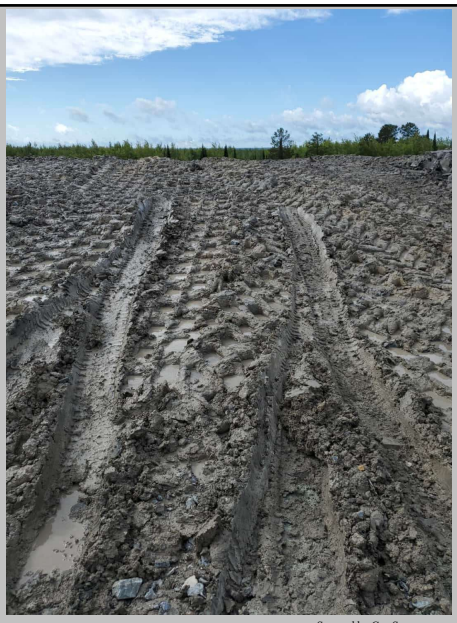

Photo #: 1

Very wet conditions on the CCL.

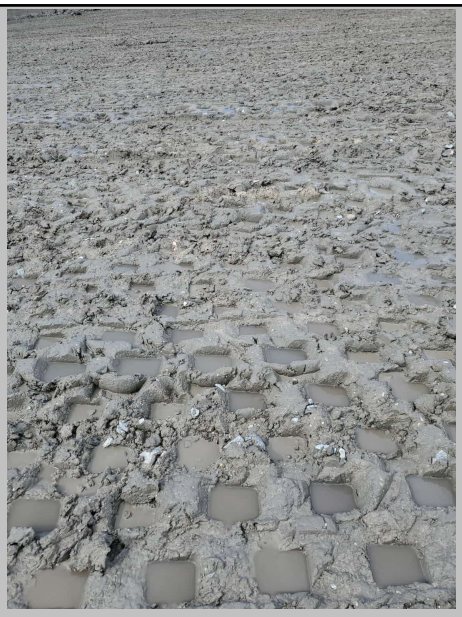

Photo #: 2

All sheep foot depressions filled with water.

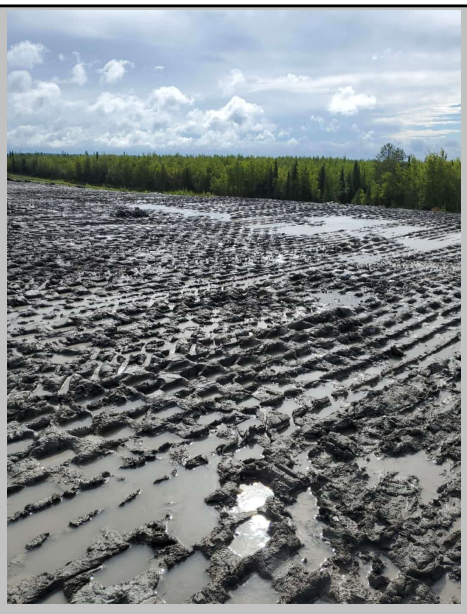

Photo #: 3

Some ponding water. The sun and strong winds today will hopefully dry things up for tomorrow.

Photo #:

Duplicate Page

PHOTOGRAPHS

Photo #:

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Sept 1, 2020	**Owner/Client:**	New Gold Inc.
Day:	Tuesday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Weather: Rain

Precipitation 0 - 5 mm

Wind: Moderate

Temperature (High/Low): 15 / 5

Humidity: 60 to 80%

Meeting Summaries:

Work Location and Tasks:

Task Description	Location of Work	Equipment & Personnel Used
Bulking in lift 2 CCL	7+483 - 7+550	Dozer 155AX

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Dark grey, sticky, very pliable clumpy large lumps not being able to be broken by hand. Material only bulked in due to expecting rains and we are got it late this afternoon. Some light brown clay now visible in the dark grey clay.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/-0.25m
Water Content within Acceptable Range			
Density within Acceptable Range			
Corrected Actions Taken			

Testing and Sampling Completed:

No testing or samples taken today.

General Daily Remarks:

Lift 2 CCL placed approximately 0.1m high so the dozer can trim after the rains. Dozer track packed area before the rain arrived, this way the rain runs off instead of laying in the packer marks this way the clay dries faster.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Andrew Angus

Digitally signed by Andrew Angus
Date: 2020.09.01 18:37:59 -04'00'

CQC Representative:

Ted Linley

Digitally signed by Ted Linley
Date: 2020.09.01 18:36:20 -04'00'

PHOTOGRAPHS

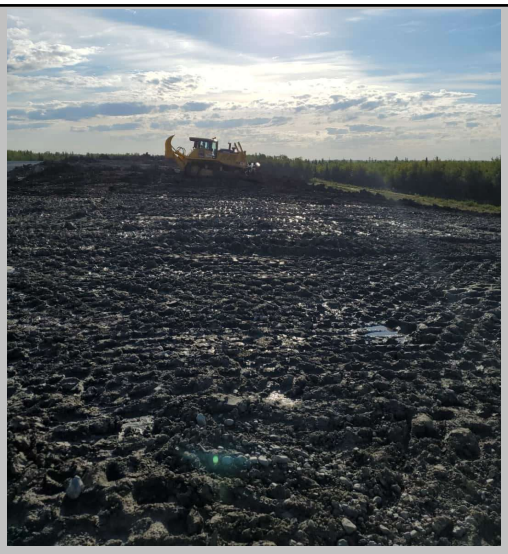

Photo #: 1

Dozer 155AX bulking in lift 2 CCL +/- 7+520.

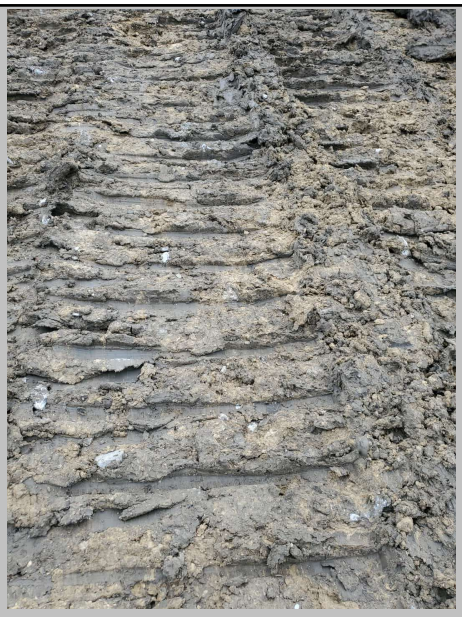

Photo #: 2

Light brown clay visible in the dark grey clay.

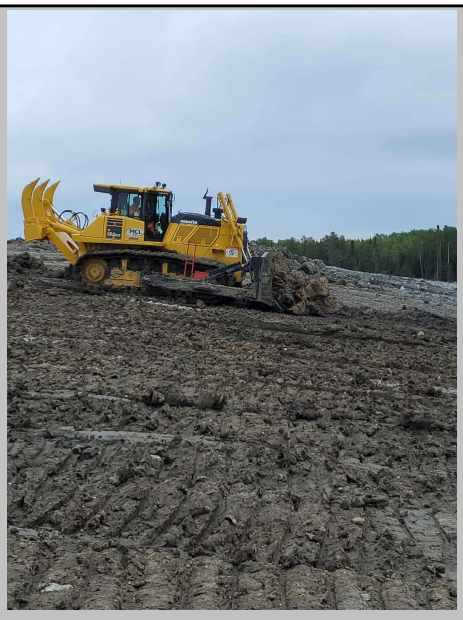

Photo #: 3

Dozer 155AX bulking in lift 2 CCL +/- 7+540.

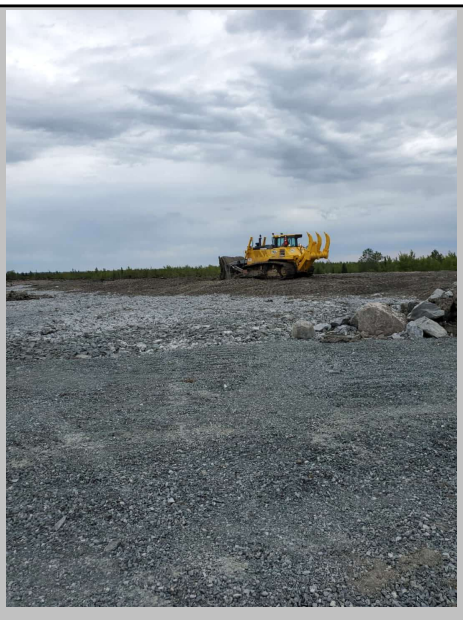

Photo #: 4

Dozer 155AX moving around lift 2 CCL to fill some low areas.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Sept 2, 2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather Cloudy Precipitation 0 mm

Temperature (High/Low) 15 / 9 Humidity 0 to 20% Wind Moderate

Afternoon Conditions Weather Cloudy Precipitation 0 mm

Temperature (High/Low) 19 / 9 Humidity 20 to 40% Wind Moderate

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing and placing lift 2 CCL	7+469 - 7+545	Dozer 65
Pushing and placing lift 1 CCL	7+552 - 7+620	Dozer 65 & 155
Packing	7+469 - 7+545	Packer 211

Key-in Trench:

Location	CCL Contact Material	Comment
7+586 - 7+620	Silty light brown clay/rock	Lots of water coming into trench

Description of CCL Material:

Dark grey, sticky, very pliable clumpy large lumps not being able to be broken by hand. Small amounts of light brown clay.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/- 0.25m
Water Content within Acceptable Range	✔		27.9%
Density within Acceptable Range	✔		1414
Corrected Actions Taken			

Testing and Sampling Completed:

Compaction Test # 802, lift 2 CCL.
Refer to attached density form.

Sample # EMRS-L2-022.
Moisture content & max dry density requested from sample.

General Daily Remarks:

Sample loads from the 830 mine trucks delivered where determined by NG and QC to be nice dark grey clay, to be used for the CCL layers. 830 mine trucks dumping CCL material between 7+840 and 0+060.
NG shaping lift 2 CCL from 7+469 - 7+545. This area is now surveyed, compaction test and a sample taken. NG started placing the lift 1 between 7+552 - 7+620.
Packing was continuous all day.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

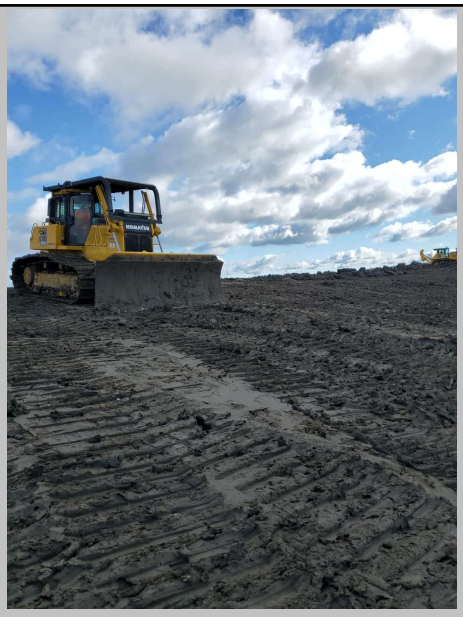

Photo #: 1

D65 final grading lift 2 CCL +/- 7+500.

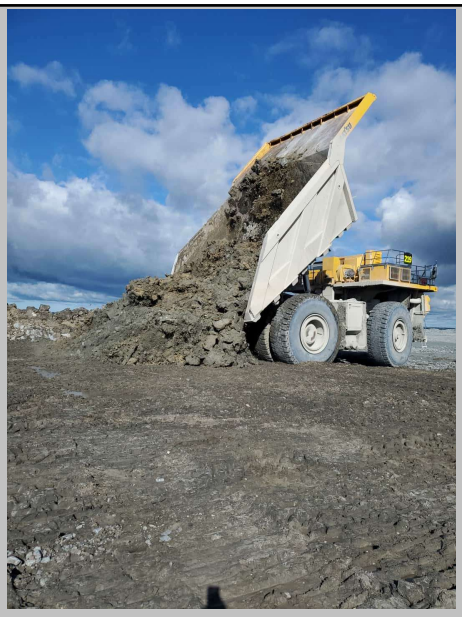

Photo #: 2

830 mine truck dumping sample material for NCL lifts.

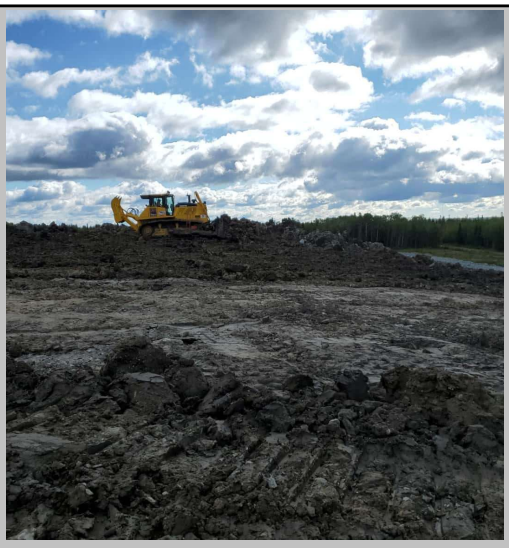

Photo #: 3

155AX Dozer pushing and placing lift 1 CCL +/- 7+575.

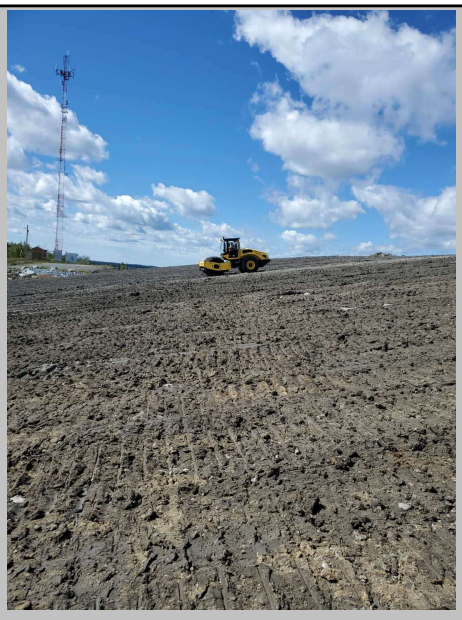

Photo #: 4

Packer continuously packing +/-7+490.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Dozer 155AX bulking in lift 1 CCL +/- 7+500.

Photo #: 6

Excavating key trench to bedrock/light brown clay.

Photo #: 7

Excavating key trench and water started to infiltrate trench.

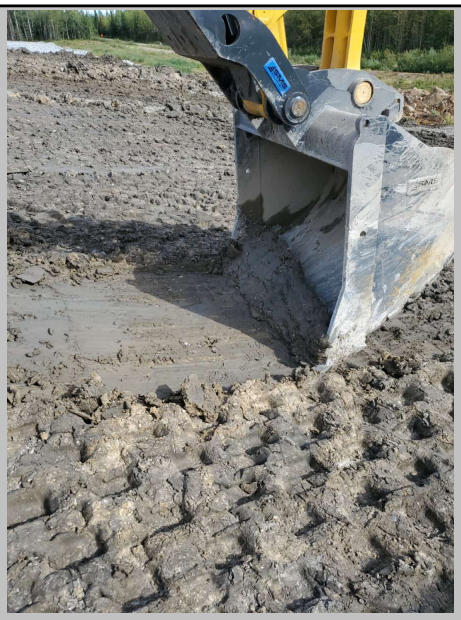

Photo #: 8

210 excavator preparing pad for samples and density test.

Duplicate Page

PHOTOGRAPHS

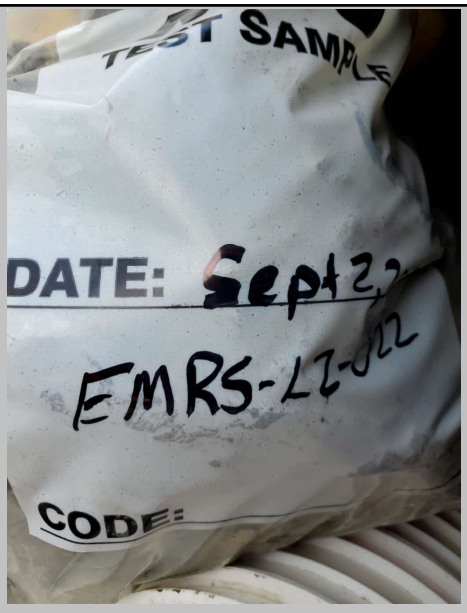

Photo #: 9

Sample EMRS-L2-022

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Thursday	**Owner/Client:**	New Gold Inc.
Day:	September 3, 2020	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather Cloudy Precipitation 0 mm

Temperature (High/Low) 14 / 9 Humidity 0 to 20% Wind High

Afternoon Conditions Weather Cloudy Precipitation 0 mm

Temperature (High/Low) 16 / 14 Humidity 0 to 20% Wind High

Meeting Summaries

QA & QC meeting today held in the Admin building.
Discussed original drone surface, hopefully we will get a much nicer surface provided by NG.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushed and placed lift 1 CCL	7+620 - 7+650	Dozer 155AX

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Very wet on surface.
Dark grey, sticky, very pliable clumpy large lumps not being able to be broken by hand. Small amounts of light brown clay.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		Rained all last night
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/- 0.25m
Water Content within Acceptable Range			
Density within Acceptable Range			
Corrected Actions Taken			

Testing and Sampling Completed:

No testing or samples taken.

General Daily Remarks:

Clay very greasy after last nights hard rain fall.
830 mine trucks are hauling in CCL/NCL material today.
Pushing and placing lift 1 CCL from 7+620 - 7+650.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

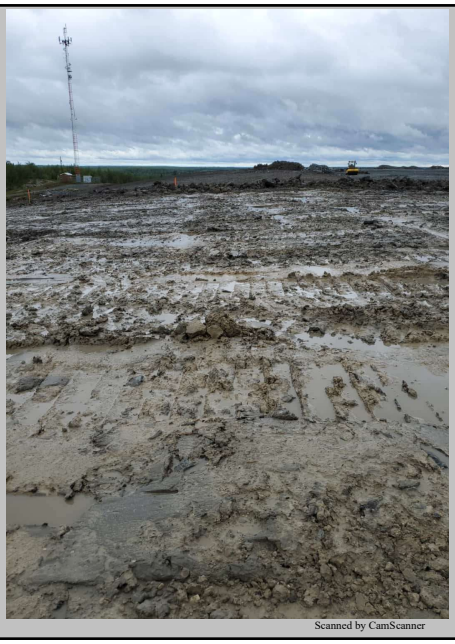

Photo #: 1

Clay conditions after last nights rain.

Photo #: 2

Clay conditions after last nights rain.

Photo #: 3

Clay conditions after last nights rain.

Photo #: 4

830 mine truck preparing to dump CCL/NCL.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Dozer 155AX pushing lift 1 CCL +/- 7+640.

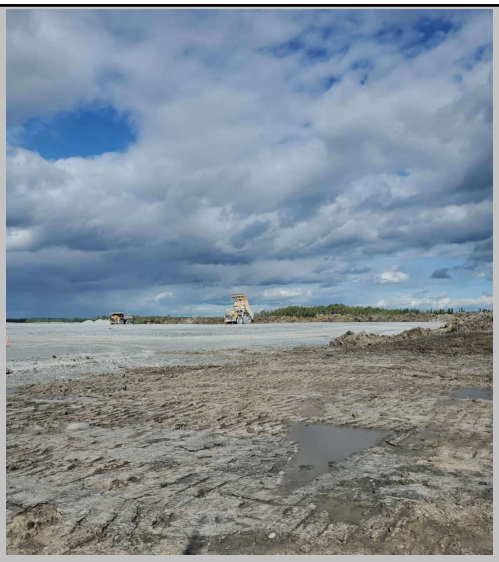

Photo #: 6

830 mine trucks dumping CCL/NCL on the East facing slope.

Photo #: 7

Dozer 155AX pushing lift 1 CCL +/- 7+645.

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Sept 4, 2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 15 / 4 Humidity: 0 to 20% Wind: Low

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 20 / 15 Humidity: 0 to 20% Wind: Moderate

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Push and place lift 1 CCL	7+547 - 7+625	Dozer D65
Push and place lift 1 NCL	7+400 - 7+420	Dozer 155AX
Packing lift 1 CCL	7+547 - 7+625	Packer 211

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Dark grey, sticky, very pliable clumpy large lumps not being able to be broken by hand. Small amounts of light brown clay.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/- 0.25m CCL / +/-0.5m NCL
Water Content within Acceptable Range	✔		
Density within Acceptable Range	✔		
Corrected Actions Taken			

Testing and Sampling Completed:

Compaction Test # 503, lift 1 CCL.
Refer to attached density form.

Sample # EMRS-L1-023.
Moisture content requested from sample.

General Daily Remarks:

830 mine trucks dumping CCL/NCL clay.
NG shaping lift 1 CCL from 7+547 - 7+625. This area is now surveyed, compaction test and a sample taken. NG started placing the lift 1 NCL between 7+400 - 7+420.
Packing was continuous all day.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 1

D65 dozer placing and grading lift 1 CCL +/- 7+590.

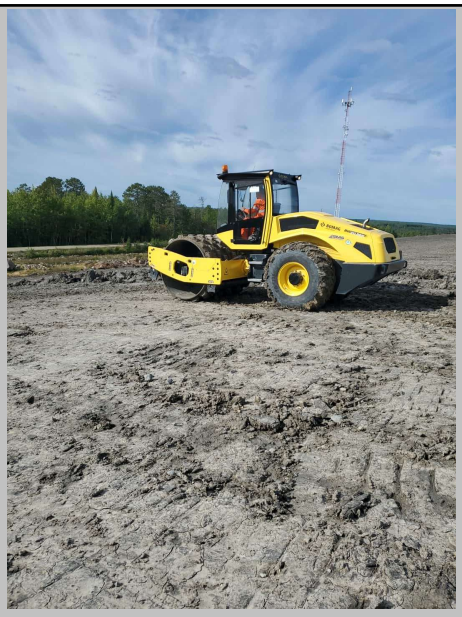
Scanned by CamScanner

Photo #: 2

Packer 211 continuous packing lift 1 CCL.

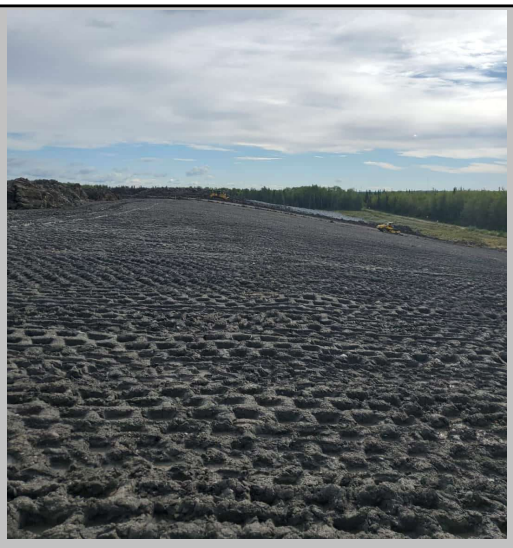
Scanned by CamScanner

Photo #: 3

D65 dozer and packer 211 working on lift 1 CCL +/- 7+575.

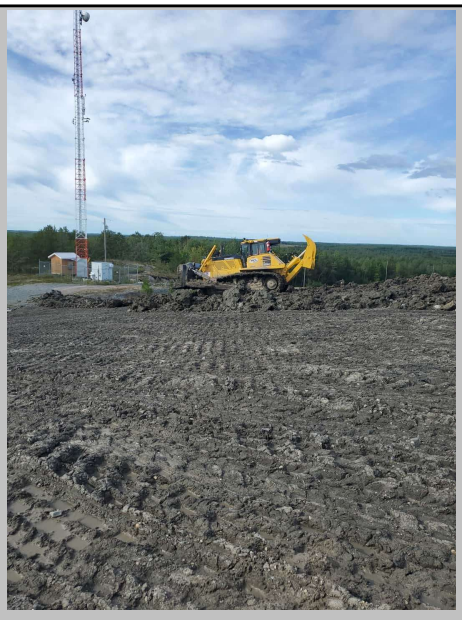
Scanned by CamScanner

Photo #: 4

155AX dozer pushing and placing lift 3 NCL +/- 7+410.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 5

830 mine trucks stockpiling CCL/NCL.

Scanned by CamScanner

Photo #: 6

D65 dozer grading lift 1 CCL +/- 7+600.

Scanned by CamScanner

Photo #: 7

Packing lift 1 CCL +/- 7+560.

Scanned by CamScanner

Photo #: 8

Compaction test 503 at 7+603, o/s -63.1m.

Duplicate Page

PHOTOGRAPHS

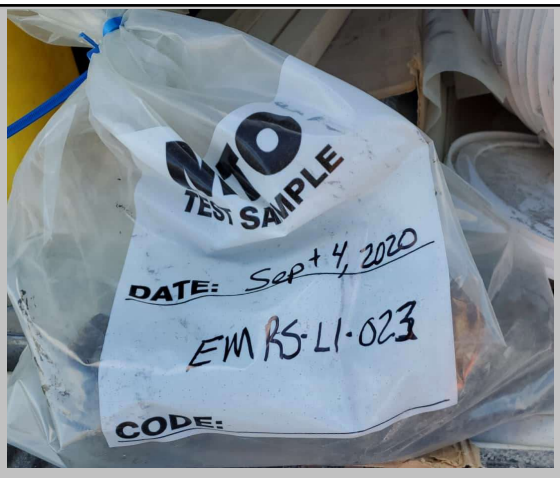

Photo #: 9

Sample EMRS-L1-023 at 7+603, o/s -63.1m.

Photo #: 10

Moisture content shot on lift 2 CCL 7+423, o/s -42.2 during placement of lift 3 NCL.

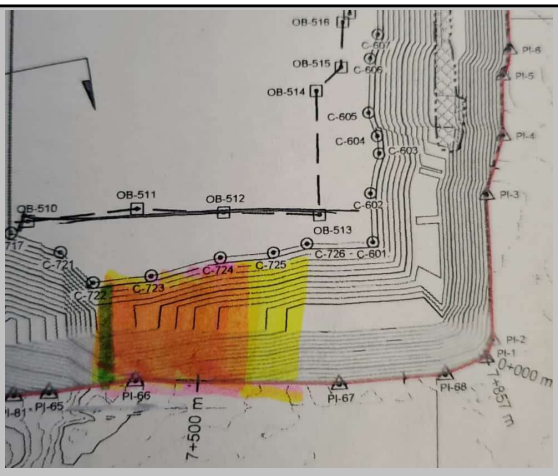

Photo #: 11

Green - lift 3 NCL Pink - lift 2 CCL
Yellow - lift 1 CCL

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Sept 5, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 16 / 7 Humidity: 0 to 20% Wind: Still

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 21 / 16 Humidity: 0 to 20% Wind: Low

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing lift 2 CCL	7+545-7+615,o/s-66m - 2m	D65 & 155 dozers
Pushing & placing lift 3 NCL	7+420 - 7+480	D65 & 155 dozers
Packing	7+545 - 7+615	packer 211

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Dark grey, sticky, very pliable clumpy large lumps not being able to be broken by hand. Small amounts of light brown clay.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/- 0.25m CCL, 05m NCL
Water Content within Acceptable Range	✔		
Density within Acceptable Range	✔		
Corrected Actions Taken			

Testing and Sampling Completed:

Compaction Test # 803, lift 2 CCL.
Refer to attached density form.

Sample # EMRS-L2-024.
Moisture content and dry density requested from sample.

General Daily Remarks:

NG shaping lift 2 CCL from 7+545 - 7+615. This area is now surveyed, compaction test and a sample taken. NG continued placing lift 3 NCL between 7+420 - 7+480.
Packing was continuous all day.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :
Digitally signed by
<original signed by>

CQC Representative:
Digitally signed by
<original signed by>

PHOTOGRAPHS

Photo #: 1

Bulked in lift 2 CCL, +/- 7+580.

Photo #: 2

D65 grading lift 2 CCL, +/- 7+560.

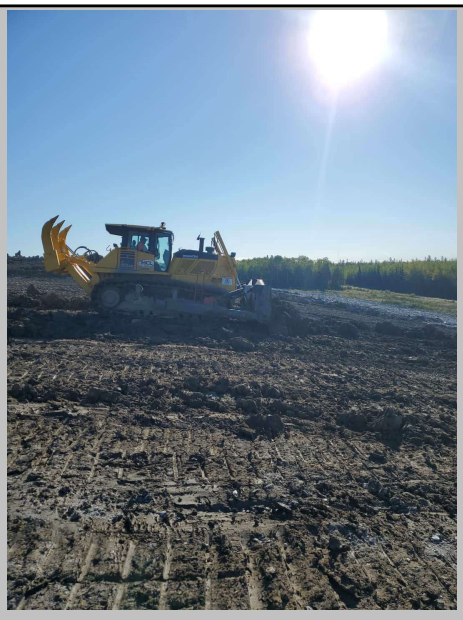

Photo #: 3

155AX dozer bulking in lift 2 CCL, 7+600.

Photo #: 4

D65 dozer grading lift 2 CCL, +/- 7+585.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 5

Dark grey material with small amounts of light brown clay.

Scanned by CamScanner

Photo #: 6

Continuous packing.

Scanned by CamScanner

Photo #: 7

Moisture content on lift 2 CCL prior to placing lift 3 NCL, 7+463.4, o/s -48.9m.

Scanned by CamScanner

Photo #: 8

D65 & 155AX dozers bulking and grading lift 3 NCL, +/- 7+440.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

210 excavator preparing density and sample location.

Photo #: 10

Sample EMRS-L2-024, 7+568, o/s -30.9m.

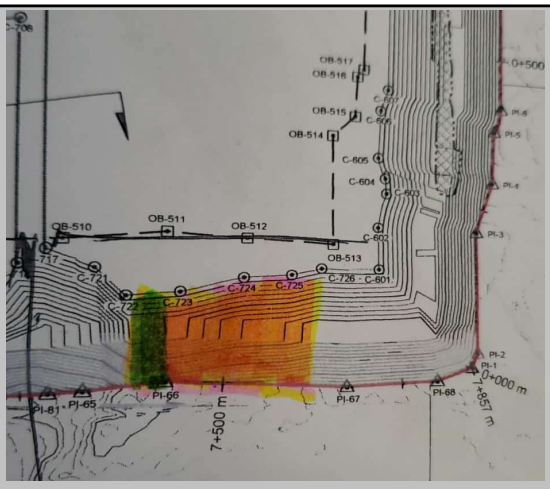

Photo #: 11

Todays production.

Photo #: 12

Rainy River EMRS
Daily Progress Reports

Date:	Sept 6, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Cloudy; Precipitation: 0 mm

Temperature (High/Low): 14 / 12; Humidity: 0 to 20%; Wind: Low

Afternoon Conditions Weather: Cloudy; Precipitation: 0 mm

Temperature (High/Low): 21 / 14; Humidity: 0 to 20%; Wind: High

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing lift 3 NCL	7+400 - 7+480	155AX dozer & 210 excavator
Grading lift 3 NCL	7+400 - 7+450	D65 dozer & 210 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Dark grey, sticky, very pliable clumpy large lumps. Small amounts of light brown clay. Medium amounts of blast rock in the clay.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		Lift 3 NCL
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/- 0.5m
Water Content within Acceptable Range	✔		27.4% lift 2 CCL prior to NCL
Density within Acceptable Range			
Corrected Actions Taken			

Testing and Sampling Completed:

Only tested moisture content on lift 2 CCL (27.4%) prior to placing lift 3 NCL.

General Daily Remarks:

NG shaping lift 3 NCL from 7+400 - 7+450. This area is now surveyed. NG continued placing lift 3 NCL between 7+400 - 7+480.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Digitally signed by

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Lift 3 NCL and lift 2 CCL.

Photo #: 2

Lift 3 NCL +/- 7+420 grading.

Photo #: 3

Bulking in lift 3 NCL +/- 7+460.

Photo #: 4

Fine grading lift 3 NCL +/- 7+430.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

210 excavator assisting with the bulking in of lift 3 NCL.

Photo #: 6

D65 dozer grading lift 3 NCL +/- 7+445.

Photo #: 7

Photo #: 8

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 7, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather Cloudy Precipitation 0 mm

Temperature (High/Low) 9 / 7 Humidity 0 to 20% Wind High

Afternoon Conditions Weather Cloudy Precipitation 0 mm

Temperature (High/Low) 11 / 9 Humidity 0 to 20% Wind High

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing lift 3 NCL	7+450 - 7+490	155AX dozer & 210 excavator
Grading lift 3 NCL	7+450 - 7+480	D65 dozer & 210 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Dark grey, sticky, very pliable clumpy large lumps. Small amounts of light brown clay. Medium amounts of blast rock in the clay.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		Lift 3 NCL
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/-0.5m
Water Content within Acceptable Range	✔		25.8% lift 2 CCL prior to NCL
Density within Acceptable Range			
Corrected Actions Taken			

Testing and Sampling Completed:

Only tested moisture content on lift 2 CCL (25.8%) prior to placing lift 3 NCL.

General Daily Remarks:

NG shaping lift 3 NCL from 7+450 - 7+480. This area is now surveyed. NG continued placing lift 3 NCL between 7+450 - 7+490.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

Digitally signed by

<original signed by>

PHOTOGRAPHS

Photo #: 1

210 Excavator assisting with bulking in the NCL.

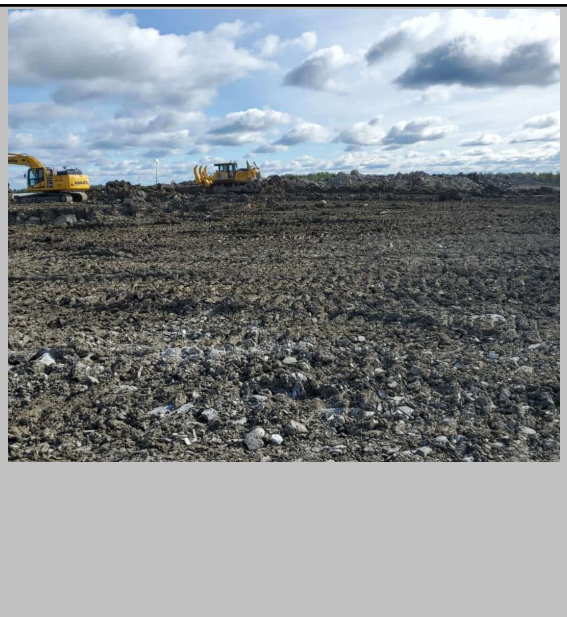

Photo #: 2

155AX dozer pushing and placing lift 3 NCL, +/- 7+470.

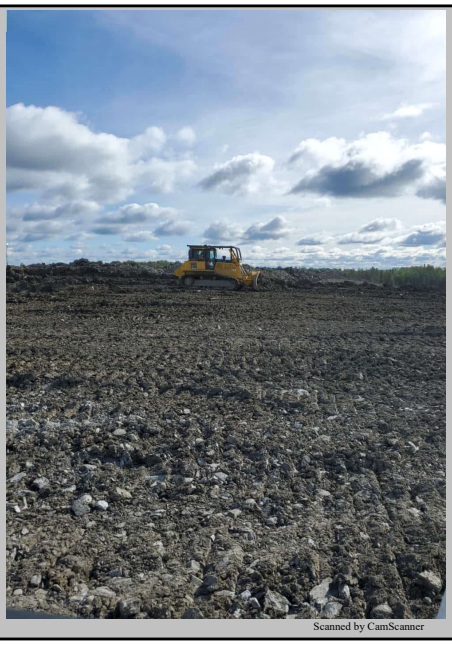

Photo #: 3

D65 dozer grading lift 3 NCL, +/- 7+460.

Photo #: 4

Small amounts of light brown clay in the dark grey clay.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Lift 3 NCL, complete.

Photo #: 6

Bulked in NCL.

Photo #: 7

Lift 3 NCL, +/- 7+470.

Photo #: 8

View from Teeple Road.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

View from Teeple Road.

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 8,2020	**Owner/Client:**	New Gold Inc.
Day:	Tuesday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Cloudy; Precipitation: 0 mm

Temperature (High/Low): 7 / 4; Humidity: 40 to 60%; Wind: Still

Afternoon Conditions Weather: Showers; Precipitation: 0 - 5 mm

Temperature (High/Low): 10 / 7; Humidity: 40 to 60%; Wind: Still

Meeting Summaries

Okane expressed concern that the second lift of CCL that the third lift was currently being placed on may not meet the moisture content requirements as the surface looked fairly dry. NG scraped the surface with the excavator and a moisture test was completed. Moisture content was 26.3% with a rod depth of 200mm.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing lift 3 NCL	7+480 to 7+500	155AX dozer & 210 excavator
Grading lift 3 NCL	7+480 to 7+500	D65 dozer & 210 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Dark grey, sticky, very pliable with clumpy large lumps. Small amounts of light brown clay and sand. Medium amounts of blast rock in the clay.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		Lift 3 NCL
Visual Inspection	✔		
Layer Thickness Acceptable	✔		+/-0.5m
Water Content within Acceptable Range	✔		26.3% lift 2 CCL prior to NCL
Density within Acceptable Range			
Corrected Actions Taken			

Testing and Sampling Completed:

Tested moisture content on lift 2 CCL (26.3%) prior to placing lift 3 NCL.

General Daily Remarks:

NG was shaping lift 3 NCL from 7+480 to 7+500. This area has been surveyed. NG continued placing lift 3 NCL between 7+500 and 7+520.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

210 Excavator assisting with bulking in the NCL as the 155AX dozer and D65 dozer push.

Photo #: 2

155AX dozer and D65 dozer pushing lift 3 NCL, +/- 7+490

Photo #: 3

D65 dozer pushing lift 3 NCL, +/- 7+500

Photo #: 4

210 Excavator bulking material closer to slope

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Okane Bore hole permeameter test set up.

Photo #: 6

Moisture content test at 7+528, o/s -67.4m.

Photo #:

Photo #:

Duplicate Page

Date:	September 9, 2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 6 / 0 Humidity: 80 to 100% Wind: Low

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 13 / 6 Humidity: 80 to 100% Wind: Low

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing lift 3 NCL	7+500 to 7+540	155AX dozer & 210 excavator
Grading lift 3 NCL	7+500 to 7+525	D65 dozer & 210 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Dark grey, sticky, very pliable with clumpy large lumps. Small amounts of light brown clay and sand. Medium amounts of blast rock in the clay.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔	☐	Lift 3 NCL
Visual Inspection	✔	☐	
Layer Thickness Acceptable	✔	☐	+/-0.5m
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took a sample of lift 3 NCL (EMRS-L3-025) and delivered to All North for moisture testing.
Location of sample: N5408581.360, E:428747.326

General Daily Remarks:

NG was shaping lift 3 NCL from 7+500 to 7+525. This area has been surveyed. NG continued placing lift 3 NCL between 7+525 and 7+540

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

D65 dozer pushing lift 3 NCL

Photo #: 2

155AX dozer bulking material to D65 dozer

Photo #: 3

Small amounts of light brown clay in the dark grey clay.

Photo #: 4

D65 dozer grading lift 3 NCL, +/- Sta 7+520

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 10,2020	**Owner/Client:**	New Gold Inc.
Day:	Thursday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Clear; Precipitation: 0 mm

Temperature (High/Low): 10 / 0; Humidity: 40 to 60%; Wind: Moderate

Afternoon Conditions Weather: Clear; Precipitation: 0 mm

Temperature (High/Low): 20 / 10; Humidity: 40 to 60%; Wind: Moderate

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Assist Okane instrument install	7+540	PC490 excavator & 211 packer
Grading lift 3 NCL	7+525 to 7+535	D65 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Dark grey, sticky, very pliable with clumpy large lumps. Small amounts of light brown clay with sand mixed in. Medium amounts of blast rock scattered in the clay.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	+/-0.3m
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☐	☑	to high
Corrected Actions Taken	☑	☐	going to adjust proctor

Testing and Sampling Completed:

Took a sample of lift 2 CCL (EMRS-L2-026) and delivered to All North for moisture testing.
Location of sample: N5408584.269, E:428763.654.

Redid compaction test # 802, lift 2 CCL to check moisture and Dry Density
Compaction test # 504 and #505, lift 1 CCL
Compaction test # 804 and # 805, lift 2 CCL

Refer to attached density form for compaction results.

General Daily Remarks:

NG and I Assisted Okane with installation of soil monitoring instrumentation which required excavating through L2 and L1 CCL to blast rock then back filling in two .25 lifts, packing and testing each lift.

NG continued shaping L3 NCL at sta 7+540.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

D65 and 155AX dozer cleaning section for L1 CCL placement

Photo #: 2

Excavation for Okane instrument at sta 7+540.

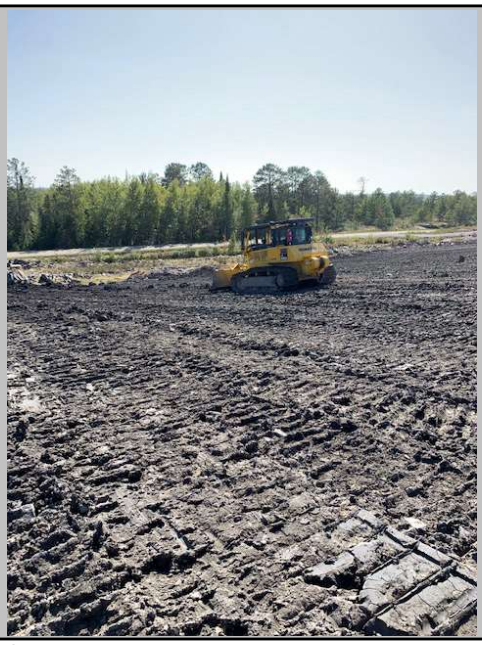

Photo #: 3

D65 dozer grading L3 NCL

Photo #: 4

PC490 excavator backfilling Okane instrument location.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Nuclear gauge test on L2 CCL at instrument location.

Photo #: 6

Instrument Location after L2 CCL.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 11, 2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 12 / 3 Humidity: 40 to 60% Wind: Still

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 20 / 12 Humidity: 40 to 60% Wind: Low

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing L1 CCL	STA 7+540 to 7+600	155AX & D65 dozer, PC 490
Pushing & placing L3&L4 NCL	STA 7+530 to 7+550	D65 dozer & PC 490 excavator
Bulking L3 NCL	STA 7+530	155AX dozer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Dark grey with small amounts of light brown, sticky, very pliable with clumpy large lumps. Medium amounts of small blast rock in the clay. Good Moisture content.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took a sample of L3 NCL and delivered to All North for a hydrometer test. (EMRS-L3-027) Location: N:5408593.455, E:428749.206. Should receive results in 3-4 days.

General Daily Remarks:

NG started placing and pushing L1 CCL from sta 7+540 to 7+600, o/s -63m to -84m. By end of day they were starting to grade lift and almost ready for packing. Okane wanted to get the L3 and L4 NCL lifts in around their monitoring instruments so they could finish installing them. NG placed L3 and L4 NCL from sta 7+530 to 7+550, o/s -32m and -63m to make this happen. L3 in this area has been surveyed but L4 has not.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

PC 490 excavator placing L3 NCL around Okane monitoring instrument.

Photo #: 2

L1 CCL being placed at Sta 7+580.

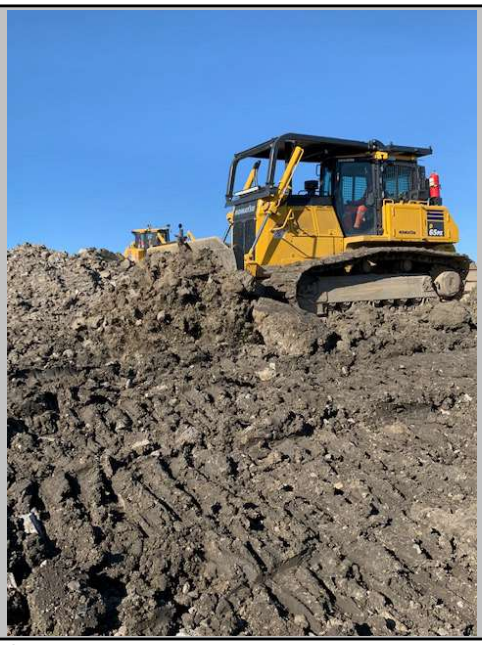

Photo #: 3

D65 dozer pushing L1 CCL at Sta +/- 7+550

Photo #: 4

210 excavator removing oversized rocks and assisting with bulking material

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 12, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Cloudy Precipitation: 0 - 5 mm

Temperature (High/Low): 11 / 7 Humidity: 60 to 80% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 17 / 11 Humidity: 60 to 80% Wind: Low

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used

NG was not at reclaim today

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

General Daily Remarks:

NG was not working at the EMRS reclaim today due to rain last night and operators being needed elsewhere. Okane was on site to finish installing their monitoring instrumentation.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Staked off wires running in the L4 NCL from SS1S to SS1P sensor.

Photo #: 2

Okane installing SS1P instrument at Sta 7+540.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 13, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 7 / 2 Humidity: 40 to 60% Wind: Low

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 13 / 7 Humidity: 40 to 60% Wind: Low

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Place & pack L1 CCL	7+543-7+615,o/s -61- -89	D65 &155AX dozer, 211 packer
Place & pack L2 CCL	7+542-7+615,o/s -61- -87	D65 &155AX dozer, 211 packer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Dark grey with small amounts of light brown material mixed in. Sticky, pliable with large clumps. Medium amounts of small blast rock in the clay. Moisture content resembled a Brenna like material. Seem to be to dry to be a WML.

Panel Approval:

Panel Description	Small section of L1 and L2 CCL at the crest/ top half of the slope.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☑	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Completed a nuclear gauge test (#506) on the L1 CCL, 1700 proctor was used because material resembled a Brenna like material more then a WML. Location: N:5408603.403, E:428789.489, Elev. 398.427. Reference Field Density Report.

Completed a nuclear gauge test (#806) on the L2 CCL, 1700 proctor was used because material resembled a Brenna like material more then a WML. Location: N:5408607.121, E:428808.562, Elev. 398.897. Reference Field Density Report.

Took a sample of L2 CCL (EMRS-L2-028) and delivered to All North for moisture, hydrometer, and plasticity testing. Should see results by Wednesday, Sept 16, 2020.

General Daily Remarks:

NG finished placing and packing L1 and L2 CCL from 7+543-7+615,o/s -61m to -89m. At end of day they were about to start placing L3 NCL in this area.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

211 Packer packing L1 CCL between sta 7+543 & 7+615.

Photo #: 2

Nuclear gauge test on L1 CCL.

Photo #: 3

Completed L1 CCL between sta 7+543 & 7+615.

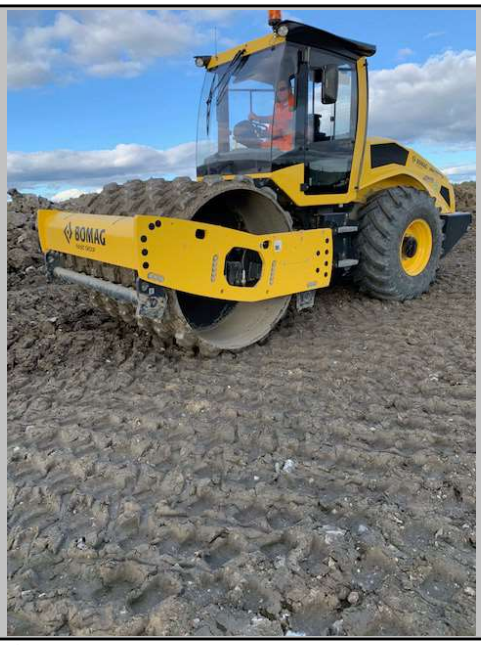

Photo #: 4

211 Packer packing L2 CCL between sta 7+543 & 7+615.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Nuclear gauge test on L2 CCL

Photo #: 6

Completed L2 CCL between sta 7+543 & 7+615.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 14, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 10 / -2 Humidity: 40 to 60% Wind: Low

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 16 / 10 Humidity: 40 to 60% Wind: Moderate

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Push and place L3 NCL	7+514-7+552,o/s -0.3- -78	D65,155AX dozer,210 excavator
Push and place L4 NCL	7+530-7+550,o/s -0.3- -78	D65 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took a sample of L3 NCL (EMRS-L3-029) and delivered to All North for moisture testing. Should see results by Tuesday, Sept 15, 2020.

General Daily Remarks:

NG finished placing L4 NCL around Okane instruments, sta 7+530-7+550, o/s -0.3- -78, to complete a section of L4.

NG also placed L3 NCL between 7+514-7+552,o/s -0.3- -78. This has been surveyed.

NG spent most of the afternoon bulking in L3 NCL between sta 7+543-7+615.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

D65 dozer, 155AX dozer & 210 excavator working together to bulk material down the slope.

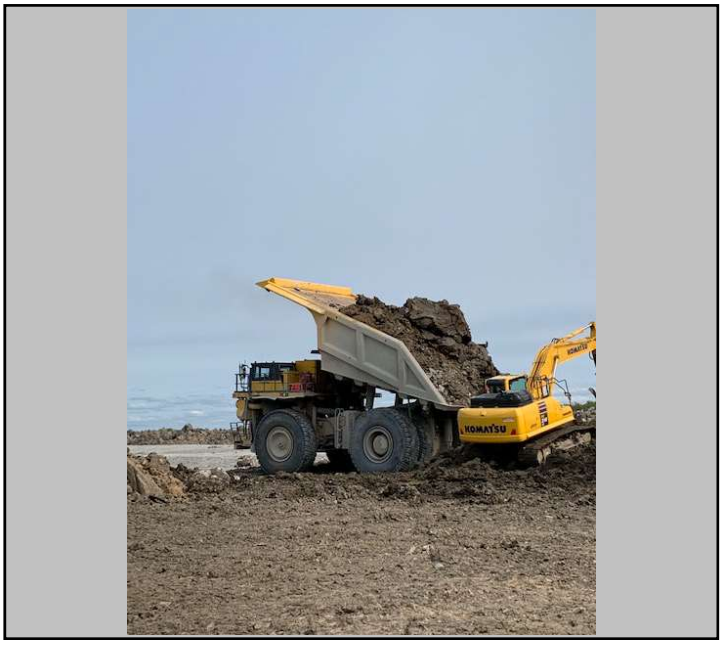

Photo #: 2

Haul truck delivering a load of clay with 210 excavator spotting.

Photo #: 3

D65 dozer pushing L3 NCL.

Photo #: 4

Material being pushed in L3 NCL between sta 7+543-7+615.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	Septmeber 15, 2020	**Owner/Client:**	New Gold Inc.
Day:	Tuesday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 14 / 8 Humidity: 60 to 80% Wind: Low

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 19 / 14 Humidity: 60 to 80% Wind: Low

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Push and place L3 NCL	7+550 to 7+585	D65,155AX dozer,210 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Completed two moisture tests using the nuclear gauge on the L2 CCL material that has been exposed for more then 24 hours to check moisture prior to L3 NCL placement. Reference Field Density report for results.

Took a sample of L2 CCL (EMRS-L3-030) from my moisture test location and delivered to All North for moisture testing. Should see results by Wednesday, Sept 16, 2020.

Also took a sample of L3 NCL (EMRS-L3-031) and delivered to All North for moisture testing. Should see results by Wednesday, Sept 16, 2020.

General Daily Remarks:

NG spent the day placing and shaping L3 NCL between sta 7+550 to 7+585. The area that was complete by end of day, sta 7+550 to 7+570, o/s -3m to -82m, has been surveyed.

Both locations that moisture tests were completed on the L2 CCL had more then 0.4 m of cover remaining after stripping away the dry material.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Digitally signed by Garry Noga

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

First moisture test on section of L2 CCL that has been exposed for more then 24hrs prior to placement of L3 NCL.

Photo #: 2

Second moisture test on section of L2 CCL that has been exposed for more then 24hrs prior to placement of L3 NCL.

Photo #: 3

AX155 dozer bulking L3 NCL down the slope

Photo #: 4

NCL material that was being used for L3 between sta 7+550 to 7+585.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 16, 2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather Fair Precipitation 0 mm

Temperature (High/Low) 9 5 Humidity 20 to 40% Wind Moderate

Afternoon Conditions Weather Fair Precipitation 0 mm

Temperature (High/Low) 11 9 Humidity 20 to 40% Wind Moderate

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
NG placing & shaping L3 NCL	STA 7+568 - 7+614	D65,155AX dozer,210 excavator
NG Pushing L4 NCL	STA 7+400 - +/- 7+415	D65,155AX dozer,210 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took a sample of L3 NCL (EMRS-L3-032) and delivered to All North for a hydrometer test. Should see results by Saturday, Sept 19, 2020.

General Daily Remarks:

NG finished placing and shaping L3 NCL between sta 7+568 to 7+614, o/s -4 m to - 86m. This completes the area that had the L2 CCL exposed for more then 24hrs.

NG started placing L4 NCL at sta 7+400, heading up chainage.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

D155AX dozer pushing L3 NCL down the slope at +/- sta 7+580.

Photo #: 2

210 excavator bulking L3 NCL material to D155AX dozer.

Photo #: 3

Finished section of L3 NCL from sta 7+568 to 7+614, o/s -4 m to - 86m.

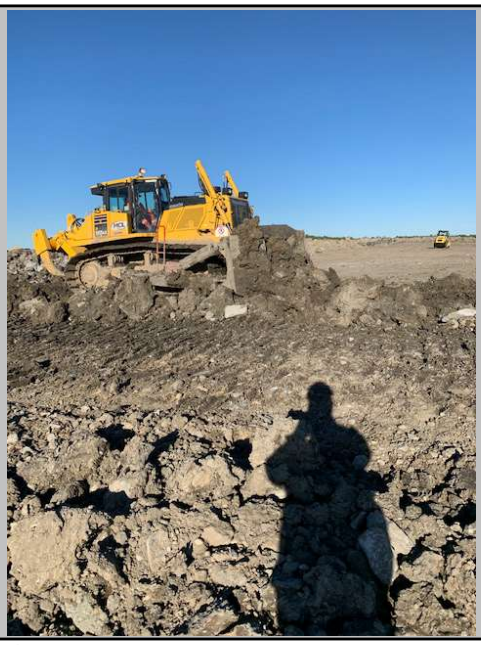

Photo #: 4

D155AX dozer pushing L4 NCL down the slope at +/- sta 7+400.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 17, 2020	**Owner/Client:**	New Gold Inc.
Day:	Thursday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 6 / -4 Humidity: 20 to 40% Wind: Still

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 11 / 6 Humidity: 20 to 40% Wind: Low

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
NG push and place L4 NCL	Sta 7+400 to 7+450	D65,155AX dozer,210 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took a sample of L4 NCL (EMRS-L3-033) and delivered to All North for moisture testing. Should see results by Friday, Sept 18, 2020.

General Daily Remarks:

NG worked on pushing and bulking in L4 NCL between Sta 7+400 and 7+450. This area has not been surveyed yet, waiting for NG to shape and complete the section before doing so.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

210 excavator bulking L4 NCL material to the D65 dozer.

Photo #: 2

D155ax dozer pushing L4 NCL from the stockpile to the slope at +/- Sta 7+420

Photo #: 3

L4 NCL material being used between sta 7+400 and 7+450.

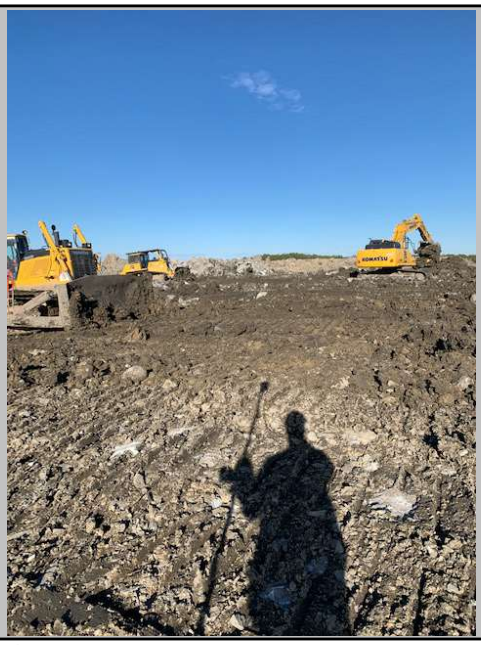

Photo #: 4

210 excavator bulking L4 NCL material to D65 and D155ax dozer.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 18, 2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 5 / -4 Humidity: 80 to 100% Wind: Still

Afternoon Conditions Weather: Cloudy Precipitation: 0 - 5 mm

Temperature (High/Low): 12 / 5 Humidity: 80 to 100% Wind: Low

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
NG pushed & shaped L4 NCL	7+400 to 7+465	D65,155AX dozer,210 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took a sample of L4 NCL (EMRS-L3-034) and delivered to All North for moisture testing and a hydrometer test.. Should see results by Saturday, Sept 19, 2020 for the moisture content and Tuesday, Sept 22, 2020 for the hydrometer.

General Daily Remarks:

NG finished shaping the section of L4 NCL that they were working on yesterday between 7+400 and 7+445. This area has been surveyed. NG continued to place L4 NCL up chainage to approximately sta 7+465.

NG also covered a burrito that had PAG rock on it with a lift of NCL material at sta 7+425, o/s -3m to 10m.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

210 excavator bulking L4 NCL material onto slope and taking out oversized rocks.

Photo #: 2

D155AX dozer pushing L4 NCL material at +/- Sta 7+450.

Photo #: 3

D65 dozer shaping L4 NCL at +/- Sta 7+430

Photo #: 4

Finished area of L4 NCL from Sta 7+400 to 7+445.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 19, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 14 / 10 Humidity: 40 to 60% Wind: Still

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 22 / 14 Humidity: 40 to 60% Wind: Still

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing L4 NCL	Sta 7+439 to 7+510	D65,155AX dozer,210 excavator
Grading L4 NCL	Sta 7+439 to 7+472	D65 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

No tests or samples taken today.

General Daily Remarks:

NG shaping lift 4 NCL from 7+439 - 7+472, o/s 3m to -67m. This area has been surveyed. NG continued placing lift 4 NCL between 7+439 to 7+510.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

210 excavator removing oversized rocks from material to be used for L4 NCL.

Photo #: 2

D155AX dozer pushing L4 NCL material at +/- Sta 7+480.

Photo #: 3

D65 dozer shaping L4 NCL at +/- Sta 7+465

Photo #: 4

Material being used for L4 NCL.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 20, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather Cloudy Precipitation 0 mm

Temperature (High/Low) 15 11 Humidity 40 to 60% Wind Moderate

Afternoon Conditions Weather Cloudy Precipitation 0 mm

Temperature (High/Low) 20 15 Humidity 60 to 80% Wind Moderate

Meeting Summaries

Met with Haley from Okane and got her up to speed with where we are at and what the plan going forward is. Also discussed the revisions made to the operations handbook and the updated proctor selection guide to make sure we were on the same page and to answer any questions I may have.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing & grading L4 NCL	Sta 7+468 to 7+535	D65,155AX dozer,210 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took a sample of L4 NCL (EMRS-L3-035) and delivered to All North for a moisture content test. Should see results by Monday, Sept 21, 2020.

General Daily Remarks:

NG pushed and graded L4 NCL from sta 7+468 to 7+535, o/s -0.8m to -76m. This area has been surveyed.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

D155AX dozer pushing L4 NCL material at +/- sta 7+500

Photo #: 2

D65 dozer grading L4 NCL at +/- sta 7+490

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 21, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 15 / 8 Humidity: 40 to 60% Wind: High

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 23 / 15 Humidity: 40 to 60% Wind: High

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing & placing L4 NCL	Sta 7+530 to 7+593	D65 & 155AX dozer
Grading L4 NCL	Sta 7+530 to 7+564	D65 & 155AX dozer
Hauling NCL material	Sta 7+530 to 7+593	785 truck & 700 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took a sample of L4 NCL (EMRS-L4-036) and delivered to All North for a moisture content test and hydrometer test. Should see results by Tuesday, Sept 22, 2020 for the moisture test and Thursday, Sept 24, 2020 for the hydrometer.

Received test results for EMRS-L2-028 HYD, EMRS-L3-032 HYD, EMRS-L4-033 MC, EMRS-L4-034 MC, EMRS-L4-034 HYD, and EMRS-L4-035 MC today.

Completed a nuclear gauge density and moisture test (#807) at location of Okane permeameter test on L2 CCL. Reference Sept 21, 2020 field density report for results.

General Daily Remarks:

NG pushed and graded L4 NCL from Sta 7+530 to 7+564, o/s -1m to -82m. This area has been surveyed. NG continued pushing L4 NCL from 7+564 to 7+593.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Location of Nuclear gauge density and moisture test on L2 CCL at Okane test location.

Photo #: 2

785 haul truck dumping NCL material on the slope with the D155AX dozer spotting.

Photo #: 3

D155AX dozer pushing L4 NCL down the slope at +/- sta 7+550.

Photo #: 4

D9 dozer from mine ops smoothing out PAG slope prior to L1 CCL placement.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 22, 2020	**Owner/Client:**	New Gold Inc.
Day:	Tuesday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 24 / 6 Humidity: 0 to 20% Wind: Still

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 26 / 24 Humidity: 0 to 20% Wind: Still

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placing,Grading L4 NCL	7+564 - 7+604	D65 & 155AX Dozer
Pushing & Placing L1 CCL	7+625 - 7+655	D65 & 155AX Dozer
Shaping Rock	7+629-7+773, o/s 3m-42m	155AX Dozer & 700 Excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL is a mix of Brena and WML.

Panel Approval:

Panel Description: Material was mostly Brena type material, light brown in colour with some WML.

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		0.5m L4 NCL, 0.25m L1 CCL
Water Content within Acceptable Range			
Density within Acceptable Range			
Corrected Actions Taken			

Testing and Sampling Completed:

No samples taken today.

Received test results for EMRS-L4-036 MC today.

General Daily Remarks:

NG pushed and graded L4 NCL from Sta 7+564 - 7+604, o/s 0m to -83m. This area has been surveyed. NG started back pushing L1 CCL from 7+625 to 7+655.
Haley from Okane on site.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

155AX Dozer shaping PAG rock.

Photo #: 2

D65 Dozer grading L4 NCL +/- 7+590.

Photo #: 3

D65 Dozer grading L4 NCL +/- 7+600.

Photo #: 4

Finished shaping PAG rock with 155AX Dozer +/- 7+640.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

155AX Dozer pushing and placing L1 CCL +/- 7+635.

Photo #: 6

D65, 155AX Dozer pushing and placing L1 CCL, 700 Excavator fixing the PAG slopes.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 23, 2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 15 / 9 Humidity: 0 to 20% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 19 / 15 Humidity: 0 to 20% Wind: Moderate

Meeting Summaries

Haley from O'Kane is on site.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing and Placing L1 CCL	7+625 - 7+702	155AX & D65 Dozer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL is a mix of Brena and WML. Dark grey and light brown clay mix.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		0.25m L1 CCL
Water Content within Acceptable Range			
Density within Acceptable Range			
Corrected Actions Taken			

Testing and Sampling Completed:

No testing or samples taken today.

Dry density revised on all up to date compaction forms with lab proctors. Emailed to New gold and O'Kane.

General Daily Remarks:

NG pushing and placing L1 CCL from 7+625 to 7+702. No survey today.
Haley from O'Kane on site.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Placed L1 CCL +/- 7+650.

Photo #: 2

Placed L1 CCL +/- 7+630.

Photo #: 3

WML & Brenna mix clay +/- 7+660.

Photo #: 4

155AX pushing and placing L1 CCL +/- 7+675

Duplicate Page

PHOTOGRAPHS

Photo #: 5

L1 CCL placement +/- 7+690.

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 24, 2020	**Owner/Client:**	New Gold Inc.
Day:	Thursday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 17 / 8 Humidity: 0 to 20% Wind: Low

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 20 / 17 Humidity: 0 to 20% Wind: Low

Meeting Summaries

Haley from O'Kane is on site, assisted with the compaction testing and the sampling.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Graded & Packed L1 CCL	7+625 - 7+705	D8T Dozer & 211 Packer
Pushing & Placing L1 CCL	7+702 -7+734	D65 & 155AX Dozers
Pushing & Placing L2 CCL	7+650 - 7+690	D65 & D8T Dozers

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL is a mix of Brena and WML. Dark grey and light brown clay mix.

Panel Approval:

Panel Description: CCL is a mix of Brena and WML, dark grey and some light brown clay mix.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.30m L1 CCL
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☑	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample # EMRS-L1-037 and delivered to All North for a moisture content, hydrometer, dry density, atterberg. Should see results by Friday Sept 25, 2020 for the moisture test and Monday Sept 28, 2020 for the rest.

Compaction Test L1 CCL 507, 508, 509, 510.
Refer to attached density form.

Sample # EMRS-L1-038 for moisture content only. Results Friday Sept 25, 2020.

Haley from O'Kane witnessed all compaction tests and samples.

General Daily Remarks:

NG graded & packed L1 CCL from 7+625 to 7+705. Surveyed, sampled and compaction tests today, 2 more compaction tests tomorrow to complete this area.

NG pushing and placing L1 CCL from 7+702 to 7+734. No survey.

Started placing L2 CCL over the L1 CCL.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

D8T Dozer grading L1 CCL +/- 7+ 650.

Photo #: 2

D65 Dozer pushing & placing L1 CCL +/- 7+715.

Photo #: 3

D8T, D65, and 211 Packer working on L1 CCL.

Photo #: 4

D8T & D65 dozers placing L1 CCL +/- 7+725.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Compaction test 507

Photo #: 6

Sample EMRS-L1-037

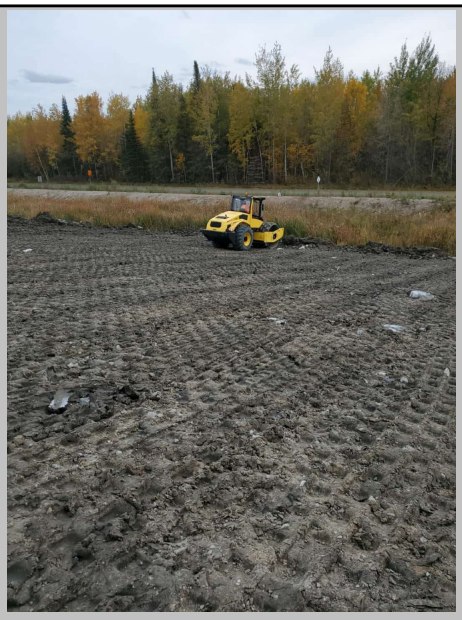

Photo #: 7

211 Packer packing L1 CCL +/- 7+680.

Photo #: 8

Compaction test 509.

Duplicate Page

PHOTOGRAPHS

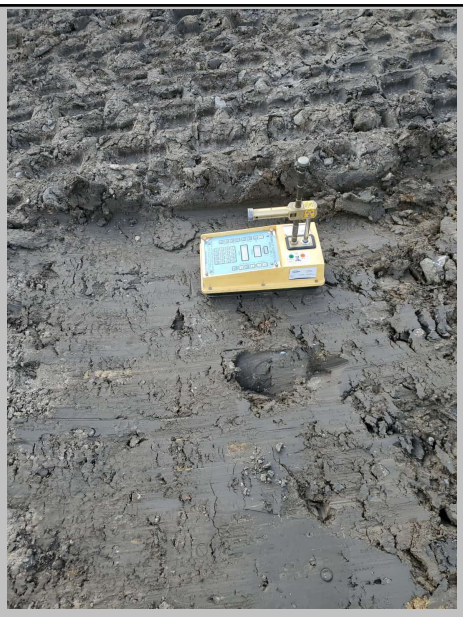

Photo #: 9

Compaction test 510.

Photo #: 10

Placed L1 CCL +/- 7+ 725.

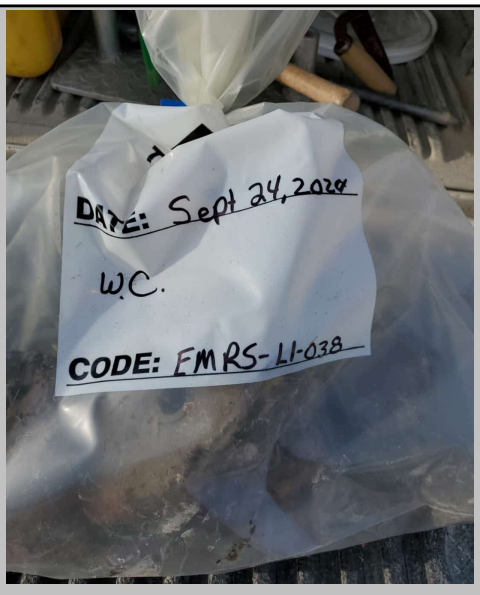

Photo #: 11

Sample EMRS-L1-038.

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 25, 2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Rain Precipitation: 5 - 10 mm

Temperature (High/Low): 14 / 12 Humidity: 20 to 40% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 21 / 14 Humidity: 20 to 40% Wind: Low

Meeting Summaries

O'Kane suggesting for QC to take some additional samples from stockpiles to review the moisture content and hydrometer readings to gain more information about the CCL material being placed for L1 - L2 CCL. Mission complete.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Pushing and placing L2 CCL	7+653 - 7+700	D65 & 155AX Dozer
Pushing and placing L1 CCL	7+734 - 7+750	D8T Dozer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL is a mix of Brena and WML, dark grey and some light brown clay mix.
Rain this morning made it very sticky and slippery.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		0.25m L1 - L2 CCL
Water Content within Acceptable Range			
Density within Acceptable Range			
Corrected Actions Taken			

Testing and Sampling Completed:

Took 3 samples today from the stockpiles for moisture content and hydrometer.

Sample EMRS-L1-039
Hydrometer & moisture content.

Sample EMRS-L1-040
Hydrometer & moisture content.

Sample EMRS-L1-041
Hydrometer & moisture content.

Moisture content is expected tomorrow Sept 26, 2020, and the hydrometer results should be expected Sept 28, 2020.

General Daily Remarks:

NG pushed and placed L1 CCL from 7+734 to 7+750. Not graded.

NG pushing and placing L2 CCL from 7+653 to 7+700. Not graded.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

D65 & 155AX dozers pushing L2 CCL and D8T dozer pushing L1 CCL.

Photo #: 2

D65 rough grading L2 CCL +/- 7+675.

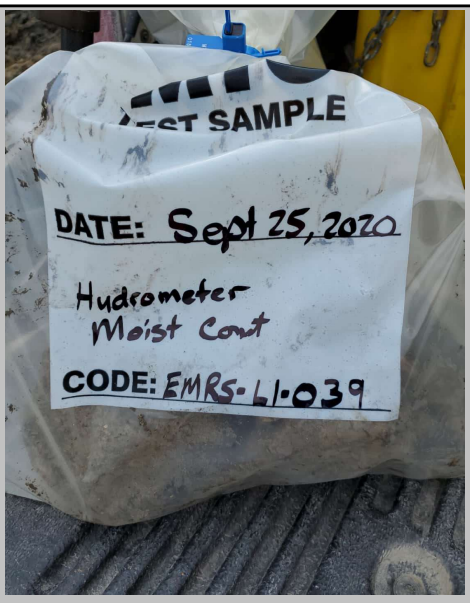

Photo #: 3

Sample EMRS-L1-039 from stockpiles provided.

Photo #: 4

Sample EMRS-L1-039 from mixed up CCL.

Duplicate Page

PHOTOGRAPHS

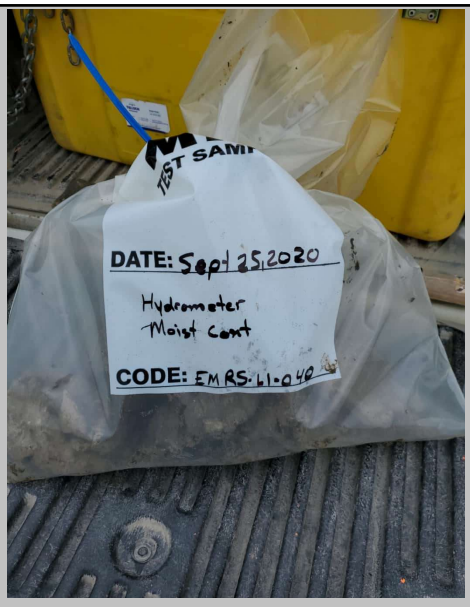

Photo #: 5

Sample EMRS-L1-040 from stockpiles provided.

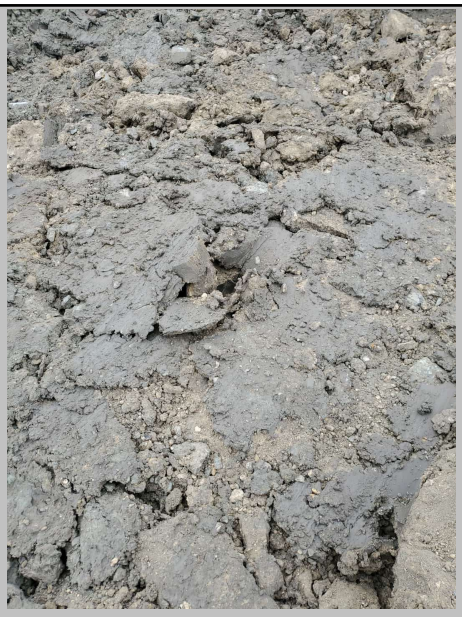

Photo #: 6

Sample EMRS-L1-040 from mixed up CCL.

Photo #: 7

Sample EMRS-L1-041 from stockpiles provided.

Photo #: 8

Sample EMRS-L1-041 from mixed up CCL.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 26, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 8

Environmental Conditions:

Morning Conditions Weather Cloudy Precipitation 0 mm

Temperature (High/Low) 15 / 10 Humidity 0 to 20% Wind Moderate

Afternoon Conditions Weather Cloudy Precipitation 0 mm

Temperature (High/Low) 21 / 15 Humidity 0 to 20% Wind Moderate

Meeting Summaries

Haley assisting QC with identification of CCL material.
QC discussed with Haley the transition area +/- 7+610 at which QC was given a new trimmed rock surface. Moving forward from this about location QC will be using one survey surface making things way easier and also NG now having a D8T GPS Dozer.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L1 CCL	7+706 - 7+743	D65 & D8T Dozers
Packed L1 &L2 CCL	7+618 - 7+743	211 Packer
Placed & graded L2 CCL	7+618 - 7+702	D65 & D8T Dozers

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL is a mix of Brena and WML, dark grey and some light brown clay mix.

Panel Approval:

Panel Description: CCL is a mix of Brena and WML, dark grey and some light brown clay mix.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	L1 & L2 CCL - 0.25m
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☑	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L1-042
Moisture content & Proctor.
Sample EMRS-L2-043
Moisture content & Proctor.
Sample EMRS-L1-044
Moisture content & Hydrometer.
Compaction test on L1 CCL 511, 512, 514, 515, 516,808, 809.
Refer to attached density form.

Moisture content is expected tomorrow Sept 27, 2020, and the hydrometer results should be expected Sept 29, 2020.

General Daily Remarks:

NG placed & graded L1 CCL from 7+706 to 7+743. Surveyed.

NG placing & graded L2 CCL from 7+618 to 7+702. Surveyed.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

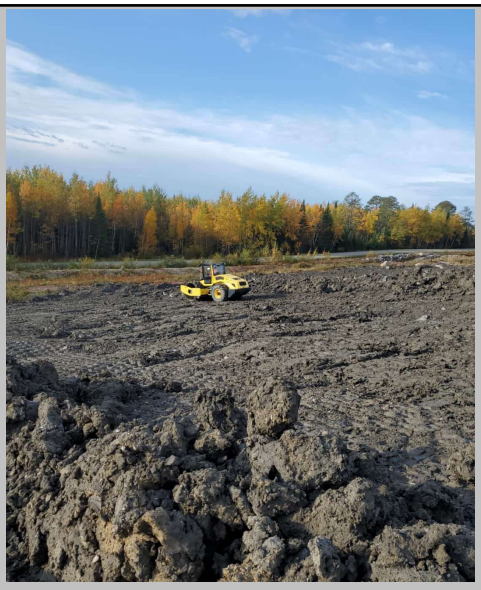

Photo #: 1

211 Packer packing L2 CCL +/- 7+640.

Photo #: 2

D8T Dozer grading L1 CCL +/- 7+725.

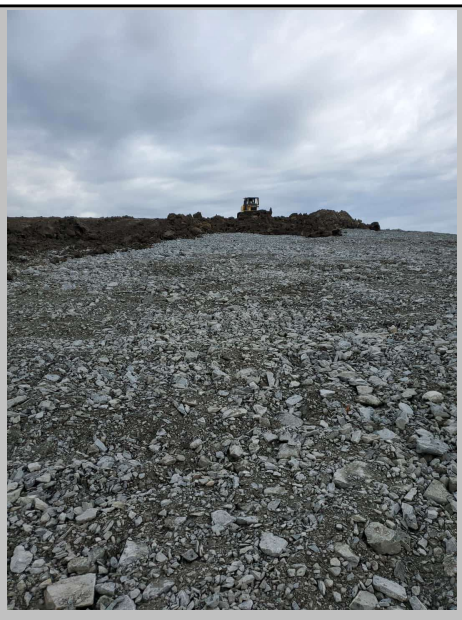

Photo #: 3

D65 Dozer placing L1 CCL +/- 7+735.

Photo #: 4

Golder's marked off location of drain.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 5

Digging for sample EMRS-L1-042.

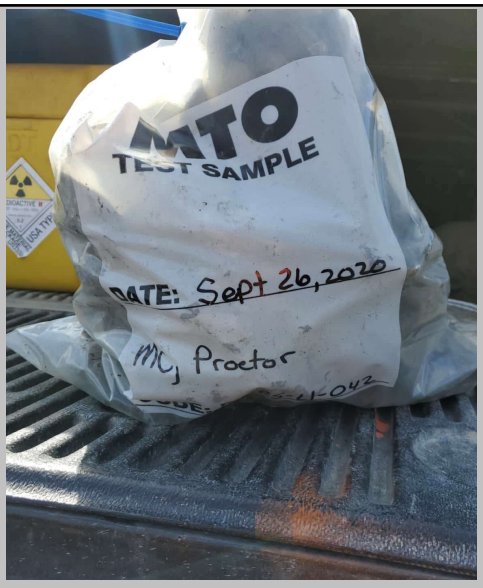

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Photo #: 6

Sample EMRS-L1-042.

Scanned by CamScanner

Photo #: 7

Compaction test 512.

Scanned by CamScanner

Photo #: 8

Digging for sample EMRS-L2-043.

Duplicate Page

PHOTOGRAPHS

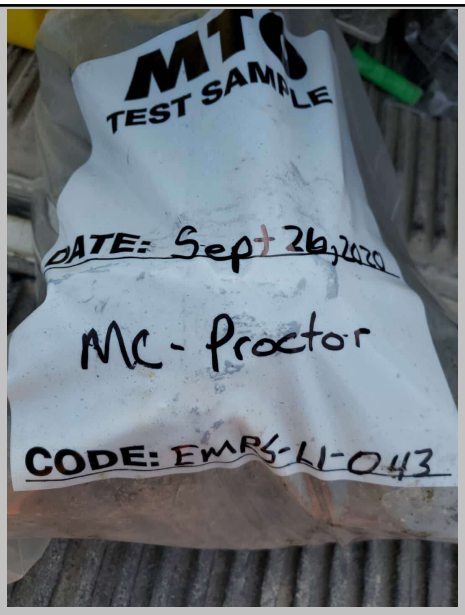

Photo #: 9

Sample EMRS-L2-043.
should have been written L2

Photo #: 10

EMRS-L1-043 dig out location.

Photo #: 11

Compaction test 514.

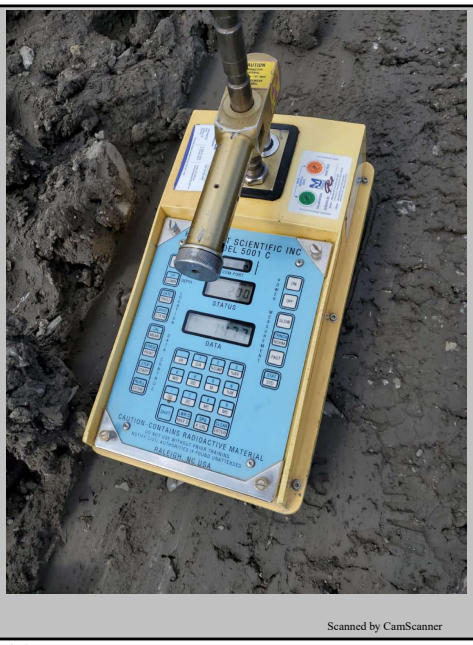

Photo #: 12

Compaction test 515.

Duplicate Page

PHOTOGRAPHS

Photo #: 13

Compaction test 516.

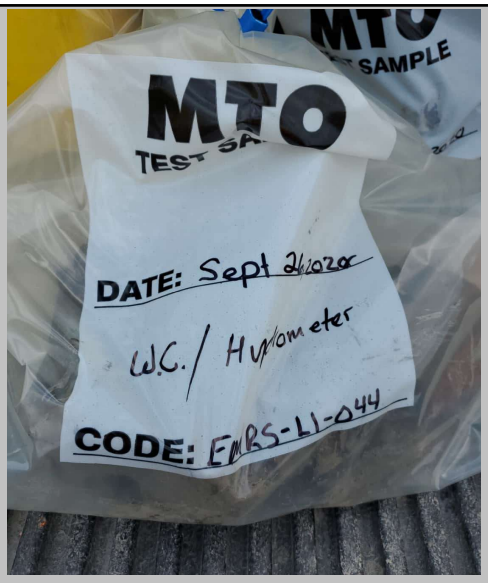

Photo #: 14

Sample EMRS-L1-044.

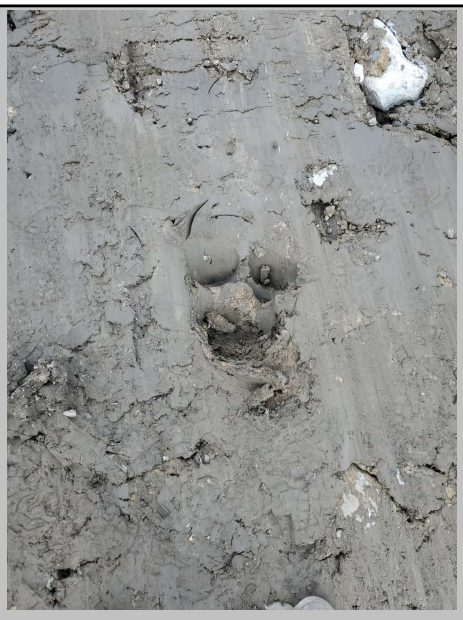

Photo #: 15

EMRS-L1-044 dig out location.

Photo #: 16

L1 & L2 CCL showing the surfaces have been ripped prior to proper tie in.

Duplicate Page

PHOTOGRAPHS

Photo #: 17

Compaction test 809.

Photo #:

Photo #:

Photo #:

Rainy River EMRS
Daily Progress Reports

Date:	September 27, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 9

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 15 / 8 Humidity: 0 to 20% Wind: Moderate

Afternoon Conditions Weather: Showers Precipitation: 0 - 5 mm

Temperature (High/Low): 15 / 15 Humidity: 40 to 60% Wind: Moderate

Meeting Summaries

O'Kane not on site.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L2 CCL	7+702 - 7+735	D65 & D8T Dozers
Pushed & placed L3 NCL	7+612 - 7+720	D65,D8T,155 Dozers, 210 Excava
Pushed and placed L1 CCL	7+740 - 7+775	D65 & D8T Dozers

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL is a mix of Brena and WML, dark grey and some light brown clay mix.

Panel Approval:

Panel Description: CCL is a mix of WML & Brena, dark grey and some light brown clay mix.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	WML
Layer Thickness Acceptable	☑	☐	0.5m L3 NCL, 0.25m L2 CCL
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☑	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L2-045
Moisture content, proctor, hydrometer, atterberg.
Sample EMRS-L2-046
Moisture content & Proctor.
Sample EMRS-L2-047
Moisture content & atterberg.
Compaction test on L2 CCL 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820.
Refer to attached density form.

Moisture content is expected tomorrow Sept 28, 2020, the hydrometer, proctor, atterberg results should be expected Oct 2, 2020.

General Daily Remarks:

NG placed & graded L2 CCL from 7+702 to 7+735. Surveyed.

NG pushing & placing L3 NCL from 7+612 to 7+720. Not surveyed.

NG pushing & placing L1 CCL from 7+740 to 7+775. Not surveyed.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

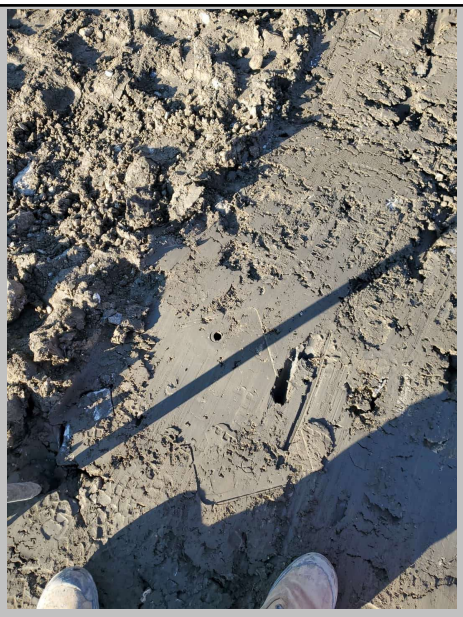

Photo #: 1

Compaction location of test 810.

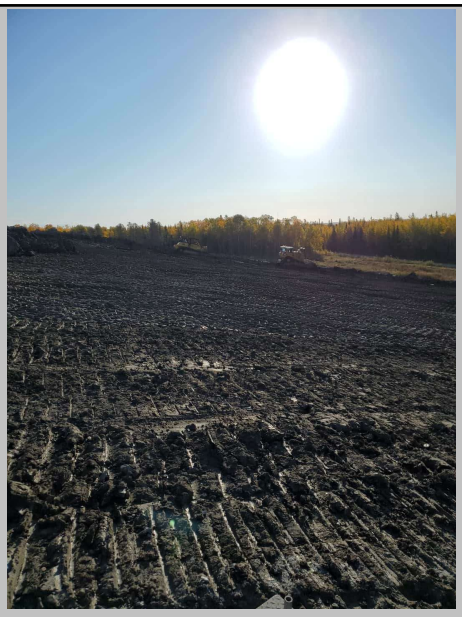

Photo #: 2

D65 dozer pushing L1 CCL +/- 7+760, D8T Dozer grading L2 CCL +/- 7+720.

Photo #: 3

Compaction test 812.

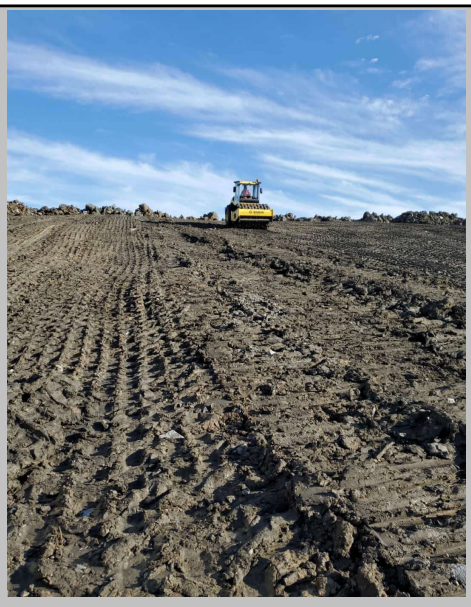

Photo #: 4

211 Packing L2 CCL +/- 7+675.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 5

Compaction test 813.

Scanned by CamScanner

Photo #: 6

EMRS-L2-045 dig out location.

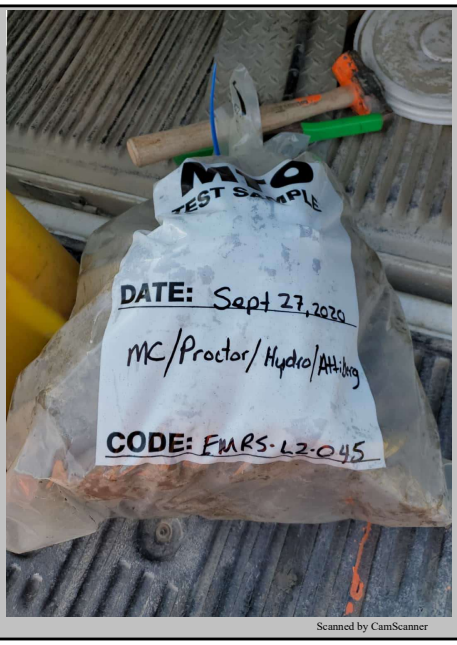

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Photo #: 7

Sample EMRS-L2-045.

Scanned by CamScanner

Photo #: 8

Compaction test 814.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

210 Excavator leveling a spot for compaction test 815.

Photo #: 10

Compaction test 815.

Photo #: 11

Compaction test 816.

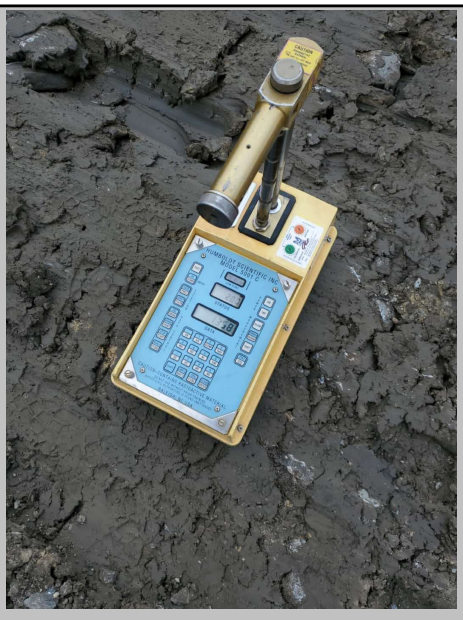


Photo #: 12

Compaction test 817.

Duplicate Page

PHOTOGRAPHS

Photo #: 13

Sample EMRS-L2-046.

Photo #: 14

EMRS-L2-046 dig out location.

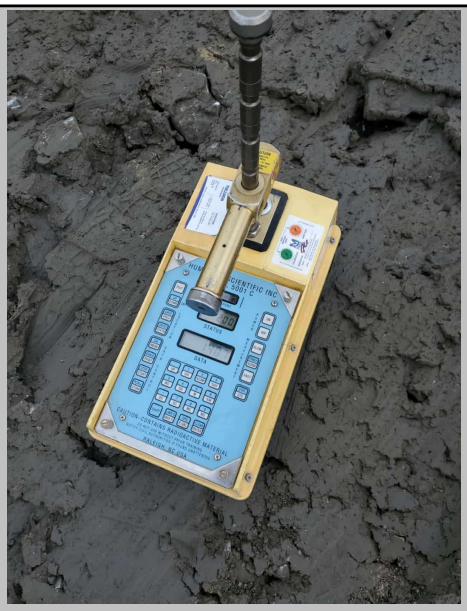


Photo #: 15

Compaction test 818.

Photo #: 16

D8T pushing & placing L3 NCL +/- 7+650.

Duplicate Page

PHOTOGRAPHS

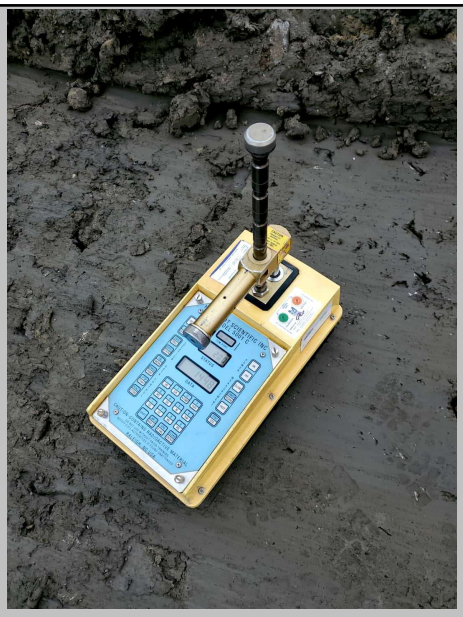


Photo #: 17

Compaction test 819.

Photo #: 18

EMRS-L2-047 dig out location.

Photo #: 19

Sample EMRS-L2-047.

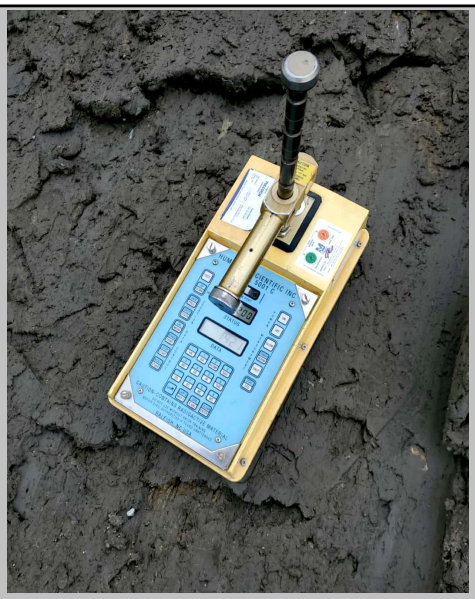


Photo #: 20

Compaction test 820.

Duplicate Page

PHOTOGRAPHS

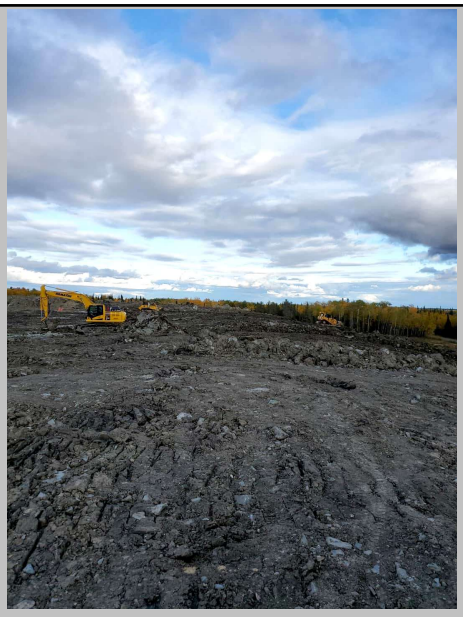


Photo #: 21

D65, D8T dozers and 210 excavator pushing and placing L3 NCL +/- 7+675.

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 28, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 7

Environmental Conditions:

Morning Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 8 / 7 Humidity: 20 to 40% Wind: Moderate

Afternoon Conditions Weather: Showers Precipitation: 0 - 5 mm

Temperature (High/Low): 10 / 8 Humidity: 40 to 60% Wind: Moderate

Meeting Summaries

O'Kane not on site.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L3 NCL	7+612 - 7+680	D65,D8T,155 Dozers, 210 Excava
Pushed & placed L3 NCL	7+680 - 7+730	D65 & 155 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the light rain.

Panel Approval:

Panel Description	CCL is a mix of WML & Brena, dark grey and some light brown clay mix. Sticky due to the light rain.

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		0.5m L3 NCL
Water Content within Acceptable Range			
Density within Acceptable Range			
Corrected Actions Taken			

Testing and Sampling Completed:

Sample EMRS-L2-048
Moisture content & hydrometer.

Sample EMRS-L2-049
Moisture content & hydrometer.

Moisture content is expected tomorrow Sept 29, 2020, the hydrometer results should be expected Oct 3, 2020.

General Daily Remarks:

NG placing & grading L3 NCL from 7+612 to 7+680. Surveyed.

NG pushing & placing L3 NCL from 7+680 to 7+730. not surveyed.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :
<original signed by>

CQC Representative:
<original signed by>

PHOTOGRAPHS

Photo #: 1

210 excavator bulking NCL for dozers to place +/- 7+630.

Photo #: 2

D65 dozer pushing L3 NCL +/- 7+700.

Photo #: 3

D8T dozer placing L3 NCL +/- 7+640.

Photo #: 4

Picture taken from Teeple Road of the roughed in L1 CCL. Not to gade.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Picture taken from Teeple Road of the placement of L3 NCL.

Photo #: 6

Picture taken from Teeple Road of the placement of L3 NCL.

Photo #: 7

Picture taken from Teeple Road of the graded and ungraded L3 NCL +/- 7+630.

Photo #: 8

Picture taken from Teeple Road of the roughed in L1 CCL. Not to gade.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

L3 NCL finished grade +/- 7+640.

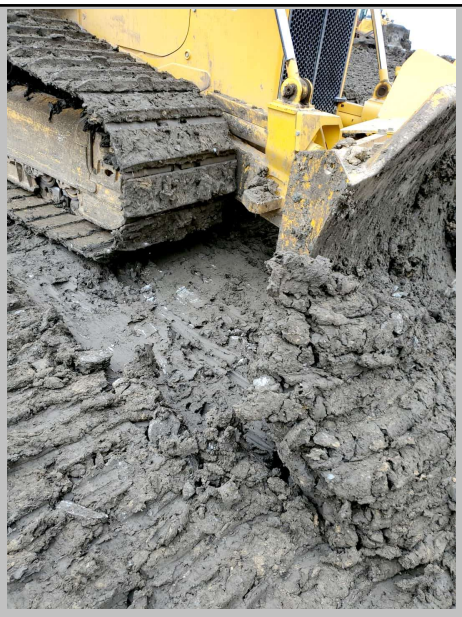


Photo #: 10

EMRS-L2-048 sample location, site preparation.

Photo #: 11

EMRS-L2-048 sample location.

Photo #: 12

Sample EMRS-L2-048.

Duplicate Page

PHOTOGRAPHS

Photo #: 13

Sample EMRS-L2-049.

Photo #: 14

EMRS-L2-049 sample location.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 29, 2020	**Owner/Client:**	New Gold Inc.
Day:	Tuesday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 12 / 8 Humidity: 0 to 20% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 - 5 mm

Temperature (High/Low): 17 / 12 Humidity: 20 to 40% Wind: Moderate

Meeting Summaries

O'Kane not on site. Telephone meeting at 11:00 am, discussed progress and when NG will be back to placing CCL. No confirmed date but NG is expecting to be placing CCL Thursday or Friday.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L3 NCL	7+680 - 7+727	D65 dozer
Pushed & placed L4 NCL	7+615 - 7+645	D8T,155 Dozers, 800 Excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the light rain.

Panel Approval:

Panel Description	CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the light rain.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.5m L3 - L4 NCL
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L3-050
Moisture content & hydrometer.

Sample EMRS-L3-051
Moisture content & hydrometer.

Moisture content is expected tomorrow Sept 30, 2020, the hydrometer results should be expected Oct 4, 2020.

General Daily Remarks:

NG placing & grading L3 NCL from 7+680 to 7+727. Surveyed.

NG pushing & placing L4 NCL from 7+615 to 7+645. not surveyed.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

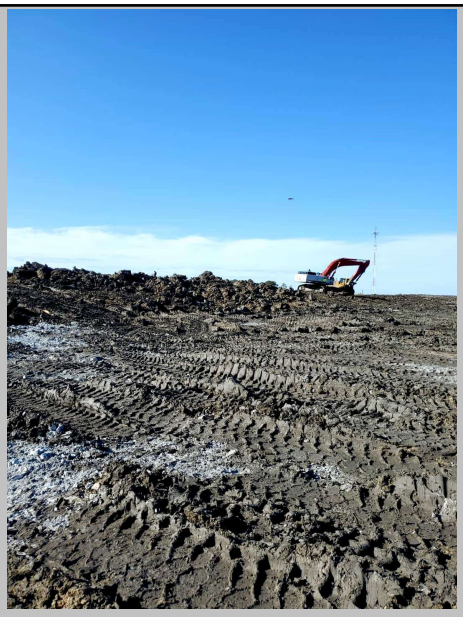


Photo #: 1

800 excavator bulking L4 NCL for D8T dozer to place +/- 7+610.

Photo #: 2

To grade L3 NCL +/- 7+720.

Photo #: 3

D65 dozer placing & grading L3 NCL +/- 7+690.

Photo #: 4

Grading and placing L3 - L4 NCL.

Duplicate Page

PHOTOGRAPHS

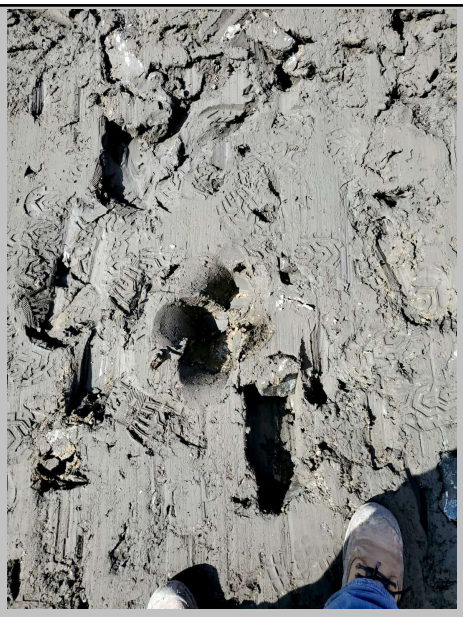

Scanned by CamScanner

Photo #: 5

EMRS-L3-050 sample location.

Scanned by CamScanner

Photo #: 6

Sample EMRS-L3-050.

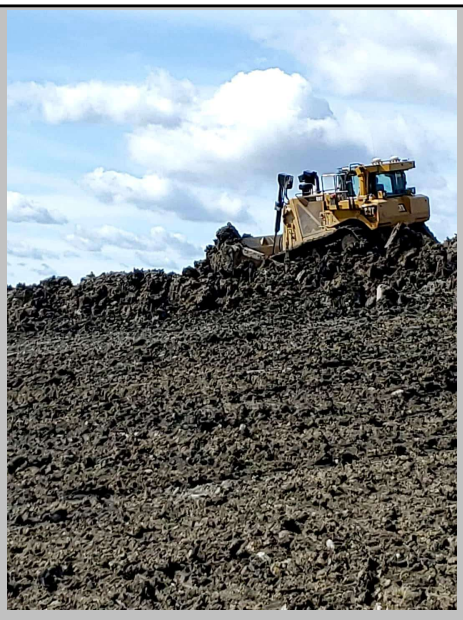
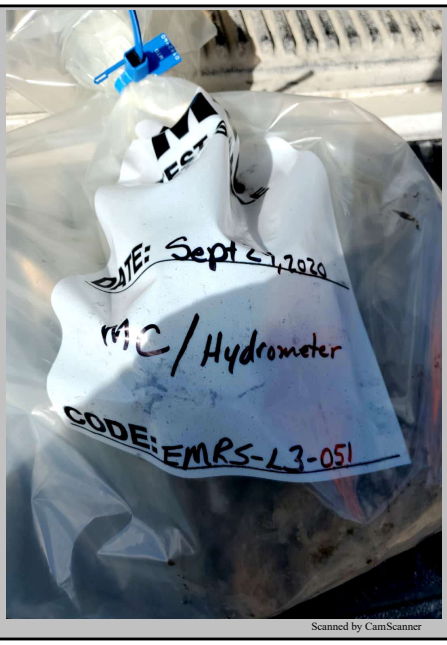

Scanned by CamScanner

Photo #: 7

D8T dozer pushing L4 NCL +/- 7+640.



Scanned by CamScanner

Photo #: 8

Sample EMRS-L3-051.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

EMRS-L3-051 sample location.

Photo #: 10

D65 dozer pushing L3 NCL 7+635.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	September 30, 2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Showers; Precipitation: 0 - 5 mm

Temperature (High/Low): 8 / 7; Humidity: 20 to 40%; Wind: Moderate

Afternoon Conditions Weather: Rain; Precipitation: 5 - 10 mm

Temperature (High/Low): 9 / 8; Humidity: 40 to 60%; Wind: High

Meeting Summaries

O'Kane not on site. Meeting at 2:00 pm, discussed progress and Mine Ops will be delivering more clay material. Delivery will be Saturday.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L4 NCL	7+600 - 7+654	D8T, D65 Dozers
Grading toe of slope	7+400 - 7+600	210 excavator
Pushed & placed L4 NCL	7+654 - 7+685	D8T, D65 Dozers

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the rain.

Panel Approval:

Panel Description	CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the rain.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.5m L4 NCL
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L4-052
Moisture content & hydrometer.

Moisture content is expected tomorrow October 1, 2020, the hydrometer results should be expected Oct 5, 2020.

General Daily Remarks:

NG placing & grading L4 NCL from 7+600 to 7+654. Surveyed.

NG pushing & placing L4 NCL from 7+654 to 7+685. not surveyed.

Heavy rains in late morning so crew shut down at 12:30 material was getting to sticky and to hard to place.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Digitally signed by

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 1

Graded L4 NCL +/- 7+650.

Scanned by CamScanner

Photo #: 2

210 excavator tiding up the toe of L4 NCL.

Scanned by CamScanner

Photo #: 3

Graded L4 NCL +/- 7+650.

Scanned by CamScanner

Photo #: 4

Sample EMRS-L4-052.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

EMRS-L4-052 sample location.

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 1, 2020	**Owner/Client:**	New Gold Inc.
Day:	Thursday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Cloudy Precipitation: 0 - 5 mm

Temperature (High/Low): 4 / 2 Humidity: 0 to 20% Wind: Moderate

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 6 / 4 Humidity: 0 to 20% Wind: Moderate

Meeting Summaries

O'Kane not on site.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the rain. No work performed.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☑	To wet.
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

General Daily Remarks:

No work performed today. Clay material was very slippery and wet to push and place.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

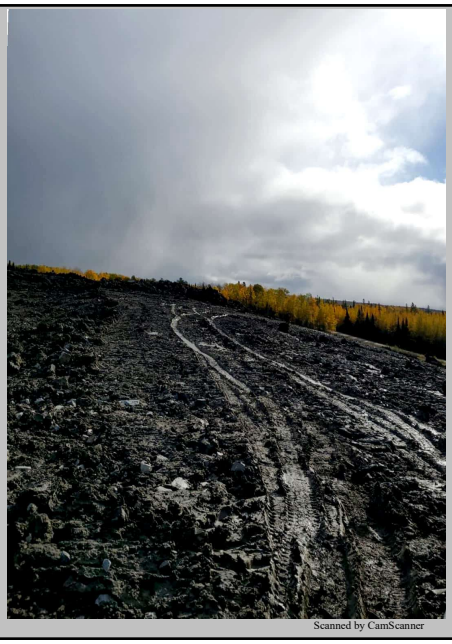


Photo #: 1

Clay material, wet and sticky.

Photo #: 2

Material starting to dry out late in the day.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 2, 2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 3 / 0 Humidity: 0 to 20% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 5 / 3 Humidity: 0 to 20% Wind: Low

Meeting Summaries

O'Kane arrived on site today around 1:00 ish.
Reviewed job.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L4 NCL	7+650 - 7+725	D8T, 155 Dozers
Pushed & placed L1 CCL	7+754 - 0+080	D65 dozer, 800 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL & NCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the rain.

Panel Approval:

Panel Description	CCL & NCL is a mix of Brena and WML, dark grey and some light brown clay mix. Sticky due to the rain.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.5m L4 NCL, 0.25m L1 CCL
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L4-053
Moisture content & hydrometer.

Moisture content is expected tomorrow October 3, 2020, the hydrometer results should be expected Oct 7, 2020.

General Daily Remarks:

NG placing & grading L4 NCL from 7+650 to 7+725. Surveyed.

NG pushing & placing L1 CCL from 7+754 to 0+080. not surveyed.

Mine Ops heavy haulers are hauling in clay material.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Placement of L4 NCL +/- 7+675.

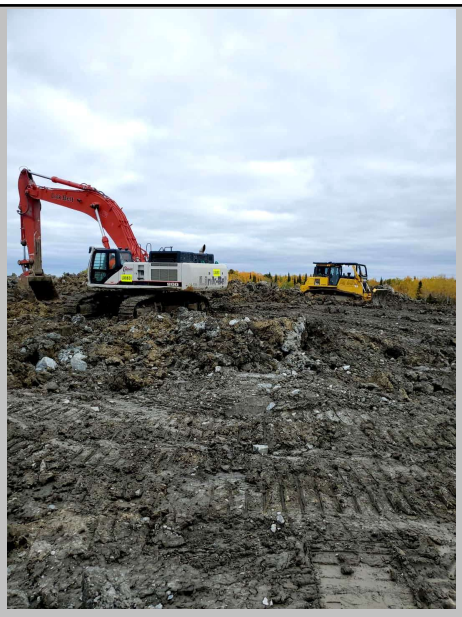


Photo #: 2

Placement of L1 CCL +/- 7+805.

Photo #: 3

Placement of L1 CCL +/- 7+800.

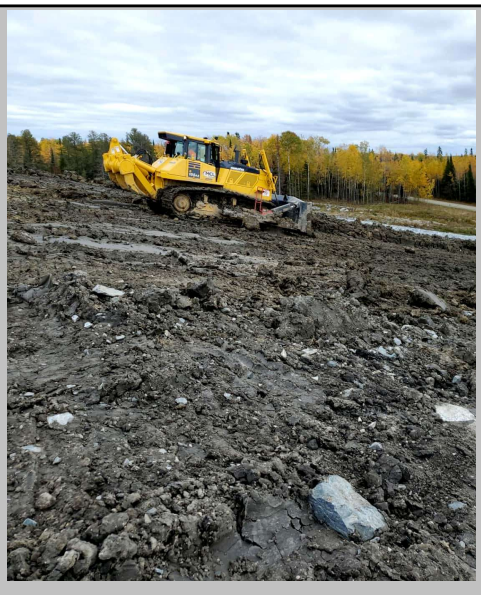


Photo #: 4

155 dozer pushing and placing L1 CCL +/- 7+800.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

D8T dozer grading L4 NCL +/- 7+700.

Photo #: 6

D65 dozer touching up the grade +/- 7+660.

Photo #: 7

Sample EMRS-L4-053.

Photo #: 8

EMRS-L4-053 sample location.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

L4 NCL +/- 7+625.

Photo #: 10

Mine Ops heavy hauler dumping clay.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 3, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 8

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 5 / -3 Humidity: 0 to 20% Wind: Still

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 9 / 5 Humidity: 0 to 20% Wind: Low

Meeting Summaries

O'Kane on site.
211 packer's sheep foot was all plugged up and densities where reading low. The sheep's foot was cleaned and instructed to make one more pass to see if that would bring up the densities. Ran out of time to check.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L1 CCL	7+740 - 0+060	D8T, 155 dozer, 800 excavator
Pushed & placed L1 CCL	0+060 - 0+125	D8T, D65, 155 dozer, 800 excava
Packing	7+740 - 7+800	211 Packer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL & NCL is a mix of Brena and WML, dark grey and some light brown clay mix.

Panel Approval:

Panel Description: CCL & NCL is a mix of Brena and WML, dark grey and some light brown clay mix.

	Yes	No	Comment
Material Inspection Suitable for Construction	✔		
Visual Inspection	✔		
Layer Thickness Acceptable	✔		0.25m L1 CCL
Water Content within Acceptable Range	✔		
Density within Acceptable Range	✔	✔	Maybe, will check again tomoı
Corrected Actions Taken	✔		Sheep's foot packer cleaned.

Testing and Sampling Completed:

Sample EMRS-L1-054
Moisture content, proctor, hydrometer, atterberg.
Sample EMRS-L1-055
Moisture content, hydrometer.
Sample EMRS-L1-056
Moisture content, proctor, hydrometer, atterberg.

Compaction test on L2 CCL BP3 821.
Compaction test on L1 CCL 517, 518, 519, 520.
Refer to attached density form.

Moisture content is expected tomorrow October 4, 2020, the hydrometer results should be expected Oct 8, 2020.

General Daily Remarks:

NG placed & graded L1 CCL from 7+740 to 0+060. Surveyed.

NG pushing & placing L1 CCL from 0+060 to 0+125. Not surveyed.

Mine Ops heavy haulers are hauling in clay material.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :
<original signed by>

CQC Representative:
<original signed by>

PHOTOGRAPHS

Photo #: 1

Compaction test 821 at Permeameter location 7+610, o/s 33.0m.

Photo #: 2

Compaction location of test 821 at Permeameter location 7+610, o/s 33.0m.

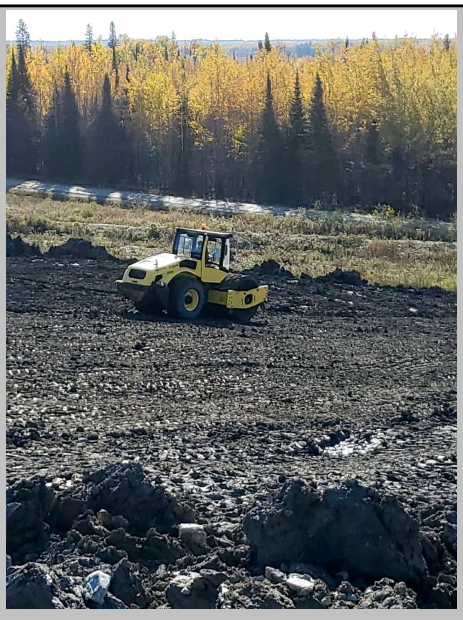


Photo #: 3

211 Packing L1 CCL +/- 7+750.

Photo #: 4

800 excavator moving clay material for dozer placement.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

155 dozer pushing & placing L1 CCL +/- 7+800.

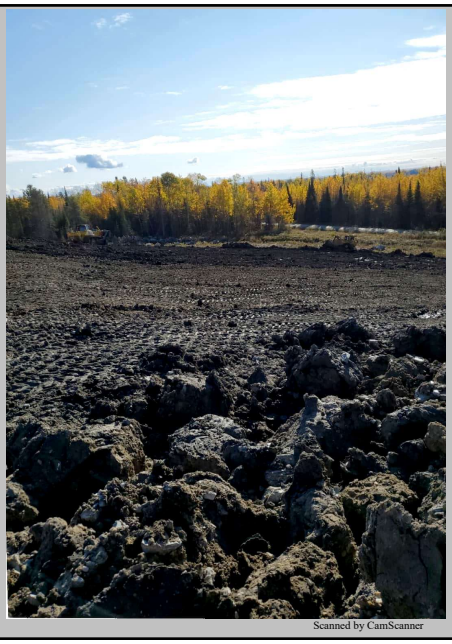


Photo #: 6

155 & D8T dozer pushing & placing L1 CCL +/- 7+800.

Photo #: 7

D8T placing & grading L1 CCL +/- 7+800.

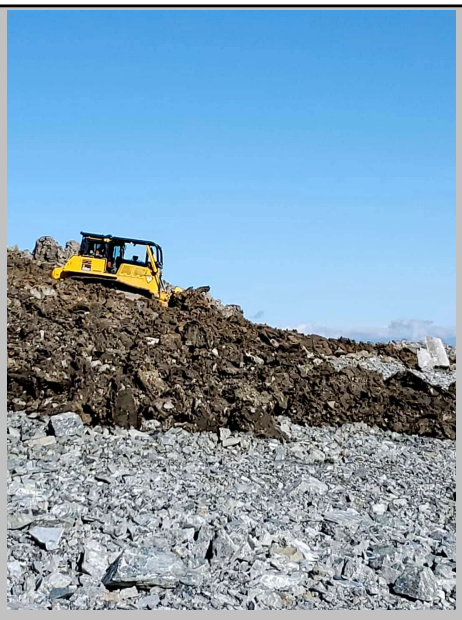


Photo #: 8

D65 dozer pushing & placing L1 CCL +/- 0+050.

Duplicate Page

PHOTOGRAPHS

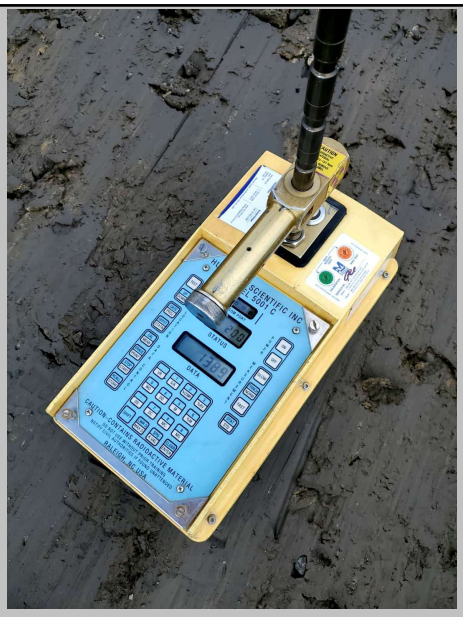


Photo #: 9

Compaction test 517.

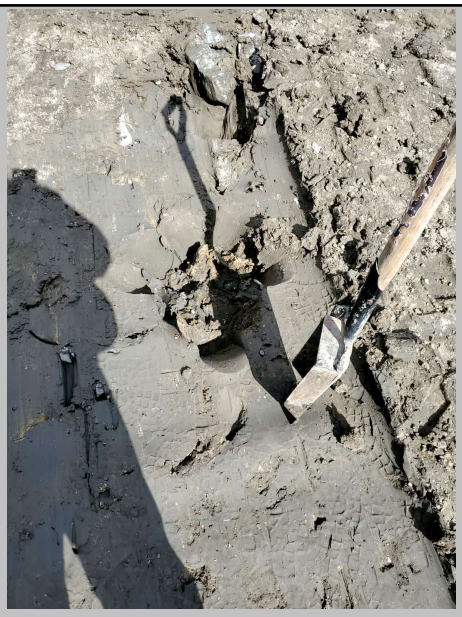


Photo #: 10

EMRS-L1-054 dig out location.

Photo #: 11

Sample EMRS-L1-054.

Photo #: 12

Compaction test 518.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 13

Compaction test 519.

Scanned by CamScanner

Photo #: 14

EMRS-L1-055 dig out location.

Scanned by CamScanner

Photo #: 15

Compaction test 520.

Scanned by CamScanner

Photo #: 16

Sample EMRS-L1-055.

Duplicate Page

PHOTOGRAPHS

Photo #: 17

EMRS-L1-056 dig out location.

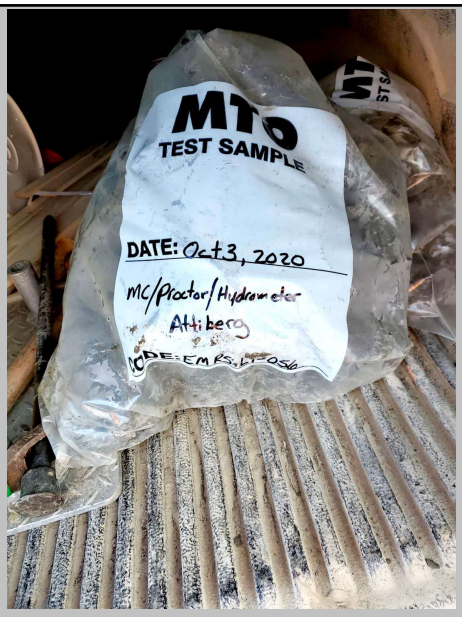


Photo #: 18

Sample EMRS-L1-056.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 4, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 7

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 9 / -1 Humidity: 0 to 20% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 12 / 9 Humidity: 0 to 20% Wind: Moderate

Meeting Summaries

O'Kane on site. Retested compaction tests 518A, 518B, 519A, 520A due to the packer issues yesterday. Some of these tests didn't prove to be any better densities. O'Kane gave NG the go ahead to start placing L2 CCL.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L1 CCL	0+060 - 0+115	D8T, D65 dozers
Pushed & placed L2 CCL	7+755 - 7+775	D8T, D65 dozer, 800 excavator
Placed & graded L2 CCL	7+733 - 7+755	D8T, D65 dozer, 800 excavator

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

CCL & NCL is a mix of Brena and WML, dark grey and some light brown clay mix.

Panel Approval:

Panel Description	CCL & NCL is a mix of Brena and WML, dark grey and some light brown clay mix.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.25m L1 & L2 CCL
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☑	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Compaction retest on L1 CCL 518A, 518B, 519A, 520A.
Refer to attached density form.
Compaction test on L1 CCL 521, 522, 523.
Refer to attached density form.
Sample EMRS-L1-057
Moisture content, hydrometer.
Sample EMRS-Stockpile-058
Moisture content, hydrometer.
Moisture content is expected tomorrow October 5, 2020, the hydrometer results should be expected Oct 9, 2020.

General Daily Remarks:

NG placed & graded L1 CCL from 0+060 to 0+115. Surveyed.
NG placed & graded L2 CCL from 7+733 to 7+755. Surveyed.
NG pushing & placing L2 CCL from 7+755 to 7+775. Not surveyed.
Mine Ops heavy haulers are hauling in clay material.
Compaction continuous all day on L1 CCL.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Compaction retest 519A.

Photo #: 2

Compaction retest 518A.

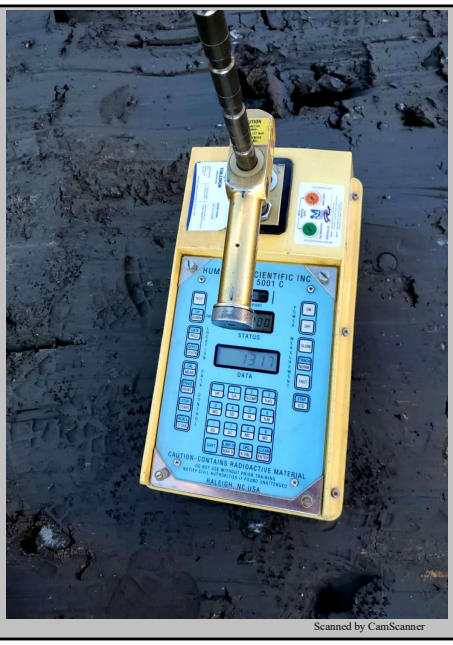


Photo #: 3

Compaction retest 518B.

Photo #: 4

Compaction retest 520A.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 5

211 packer packing L1 CCL +/- 7+790.

Scanned by CamScanner

Photo #: 6

D8T dozer grading L1 CCL +/- 0+100.

Scanned by CamScanner

Photo #: 7

Compaction test 521.

Scanned by CamScanner

Photo #: 8

Compaction test 522.

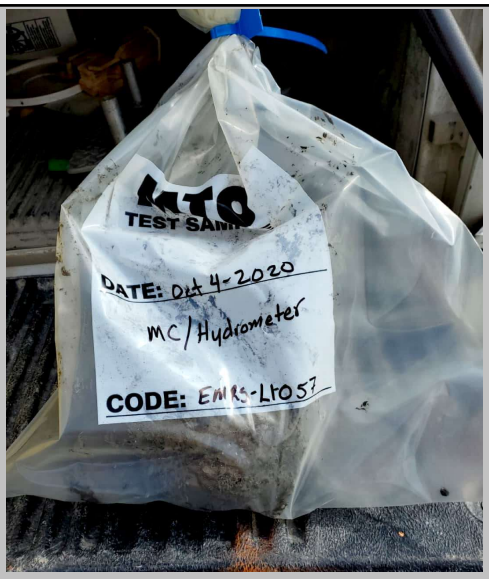
Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 9

EMRS-L1-057 dig out location.



Scanned by CamScanner

Photo #: 10

Sample EMRS-L1-057.

Scanned by CamScanner

Photo #: 11

D8T pushing L2 CCL +/- 7+740.

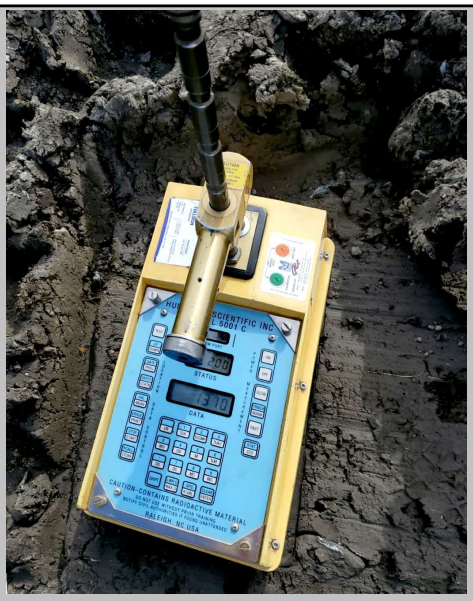

Scanned by CamScanner

Photo #: 12

Compaction test 523.

Duplicate Page

PHOTOGRAPHS

Photo #: 13

EMRS-Stockpile-058 dig out location.

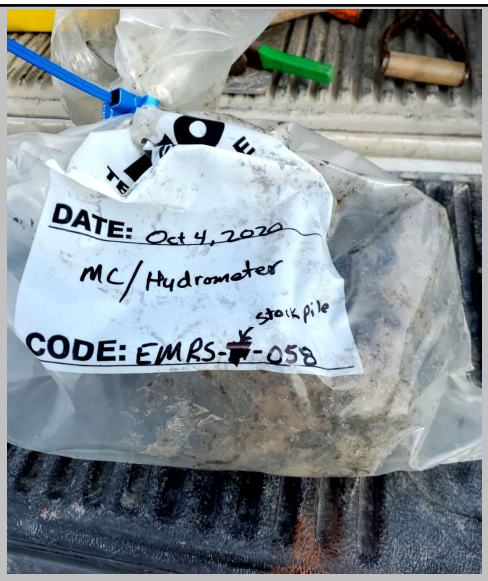


Photo #: 14

Sample EMRS-Stockpile-058.

Photo #: 15

155 dozer and 800 excavator moving clay forward for D8T dozer.

Photo #: 16

D8T dozer grading L2 CCL +/- 7+735.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 5, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 8

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 13 / 9 Humidity: 0 to 20% Wind: Low

Afternoon Conditions Weather: Showers Precipitation: 0 - 5 mm

Temperature (High/Low): 14 / 13 Humidity: 20 to 40% Wind: Moderate

Meeting Summaries

O'Kane on site. Installed BP 4. Issues with Lift 1 CCL densities and water content, extra compaction tests where performed to allow NG to place L2 CCL.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L2 CCL	7+755 - 7+810	D8T, D65,155 dozer
Placed & graded L1 CCL	7+795 - 0+008	210 excavator
packing	L1 & L2 CCL	211 packer

Key-in Trench:

Location	CCL Contact Material	Comment
7+816 - 0+008	Blueish Clay	+/- 1m depth/ some bedrock

Description of CCL Material:

CCL & NCL is a mix of Brena and WML, dark grey and some light brown clay mix.

Panel Approval:

Panel Description	CCL & NCL is a mix of Brena and WML, dark grey and some light brown clay mix.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.25m L2 CCL
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☑	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Compaction test on L1 CCL 524, 525, 526, 527, 528,527A, 527B, 822.
Refer to attached density form.
Sample EMRS-L1-059, EMRS-L1-061
Moisture content, proctor, hydrometer, atterberg.
Sample EMRS-L1-060
Moisture content, hydrometer.
Moisture content is expected tomorrow October 6, 2020, the hydrometer results should be expected Oct 10, 2020.

General Daily Remarks:

NG placed & graded L2 CCL from 7+755 to 7+810. Surveyed.
NG excavated key trench from 7+816 - 0+008 and backfilled with L1 CCL.
Compaction continuous all day on L2 CCL & L1 CCL.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Compaction test 524.

Photo #: 2

Compaction test 525.

Photo #: 3

Sample EMRS-L1-059.

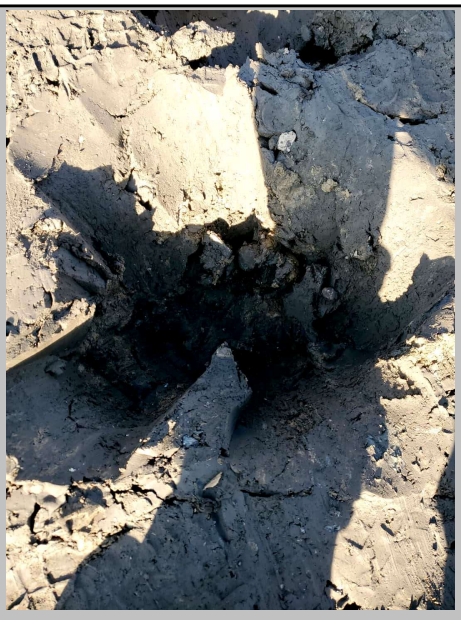


Photo #: 4

EMRS-L1-059 dig out location.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

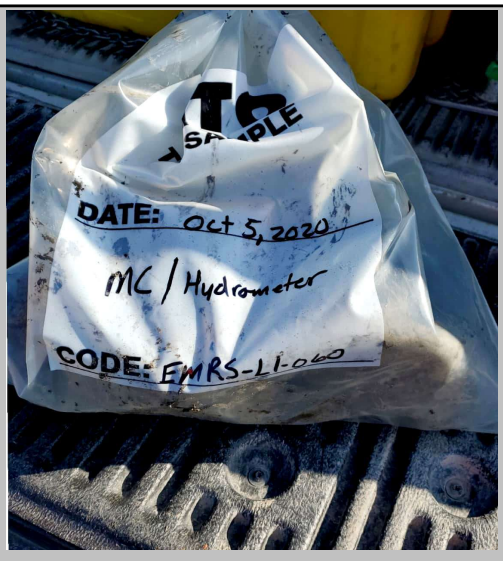
Photo #: 5

Compaction test 526.

Scanned by CamScanner

Photo #: 6

Compaction test 527.



Scanned by CamScanner

Photo #: 7

Sample EMRS-L1-060.

Scanned by CamScanner

Photo #: 8

EMRS-L1-060 dig out location.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 9

Compaction test 528.

Scanned by CamScanner

Photo #: 10

EMRS-L1-061 dig out location.

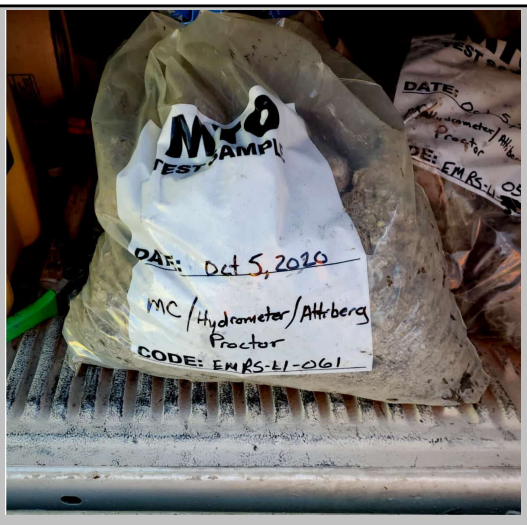


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Photo #: 11

Sample EMRS-L1-061.

Scanned by CamScanner

Photo #: 12

210 excavator at key trench, 155 dozer grading L2 CCL, 211 packer packing L2 CCL.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 13

D8T dozer grading L2 CCL +/- 7+775.

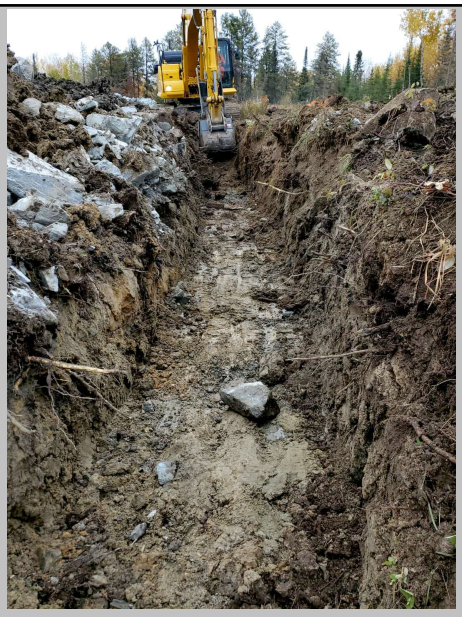
Scanned by CamScanner

Photo #: 14

Key trench excavation +/- 7+825.

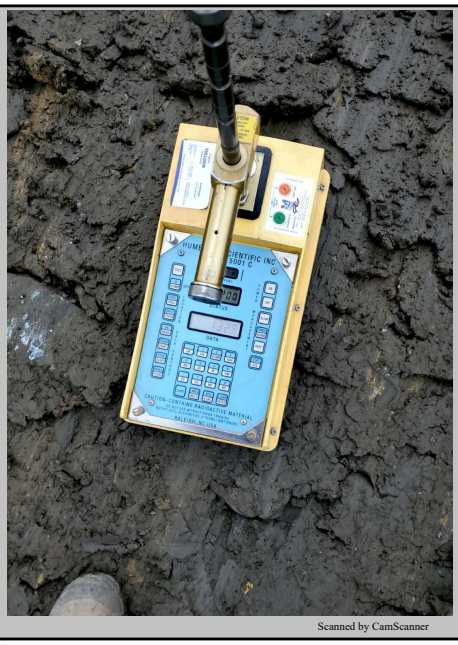
Scanned by CamScanner

Photo #: 15

Compaction test 527A.

Scanned by CamScanner

Photo #: 16

Compaction test 527B.

Duplicate Page

PHOTOGRAPHS

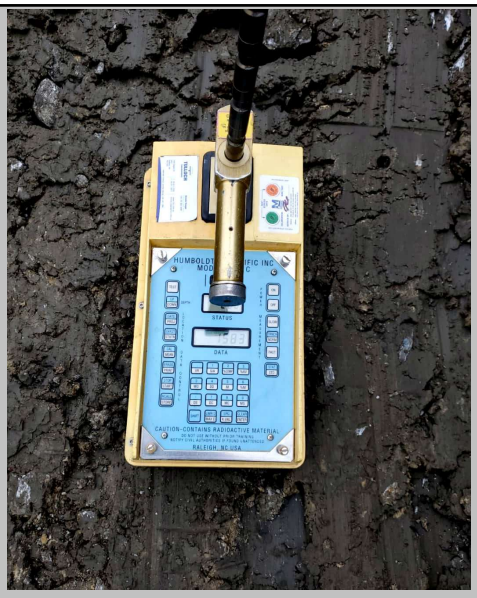

Photo #: 17

Compaction test BP4 822 .

Photo #:

Photo #:

Photo #:

Rainy River EMRS
Daily Progress Reports

Date:	October 6, 2020	**Owner/Client:**	New Gold Inc.
Day:	Tuesday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 7

Environmental Conditions:

Morning Conditions Weather: Fair; Precipitation: 0 mm

Temperature (High/Low): 10 / 4; Humidity: 60 to 80%; Wind: Still

Afternoon Conditions Weather: Showers; Precipitation: 0 - 5 mm

Temperature (High/Low): 15 / 10; Humidity: 60 to 80%; Wind: Moderate

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L2 CCL	7+778 - 0+104	D8T, D65,155 dozer
Placed & graded L1 CCL	0+008 - 0+118	210 excavator
Packing	L1 and L2 CCL	211 packer

Key-in Trench:

Location	CCL Contact Material	Comment
0+008 - 0+118	Mainly Bedrock	Rolling BR w/ clay in between

Description of CCL Material:

CCL material most likely a WML, dark grey with some light brown mixed in. Material was very malleable and could easily be rolled in your hands and hold shape. Water content seemed good, possibly wet of optimum.

Panel Approval:

Panel Description	Panel was L2 CCL. CCL material most likely a WML, dark grey with some light brown mixed in. Material was very malleable and could easily be rolled in your hands and hold shape. Water content seemed good, possibly wet of optimum.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	.25m L2 CCL
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☑	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Compaction test on L2 CCL 823, 824, 825, 826, 827, 828, 829
Refer to attached density form.
Sample EMRS-L2-063
Moisture content, proctor, hydrometer, atterberg.
Sample EMRS-L2-062 & EMRS-L2-064
Moisture content, hydrometer.
Moisture content is expected tomorrow October 7, 2020, the hydrometer results should be expected Oct 11, 2020.

General Daily Remarks:

NG placed & graded L2 CCL from 7+778 to 0+104. This section is Surveyed.
NG excavated key trench from 0+008 - 0+120 and backfilled with L1 CCL.
Compaction continuous all day on L2 CCL & L1 CCL

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Filling in key trench with L1 CCL at Sta 0+010

Photo #: 2

Stretch of key trench excavation from +/- 0+025 to 0+120

Photo #: 3

Bed rock in key trench between +/- 0+025 to 0 +120

Photo #: 4

Compaction test 823

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Sample location for EMRS-L2-062

Photo #: 6

Compaction test 824

Photo #: 7

Compaction test 825

Photo #: 8

Sample location for EMRS-L2-063

Duplicate Page

PHOTOGRAPHS

Photo #: 9

Compaction test 826

Photo #: 10

Panel of L2 CCL being compacted.

Photo #: 11

D65 dozer pushing L2 CCL

Photo #: 12

210 packer packing L1 CCL in key trench between +/- 0+008 to 0+120

Duplicate Page

PHOTOGRAPHS

Photo #: 13

Compaction test 827

Photo #: 14

Compaction test 829

Photo #: 15

Sample location for EMRS-L2-064

Photo #:

Rainy River EMRS
Daily Progress Reports

Date:	October 7, 2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 - 5 mm

Temperature (High/Low): 8 / 5 Humidity: 60 to 80% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 - 5 mm

Temperature (High/Low): 11 / 8 Humidity: 60 to 80% Wind: Moderate

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Stockpile material	+/- sta 7+850 corner	D155 & D65 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

No CCL material placed today.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

No Testing or sampling completed today.

General Daily Remarks:

Material was to wet from the rain we received last night so no material was placed today. NG worked to clean up and stockpile material at the crest of the slope to increase efficiency when the material drys and they are able to place again.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Small amounts of ponding water on L2 CCL material.

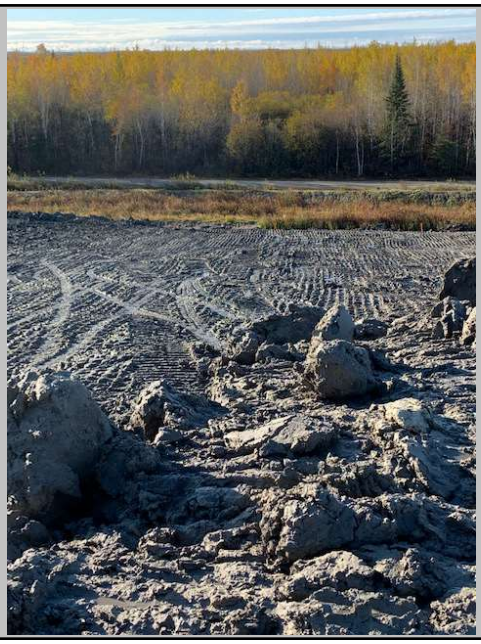

Photo #: 2

Wet L3 Material that was starting to be placed at end of shift yesterday.

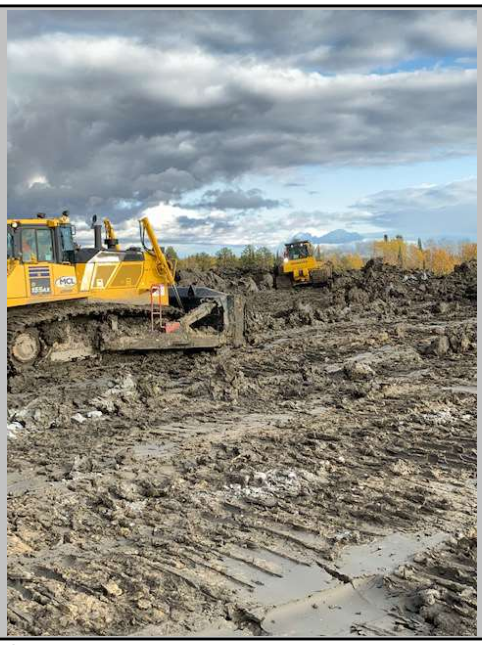

Photo #: 3

D155 and D65 dozer cleaning up and stock piling material

Photo #: 4

Komatsu 830 delivering clay material.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 8, 2020	**Owner/Client:**	New Gold Inc.
Day:	Thursday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 8 / -2 Humidity: 40 to 60% Wind: Still

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 14 / 10 Humidity: 40 to 60% Wind: Low

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L3 NCL	7+733 - 7+756	D8T & D65 dozer
Pushed & placed L3 NCL	7+756 - 7+806	210 excavator & D155 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

No CCL material was placed today.

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L3-065
Moisture content & hydrometer
Sample EMRS-L2-066 & EMRS-L2-067
Moisture content
Moisture content is expected tomorrow October 9, 2020, the hydrometer results should be expected Oct 13, 2020.

General Daily Remarks:

NG placed & graded L3 NCL from sta 7+733 to 7+756. This section is Surveyed. NG continued to push L3 NCL from sta 7+756 to 7+806.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

D155 dozer pushing L3 NCL.

Photo #: 2

D8T dozer grading L3 NCL

Photo #: 3

Komatsu 830 delivery clay material.

Photo #: 4

EMRS-L3-065 sample location.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

EMRS-L2-066 sample location.

Photo #: 6

EMRS-L2-067 sample location

Photo #: 7

D65 and D8T dozer grading L3 NCL

Photo #: 8

210 excavator bulking L3 NCL material to D155 dozer.

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 9, 2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 7

Environmental Conditions:

Morning Conditions Weather: Clear; Precipitation: 0 mm

Temperature (High/Low): 13 / 7; Humidity: 40 to 60%; Wind: Low

Afternoon Conditions Weather: Fair; Precipitation: 0 mm

Temperature (High/Low): 19 / 13; Humidity: 40 to 60%; Wind: Moderate

Meeting Summaries

Talked to Hal from Okane regarding varying dry density and moisture content values i was getting while testing L2 CCL that was placed on Oct 6, 2020. As per his recommendation the packer did 4 more passes over the location of Compaction test 832 and was then retested (Comp 832A) to confirm material was meeting compaction standards and that the lower dry density values were due to slightly higher moisture content from the rain. Reference Field Density sheet for results.

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L3 NCL	7+756 - 7+780	D8T & D155 dozer
Pushed & placed L3 NCL	7+780 - 0+062	210 excavator & D155 dozer
Packed L2 CCL	0+062 - 0+0104	211 Packer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

Did not place any new CCL material today, only packing material that was placed on Oct 6, 2020. CCL material most likely a WML, dark grey with some light brown mixed in. Material was very malleable and could easily be rolled in your hands and hold shape. Water content of the CCL on the surface seemed wet of optimum due to rain we had on Oct 6, 2020. Seemed to get better below the top layer.

Panel Approval:

Panel Description	Panels moisture seemed wet of optimum even though it has been exposed since Oct 6, 2020. material on the surface was starting to dry out but not a lot. Equipment would leave some minor ruts when driving on L2 CCL material.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	+/-.3
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☑	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Compaction test on L2 CCL 830, 831, 832, and 832A (retest)
Refer to attached density form.
Sample EMRS-L2-068 & EMRS-L2-070
Moisture content
Sample EMRS-L2-069
Moisture content, hydrometer & atterburg
Moisture content is expected tomorrow October 10, 2020, the hydrometer and atterburg results should be expected Oct 14, 2020.

General Daily Remarks:

NG placed & graded L3 NCL from sta 7+756 to 7+780, o/s -10m to -90 m. This section is Surveyed. NG continued to push L3 NCL from sta 7+780 to 0+062.
NG also spent the day packing L2 CCL from sta 0+062 to 0+104.

Mine ops 401 dozer was reshaping/improving the PAG slope ahead of where we are currently working in preparation for future L1 CCL placement. There is a section of PAG toe that was pushed to close to the ditch and NG construction will have to use the excavator to clean this area up when excavating the key trench.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

211 packer packing L2 CCL at +/- sta 0+062

Photo #: 2

L2 CCL panel from sta 0+062 to 0+104.

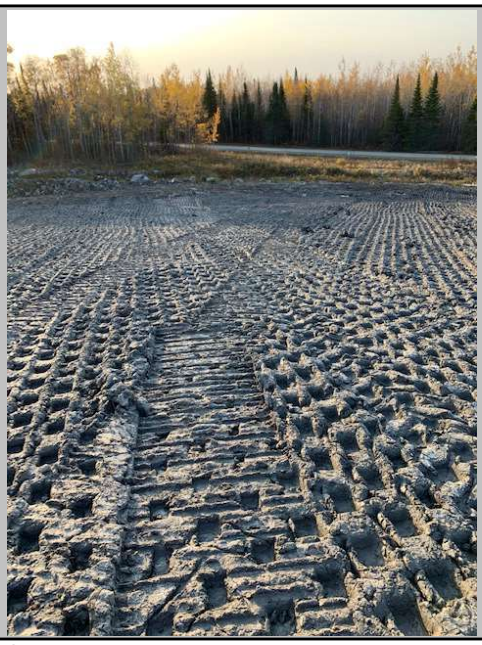

Photo #: 3

L2 CCL panel that was approved today.

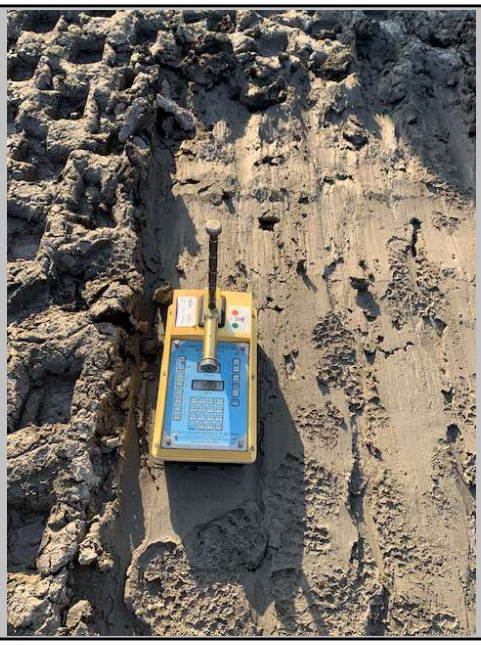

Photo #: 4

Compaction test 830.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

EMRS-L2-068 sample location.

Photo #: 6

Compaction test 831.

Photo #: 7

EMRS-L2-069 sample location.

Photo #: 8

Compaction test 832.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

EMRS-L2-070 sample location.

Photo #: 10

Area of PAG that need to be fixed by mine ops prior to future L1 CCL placement

Photo #: 11

210 excavator bulking material to D155 dozer.

Photo #: 12

Compaction test 832A.

Duplicate Page

PHOTOGRAPHS

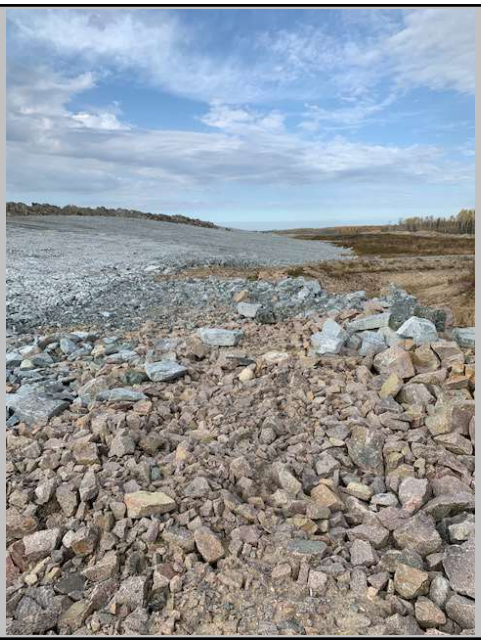

Photo #: 13

Section where PAG slope toe was pushed to far.

Photo #: 14

401 Dozer fixing up PAG slope.

Photo #: 3

Photo #: 4

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 10, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 7

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 9 / 5 Humidity: 40 to 60% Wind: Low

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 11 / 9 Humidity: 40 to 60% Wind: Moderate

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L3 NCL	7+769 - 7+843	D8T & D155 dozer
Pushed & placed L3 NCL	7+843 - 0+117	210 excavator & D155 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

No CCL material was placed today. Tested and approved panel of L3 CCL material that was placed on Oct 6, 2020 and packed yesterday. CCL material most likely a WML, dark grey with some light brown mixed in. Material was very malleable and could easily be rolled in your hands and hold shape. Water content of the CCL seemed good and was dryer then yesterday.

Panel Approval:

Panel Description	Panel was dryer then it was yesterday when packed. Equipment could drive on it and would not rut as bad. Moisture content seemed a lot better but did vary throughout the panel even though material seemed consistent.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	+/-.3
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☑	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Compaction test on L2 CCL 833, 834, 835, 836, 837, 838.
Refer to attached density form.
Sample EMRS-L2-071, EMRS-L2-072, EMRS-L2-074 and EMRS-L2-075.
Moisture content
Sample EMRS-L2-073
Moisture content, hydrometer, atterburg, and proctor.
Sample EMRS-L2-076
Moisture content, hydrometer & atterburg
Sample EMRS-L3-077
Moisture content & hydrometer
Moisture contents are expected tomorrow October 11, 2020, the hydrometer, atterburg, and proctor results should be expected Oct 15, 2020.

General Daily Remarks:

NG placed & graded L3 NCL from sta 7+769 - 7+843, o/s 8m to -88 m. This section is Surveyed. NG continued to push L3 NCL from sta 7+843 to 0+117.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :
<original signed by>

CQC Representative:
<original signed by>

PHOTOGRAPHS

Photo #: 1

L2 CCL panel that was approved today.

Photo #: 2

Compaction test 833.

Photo #: 3

EMRS-L2-071 sample location.

Photo #: 4

Compaction test 834.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

EMRS-L2-072 sample location.

Photo #: 6

Compaction test 835.

Photo #: 7

EMRS-L2-073 sample location.

Photo #: 8

Compaction test 836.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

EMRS-L2-074 sample location.

Photo #: 10

Compaction test 837.

Photo #: 11

EMRS-L2-075 sample location.

Photo #: 12

Compaction test 838.

Duplicate Page

PHOTOGRAPHS

Photo #: 13

EMRS-L2-076 sample location.

Photo #: 14

D65 dozer pushing L3 NCL

Photo #: 15

D65 dozer and D8T dozer grading L3 NCL.

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 11, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Cloudy; Precipitation: 0 - 5 mm

Temperature (High/Low): 9 / 5; Humidity: 40 to 60%; Wind: High

Afternoon Conditions Weather: Cloudy; Precipitation: Choose from list

Temperature (High/Low): 14 / 9; Humidity: 40 to 60%; Wind: High

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L3 NCL	0+015 - 0+116	D8T & 210 excavator
Pushed & placed L4 NCL	7+733 - 7+775	D8T and D155 dozer

Key-in Trench:

Location	CCL Contact Material	Comment
0+120 - 0+0129	Bedrock	Excavated on Oct 6, 2020

Description of CCL Material:

No CCL material placed today.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took sample EMRS-L3-078
Moisture and hydrometer.
Moisture contents are expected tomorrow October 12, 2020, the hydrometer results should be expected Oct 16, 2020.

General Daily Remarks:

NG placed & graded L3 NCL from sta 0+015 - 0+116, o/s -1m to -70 m. This section is Surveyed. NG continued to push L4 NCL from sta 7+733 to 7+775.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Digitally signed by Garry Noga

<original signed by>

CQC Representative:

<original signed by>

-04'00'

PHOTOGRAPHS

Photo #: 1

NG construction haul truck delivering clay material.

Photo #: 2

Location of sample EMRS-L3-078.

Photo #: 3

210 excavator bulking material onto L3 NCL

Photo #: 4

Finished panel of L3 NCL from sta 0+015 - 0+116.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

D155 dozer pushing L4 NCL material.

Photo #: 6

Panel of L4 NCL NG started placing.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 13, 2020	**Owner/Client:**	New Gold Inc.
Day:	Tuesday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Showers Precipitation: 0 - 5 mm

Temperature (High/Low): 7 / 5 Humidity: 20 to 40% Wind: Moderate

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 10 / 7 Humidity: 20 to 40% Wind: High

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
N/A	N/A	N/A

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

No CCL material was placed today.

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

No testing or sampling completed today.

General Daily Remarks:

No work was done at the EMRS reclamation today due to rain the NG rainy river site received last night and the material being to saturated.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #:	Photo #:
Photo #:	Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 14, 2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Rain; Precipitation: 5 - 10 mm

Temperature (High/Low): 5 / 3; Humidity: 80 to 100%; Wind: Low

Afternoon Conditions Weather: Choose from list; Precipitation: 5 - 10 mm

Temperature (High/Low): 7 / 5; Humidity: 80 to 100%; Wind: Moderate

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
N/A	N/A	N/A

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

No CCL material placed today.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

No testing or sampling completed today.

General Daily Remarks:

No work was done at the EMRS reclamation today due to rain and conditions being unsuitable to place material.

Update: to date NG has placed roughly 575m of L1 CCL, L2 CCL & L3 NCL along with 375m of L4 NCL. Tulloch has taken 78 material samples and completed 68 Nuclear density tests. From the 78 samples taken Allnorth has completed 131 material tests.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #:

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 15, 2020	**Owner/Client:**	New Gold Inc.
Day:	Thursday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 0 / -3 Humidity: 40 to 60% Wind: Low

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 5 / 0 Humidity: 40 to 60% Wind: Moderate

Meeting Summaries

Work Location and Tasks

Task Description	Location of Work	Equipment & Personnel Used
N/A	N/A	N/A

Key-in Trench:

Location	CCL Contact Material	Comment

Description of CCL Material:

No CCL material was placed today.

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

No testing or sampling completed today.

General Daily Remarks:

No work was done at the EMRS reclamation today due to rain and conditions being unsuitable to place material.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #:

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 16, 2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions

Weather: Snow

Precipitation: > 30 mm

Temperature (High/Low): -3 / -3

Humidity: 40 to 60%

Wind: Still

Afternoon Conditions

Weather: Cloudy

Precipitation: 0 mm

Temperature (High/Low): 0 / -3

Humidity: 40 to 60%

Wind: Moderate

Meeting Summaries

Discussed with Hal from Okane this morning if we were allowed to place L4 NCL with there being approximately 2.5 - 5cm of snow on the ground and he said no that we would have to let the snow melt or remove the snow prior to placing. Also, that if the snow melted to make sure the L3 NCL was not over saturated prior to L4 NCL placement.

General Remarks

No material was placed at the EMRS reclamation today due to snow and conditions being unsuitable to place material.

NG and the Veert dozer did start pushing the material that was stockpiled earlier in the week by NG Construction closer to the slope to speed up productivity once NG is able to place L4 NCL.

Description of CCL Material:

No CCL material was placed today.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

No testing or sampling completed today.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Push stockpiled material	+/- Sta 0+000	D8T and D155 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Stockpiled material this morning that was delivered by NG Construction earlier in the week.

Photo #: 2

Section of L4 NCL that NG started placing earlier in the week.

Photo #: 3

Section of L3 NCL NG will be placing on next.

Photo #: 4

D8T dozer making first push through stockpiled L4 NCL towards the slope.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

D8T Dozer stockpiling L4 NCL near slope.

Photo #: 6

Stockpile area after the D8T and D155 dozer moved some of the material.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 17, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 0 / -3 Humidity: 40 to 60% Wind: Still

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 3 / 0 Humidity: 40 to 60% Wind: Still

Meeting Summaries

General Remarks

No material was placed at the EMRS reclamation today due to snow and conditions being unsuitable to place material.

Description of CCL Material:

No CCL material was placed today.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

No testing or sampling completed today.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Section of L3 NCL NG will be placing L4 NCL on next.

Photo #: 2

Panel of L3 NCL from +/- 0+040 to 0+116.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 18, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Snow Precipitation: > 30 mm

Temperature (High/Low): -2 / -3 Humidity: 40 to 60% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): -1 / -2 Humidity: 40 to 60% Wind: Low

Meeting Summaries

General Remarks

No material was placed at the EMRS reclamation today due to snow and conditions being unsuitable to place material.

NG started to stockpile some NCL material in preparation to place this morning but then got shut down due to snow.

Description of CCL Material:

No CCL material was placed today.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

No testing or sampling completed today.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Push stockpiled material	+/- Sta 0+000	D155 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Section of L4 NCL NG started placing earlier this week.

Photo #: 2

Section of L3 NCL NG will be covering next.

Photo #: 3

NCL stockpiles ready to be pushed onto slope when conditions are suitable.

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 18, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 4

Environmental Conditions:

Morning Conditions Weather: Snow Precipitation: > 30 mm

Temperature (High/Low): -2 / -3 Humidity: 40 to 60% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): -1 / -2 Humidity: 40 to 60% Wind: Low

Meeting Summaries

General Remarks

No material was placed at the EMRS reclamation today due to snow and conditions being unsuitable to place material.

NG started to stockpile some NCL material in preparation to place this morning but then got shut down due to snow.

Description of CCL Material:

No CCL material was placed today.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

No testing or sampling completed today.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Push stockpiled material	+/- Sta 0+000	D155 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Digitally signed by Garry Noga

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Section of L4 NCL NG started placing earlier this week.

Photo #: 2

Section of L3 NCL NG will be covering next.

Photo #: 3

NCL stockpiles ready to be pushed onto slope when conditions are suitable.

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 19, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): -3 / -4 Humidity: 40 to 60% Wind: Still

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): -1 / -3 Humidity: 40 to 60% Wind: Still

Meeting Summaries

Various discussions throughout the day with Okane in reference to snow being present on the L3 NCL and how to proceed with L4 NCL Placement. Refer to attached EMRS L4 NCL Placement e-mail.

General Remarks

NG started clearing snow from sta +/- 7+770 - 7+805, preparing to place L4 NCL.

Description of CCL Material:

No CCL material was placed today.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took sample EMRS-L3-079 and EMRS-L3-080
Moisture and hydrometer
and EMRS-L3-080
Moisture
Moisture content is expected tomorrow October 20, 2020, the hydrometer results should be expected Oct 24, 2020.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Clear Snow	+/- 7+770 - 7+805	D155 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Section of L3 NCL before the snow was removed

Photo #: 2

Comp L3-NCL-MC (chk 1)

Photo #: 3

EMRS-L3-079 sample location

Photo #: 4

Comp L3-NCL-MC (chk 2)

Duplicate Page

PHOTOGRAPHS

Photo #: 5

EMRS-L3-080 sample location

Photo #: 6

D155 dozer clearing off snow from section of unfinished L4 NCL.

Photo #: 7

Stockpile of NCL on the slope crest.

Photo #: 8

Section of L3 NCL with snow removed ready for L4 NCL placement.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

Stockpile of NCL on the slope crest.

Photo #: 10

Area of stockpiled NCL material.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 19, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**OKC Project #:**	1003-19
Prepared by:	Brysin Shaw	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): -3 / -4 Humidity: 40 to 60% Wind: Still

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): -1 / -3 Humidity: 40 to 60% Wind: Still

Meeting Summaries

Various discussions throughout the day with Okane in reference to snow being present on the L3 NCL and how to proceed with L4 NCL Placement. Refer to attached EMRS L4 NCL Placement e-mail.

General Remarks

NG started clearing snow from sta +/- 7+770 - 7+805, preparing to place L4 NCL.

Description of CCL Material:

No CCL material was placed today.

Panel Approval:

Panel Description

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Took sample EMRS-L3-079 and EMRS-L3-080
Moisture and hydrometer
and EMRS-L3-080
Moisture
Moisture content is expected tomorrow October 20, 2020, the hydrometer results should be expected Oct 24, 2020.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Clear Snow	+/- 7+770 - 7+805	D155 dozer

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Section of L3 NCL before the snow was removed

Photo #: 2

Comp L3-NCL-MC (chk 1)

Photo #: 3

EMRS-L3-079 sample location

Photo #: 4

Comp L3-NCL-MC (chk 2)

Duplicate Page

PHOTOGRAPHS

Photo #: 5

EMRS-L3-080 sample location

Photo #: 6

D155 dozer clearing off snow from section of unfinished L4 NCL.

Photo #: 7

Stockpile of NCL on the slope crest.

Photo #: 8

Section of L3 NCL with snow removed ready for L4 NCL placement.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

Stockpile of NCL on the slope crest.

Photo #: 10

Area of stockpiled NCL material.

Photo #:

Photo #:

Duplicate Page

Date:	October 20, 2020	**Owner/Client:**	New Gold Inc.
Day:	Tuesday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 7

Environmental Conditions:

Morning Conditions Weather: Cloudy; Precipitation: 0 mm

Temperature (High/Low): -1 / -12; Humidity: 0 to 20%; Wind: Still

Afternoon Conditions Weather: Snow; Precipitation: 0 - 5 mm

Temperature (High/Low): -1 / -2; Humidity: 80 to 100%; Wind: Low

Meeting Summaries

New Gold announced that the EMRS will continue placement as long as temperatures permit.

General Remarks

New Gold returned to the EMRS. Removed snow on L3 prior to placing L4 NCL.
NG placed & graded L4 NCL from 7+725 to 7+800. Surveyed.
NG pushing & placing L4 NCL from 7+800 to 0+060. Not surveyed.

Description of CCL Material:

No CCL placed.

Panel Approval:

Panel Description: NCL is a mix of Brena and WML, dark grey and some light brown clay mix.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.5m L4 NCL
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L4-081
Moisture content.
Sample EMRS-L4-082
Moisture content, hydrometer.
Moisture content is expected tomorrow October 21, 2020, the hydrometer results should be expected Oct 26, 2020.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L4 NCL	7+725-7+800 o/s -90 - -12	D8T, D65, 155 dozers
Pushed & placed L4 NCL	7+800-0+060 o/s -86 - -3	D8T, D65, 155 dozers

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

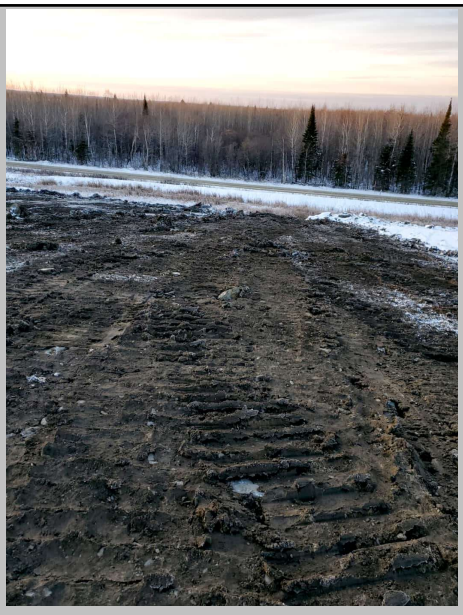

Photo #: 1

Snow cleared on L4 NCL prior to grading +/- 7+735.

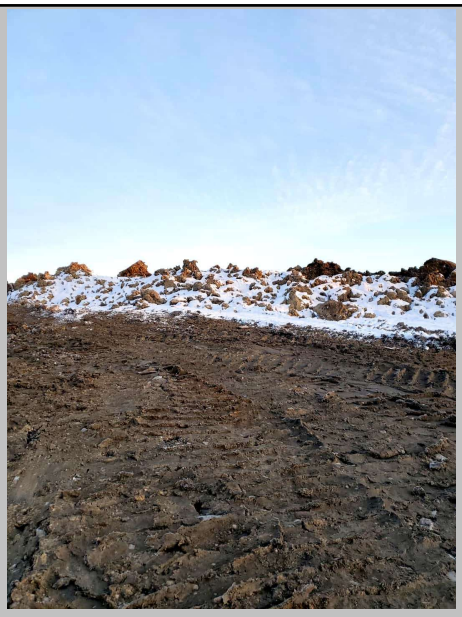

Photo #: 2

Snow cleared on L4 NCL prior to grading +/- 7+735.

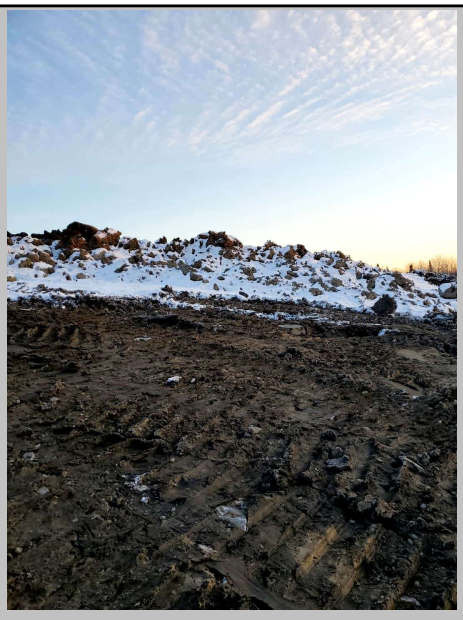

Photo #: 3

Snow cleared on L4 NCL prior to grading +/- 7+750.

Photo #: 4

Graded L4 NCL +/- 7+740.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Temperature of newly placed L4 NCL 7+753, o/s -58.9m.

Photo #: 6

D8 & 155 dozers pushing and grading L4 NCL +/- 7+770.

Photo #: 7

D65 dozer pushing L4 NCL +/- 7+760.

Photo #: 8

Temperature of existing placed L3 NCL 0+053, o/s -58.9m.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

Existing L3 prior to placement of L4 +/- 7+770.

Photo #: 10

D8 dozer pushing & grading L4 NCL +/- 7+780.

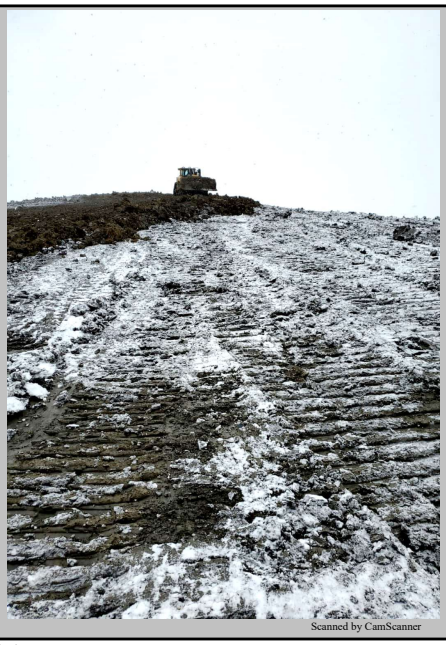

Photo #: 11

D8 dozer pushing L4 NCL +/- 0+050.

Photo #: 12

Sample taken EMRS-L4-081. Moisture content.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 13

Sample taken EMRS-L4-081. Moisture content and Hydrometer.

Scanned by CamScanner

Photo #: 14

D65, 155, D8 dozers pushing & grading L4 NCL +/- 7+800.

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 21, 2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 7

Environmental Conditions:

Morning Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 0 / -2 Humidity: 40 to 60% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 1 / 0 Humidity: 60 to 80% Wind: Moderate

Meeting Summaries

Telephone meeting today with Hal, Haley, Garry and myself. Discussed work moving forward with NG planning on placing until weather and temperature stops them. OKane is working on putting together a weather and temperature procedure document for New Gold to follow.

General Remarks

Removed snow on L3 prior to placing L4 NCL.
NG placed & graded L4 NCL from 7+800 to 0+055. Surveyed.

Description of CCL Material:

No CCL placed.

Panel Approval:

Panel Description: NCL is a mix of Brena and WML, dark grey and some light brown clay mix.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.5m L4 NCL
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L4-083
Moisture content.
Sample EMRS-L4-084
Moisture content, hydrometer.
Sample EMRS-L4-085
Moisture content.
Moisture content is expected tomorrow October 22, 2020, the hydrometer results should be expected Oct 27, 2020.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L4 NCL	7+800-0+055 o/s -87m - 2m	D8T, D65, 155 dozers

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :
Digitally signed by
<original signed by>

CQC Representative:
<original signed by>

PHOTOGRAPHS

Photo #: 1

D8 bulking L4 NCL material at the crest prior to snow removal.

Photo #: 2

Snow being removed prior to placing L4 NCL.

Photo #: 3

D65 grading L4 NCL 7+810.

Photo #: 4

D65 dozer removing snow off of L3 NCL.

Duplicate Page

PHOTOGRAPHS

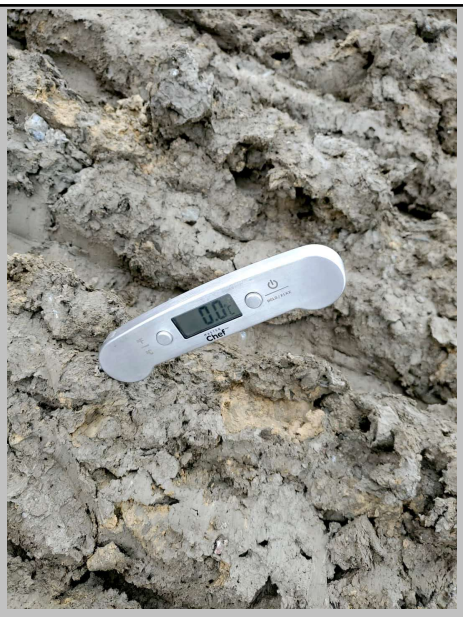

Photo #: 5

Temperature of newly placed L4 NCL 0+051, o/s -57.4m.

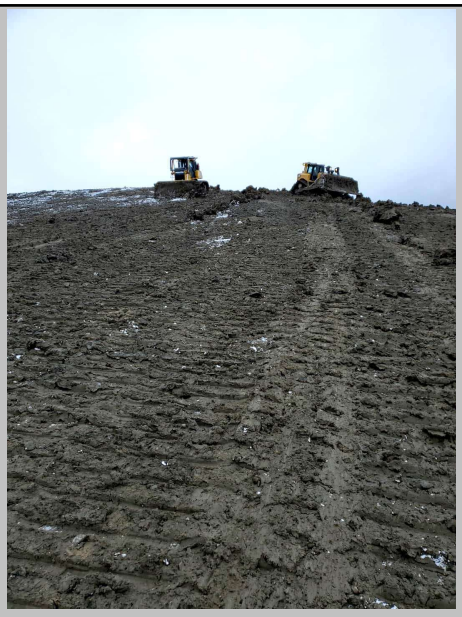

Photo #: 6

D65 & D8T dozers grading L4 NCL +/- 7+820.

Photo #: 7

Temperature of newly placed L4 NCL 7+829, o/s -28.8m.

Photo #: 8

Temperature of existing L3 NCL 0+033, o/s -20.1m.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

Placement of L4 NCL +/- 0+060.

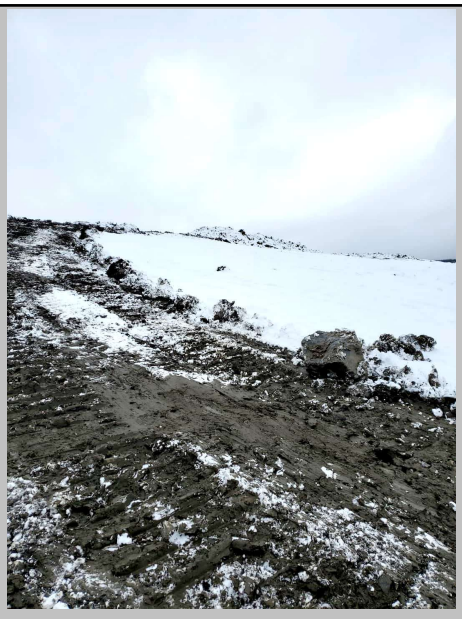

Photo #: 10

L3 NCL prior to snow being removed +/- 0+080.

Photo #: 11

Sample taken EMRS-L4-085. Moisture content.

Photo #: 12

Sample taken EMRS-L4-084. Moisture content and Hydrometer.

Duplicate Page

PHOTOGRAPHS

Photo #: 13

Sample taken EMRS-L4-083. Moisture content.

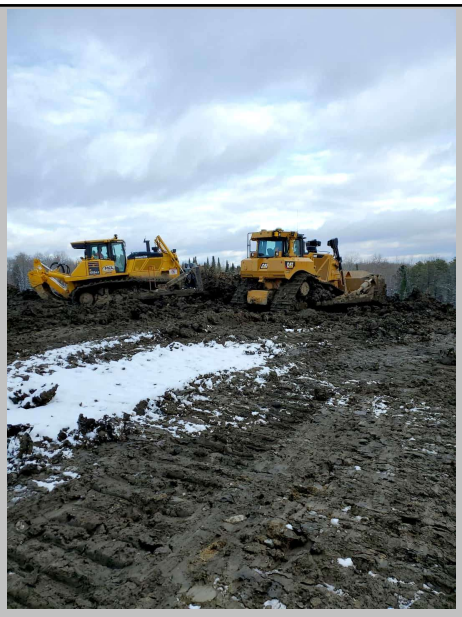

Photo #: 14

D8T & 155 dozers pushing L4 NCL material +/- 0+030.

Photo #: 15

D65 & D8T dozers grading L4 NCL +/- 0+055.

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 22, 2020	**Owner/Client:**	New Gold Inc.
Day:	Thursday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 7

Environmental Conditions:

Morning Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 0 / -4 Humidity: 40 to 60% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 2 / 0 Humidity: 40 to 60% Wind: Low

Meeting Summaries

Received last night the EMRS Cover System Placement - Frozen Conditions from OKane.

General Remarks

Removed snow on L3 prior to placing L4 NCL.
NG placed & graded L4 NCL from 0+055 to 0+088. Surveyed.

L1 CCL Trial:
Cleared snow off at 0+125 - 0+135 to perform a trial to place L1 CCL. Placed 0.30m of CCL with the D65 dozer, started to pack the CCL and the packer got stuck. We noticed the drum and tires filling up with CCL and made it very slippery.

Description of CCL Material:

No CCL placed.

Panel Approval:

Panel Description	NCL is a mix of Brena and WML, dark grey and some light brown clay mix. Very very sticky.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.5m L4 NCL
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L4-086
Moisture content.
Sample EMRS-L4-087
Moisture content, hydrometer.
Sample EMRS-L4-088
Moisture content.
Moisture content is expected tomorrow October 23, 2020, the hydrometer results should be expected Oct 28, 2020.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L4 NCL	0+055-0+088 o/s -75m - 0m	D8T, D65, 155 dozers
Trial L1 CCL	0+125 - 0+135	D65 dozer, 211 packer

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Snow being cleared off prior to placing L4 NCL +/- 0+070.

Photo #: 2

Snow cleared off prior to placing L4 NCL +/- 0+100.

Photo #: 3

155 & D8T dozers pushing L4 NCL material, to be pushed down the slope +/- 0+080.

Photo #: 4

Sample taken EMRS-L4-086. Moisture content.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Temperature of newly placed L4 NCL 0+056, o/s -21.6m.

Photo #: 6

Temperature of existing L3 NCL 0+069, o/s -24.7m.

Photo #: 7

D65 and D8T dozers placing L4 NCL +/- 0+080.

Photo #: 8

Sample taken EMRS-L4-087, moisture content & hydrometer.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

Sample taken EMRS-L4-088. Moisture content.

Photo #: 10

Temperature of newly placed L4 NCL 0+075, o/s -33.8m.

Photo #: 11

Snow cleared off between 0+125 - 0+135 for trail placement of L1 CCL.

Photo #: 12

L1 CCL placement 0+125 - 0+135.

Duplicate Page

PHOTOGRAPHS

Photo #: 13

211 packer struggling and eventually getting stuck on the slope.

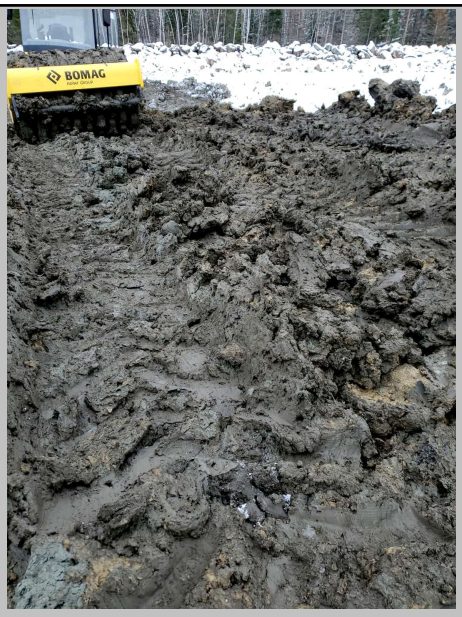

Photo #: 14

Packed surface after 1 pass.

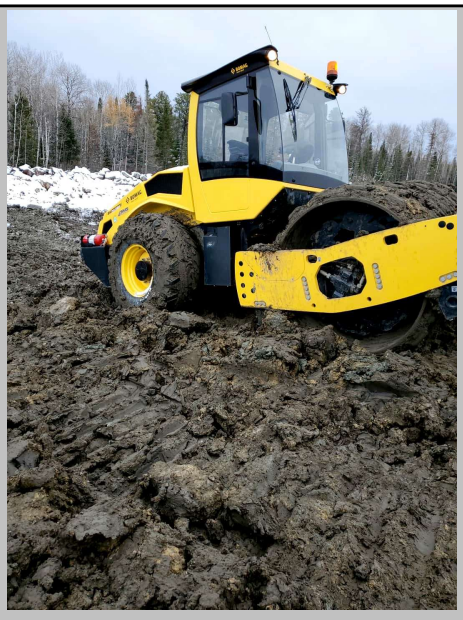

Photo #: 15

211 packer stuck. NG tried going forward and reverse. Stuck both directions.

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 23, 2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 1 / -3 Humidity: 0 to 20% Wind: Still

Afternoon Conditions Weather: Snow Precipitation: 0 - 5 mm

Temperature (High/Low): 1 / -2 Humidity: 60 to 80% Wind: Moderate

Meeting Summaries

Phone call today with Hal, Garry, Ted to discuss this weekends work plan. Haley is on her way to site to witness test trials of L1 CCL.

General Remarks

Removed snow on L3 prior to placing L4 NCL.
NG placed & graded L4 NCL from 0+069 to 0+095. Surveyed.
NG pushing & placing L4 NCL from 0+095 to 0+110. Not surveyed.
Mine Ops hauled a few loads last night of NCL material to the work front.

Description of CCL Material:

No CCL placed.

Panel Approval:

Panel Description	NCL is a mix of Brena and WML, dark grey and some light brown clay mix. Very very sticky.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.5m L4 NCL
Water Content within Acceptable Range	☑	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L4-089
Moisture content.
Sample EMRS-L4-090
Moisture content, hydrometer.
Moisture content is expected tomorrow October 24, 2020, the hydrometer results should be expected Oct 29, 2020.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L4 NCL	0+069-0+095 o/s 0m - -77m	D65, 155 dozers
Placed L4 NCL	0+095-0+110 o/s -50m - -72	D65, 155 dozers

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 1

Placed L4 NCL +/- 0+078.

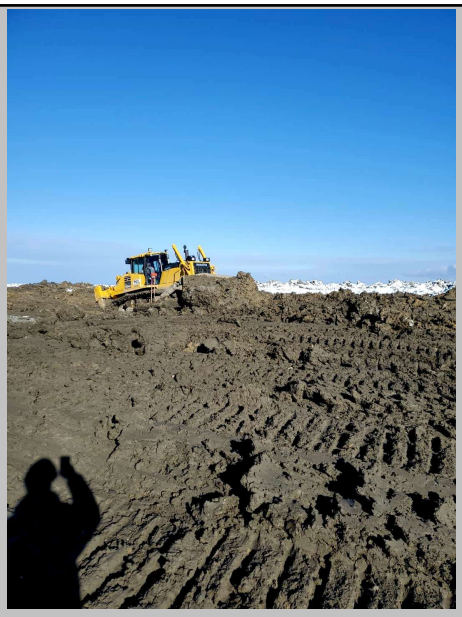
Scanned by CamScanner

Photo #: 2

155 dozer pushing NCL clay for placement.

Scanned by CamScanner

Photo #: 3

Temperature of newly placed L4 NCL 0+078, o/s -65.7m.

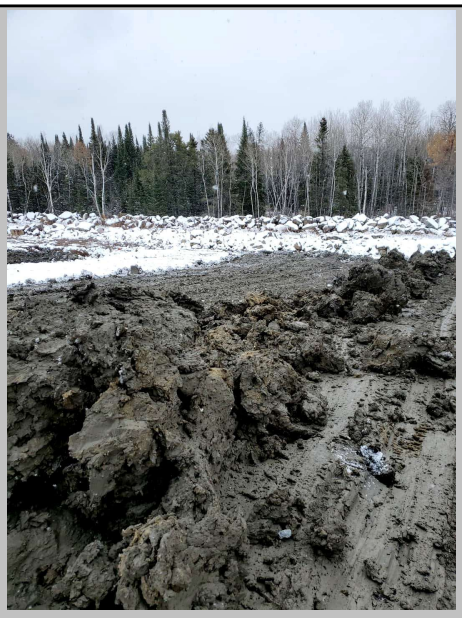
Scanned by CamScanner

Photo #: 4

Snow cleared off prior to placing L4 NCL +/- 0+120.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Temperature of newly placed L4 NCL 0+086, o/s -38.2m. Material was hauled in last night.

Photo #: 6

Temperature of existing L3 NCL 0+087, o/s -16.3m.

Photo #: 7

Sample taken EMRS-L4-089. Moisture content.

Photo #: 8

Todays placement at 0+090.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

Sample taken EMRS-L4-090, moisture content & hydrometer.

Photo #: 10

Temperature of newly placed L4 NCL 0+094, o/s -60.7m. Material was hauled in last night.

Photo #:

Photo #:

Duplicate Page

Date:	October 24, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 6

Environmental Conditions:

Morning Conditions Weather: Cloudy; Precipitation: 0 mm

Temperature (High/Low): -3 / -6; Humidity: Choose from List; Wind: Moderate

Afternoon Conditions Weather: Snow; Precipitation: 0 - 5 mm

Temperature (High/Low): -2 / -3; Humidity: 60 to 80%; Wind: Moderate

Meeting Summaries

Haley arrived on site at 1:00. Discuss weekend plan and OKane's concern about ambient temperatures, also the amount of snow being on top of the stockpiles of clay.

General Remarks

Removed snow on L3 prior to placing L4 NCL.
NG placed & graded L4 NCL from 0+095 to 0+113. Surveyed.
At 0+113 NG sloped and covered all L1, L2, L3 face surface to protect it for the winter.
Started punching a roadway through the stockpiles to perform a L1 CCL placement trial 2 at +/- 0+450.

Description of CCL Material:

No CCL placed.

Panel Approval:

Panel Description	NCL is a mix of Brena and WML, dark grey and some light brown clay mix. Very very sticky. As temperature rises up the stickier it gets.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.5m L4 NCL
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-L4-091
Moisture content.
Sample EMRS-L4-092
Moisture content, hydrometer.
Moisture content is expected tomorrow October 25, 2020, the hydrometer results should be expected Oct 30, 2020.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Placed & graded L4 NCL	0+095-0+ o/s m - -m	D65, 155 dozers
Trial 2 Access	+/- 0+450	D65, 155 dozers

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Snow cleared off prior to placing L4 NCL +/- 0+120.

Photo #: 2

Temperature of newly placed L4 NCL 0+109, o/s -54.7m.

Photo #: 3

Sample taken EMRS-L4-091. Moisture content.

Photo #: 4

Todays L4 NCL placement with D65 at +/- 0+100.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 5

155 dozer pushing NCL clay for placement.

Scanned by CamScanner

Photo #: 6

Temperature of existing L3 NCL 0+109.6, o/s -30.2m.

Scanned by CamScanner

Photo #: 7

Temperature of newly placed L4 NCL 0+112, o/s -16.1m.

Scanned by CamScanner

Photo #: 8

Sample taken EMRS-L4-092, moisture content & hydrometer.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

Completed L4 NCL at 0+113.

Photo #: 10

D65 dozer sloping L4 NCL at 0+113 for winter protection of L1, L2 CCL and L3 NCL.

Photo #: 11

Access for trial 2, L1 CCL at +/- 0+450.

Photo #:

Duplicate Page

Date:	October 25, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 8

Environmental Conditions:

Morning Conditions Weather: Cloudy; Precipitation: 0 mm

Temperature (High/Low): -4 / -6; Humidity: 0 to 20%; Wind: Moderate

Afternoon Conditions Weather: Cloudy; Precipitation: 0 mm

Temperature (High/Low): -2 / -4; Humidity: 0 to 20%; Wind: Moderate

Meeting Summaries

Haley from OKane on site.

General Remarks

L1 CCL Trial 2 at 0+450 - 0+457, o/s -91m - -47m:
Cleared snow, placed 0.25m of CCL with D65 dozer. 211 packer packed area with vibration and no vibration. Packer constantly picked up. Did not get stuck.

L1 CCL Trial 3 at 0+125 - 0+150, o/s -139m - -125m:
Cleared snow, placed 0.25m of CCL with D65 dozer. 211 packer packed area with vibration and no vibration. Packer constantly picked up. Did not get stuck.

Temperatures are playing a big issue with the packer picking up. The closer it gets to zero the stickier and more the packer picks up.

Description of CCL Material:

CCL is a mix of Brena and WML, dark grey and some light brown clay mix.
Very very sticky. As temperature rises up the stickier it gets.

Panel Approval:

Panel Description	CCL is a mix of Brena and WML, dark grey and some light brown clay mix. Very very sticky. As temperature rises up the stickier it gets.

	Yes	No	Comment
Material Inspection Suitable for Construction	☑	☐	
Visual Inspection	☑	☐	
Layer Thickness Acceptable	☑	☐	0.25m, Trial 1 - 2, L1 CCL
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample T2-EMRS-L1-093
Moisture content, hydrometer.
Sample T3-EMRS-L1-094
Moisture content, hydrometer.
Moisture content is expected tomorrow October 26, 2020, the hydrometer results should be expected Oct 31, 2020.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used
Trial 2 L1 CCL	0+450 - 0+457, o/s -91m - -	D65 dozer, 211 packer
Trial 3 L1 CCL	0+125 - 0+150, o/s -139m -	D65 dozer, 211 packer

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

Photo #: 1

Trial 2 L1 CCL, 0+450 - 0+457, o/s -91m - -47m.

Photo #: 2

Trial 2 L1 CCL, 0+450 - 0+457, o/s -91m - -47m.
Rock being cleaned of snow.

Photo #: 3

Completed Trial 2 Pad.
Trial 2 L1 CCL, 0+450 - 0+457, o/s -91m - -47m.
Placed clay

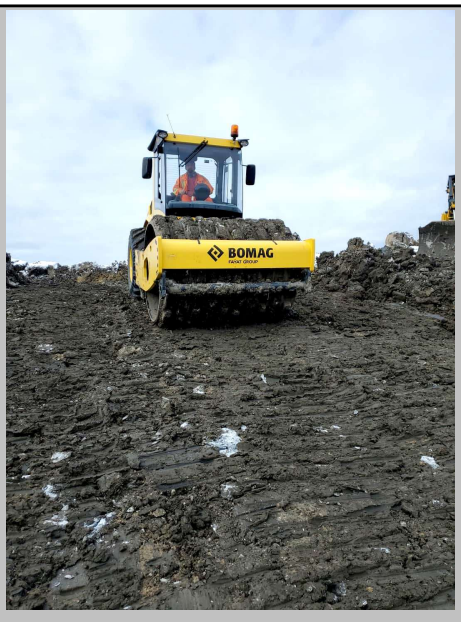

Photo #: 4

Packing Trial 2 Pad.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 5

Temp -4C. Showing the rolled up and pick up area from the packer.

Scanned by CamScanner

Photo #: 6

Temp -4C. Showing the rolled up and pick up area from the packer.

Scanned by CamScanner

Photo #: 7

Temp -4C. Showing the rolled up and pick up area from the packer.

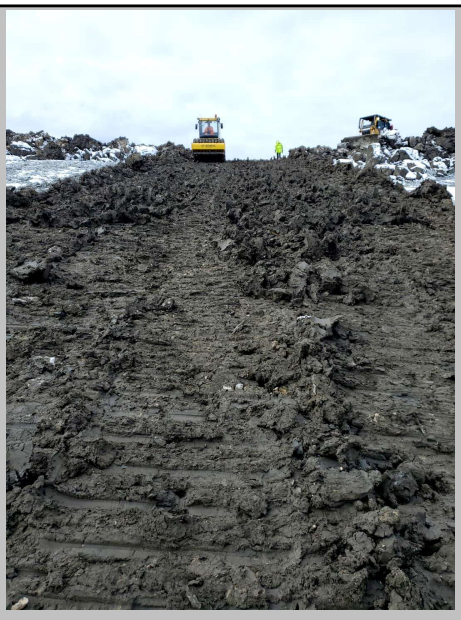
Scanned by CamScanner

Photo #: 8

Temp -4C. Showing the rolled up and pick up area from the packer.

Duplicate Page

PHOTOGRAPHS

Photo #: 9

Temperature of newly placed L1 CCL 0+454, o/s -78.6m.

Photo #: 10

Temperature of newly placed L1 CCL 0+452.5, o/s -57.9m.

Photo #: 11

Sample taken T2-EMRS-L1-093, moisture content & hydrometer.

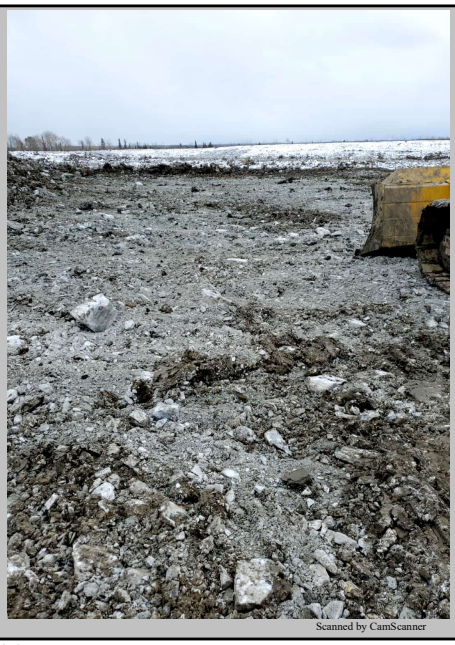

Photo #: 12

Trial 3 L1 CCL, 0+150 - 0+125, o/s -139m - -125m. Clean rock.

Duplicate Page

PHOTOGRAPHS

Scanned by CamScanner

Photo #: 13

Trial 3 L1 CCL, 0+150 - 0+125,
o/s -139m - -125m. Placed CCL.

Scanned by CamScanner

Photo #: 14

Temperature of newly placed L1 CCL 0+137,
o/s -129.7m.

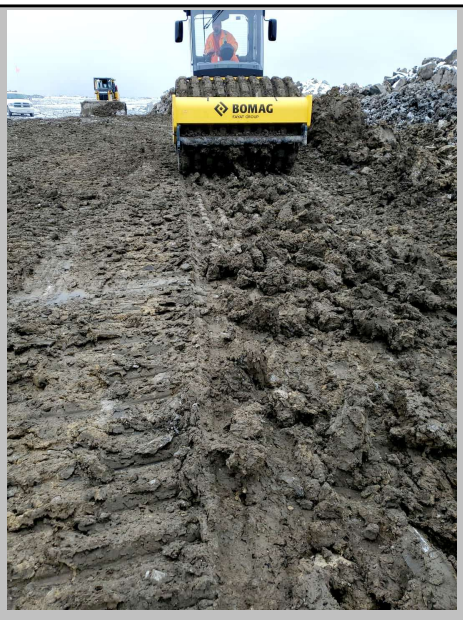

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Photo #: 15

Temp -2C. Showing the rolled up and pick up area from the packer.

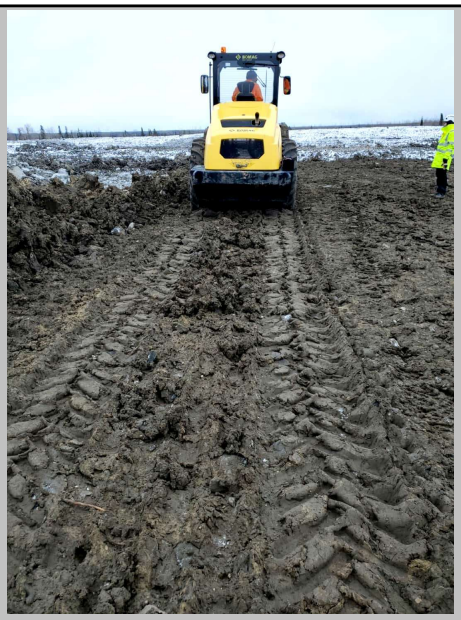

Scanned by CamScanner

Photo #: 16

Temp -2C. Showing the rolled up and pick up area from the packer.

Duplicate Page

PHOTOGRAPHS

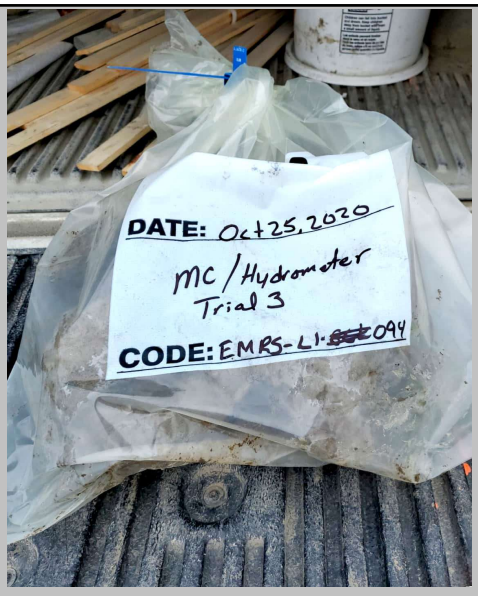


Photo #: 17

Sample taken T3-EMRS-L1-094, moisture content & hydrometer.

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
Daily Progress Reports

Date:	October 26, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**OKC Project #:**	1003-19
Prepared by:	Ted Linley	**Project Location:**	Rainy River - Ontario

Number of Pages in Report 5

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): -2 / -7 Humidity: 0 to 20% Wind: Low

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 2 / -2 Humidity: 0 to 20% Wind: Low

Meeting Summaries

Haley from OKane on site.

General Remarks

No more CCL or NCL placement this year.

New Gold leveling off the tops of the stockpiles for winter shut down.

Description of CCL Material:

Panel Approval:

Panel Description	

	Yes	No	Comment
Material Inspection Suitable for Construction	☐	☐	
Visual Inspection	☐	☐	
Layer Thickness Acceptable	☐	☐	
Water Content within Acceptable Range	☐	☐	
Density within Acceptable Range	☐	☐	
Corrected Actions Taken	☐	☐	

Testing and Sampling Completed:

Sample EMRS-SP-095
Moisture content, hydrometer.
Sample EMRS-SP-096
Moisture content, hydrometer.
Sample EMRS-SP-097
Moisture content, hydrometer.
Sample EMRS-SP-098
Moisture content, hydrometer.
Sample EMRS-SP-099
Moisture content, hydrometer.
Moisture content is expected tomorrow October 27, 2020, the hydrometer results should be expected November 1, 2020.

Work Location and Task:

Task Description	Location of Work	Equipment & Personnel Used

Key-in Trench:

Location	CCL Contact Material	Comment

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

<original signed by>

PHOTOGRAPHS

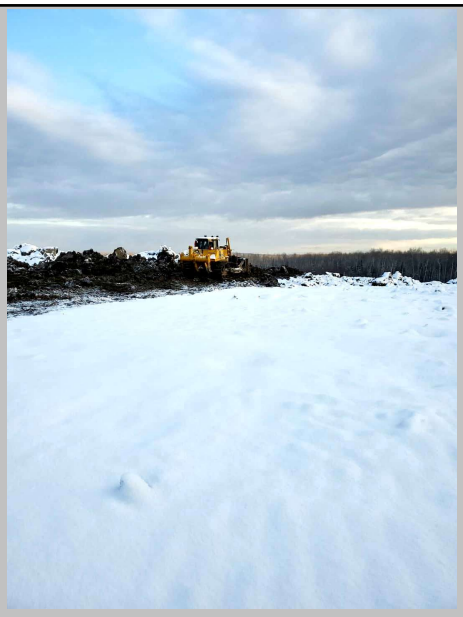

Scanned by CamScanner

Photo #: 1

155 dozer leveling off tops of stockpiles for winter shut down.

Scanned by CamScanner

Photo #: 2

Sample taken in the stockpiles EMRS-SP-095, moisture content & hydrometer.

Scanned by CamScanner

Photo #: 3

Sample taken in the stockpiles EMRS-SP-096, moisture content & hydrometer.

Scanned by CamScanner

Photo #: 4

Sample taken in the stockpiles EMRS-SP-097, moisture content & hydrometer.

Duplicate Page

PHOTOGRAPHS

Photo #: 5

Sample taken in the stockpiles EMRS-SP-098, moisture content & hydrometer.

Photo #: 6

Sample taken in the stockpiles EMRS-SP-099, moisture content & hydrometer.

Photo #:

Photo #:

Duplicate Page

Appendix E

Tulloch Density Records

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2528	2544	0.63
Moisture Standard (MS):	464	476	2.52

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: August 30, 2020	MDD: 1447
	Material Tested: Clay (CCL)	Tech: Ted Linley	OMC:28.5

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
502	7+526.6, o/s-49.6m	395.0	150	256	2682	2528	1375	31.5	95.0	Lift 1

Comments:
It was determined visually to use proctor 1447. The material was dark grey in color, stickiness, plasticity, moisture content.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Aug 30,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Aug 30, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2530	2544	0.55
Moisture Standard (MS):	462	476	3.03

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 2, 2020	MDD: 1447
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:28.5

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
802	7+533.4, o/s -32.9m	392.049	200	235	1959	1808	1414	27.9	97.7	Lift 2

Comments:
It was determined visually to use proctor 1447. The material was dark grey in color, stickiness, plasticity, moisture content. Lift 2 CCL

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 2,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Sept 2, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2542	2544	0.08
Moisture Standard (MS):	471	476	1.06

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 4, 2020	MDD: 1447
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:28.5

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
503	7+603, o/s -63.1m	395.794	150	213.5	3001	1750	1406	24.4	97.2	Lift 1
	7+423, o/s -42.2m	397.692	150					37.5		Lift 2

Comments:
It was determined visually to use proctor 1447. The material was dark grey in color, stickiness, plasticity, moisture content. Lift 2 CCL

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 4,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 4, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2541	2544	0.12
Moisture Standard (MS):	467	476	1.93

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 5, 2020	MDD: 1447
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:28.5

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
803	7+568.0, o/s -30.9m	390.862	200	222.3	1886	1831	1468	24.8	101.4	Lift 2
	7+463.4, o/s -48.9m	397.149	150					29.3		Lift 2

Comments:
It was determined visually to use proctor 1447. The material was dark grey in color, stickiness, plasticity, moisture content. Lift 2 CCL.

Moisture shot prior to placing lift 3 NCL on lift 2 CCL.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 5,2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Sept 5, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2544	2544	0.0
Moisture Standard (MS):	461	476	3.25

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 6, 2020	MDD: 1447
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:28.5

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
	7+452.0, o/s -17.5m	393.008						27.4		Lift 2

Comments:

Moisture shot prior to placing lift 3 NCL on lift 2 CCL.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 6,2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Sept 6, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2535	2544	0.35
Moisture Standard (MS):	466	476	2.14

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 7, 2020	MDD: 1447
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:28.5

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
	7+473.6, o/s -17.0m	391.466						25.8		Lift 2

Comments:

Moisture shot prior to placing lift 3 NCL on lift 2 CCL.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 7,2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Sept 7, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2553	2544	-0.35
Moisture Standard (MS):	469	476	1.49

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 8, 2020	MDD: 1447
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:28.5

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
	7+528, o/s -67.4m	391.820	200					26.3		Lift 2

Comments:

Moisture shot prior to placing lift 3 NCL on lift 2 CCL.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Sept 8,2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Sept 8, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2546	2544	-0.079
Moisture Standard (MS):	467	476	1.93

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 10, 2020	MDD: 1447
	Material Tested: Clay (CCL) Lift 1 & 2	Tech: Brysin Shaw	OMC:28.5

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
Test 1	7+535, o/s -38m	391.	200	254	2267	1913	1487	28.7	102.8	Lift 2
Test 2	7+540, o/s -38m		200	257	1528	1938	1508	28.6	104.2	Lift 2
Test 3	7+540, o/s -52m		200	240	1428	1976	1577	25.3	109.0	Lift 2
504	7+540, o/s -38m		200	222	1272	2041	1677	21.7	115.9	Lift 1
505	7+540, o/s -52m		200	230	1417	1981	1602	23.7	110.7	Lift 1
804	7+540, o/s -38m		200	226	1493	1954	1584	23.4	109.4	Lift 2
805	7+540, o/s -52m		200	233	1513	1946	1561	24.7	107.9	Lift 2

Comments:

Redid test #802 to compare results (test 1). Did two more test shots to compare results (test 2 &3). Nuclear gauge tests on L1 and L2 CCL at locations where Okane installed instrumentation.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: BS	Date: Sept 10,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Sept 10, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2546	2544	-0.079
Moisture Standard (MS):	467	476	1.93

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 10, 2020	MDD: 1447
	Material Tested: Clay (CCL) Lift 1 & 2	Tech: Brysin Shaw	OMC:28.5

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
Test 1	7+535, o/s -38m	391.75	200	254	2267	1913	1487	28.7	102.8	Lift 2
Test 2	7+540, o/s -38m	391.774	200	257	1528	1938	1508	28.6	104.2	Lift 2
Test 3	7+540, o/s -52m	396.012	200	240	1428	1976	1577	25.3	109.0	Lift 2
504	7+540, o/s -38m	391.866	200	222	1272	2041	1677	21.7	115.9	Lift 1
505	7+540, o/s -52m	395.641	200	230	1417	1981	1602	23.7	110.7	Lift 1
804	7+540, o/s -52m	396.243	200	226	1493	1954	1584	23.4	109.4	Lift 2
805	7+540, o/s -38m	392.03	200	233	1513	1946	1561	24.7	107.9	Lift 2

Comments:

Redid test #802 to compare results (test 1). Did two more test shots to compare results (test 2 &3). Nuclear gauge tests on L1 and L2 CCL at locations where Okane installed instrumentation.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: BS	Date: Sept 10,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Sept 10, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2546	2544	-0.079
Moisture Standard (MS):	467	476	1.93

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 13, 2020	MDD: 1700
	Material Tested: Clay (CCL) Lift 1 & 2	Tech: Brysin Shaw	OMC:18

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
506	N:5408603.403, E:428789.489	398.427	200	204	1225	2063	1731	19.2	101.8	Lift 1
806	N:5408607.121, E:428808.562	398.897	200	201	1324	2021	1695	19.2	99.7	Lift 2

Comments:

Nuclear gauge tests on L1 and L2 CCL between sta 7+543-7+615, o/s -61m to -89m

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Sept 13,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Sept 13, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2546	2544	-0.079
Moisture Standard (MS):	467	476	1.93

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 13, 2020	MDD: 1700
	Material Tested: Clay (CCL) Lift 1 & 2	Tech: Brysin Shaw	OMC:18

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
506	N:5408603.403, E:428789.489	398.427	200	204	1225	2063	1731	19.2	101.8	Lift 1
806	N:5408607.121, E:428808.562	398.897	200	201	1324	2021	1695	19.2	99.7	Lift 2
*1st 506	N:5408603.403, E:428789.489	398.427	200	204	1232	2060	1729	19.2	120	Lift 1

Comments:

Nuclear gauge tests on L1 and L2 CCL between sta 7+543-7+615, o/s -61m to -89m.

*1st 506 is the shot I took using the 1447 MDD before changing to 1700.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Sept 13,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Sept 13, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2550	2544	-0.24
Moisture Standard (MS):	469	476	2.13

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 15, 2020	MDD: 1700
	Material Tested: Clay (CCL) Lift 1 & 2	Tech: Brysin Shaw	OMC:18

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
Test 1	N:5408572.015, E:428814.546	392.984	200	192	1298	2034	1731	17.5	101.8	Lift 2
Test 2	N:5408553.419, E:428801.539	398.762	200	197	1327	2021	1709	18.3	100.5	Lift 2

Comments:
The material tested has been exposed for more then 24 hours, tests where completed to check moisture prior to L3 NCL placement. Both locations had more then 0.4 m of cover remaining after stripping away the dry material to complete test.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Sept 15,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Sept 15, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2553	2544	-0.35
Moisture Standard (MS):	467	476	1.93

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 21, 2020	MDD: 1700
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:18.2

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
807	N:5408581.078, E:428747.924	395.485	200	215	1442	1974	1606	22.9	94.5	Lift 2

Comments:

Nuclear gauge test on L2 CCL at Okane permeameter test location. Material seemed like a WML/ Brenna mix. Felt moist in hands and was pliable. Dark grey in color with brown mixed in.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Sept 21,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Sept 21, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2552	2544	-0.31
Moisture Standard (MS):	464	476	2.58

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 24, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
507	7+673, o/s -68.6m	396.322	200	227.2	1922.5	1823	1446	26.1	95.6	Lift 1
508	7+670, o/s -35.5m	390.242	200	232.5	1768.0	1866	1480	26.1	97.9	Lift 1
509	7+684, o/s -71.4m	396.880	200	235.5	1904.3	1827	1435	27.3	94.9	Lift 1
510	7+691, o/s -44.1m	391.980	200	213.0	2087.2	1783	1435	24.3	94.9	Lift 1

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 24,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Sept 24, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2552	2544	-0.31
Moisture Standard (MS):	464	476	2.58

Activity:	Project Name: New Gold Inc		Proctor Data
Revised: Sample ID EMRS-L1-037 Dry Density 1633 Moisture 20.1	Contract No: 1003-19	Date: September 24, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
507	7+673, o/s -68.6m	396.322	200	227.2	1922.5	1823	1446	26.1	95.6	Lift 1
									88.5	
508	7+670, o/s -35.5m	390.242	200	232.5	1768.0	1866	1480	26.1	97.9	Lift 1
									90.6	
509	7+684, o/s -71.4m	396.880	200	235.5	1904.3	1827	1435	27.3	94.9	Lift 1
									87.8	
510	7+691, o/s -44.1m	391.980	200	213.0	2087.2	1783	1435	24.3	94.9	Lift 1
									87.8	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 24,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Sept 24, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2524	2544	0.79
Moisture Standard (MS):	463	476	2.81

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 26, 2020	MDD: 1600
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:22.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
511	7+641, o/s -51.5m	393.235	200	193.5	1811.8	1851	1540	20.2	96.3	Lift 1
514	7+718, o/s -81.4m	398.403	200	203.5	1689.7	1886	1556	21.3	97.3	Lift 1

Comments:
It was determined to use the proctor of 1600 due to the moisture content and dry density values. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2524	2544	0.79
Moisture Standard (MS):	463	476	2.81

Activity:	Project Name: New Gold Inc		Proctor Data
Revised: Sample ID EMRS-L1-042 Dry Density 1710 Moisture 20.9	Contract No: 1003-19	Date: September 26, 2020	MDD: 1600
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:22.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
511	7+641, o/s -51.5m	393.235	200	193.5	1811.8	1851	1540	20.2	96.3	Lift 1
									90.0	
514	7+718, o/s -81.4m	398.403	200	203.5	1689.7	1886	1556	21.3	97.3	Lift 1
									90.9	

Comments:
It was determined to use the proctor of 1600 due to the moisture content and dry density values. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2524	2544	0.79
Moisture Standard (MS):	463	476	2.81

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 26, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
512	7+647, o/s -30.4m	393.256	200	235.0	1938.8	1812	1420	27.6	93.9	Lift 1
515	7+721, o/s -46.1m	392.279	200	220.7	1837.7	1841	1477	24.7	97.6	Lift 1
516	7+732, o/s -16.8m	387.409	200	217.0	1740.7	1869	1512	23.6	100	Lift 1

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2524	2544	0.79
Moisture Standard (MS):	463	476	2.81

Activity: Revised: Sample ID EMRS-L2-043 Dry Density 1565 Moisture 23.3	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 26, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
512	7+647, o/s -30.4m	393.256	200	235.0	1938.8	1812	1420	27.6	93.9	Lift 1
									90.7	
515	7+721, o/s -46.1m	392.279	200	220.7	1837.7	1841	1477	24.7	97.6	Lift 1
									94.3	
516	7+732, o/s -16.8m	387.409	200	217.0	1740.7	1869	1512	23.6	100	Lift 1
									96.6	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2524	2544	0.79
Moisture Standard (MS):	463	476	2.81

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 26, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
808	7+611, o/s - 29.3m	390.242	200	249.3	2225.3	1742	1321	31.8	87.4	Lift 2
809	7+619, o/s - 52.7m	393.914	200	237.2	2153.2	1759	1363	29.1	90.1	Lift 2

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2524	2544	0.79
Moisture Standard (MS):	463	476	2.81

Activity:	Project Name: New Gold Inc		Proctor Data
Revised: Sample ID EMRS-L2-043 Dry Density 1565 Moisture 23.3	Contract No: 1003-19	Date: September 26, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
808	7+611, o/s - 29.3m	390.242	200	249.3	2225.3	1742	1321	31.8	87.4	Lift 2
									84.4	
809	7+619, o/s - 52.7m	393.914	200	237.2	2153.2	1759	1363	29.1	90.1	Lift 2
									87.1	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2538	2544	0.24
Moisture Standard (MS):	465	476	2.37

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 27, 2020	MDD: 1621
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:21.9

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
810	7+630, o/s -62.1m	395.569	200	197.0	1672.3	1895	1579	20.0	97.4	Lift 2

Comments:
It was determined to use the proctor of 1621 due to the moisture content and dry density values. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2538	2544	0.24
Moisture Standard (MS):	465	476	2.37

Activity:	Project Name: New Gold Inc		Proctor Data
Revised: Sample ID EMRS-L1-042 Dry Density 1710 Moisture 20.9	Contract No: 1003-19	Date: September 27, 2020	MDD: 1621
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:21.9

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
810	7+630, o/s -62.1m	395.569	200	197.0	1672.3	1895	1579	20.0	97.4	Lift 2
									92.3	

Comments:
It was determined to use the proctor of 1621 due to the moisture content and dry density values. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2538	2544	0.24
Moisture Standard (MS):	465	476	2.37

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 27, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
811	7+635, o/s -73.0m	397.846	200	229.3	1992.8	1802	1423	26.6	94.1	Lift 2
812	7+639, o/s -26.8m	388.784	200	249.0	2063.3	1783	1365	30.6	90.3	Lift 2
813	7+650, o/s -20.0m	387.586	200	245.7	1908.8	1822	1411	29.1	93.3	Lift 2
814	7+647, o/s -37.4m	390.646	200	244.0	2227.5	1745	1337	30.5	88.4	Lift 2
815	7+645, o/s -78.2m	398.167	200	230.7	1998.0	1821	1439	26.5	95.2	Lift 2

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2538	2544	0.24
Moisture Standard (MS):	465	476	2.37

Activity: Revised: Sample ID EMRS-L2-043 Dry Density 1565 Moisture 23.3	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 27, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
811	7+635, o/s -73.0m	397.846	200	229.3	1992.8	1802	1423	26.6	94.1	Lift 2
									90.9	
812	7+639, o/s -26.8m	388.784	200	249.0	2063.3	1783	1365	30.6	90.3	Lift 2
									87.2	
813	7+650, o/s -20.0m	387.586	200	245.7	1908.8	1822	1411	29.1	93.3	Lift 2
									90.2	
814	7+647, o/s -37.4m	390.646	200	244.0	2227.5	1745	1337	30.5	88.4	Lift 2
									85.4	
815	7+645, o/s -78.2m	398.167	200	230.7	1998.0	1821	1439	26.5	95.2	Lift 2
									91.9	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2538	2544	0.24
Moisture Standard (MS):	465	476	2.37

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 27, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
816	7+676, o/s -69.9m	396.707	200	245.5	1945.7	1813	1402	29.3	92.7	Lift 2
817	7+682, o/s -48.0m	393.027	200	228.0	2281.3	1734	1358	27.7	89.8	Lift 2
818	7+687, o/s -21.1m	388.117	200	221.7	2122.5	1771	1407	25.7	93.1	Lift 2
819	7+717, o/s -81.5m	398.632	200	215.2	2006.0	1800	1448	24.3	95.8	Lift 2
820	7+726, o/s -49.0m	393.143	200	232.0	1978.3	1805	1421	27.0	93.9	Lift 2

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2538	2544	0.24
Moisture Standard (MS):	465	476	2.37

Activity: Revised: Sample ID EMRS-L2-043 Dry Density 1565 Moisture 23.3	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: September 27, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
816	7+676, o/s -69.9m	396.707	200	245.5	1945.7	1813	1402	29.3	92.7	Lift 2
									89.6	
817	7+682, o/s -48.0m	393.027	200	228.0	2281.3	1734	1358	27.7	89.8	Lift 2
									86.8	
818	7+687, o/s -21.1m	388.117	200	221.7	2122.5	1771	1407	25.7	93.1	Lift 2
									89.9	
819	7+717, o/s -81.5m	398.632	200	215.2	2006.0	1800	1448	24.3	95.8	Lift 2
									92.5	
820	7+726, o/s -49.0m	393.143	200	232.0	1978.3	1805	1421	27.0	93.9	Lift 2
									90.8	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2529	2544	0.59
Moisture Standard (MS):	471	476	1.06

Activity:	Project Name: New Gold Inc		Proctor Data
Revised: Sample ID EMRS-L1-054 Dry Density 1638 Moisture 20.2	Contract No: 1003-19	Date: October 3, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
517	7+742 o/s -58.5m	394.214	200	244.3	2023.3	1791	1389	29.0	91.9	Lift 1
									84.8	
518	7+757 o/s -38.7m	390.947	200	225.0	1958.8	1810	1444	25.3	95.5	Lift 1`
									88.2	
519	7+765 o/s -80.1m	398.335	200	247.0	2118.8	1768	1360	30.0	89.9	Lift 1
									83.0	
520	7+776 o/s -49.4m	392.839	200	234.8	2289.5	1730	1346	28.5	89.0	Lift 1
									82.2	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 3, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 3, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2529	2544	0.59
Moisture Standard (MS):	471	476	1.06

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 3, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
517	7+742 o/s -58.5m	394.214	200	244.3	2023.3	1791	1389	29.0	91.9	Lift 1
518	7+757 o/s -38.7m	390.947	200	225.0	1958.8	1810	1444	25.3	95.5	Lift 1`
519	7+765 o/s -80.1m	398.335	200	247.0	2118.8	1768	1360	30.0	89.9	Lift 1
520	7+776 o/s -49.4m	392.839	200	234.8	2289.5	1730	1346	28.5	89.0	Lift 1

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 3, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 3, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2529	2544	0.59
Moisture Standard (MS):	471	476	1.06

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 3, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
821/ BP 3	7+610 o/s - 33.0m	391.120	200	219.0	2105.8	1774	1420	24.9	93.9	Lift 2

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 3, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 3, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2529	2544	0.59
Moisture Standard (MS):	468	476	1.71

Activity:	Project Name: New Gold Inc		Proctor Data
Retests. Revised: Sample ID EMRS-L1-056 Dry Density 1468 Moisture 26.2	Contract No: 1003-19	Date: October 4, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
519A	7+765 o/s - 80.3m	398.329	200	224.7	2080.7	1779	1411	26.1	93.3	Lift 1
									96.1	
518A	7+756.7 o/s - 39.5m	391.005	200	247.7	1990.0	1799	1387	29.7	91.7	Lift 1`
									94.5	
518B	7+756.9 o/s - 37.9m	390.779	200	249.3	2257.7	1332	1317	31.5	87.1	Lift 1
									89.7	
520A	7+776 o/s - 49.5m	392.775	200	209.5	1864.8	1836	1498	22.6	99.1	Lift 1
									102.0	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 4, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 4, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2529	2544	0.59
Moisture Standard (MS):	468	476	1.71

Activity: Retests	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 4, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
519A	7+765 o/s - 80.3m	398.329	200	224.7	2080.7	1779	1411	26.1	93.3	Lift 1
518A	7+756.7 o/s - 39.5m	391.005	200	247.7	1990.0	1799	1387	29.7	91.7	Lift 1`
518B	7+756.9 o/s - 37.9m	390.779	200	249.3	2257.7	1332	1317	31.5	87.1	Lift 1
520A	7+776 o/s - 49.5m	392.775	200	209.5	1864.8	1836	1498	22.6	99.1	Lift 1

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 4, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 4, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2529	2544	0.59
Moisture Standard (MS):	468	476	1.71

Activity:	Project Name: New Gold Inc		Proctor Data
Revised: Sample ID EMRS-L1-056 Dry Density 1468 Moisture 26.2	Contract No: 1003-19	Date: October 4, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
521	7+804 o/s -62.5m	394.951	200	225.5	1957.7	1810	1441	25.6	95.3	Lift 1
									98.2	
522	7+819 o/s -35.1m	390.743	200	224.7	1775.8	1860	1492	24.6	98.6	Lift 1`
									101.6	
523	0+064 o/s -58.0m	396.621	200	245.7	2076.3	1778	1370	29.8	90.6	Lift 1
									93.3	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 4, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 4, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2529	2544	0.59
Moisture Standard (MS):	468	476	1.71

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 4, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
521	7+804 o/s -62.5m	394.951	200	225.5	1957.7	1810	1441	25.6	95.3	Lift 1
522	7+819 o/s -35.1m	390.743	200	224.7	1775.8	1860	1492	24.6	98.6	Lift 1`
523	0+064 o/s -58.0m	396.621	200	245.7	2076.3	1778	1370	29.8	90.6	Lift 1

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 4, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 4, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2522	2544	0.87
Moisture Standard (MS):	466	476	2.14

Activity:	Project Name: New Gold Inc		Proctor Data
Revised: Sample ID EMRS-L1-056 Dry Density 1468 Moisture 26.2	Contract No: 1003-19	Date: October 5, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
524	0+063 o/s -30.5m	391.374	200	247.7	2128.5	1764	1349	30.7	89.2	Lift 1
									91.9	
525	0+082 o/s -25.3m	390.974	200	218.2	2023.0	1792	1435	24.9	94.1	Lift 1`
									97.8	
526	0+109 o/s -35.1m	393.116	200	250.7	2250.0	1736	1315	32.0	86.9	Lift 1
527	0+077 o/s -56.5	396.476	200	236.5	2452.3	1694	1302	30.2	86.1	Lift 1
528	0+111 o/s -52.0	395.871	200	194.0	2456.7	1698	1388	22.3	91.8	Lift 1

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 5, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 5, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2522	2544	0.87
Moisture Standard (MS):	466	476	2.14

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 5, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
524	0+063 o/s -30.5m	391.374	200	247.7	2128.5	1764	1349	30.7	89.2	Lift 1
525	0+082 o/s -25.3m	390.974	200	218.2	2023.0	1792	1435	24.9	94.1	Lift 1`
526	0+109 o/s -35.1m	393.116	200	250.7	2250.0	1736	1315	32.0	86.9	Lift 1
527	0+077 o/s -56.5	396.476	200	236.5	2452.3	1694	1302	30.2	86.1	Lift 1
528	0+111 o/s -52.0	395.871	200	194.0	2456.7	1698	1388	22.3	91.8	Lift 1

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 5, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 5, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2522	2544	0.87
Moisture Standard (MS):	466	476	2.14

Activity: Retest	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 5, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 1	Tech: Ted Linley	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
527A	0+077.3 o/s - 56.2m	396.459	200	255.3	2148.0	1758	1329	32.3	87.9	Lift 1
527B	0+078.1 o/s - 56.7m	396.572	200	241.8	2034.5	1787	1384	29.1	91.5	Lift 1`

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 5, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 5, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2522	2544	0.87
Moisture Standard (MS):	466	476	2.14

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 5, 2020	MDD: 1621
	Material Tested: Clay (CCL) Lift 2	Tech: Ted Linley	OMC:21.9

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
BP4 822	7+699 o/s -61.1m	394.832	200	181.5	1753.7	1869	1583	18.0	97.6	Lift 2

Comments:
It was determined visually to use proctor 1621. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Oct 5, 2020
☐ **NG**	Print Name: Bert Seguin	Signature: BS	Date: Oct 5, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2546	2544	-0.078
Moisture Standard (MS):	465	476	2.37

Activity: Revised: Sample ID EMRS-L2-063 Dry Density 1643 Moisture 20.4	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 6, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
823	7+743 o/s -36.5m	390.443	200	249.3	1413.0	1981	1563	26.8	103.3	Lift 2
824	7+757 o/s -32.1m	389.872	200	247.5	1338.3	2010	1596	26.0	105.5	Lift 2
825	7+757 o/s -55.8m	394.139	200	244.7	1420.3	1978	1569	26.1	103.8	Lift 2
826	7+740 o/s -68.0m	396.447	200	237.8	1401.0	1986	1591	24.9	105.2	Lift 2
									96.8	
827	7+782 o/s -49.5m	392.947	200	243.2	1385.2	1992	1586	25.6	104.9	Lift 2
									96.5	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 6, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 6, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2546	2544	-0.078
Moisture Standard (MS):	465	476	2.37

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 6, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
828	7+778 o/s -24.0m	388.9	200	246.7	1369.5	1998	1585	26.1	104.8	Lift 2
									96.5	
829	7+809 o/s -30.4	390.151	200	233.5	1349.8	2007	1620	23.9	107.1	Lift 2
									98.6	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 6, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 6, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2546	2544	-0.078
Moisture Standard (MS):	465	476	2.37

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 6, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
823	7+743 o/s -36.5m	390.443	200	249.3	1413.0	1981	1563	26.8	103.3	Lift 2
824	7+757 o/s -32.1m	389.872	200	247.5	1338.3	2010	1596	26.0	105.5	Lift 2
825	7+757 o/s -55.8m	394.139	200	244.7	1420.3	1978	1569	26.1	103.8	Lift 2
826	7+740 o/s -68.0m	396.447	200	237.8	1401.0	1986	1591	24.9	105.2	Lift 2
827	7+782 o/s -49.5m	392.947	200	243.2	1385.2	1992	1586	25.6	104.9	Lift 2

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 6, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 6, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2546	2544	-0.078
Moisture Standard (MS):	465	476	2.37

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 6, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
828	7+778 o/s -24.0m	388.9	200	246.7	1369.5	1998	1585	26.1	104.8	Lift 2
829	7+809 o/s -30.4	390.151	200	233.5	1349.8	2007	1620	23.9	107.1	Lift 2

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 6, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 6, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2543	2544	0.039
Moisture Standard (MS):	463	476	2.81

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 9, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
830	7+818 o/s - 50.1m	393.397	200	230.0	1409.0	1983	1600	23.9	105.8	Lift 2
831	7+822 o/s - 16.0m	387.879	200	250.0	1585.3	1919	1496	28.2	99.0	Lift 2
832	0+035 o/s - 28.6m	390.124	200	240.0	1568.2	1925	1523	26.5	100.7	Lift 2
832A	0+035 o/s - 29.6m	390.276	200	239.2	1487.8	1953	1552	25.9	102.6	Lift 2

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, high plasticity, and sticky. Moisture content seemed wet of optimum. 1600 proctor probably could be used going forward.

832A was a retest of 832 to confirm material was packed enough and lower dry density was due to slightly higher moisture.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 9, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 9, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2543	2544	0.039
Moisture Standard (MS):	463	476	2.81

Activity:	Project Name: New Gold Inc		Proctor Data
Revised: Sample ID EMRS-L2-063 Dry Density 1643 Moisture 20.4	Contract No: 1003-19	Date: October 9, 2020	MDD: 1512
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:26.3

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
830	7+818 o/s - 50.1m	393.397	200	230.0	1409.0	1983	1600	23.9	105.8	Lift 2
									97.4	
831	7+822 o/s - 16.0m	387.879	200	250.0	1585.3	1919	1496	28.2	99.0	Lift 2
									91.1	
832	0+035 o/s - 28.6m	390.124	200	240.0	1568.2	1925	1523	26.5	100.7	Lift 2
									92.7	
832A	0+035 o/s - 29.6m	390.276	200	239.2	1487.8	1953	1552	25.9	102.6	Lift 2
									94.5	

Comments:
It was determined visually to use proctor 1512. The material was dark grey in color, high plasticity, and sticky. Moisture content seemed wet of optimum. 1600 proctor probably could be used going forward.

832A was a retest of 832 to confirm material was packed enough and lower dry density was due to slightly higher moisture.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 9, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 9, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2538	2544	0.236
Moisture Standard (MS):	467	476	1.71

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 10, 2020	MDD: 1638
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:20.2

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
833	0+048 o/s -25.1m	390.373	200	228.5	1359.5	2002	1626	23.1	99.3	Lift 2
834	0+057 o/s -45.1m	394.040	200	232.2	1356.8	2003	1619	23.7	98.9	Lift 2
835	0+076 o/s -26.4m	391.293	200	208.5	1267.0	2042	1705	19.8	104.1	Lift 2
836	0+080 o/s -49.9m	395.572	200	197.7	1268.2	2043	1726	18.3	105.4	Lift 2

Comments:
It was determined visually to use proctor 1638 because the material seem to fit the characteristics of sample EMRS-L1-054 the most. The material was dark grey in color, high plasticity, and sticky. Moisture content seemed wet of optimum. Material seemed consistent so variability in the dry densities is most likely caused from the moisture content being higher or lower in certain areas.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 10, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 10, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2538	2544	0.236
Moisture Standard (MS):	467	476	1.71

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 10, 2020	MDD: 1638
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:20.2

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
837	0+109 o/s -15.7m	390.215	200	200.3	1160.8	2092	1770	18.1	108.1	Lift 2
838	0+109 o/s -46.7m	395.315	200	208.8	1263.5	2044	1706	19.8	104.1	Lift 2

Comments:

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 10, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 10, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2538	2544	0.236
Moisture Standard (MS):	467	476	1.71

Activity:	Project Name: New Gold Inc		Proctor Data
Revised: Sample ID EMRS-L2-073 Dry Density 1728 Moisture 18.0	Contract No: 1003-19	Date: October 10, 2020	MDD: 1638
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:20.2

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
833	0+048 o/s -25.1m	390.373	200	228.5	1359.5	2002	1626	23.1	99.3	Lift 2
									94.1	
834	0+057 o/s -45.1m	394.040	200	232.2	1356.8	2003	1619	23.7	98.9	Lift 2
									93.7	
835	0+076 o/s -26.4m	391.293	200	208.5	1267.0	2042	1705	19.8	104.1	Lift 2
									98.7	
836	0+080 o/s -49.9m	395.572	200	197.7	1268.2	2043	1726	18.3	105.4	Lift 2
									99.9	

Comments:
It was determined visually to use proctor 1638 because the material seem to fit the characteristics of sample EMRS-L1-054 the most. The material was dark grey in color, high plasticity, and sticky. Moisture content seemed wet of optimum. Material seemed consistent so variability in the dry densities is most likely caused from the moisture content being higher or lower in certain areas.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 10, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 10, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2538	2544	0.236
Moisture Standard (MS):	467	476	1.71

Activity:	Project Name: New Gold Inc		Proctor Data
Revised: Sample ID EMRS-L2-073 Dry Density 1728 Moisture 18.0	Contract No: 1003-19	Date: October 10, 2020	MDD: 1638
	Material Tested: Clay (CCL) Lift 2	Tech: Brysin Shaw	OMC:20.2

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
837	0+109 o/s -15.7m	390.215	200	200.3	1160.8	2092	1770	18.1	108.1	Lift 2
									102.4	
838	0+109 o/s -46.7m	395.315	200	208.8	1263.5	2044	1706	19.8	104.1	Lift 2
									98.7	

Comments:

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 10, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 10, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2534	2544	0.395
Moisture Standard (MS):	467	476	1.71

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: October 19, 2020	MDD: 1638
	Material Tested: Clay (CCL) Lift 3	Tech: Brysin Shaw	OMC:20.2

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
L3 Chk 1	7+774 o/s -48.9m	393.463	200	249.5	1600	1912	1495	27.9	91.3	Lift 3
L3 Chk 2	7+799 o/s -11.9m	387.541	200	234.5	1368	1997	1609	24.1	98.2	Lift 3

Comments:
L3 NCL moisture content checks were completed using the Nuclear density gauge to check moisture before L4 NCL placement

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Brysin Shaw	Signature: BS	Date: Oct 19, 2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Oct 19, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2550	2544	-0.23
Moisture Standard (MS):	457	476	3.99

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: August27, 2020	MDD: 1447
	Material Tested: Clay (CCL)	Tech: Ted Linley	OMC:

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
500	7+409.6, o/s-44.7m	397.5	150	248.5		1792	1372	30.6	94.8	Lift 1
501	7+422.2, o/s-38.5m	397.1	150	255.0		1934	1502	28.8	103.8	Lift 1

Comments:
It was determined visually to use proctor 1447 because the material was dark grey in color, stickiness, plasticity, moisture content.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Aug 27,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Aug 27, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2550	2544	-0.23
Moisture Standard (MS):	457	476	3.99

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: August 27, 2020	MDD: 1447
	Material Tested: Clay (CCL)	Tech: Ted Linley	OMC:

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
800	7+409.6, o/s-35.6m	396.7	200	275.0		1950	1478	31.9	102.1	Lift 2

Comments:
It was determined visually to use proctor 1447 because the material was dark grey in color, stickiness, plasticity, moisture content.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Aug 27,2020
☐ **NG**	Print Name: Garry Noga	Signature: GN	Date: Aug 27, 2020

Field Density Report – Nuclear Testing Method

Gauge Info	
Make:	Humbolt
Model:	5001C
Serial #:	1658

Gauge Standard Readings			
	Calibration (Field)	Reference (Factory)	Difference (%)
Density Standard (DS):	2525	2544	0.75
Moisture Standard (MS):	465	476	2.36

Activity:	Project Name: New Gold Inc		Proctor Data
	Contract No: 1003-19	Date: August 29, 2020	MDD: 1447
	Material Tested: Clay (CCL)	Tech: Ted Linley	OMC:28.5

Test No.	Test Location:	Elevation	Depth	MC	DC	WD	DD	%M	%Comp	Remarks
801	7+418, o/s-35.3m	396.724	200	240	2028	1789	1389	28.8	96.0	Lift 2

Comments:
It was determined visually to use proctor 1447 because the material was dark grey in color, stickiness, plasticity, moisture content.

Legend:		
MC: Moisture Count	WD: Wet Density	MDD: Maximum Dry Density
DC: Density Count	DD: Dry Density	OMC: Optimum Moisture Content

☐ **Tulloch**	Print Name: Ted Linley	Signature: TL	Date: Aug 29,2020
☐ **NG**	Print Name: Andrew Angus	Signature: AA	Date: Aug 29, 2020

Appendix F

Okane Quality Assurance Inspection Reports

Rainy River EMRS
QA Inspection Report

Date:	Sept 20, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**Okane Project #:**	1003-019
Prepared by:	H Cunningham	**Project Location:**	Ontario

Number of Pages in Report 2

Environmental Conditions:

Morning Conditions Weather: Cloudy; Precipitation: 0 mm

Temperature (High/Low): 8 / 17; Humidity: 40 to 60%; Wind: Low

Afternoon Conditions Weather: Cloudy; Precipitation: 0 mm

Temperature (High/Low): 18 / 21; Humidity: 40 to 60%; Wind: Low

Meeting Summaries

- Met with Tulloch to go over weeks progress - Just NCL being placed - all CCL areas have at least 1 lift of NCL placed over top
- Went through material selection guide with Tulloch - discussed that Tulloch needs to go back through and apply laboratory proctors to previously completed areas
- Answered questions that Tulloch had - went through material descriptions
- NCL material stockpiled near location is running load - needs more loads brought up to the EMRS or moved from stockpiled material already up on the EMRS
- New Gold to have someone on EMRS tomorrow to prep WR surface for next section and fix up toe of slope

Visual Inspection:

- NCL looks good - just working on final NCL lift - surface is relatively flat
- material is placing well, smoothing out nicely - high clay content, high plasticity, near optimum water content
- No CCL has been placed for at least a week - small section of CCL not covered by NCL at west end - this will need to be reworked prior to placing NCL over top - been uncovered for a few weeks (at least)
- WR base in next area for CCL placement is not very flat/smooth - this will need to be prepped prior to CCL placement
- Toe of WR in upcoming area needs to be reworked prior to CCL placement (picture) - toe of slope is all swamp along the remaining slope length and into the corner of the slope (picture)

Testing and Sampling Completed:

- Completed a sample of the NCL material (EMRS-L4-028)
- Sample submitted to lab today for a moisture content and hydrometer

General Daily Remarks:

- Low on material for continued work
- WR surface requires prep prior to continued work
- Toe of slope needs to be fixed
- Swampy area continues almost all the way out to the berm beside the road

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

CQC Representative:

PHOTOGRAPHS

Photo #:

Burrito

Photo #:

Final NCL at toe of slope onto natural ground

Photo #:

NCL - lift 4 being placed

Photo #:

Remaining area requiring final NCL lift (west of instrumentation)

Duplicate Page

PHOTOGRAPHS

Photo #:

Swampy area along berm beside road

Photo #:

WR of next section

Photo #:

Toe of WR slope

Photo #:

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	Sep 21, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**Okane Project #:**	1003-019
Prepared by:	H Cunningham	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 12 / 22 Humidity: 60 to 80% Wind: Moderate

Afternoon Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 19 / 24 Humidity: 40 to 60% Wind: Moderate

Meeting Summaries

- Met with Brysin in the morning about todays work
- Met with Ted at 2PM when he arrived on site - Brysin caught him up with what was completed while he was away - will go through materials guide with Ted tomorrow morning

Visual Inspection:

- NCL final lift being placed
- fairly smooth

- Waste rock area prepped by dozer look far smoother than before
- toe of slope still needs to be fixed
- visable water on surface in swampy area

Testing and Sampling Completed:

- permeameter test installed in the morning
- got Tulloch to complete a nuclear densometer test at permeameter test location (density was 1606 kg/m3 at 26% moisture)

General Daily Remarks:

- NCL almost complete on all sections
- New Gold smoothed out waste rock on remainder of slope side
- Still uncertain what is occurring at the toe of the slope - New Gold needs to figure this out - Garry back on site tomorrow
- Likely begin CCL placement tomorrow

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

CQC Representative:

PHOTOGRAPHS

Photo #:

Remaining area to have L4 placed

Photo #:

Dumping of NCL material

Photo #:

Toe of slope with L4 placed

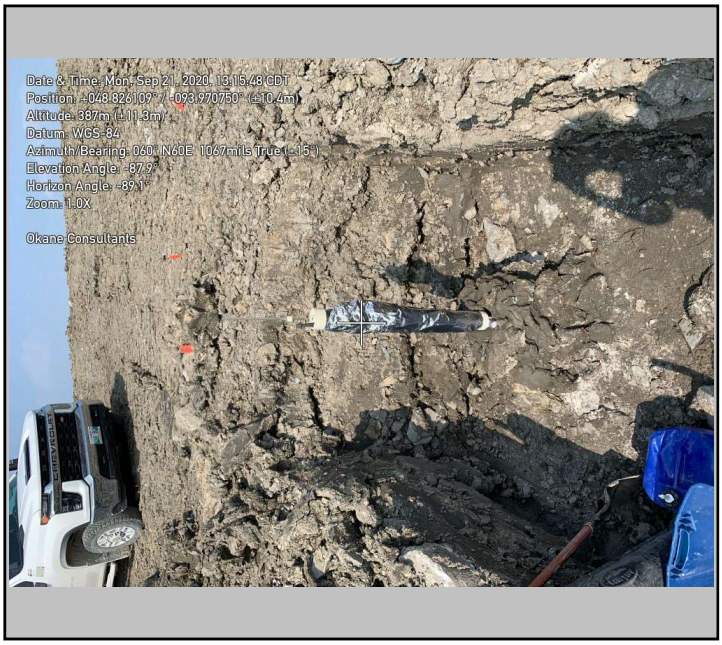


Photo #:

Permeameter installed

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	Sep 22, 2020	**Owner/Client:**	New Gold Inc.
Day:	Tuesday	**Okane Project #:**	1003-019
Prepared by:	H Cunningham	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Clear; Precipitation: 0 mm

Temperature (High/Low): 8 / 21; Humidity: 80 to 100%; Wind: Still

Afternoon Conditions Weather: Clear; Precipitation: 0 mm

Temperature (High/Low): 22 / 25; Humidity: 20 to 40%; Wind: Low

Meeting Summaries

- Met with Garry to discuss the toe drain located at the base of the slope near the swamp area
- New Gold is waiting to hear from Golder about where the drain is located and what needs to be done
- Garry was also made aware that Okane is not responsible for ensuring key infrastructure, such as the toe drains, do not get damaged during construction. Okane is just available for support on how to key in around these areas.
- Keying in along the swamp are will not be completed at this time. New Gold deems this area to wet and will have to be done at a later time. The CCL will be constructed to the base of the slope and will have to tie in when they do the key in trench.

Visual Inspection:

- NCL area looks good. Smooth along the slope.

- CCL material is being bulked down the slope. Material appears to be more like Brenna mateiral than WML. Material is brown, more sandy, and drier.

- Area with CCL prolonged exposure was quite dry when being stripped down (drying seemed quite deep).

- New Gold has pushed out the toe of the slope to blend WR better into the natural ground.

Testing and Sampling Completed:

N/A

General Daily Remarks:

- NCL was completed in the morning.

- Two dozers pushed the first lift of the CCL down the slope, to be compacted tomorrow morning.

- Tulloch and New Gold appear to better understand that the CCL cannot be left uncovered for extended periods of time. They will be doing a shorter section of CCL and immediately covering it.

- Area of prolonged exposed CCL has been stripped and will be re-compacted with the new CCL being placed. The area with 2 lifts of CCL will be examined tomorrow. Likely strip L2 and see what L1 looks like; L1 will be stripped as well if not in good condition.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

CQC Representative:

PHOTOGRAPHS

Photo #:

Swamp area looking towards where the toe drain likely is

Photo #:

CCL material being pushed down slope for L1

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	Sep 23, 2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**Okane Project #:**	1003-019
Prepared by:	H Cunningham	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Clear Precipitation: 0 mm

Temperature (High/Low): 19 / 8 Humidity: 80 to 100% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 20 / 16 Humidity: 60 to 80% Wind: Low

Meeting Summaries

- Met with Ted (and Garry briefly) to discuss results from previous sections. i.e. applying the laboratory proctors to the in situ density results. Some locations achieved <95% compaction when proctors applied. Had a discussion around proper sampling techniques, and how this might result in discrepancies if sampling is not taken from the density location due to material variability.
- Reiterated that Tulloch can call Okane with any questions they have while in the field.
- Tulloch sent Okane revised density checks with lab proctors. Okane will review and provide any comments and feedback.

Visual Inspection:

- L1 material appears to be a brenna blend with WML
- material is brown in colour with some chunks of dark grey (WML) mixed in

Testing and Sampling Completed:

N/A

General Daily Remarks:

- Low on operators - no one to run the packer. Material was just bulked down the slope.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

CQC Representative:

PHOTOGRAPHS

Photo #:

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	Sep 24, 2020	**Owner/Client:**	New Gold Inc.
Day:	Thursday	**Okane Project #:**	1003-019
Prepared by:	H Cunningham	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 18 / 11 Humidity: 60 to 80% Wind: Still

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 20 / 17 Humidity: 40 to 60% Wind: Low

Meeting Summaries

- Met with Ted and went over the material selection guide. Brought up the idea of proactive testing of the stockpiles to have an idea of what materials will be used for the CCL (Hal also sent message to group to as a recommendation).

Visual Inspection:

- material appears to be fairly consistent throughout the first lift. Looked brown (brenna) with areas of WML.
- L1 of CCL appeared to compacted well.
- only part of the pad was compacted need to finish compacting east side tomorrow morning.
- L2 of CCL began being placed over compacted area.

Testing and Sampling Completed:

Nuclear densometer #1 - 1446 kg/m3 at 26% (sample taken for proctor, WC, atterbergs, and hydrometer)
Nuclear densometer #2 - 1480 kg/m3 at 26%
Nuclear densometer #3 - 1435 kg/m3 at 27%
Nuclear densometer #4 - 1435 kg/m3 at 24% (sample taken for WC)

Material at all four locations looked more closely like WML than Brenna. High plasticity, high clay, stiff (difficult to push thumb into pad). Location might be good for a hydraulic conductivity test.

General Daily Remarks:

- Attempted a GPS dozer for L1 of CCL
- missing test results of EMRS-L2-022 (atterbergs, proctor, hydrometer) - not uploaded to sharepoint - Ted to get new gold to upload.
- Nuclear densometer tests were fairly similar for dry densities. Had assumed material was more of a blend based on visual inspection (colour of material - brown). Texture was high clay and high plastic which fits better with WML characteristics.
- Proactive moisture content and hydrometer sampling would be ideal for situation such as this where the material visually looked like a brenna blend but nuclear densometer tests indicate it is likely more WML

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

CQC Representative:

PHOTOGRAPHS

Photo #:

Large rock - had new gold remove a few rocks as they were thicker than the lift thickness and rolled during compaction creating a gap beside them

Photo #:

Nuclear densometer test #1

Photo #:

Nuclear densometer test pad - dark grey, high plastic, stiff

Photo #:

L1 CCL area completed

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	Sep 25, 2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**Okane Project #:**	1003-019
Prepared by:	H Cunningham	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Rain Precipitation: 0 - 5 mm

Temperature (High/Low): 16 / 10 Humidity: 80 to 100% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 - 5 mm

Temperature (High/Low): 20 / 16 Humidity: 60 to 80% Wind: Still

Meeting Summaries

- Met with Garry Noga, Ted Linley, Matt McKeown, and Hal Cooper for a check in meeting. Hal discussed the additional proactive testing (water content and hydrometer) for Tulloch to implement. New Gold to update on progress / weather conditions next week based on expected rain for the next four days.

Visual Inspection:

- Rained for most of the morning. Material is sticky and wet. Packer unable to drive on material.

Testing and Sampling Completed:

Completed three samples from stockpiled material to be used for upcoming L1 CCL. To have water content and hydrometer testing competed.

All material appeared to be WML with some brown top soil mixed in (roots, branches, etc.)

General Daily Remarks:

- Dozer bulking out L2 over L1 area compacted and tested yesterday. Area between L4 and new L1 has not been compacted yet (should be the next section completed).
- Might be an area where Lyndsey should get a Nuclear densometer test completed, as CCL strip along completed L4 area has been complete for a few weeks and was not covered (2 lifts in this area).

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

CQC Representative:

PHOTOGRAPHS

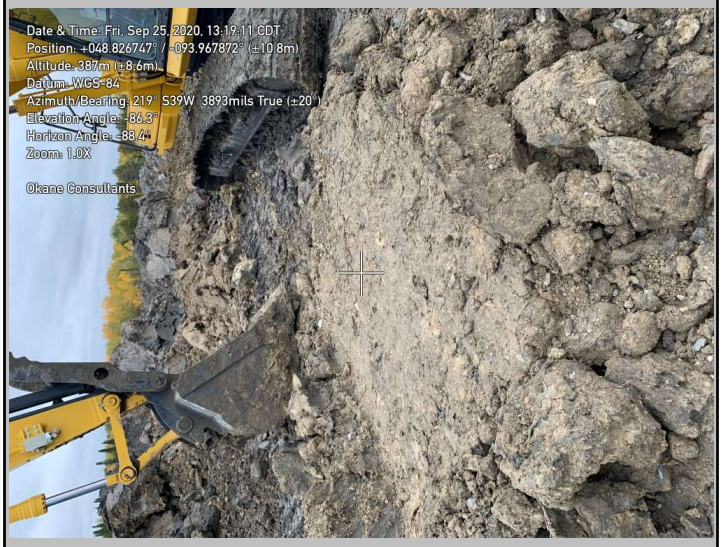


Photo #:

Stockpile sample 1

Photo #:

Stockpile sample 2

Photo #:

Stockpile sample 3

Photo #:

L2 bulk placement over L1 compacted on Sep 24

Duplicate Page

PHOTOGRAPHS

Photo #:

Nuclear densometer test #3 - L1 of exposed area

Photo #:

Nuclear densometer test #4 - L1

Photo #:

Nuclear densometer test #5 - L1

Photo #:

Nuclear densometer test #6 - L1

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	Sep 26, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**Okane Project #:**	1003-019
Prepared by:	H Cunningham	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions		Weather	Fair	Precipitation	0 mm	
Temperature (High/Low)	19	11	Humidity	80 to 100%	Wind	Still
Afternoon Conditions		Weather	Cloudy	Precipitation	0 - 5 mm	
Temperature (High/Low)	17	22	Humidity	20 to 40%	Wind	Low

Meeting Summaries

- Discussed with Ted about documenting changes or consistencies in material being placed in the CCL. Indicated that when Okane is not on site Tulloch should be noting and providing context on issues observed between in situ densities and laboratory proctor values. In addition, Tulloch was made aware that Okane might be requesting heat maps for review of thicknesses.
-Ted indicated that he had been sampling below the densometer for the previously completed areas.
- Discussed with Ted about covering entire CCL area with L3 before moving onto L4
- Ted indicated that he will be using the new surface that Tulloch created from the re-shaped slope for the remaining length of the slope.

Visual Inspection:

- Material has dried a fair bit to allow for compaction of L1 to be completed in the open section between L4 and L2.
- L2 material is fairly consistent with the first lift material in the area (grey with some brown clay, high plasticity, very mouldable).
- Large rocks removed from bottom area of slope.
- Areas noticeable where waste rock was showing, these areas were filled in to meet thickness specifications. This zone was prior to Tulloch developing a new surface for the slope; Tulloch was switching between two surfaces provided by New Gold.

Testing and Sampling Completed:

Densometer #1 - 1540kg/m3 at 20.2% used 1600kg/m3 (sampled -042) (Density ID 511)

Densometer #2 - 1420kg/m3 at 27.6% used 1512kg/m3 (Density ID 512)

Densometer #3 - 1321kg/m3 at 31.8% (proctor sampled from area -043) - exposed area

Tulloch completed three other densometer tests on L1 at far east side (crest, mid slope, lower slope) - densities similar to todays tests 1 & 2 and yesterdays. Material consistent with yesterdays L1.

Densometer #7 - second lift of exposed area - scraped and recompacted - 1338kg/m3 at 28.1% (material consistent with first lift) (Density ID 809)

General Daily Remarks:

- Compacting L1 areas and L2 areas. L2 areas will be completed tomorrow likely if weather holds.
- Then to place L3 across entire L2 area - need truck to move material for NCL lifts.

- Further discussion around densometer test #3 - L2 section we completed on Sept 5, but was never covered - material appeared to be WML (grey, stiff, plastic). However, field density did not fall on any of the current proctors curves; the 1512 kg/m3 did not align with the material. The material might fall on the proctor curve of the 1447 kg/m3 (28%) however we do not have a similar proctor for this project. A sample was taken to confirm that densities are meeting specifications.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

CQC Representative:

PHOTOGRAPHS

Photo #:

L2 non compacted

Photo #:

L1 being compacted

Photo #:

Nuclear densometer test #1 - L1 (511)

Photo #:

Nuclear densometer test #2 - L1 (512)

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	02-Oct-2020	**Owner/Client:**	New Gold Inc.
Day:	Friday	**Okane Project #:**	1003-019
Prepared by:	L Thorson	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Choose From List Precipitation: 0 mm

Temperature (High/Low): 2 / 1 Humidity: 60 to 80% Wind: Low

Afternoon Conditions Weather: Cloudy Precipitation: 0 mm

Temperature (High/Low): 3 / 2 Humidity: 60 to 80% Wind: Low

Meeting Summaries

- Arrived on site around 12:30
- Met with Ted to discuss current progress and plan for the next couple days. Currently have 2 dozers working on L4 for south slope and 1 excavator and dozer placing loose lift of L1 on the SE corner. Plan to finish around the corner and work two portions of slope.
- Had weekly update meeting with Ted and Okane - not much to report work is proceeding at a decent pace now

Visual Inspection:

- L1 material appears to be WML with some Brenna mixed in
- Material is dark grey with some brown mixed in
- Surfaces wet from recent rains but material is workable

Testing and Sampling Completed:

- Installed Borehole Permeameter test in previous sections that did not meet 95% compaction around Station 7+611 (previous samples taken in the area include Troxler 808 and proctor EMRS-L2-043
- Air tube still had water in when leaving site.

General Daily Remarks:

- Three dozers (2 New Gold; 1 Tom Veert) operating and 1 Excavator
- Haul trucks dumping additional clay material on the plateau
- Will require more material to cover the corner, but will have dumped closer when required.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

CQC Representative:

PHOTOGRAPHS

Photo #:

Looking E towards the working sections of the South Slope

Photo #:

Mix of WML and Brenna on working sections

Photo #:

Borehole permeameter installed

Photo #:

Loose lift of L1 on the SE corner of the EMRS

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	03-Oct-2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**Okane Project #:**	1003-019
Prepared by:	L Thorson	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 3 / 0 Humidity: 60 to 80% Wind: Low

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 7 / 3 Humidity: 40 to 60% Wind: Low

Meeting Summaries

- No scheduled meetings
- Had a brief meeting with Matt and Hal to discuss the low densities and high MC coming from Troxler tests on L1 panel

Visual Inspection:

- L1 material appears to be WML with some Brenna mixed in
- Material is dark grey with some brown mixed in
- Material feels to be wet

Testing and Sampling Completed:

- Collected sample (RR-EMRS-BH3) permeameter test for 3rd party proctor
- Collected sample (RR-EMRS-BH3X) and dropped off at lab to have MC taken
- Air tube had no water in it this morning
- Conducted 4 Troxler tests on L1 of working panel - results were low - collected 3 samples (2 MC/Proctor/atterbergs/hydrometer, 1 MC/hydrometer)

General Daily Remarks:

- Three dozers (2 New Gold; 1 Tom Veert) operating, 1 Excavator, and 1 Packer
- Haul trucks dumping additional clay material on the plateau - looks to be very good WML
- Compacted L1 to the corner
- Density tests came back low, called Matt and Hal - going to have packer make a few more passes then retest
- Found that packer teeth weren't getting cleaned and thus not penetrating lift while packing - had the mechanism fixed to clear stuck in clay
- Packer vibration mechanism had been on low - switched to high and running two (2) passes on L1 packed surface again with teeth and high vibration.
- Might be the reason behind low density numbers - will retest tomorrow in same spots

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

PHOTOGRAPHS

Photo #:

Packer on L1 (initial left - and repacked right)

Photo #:

L1 surface after initial packing

Photo #:

L1 surface after repacking on high vibration with cleaned drum

Photo #:

Test area

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	04-Oct-2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**Okane Project #:**	1003-019
Prepared by:	L Thorson	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 8 / 2 Humidity: 60 to 80% Wind: Low

Afternoon Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 11 / 8 Humidity: 40 to 60% Wind: Moderate

Meeting Summaries

- Discussed results of compaction testing on L1 of the south slope working panel with Matt and Hal - based on re-tests this morning, gave approval to move on to L2

Visual Inspection:

- Material for L1 south slope working panel appears to be WML with some Brenna mixed in
- Material for L1 east slope working panel appears to be WML but contain more Brenna than previous
- L2 on south slope working panel looks to be primarily WML

Testing and Sampling Completed:

- Took reading from permeameter this morning - 60.2 mm
- Completed 3 troxler tests in areas tested yesterday - numbers were better following recompaction
- Conducted 3 Troxler tests on L1 of the corner

General Daily Remarks:

- Two dozers (1 New Gold; 1 Tom Veert) operating, 1 Excavator, and 1 Packer
- Haul trucks dumping additional clay material on the plateau - looks to be very good WML
- Compacted L1 around the corner and on L1 east slope
- Pushed loose lift of L2 on the south slope up to the corner
- Will test east slope tomorrow before pushing L2 onto it
- Packer will hop back to the south slope panel to start compacting L2

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

PHOTOGRAPHS

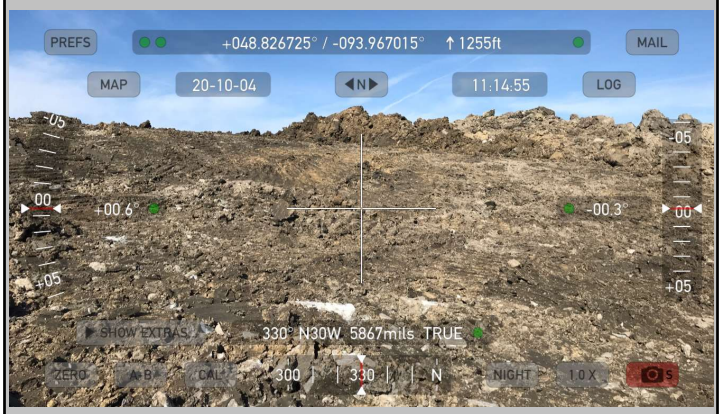


Photo #:

Loose lift of L1 on east slope working panel - more Brenna visible than previous panel

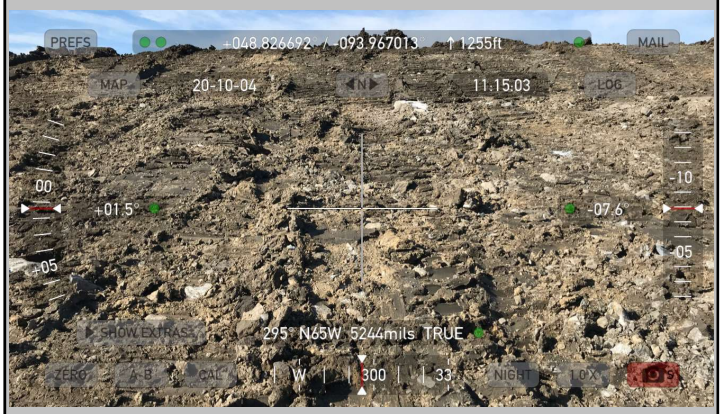


Photo #:

Loose lift of L1 on east slope working panel - more Brenna visible than previous panel

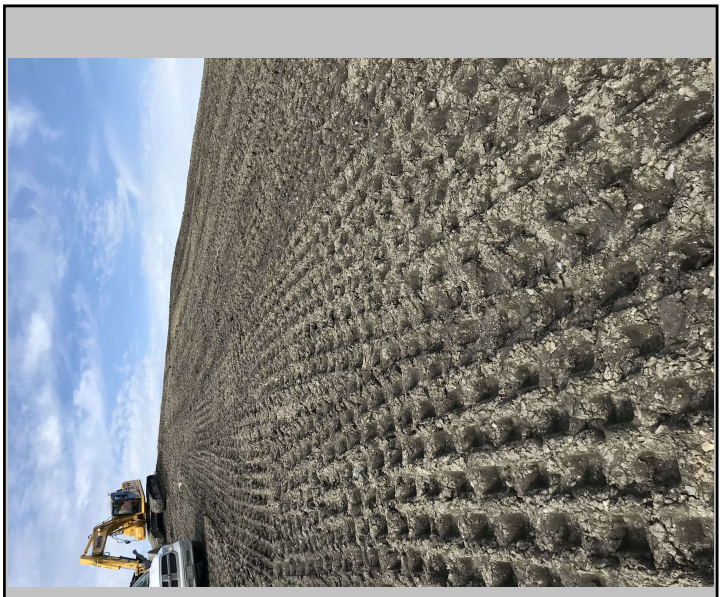


Photo #:

Compaction of SE corner slope

Photo #:

Troxler test location - sampled for MC and Hydrometer analysis

Duplicate Page

PHOTOGRAPHS

Photo #:

Stockpiled material for East slope CCL

Photo #:

Close up of stockpiled material for East slope CCL

Photo #:

Mixed sample of stockpile for CCL layer

Photo #:

Stockpile sample collection point

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	05-Oct-2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**Okane Project #:**	1003-019
Prepared by:	L Thorson	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Fair Precipitation: 0 mm

Temperature (High/Low): 11 / 10 Humidity: 60 to 80% Wind: Low

Afternoon Conditions Weather: Showers Precipitation: 0 - 5 mm

Temperature (High/Low): 12 / 11 Humidity: 60 to 80% Wind: Moderate

Meeting Summaries

- had a call with Okane team to discuss results of L1 compaction tests and path forward
- Brysin (Tulloch) arrived onsite to cross-shift for Ted
- Brysin was brought up to speed on current activities and path moving forward for the next couple days with L2.

Visual Inspection:

- L2 on south slope working panel looks like good WML - on the wet side - plastic and smooth based on feel test
- L1 on east slope working panel is a mix of WML and Brenna, increasing Brenna content as you move from the corner North along the slope based on visual inspection
- feels primarily like WML - dark grey and plastic -some sections are more brown and gritty/silty

Testing and Sampling Completed:

- Confirmation Troxler testing on L1 east slope working panel
- Densities were low and MC high - tried recompacting and sampling again - not much change
- Installed BP4 along completed slope around 7+700 - will start test in the morning Oct 6

General Daily Remarks:

- starting work on the key trench along the toe of the SE corner and the east slope working panel - reaching either bedrock or clay to key into.
- Based on Troxler testing and re-compaction trial - more compaction will increase DD a little bit but requires a number of additional passes
- Approved east slope working panel for L2

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

PHOTOGRAPHS

Photo #:

SE corner looking on the east slope working panel L1

Photo #:

SE corner looking on the south slope working panel L1 and loose lift of L2

Photo #:

Sample location on east slope where Brenna content increases

Photo #:

Working on the key in trench at the toe of the SE corner

Duplicate Page

PHOTOGRAPHS

Photo #:

Clay material encountered in key in trench at SE corner toe

Photo #:

Photo #:

Photo #:

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	06-Oct-2020	**Owner/Client:**	New Gold Inc.
Day:	Tuesday	**Okane Project #:**	1003-019
Prepared by:	L Thorson	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Cloudy; Precipitation: 0 - 5 mm

Temperature (High/Low): 8 / 8; Humidity: 80 to 100%; Wind: Low

Afternoon Conditions Weather: Fair; Precipitation: 0 mm

Temperature (High/Low): 13 / 9; Humidity: 60 to 80%; Wind: Low

Meeting Summaries

- Met with Garry (New Gold) and Brysin (Tulloch) to get Garry up to speed on progress made over the weekend and plan moving forward for the next couple days. Also discussed that we have budget to complete any sampling required by Okane.
- Had call with Garry, Brysin, and Okane team to discuss plan moving forward for the remaining field season - drying is not possible during the fall season, have to work with what we have. If rain and cold temperatures persist, construction will have to stop

Visual Inspection:

- L2 south slope working panel looks like consistent material; primarily WML with some Brenna mixed in - material feels a little wet and like WML based on Appendix A: Material Selection Process flow chart
- Visual inspection of the key in trench around the SE corner toe and along the east slope working panel indicates that bedrock is encountered at varying depths along the trench.

Testing and Sampling Completed:

- Finished setting up the BP4 test, took daily measurements
- Completed testing on the L2 south slope working panel
- Started testing on the L2 SE corner working panel - visually the compaction looks poor, but testing results has been consistent with L2 south slope working panel. Compaction on the SE corner occurred during/following a light rain, as the surface was wet it was tacky and stuck to the drum of the roller. It does not appear to have affected the level of compaction - purely visual.

General Daily Remarks:

- Leaving at the end of the day, heavy rains started - likely to delay work tomorrow
- Heavy rains continued into the evening and night

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

PHOTOGRAPHS

Photo #:

Sample location on L2 south slope working panel

Photo #:

Key in trench - bedrock encountered at varying depths

Photo #:

L2 on S slope working panel

Photo #:

L2 on SE corner - surface isn't as neat as S slope working panel but tested similarly

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	07-Oct-2020	**Owner/Client:**	New Gold Inc.
Day:	Wednesday	**Okane Project #:**	1003-019
Prepared by:	L Thorson	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Cloudy; Precipitation: 0 - 5 mm

Temperature (High/Low): 8 / 5; Humidity: 80 to 100%; Wind: Low

Afternoon Conditions Weather: Cloudy; Precipitation: 0 - 5 mm

Temperature (High/Low): 10 / 8; Humidity: 80 to 100%; Wind: Moderate

Meeting Summaries

- Met briefly with Brysin to discuss daily plan - due to heavy rains yesterday no work is likely to take place on the EMRS cover system today

Visual Inspection:

- All surfaces are extremely wet
- Water has ponded in compaction divots and any low areas
- Material is extremely sticky and slippery

Testing and Sampling Completed:

- Took daily readings from permeameter

General Daily Remarks:

- Material is extremely wet and not workable - will be left for the day to dry
- Travis (New Gold) was pushing material to the slope to prepare for additional loads of material for L3 and L4 for the SE corner
- Brysin was onsite to direct loads for dumping

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Digitally signed by

<original signed by>

CQC Representative:

PHOTOGRAPHS

Photo #:

Pooled water from heavy rains overnight at BP4 test location

Photo #:

Wet L2 surface on SE corner

Photo #:

Pooled water in compacted divots

Photo #:

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	08-Oct-2020	**Owner/Client:**	New Gold Inc.
Day:	Thursday	**Okane Project #:**	1003-019
Prepared by:	L Thorson	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Clear; Precipitation: 0 mm

Temperature (High/Low): 9 / 4; Humidity: 60 to 80%; Wind: Low

Afternoon Conditions Weather: Clear; Precipitation: 0 mm

Temperature (High/Low): 12 / 9; Humidity: 40 to 60%; Wind: Low

Meeting Summaries

- Met with Brysin and Travis (New Gold - Lead Hand) to discuss plans for the day. Tried to start packing L2 on E slope working panel, but material was too wet. Let material dry for the day and will try again tomorrow.
- Met with Brysin and Travis to discuss proactive sampling, enforce the idea that if we have a better idea of materials coming, we can work out a plan to deal with / use them. Reduce the potential for having to fail and rework sections

Visual Inspection:

- Surface of L2 shows some pooling water but surface dried significantly throughout the day.
- L3 material is good WML, based on feel test it is wetter than normal but still very workable

Testing and Sampling Completed:

- Collected three samples for moistures due to the rains and material being wet (2 on L2 and 1 on L3)
- Collected daily measurements for permeameter test

General Daily Remarks:

- Pushing L3 on South slope working panel, almost to the corner / edge of approved L2.
- Once finished L3, will push L4 or push L3 onto corner and east slope working section if the L2 gets compacted and approved

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

PHOTOGRAPHS

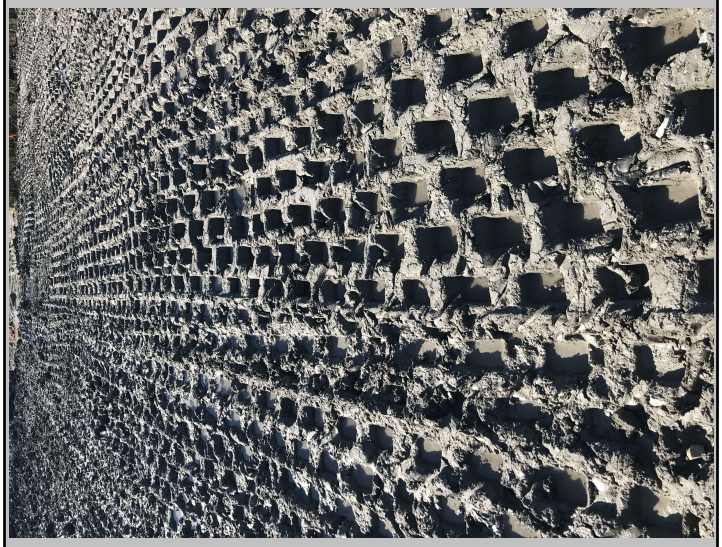


Photo #:

L2 surface on south slope working face - water pooling in divots but ridges are drying out

Photo #:

Sampling location for L2 south slope working face

Photo #:

Pushing L3 down on south slope working panel

Photo #:

Pushing L3 on south slope working panel

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	Oct 24, 2020	**Owner/Client:**	New Gold Inc.
Day:	Saturday	**Okane Project #:**	1003-019
Prepared by:	H Cunningham	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions

Weather: Choose From List

Precipitation: Choose From List

Temperature (High/Low):

Humidity: Choose from List

Wind: Choose from List

Afternoon Conditions

Weather: Cloudy

Precipitation: 0 - 5 mm

Temperature (High/Low): -2 / -3

Humidity: 60 to 80%

Wind: Moderate

Meeting Summaries

Met with Tulloch at the EMRS and discussed previous work completed to attempt CCL placement. Previous trials were unable to get packer to operate on material due to material being sticky and wet.

Will be attempting compaction trials tomorrow both on the slope and plateau.

Visual Inspection:

Lift 4 (NCL) being placed today. Finished up last area that required NCL placement.
- Material appear to be a WML & Brenna mix.
- material was sticky and wet

Testing and Sampling Completed:

Two samples were completed today for Moisture content and hydrometer (EMRS-L4-091 & EMRS-L4-092).

General Daily Remarks:

- Material is difficult to work on even for dozers
- Material was 'new' material dumped a few days ago and temperatures of clay were below 1 deg C

- Area north of completed cover system area began being prepped for compaction trials tomorrow
- stockpiled material appears firm and easy for dozers to drive on
- snow was cleared to the sides as to not be included in the CCL material
- WR surface will need to be cleared prior to placement however this does not seem like it wll be an issue

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

<original signed by>

CQC Representative:

PHOTOGRAPHS

Photo #:

Sample EMRS-L4-092

Photo #:

Finished section of L4

Photo #:

New area cleared for CCL placement trial

Photo #:

Duplicate Page

PHOTOGRAPHS

Photo #:

Slope compaction area

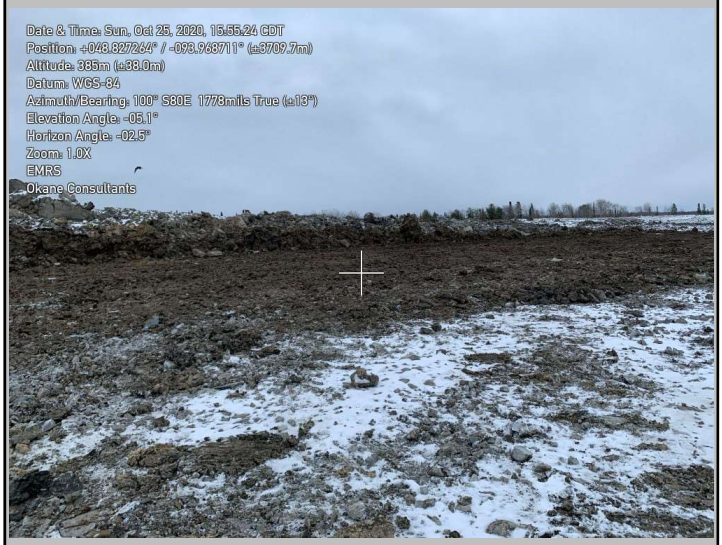


Photo #:

Plateau lift 1

Photo #:

Plateau compaction area

Photo #:

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	Oct 25, 2020	**Owner/Client:**	New Gold Inc.
Day:	Sunday	**Okane Project #:**	1003-019
Prepared by:	H Cunningham	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Cloudy; Precipitation: 0 - 5 mm

Temperature (High/Low): -4 / -6; Humidity: 0 to 20%; Wind: Low

Afternoon Conditions Weather: Cloudy; Precipitation: 0 mm

Temperature (High/Low): -2 / -4; Humidity: 0 to 20%; Wind: Moderate

Meeting Summaries

-Met with Tulloch and New Gold Operations to determine what work was going to be completed today
- Both a slope and plateau compaction trial were completed
- New Gold (Andrew) selected both locations for the test trials

Visual Inspection:

Slope:
- material appears to be WML and Brenna mix (more WML than Brenna)
- Thin layer of snow covering both stockpiles and waste rock slope surface
- Slope was cleared (photo 1) prior to material placement
- Stockpile material with snow was pushed off to the side and material was used from center of pile (photo 3)

Plateau:
- material was mostly Brenna with some WML - Brown, less cohesive than slope material
- Waste rock surface was prepped (photo 2)- location was at South-east corner of EMRS
- Snow was cleared from top of pile by excavator and pushed out by dozer

Testing and Sampling Completed:

Slope:
- temperature of material in center of stockpile was ~4 degC
- Exposed material near edges of stockpile were ~0.2 degC
- Temperature of material after compaction was ~-0.2 degC (photo 4)
- EMRS-L1-093 - sampled for Moisture content and hydrometer

Plateau:
- Temperature of material after compaction was ~1-3 degC (material was not exposed as long as slope material due to thinner layer placed)
- EMRS-L1-094 - sampled for Moisture content and hydrometer

General Daily Remarks:

- If construction continues a big thing will be tracking material that has been removed due to snow removal - likely should be removed completely from stockpile and moved off to the side to ensure it is not used in the CCL or NCL

Slope:
- compaction was tried with and without compaction - results were the same - material was sticking to the drum of the roller causing issues with tractability of material and was not compacting material (photo 5)
- material was very sticky as it was being placed with dozer

Plateau:
- same procedure as slope (photo 6)
- vibration on and off had same results as slope - material was sticking to the roller even more so than the sloped trials due to difference in material (photo 7)

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

CQC Representative:

PHOTOGRAPHS

Photo #:

Slope WR surface cleared of snow

Photo #:

Plateau WR surface cleared of snow

Photo #:

Slope lift 1

Photo #:

Slope temp

Duplicate Page

Rainy River EMRS
QA Inspection Report

Date:	Oct 26, 2020	**Owner/Client:**	New Gold Inc.
Day:	Monday	**Okane Project #:**	1003-019
Prepared by:	H Cunningham	**Project Location:**	Ontario

Number of Pages in Report

Environmental Conditions:

Morning Conditions Weather: Cloudy Precipitation: 5 - 10 mm

Temperature (High/Low): -1 / -4 Humidity: 60 to 80% Wind: Still

Afternoon Conditions Weather: Choose from list Precipitation: Choose from list

Temperature (High/Low): / Humidity: Choose from list Wind: Choose from list

Meeting Summaries

- Met with Garry, it has been decided that construction of the cover system is complete for the year.
- notified Garry that Tulloch can continue pro-active sampling along the remaining stockpiles (moisture content and hydrometer)

Visual Inspection:

Testing and Sampling Completed:

General Daily Remarks:

- The cover system Lift 4 was complete on saturday along with capping of the edge of the cover system to 1 m wide.

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

CQC Representative:

PHOTOGRAPHS

Photo #:

Photo #:

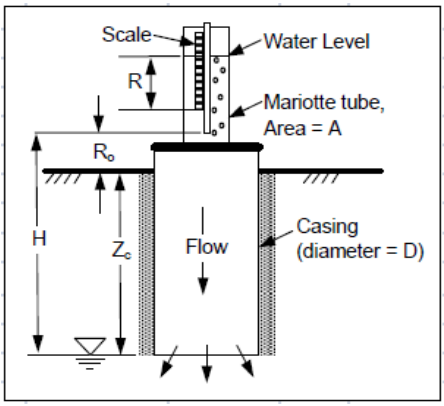
Photo #:

Photo #:

Duplicate Page

Borehole Hydraulic Conductivity Test
ASTM D 6391 Method C

Project:	1003-19
Date:	08-Sep-20
Test ID:	EMRS-BP-001
Installer:	MM
Analyst:	MM



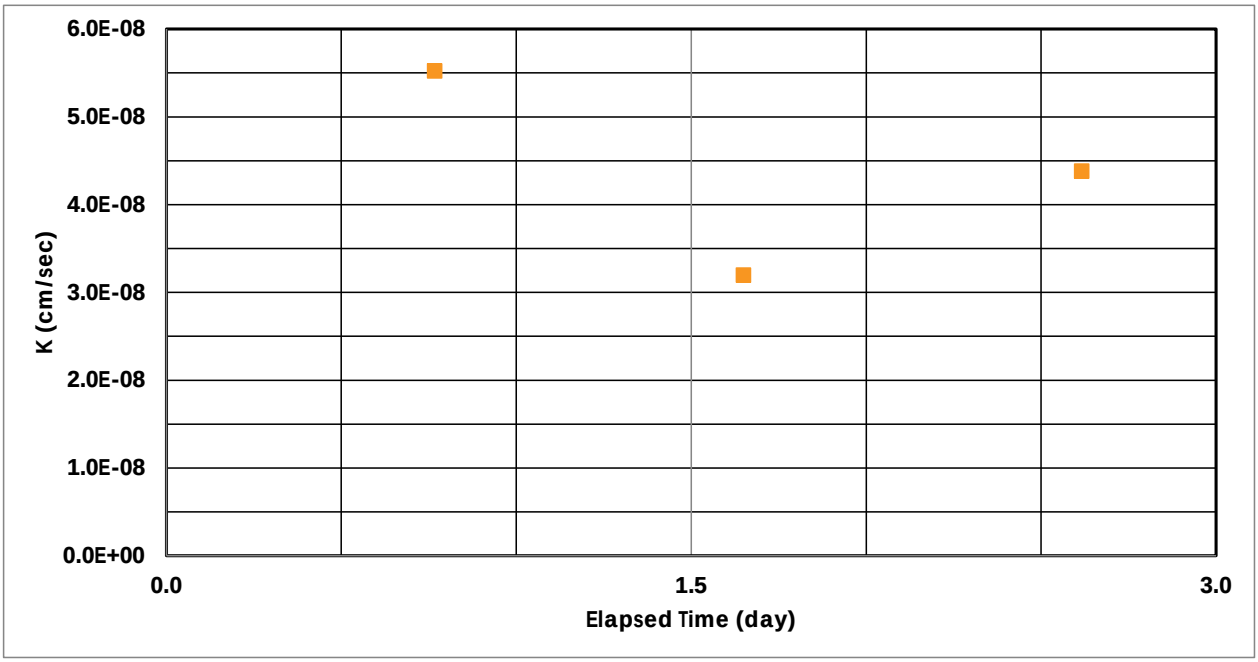
Fixed Variables:

Casing Diameter, D	cm	30
Standpipe Inner Diameter, D	cm	6.8
Mariotte Outer Diameter, D	cm	1
Standpipe Inner Area	cm^2	35.2
Bubble Pt Elevation,Ro	cm	12
Casing Embedment, Zc	cm	23
TEG (yes/no)	yes/no	no

Temporal Field Data: **Computations:**

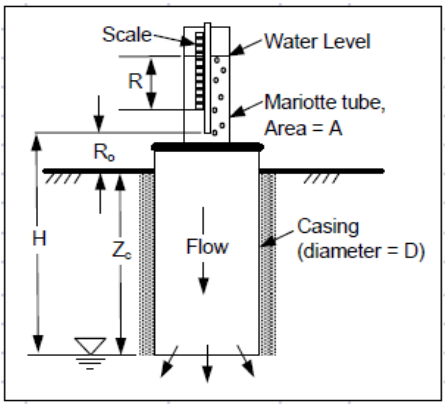
Date	Time	R (cm)	T(˚C)	Comments	Q	Elapsed	Rt	K	Percent Change
08-Sep-20	17:20	64.1	10	Start	(mL/s)	Time (d)	(-)	(cm/s)	%
09-Sep-20	11:44	64.4	10	Next day	-1.60E-04	0.767	1.000	5.52E-08	
10-Sep-20	8:55	64.6	15		-9.24E-05	1.649	1.000	3.20E-08	3%
11-Sep-20	8:07	64.9	15	Final	-1.27E-04	2.616	1.000	4.38E-08	-2%

GEOMEAN	**4.4E-08**



Borehole Hydraulic Conductivity Test
ASTM D 6391 Method C

Project:	1003-19
Date:	21-Sep-20
Test ID:	EMRS-BP-002
Installer:	HC
Analyst:	MM



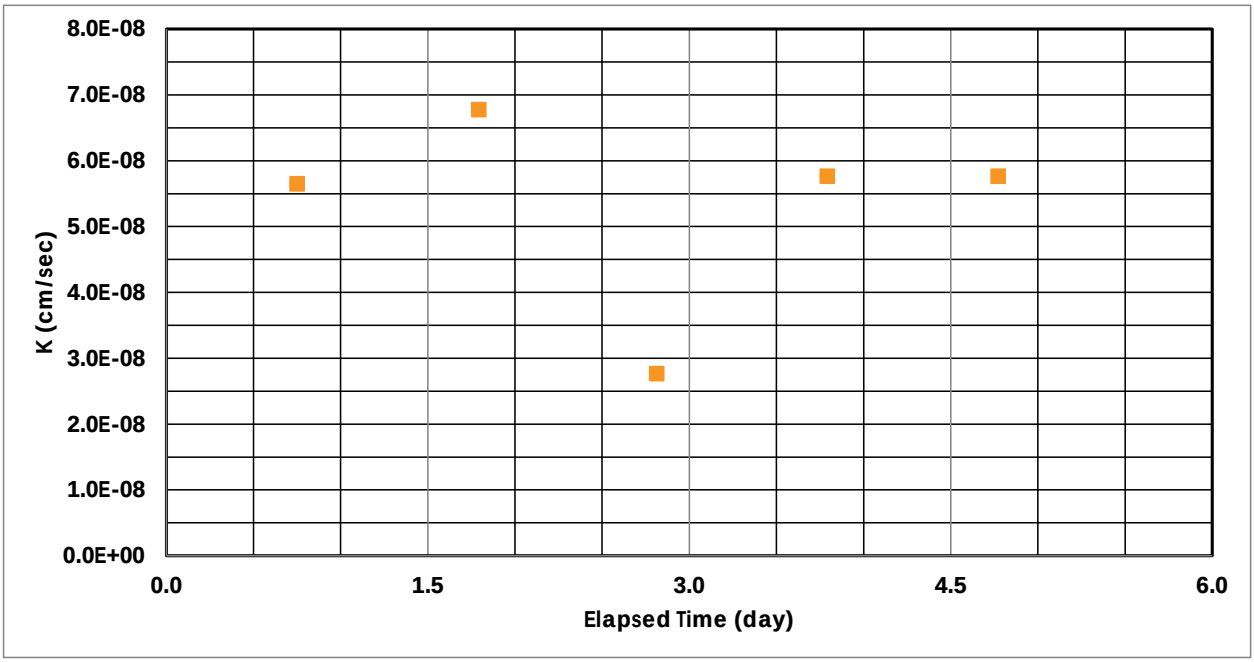
Fixed Variables:

Casing Diameter, D	cm	30
Standpipe Inner Diameter, D	cm	6.8
Mariotte Outer Diameter, D	cm	1
Standpipe Inner Area	cm^2	35.2
Bubble Pt Elevation,Ro	cm	10
Casing Embedment, Zc	cm	25
TEG (yes/no)	yes/no	no

Temporal Field Data: **Computations:**

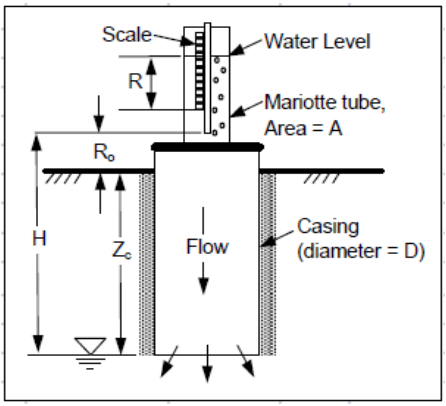
Date	Time	R (cm)	T(˚C)	Comments	Q	Elapsed	Rt	K	Percent Change
21-Sep-20	13:00	64	25	Start	(mL/s)	Time (d)	(-)	(cm/s)	%
22-Sep-20	7:00	64.3	12	Next day	-1.63E-04	0.750	1.000	5.65E-08	
23-Sep-20	8:00	64.8	13		-1.96E-04	1.792	1.000	6.78E-08	-1%
24-Sep-20	8:30	65	10		-7.99E-05	2.813	1.000	2.77E-08	5%
25-Sep-20	8:00	65.4	13		-1.67E-04	3.792	1.000	5.77E-08	-4%
26-Sep-20	7:30	65.8	11	Final	-1.67E-04	4.771	1.000	5.77E-08	0%

GEOMEAN	**5.0E-08**



Borehole Hydraulic Conductivity Test
ASTM D 6391 Method C

Project:	1003-19
Date:	02-Oct-20
Test ID:	EMRS-BP-003
Installer:	LT
Analyst:	MM



Fixed Variables:

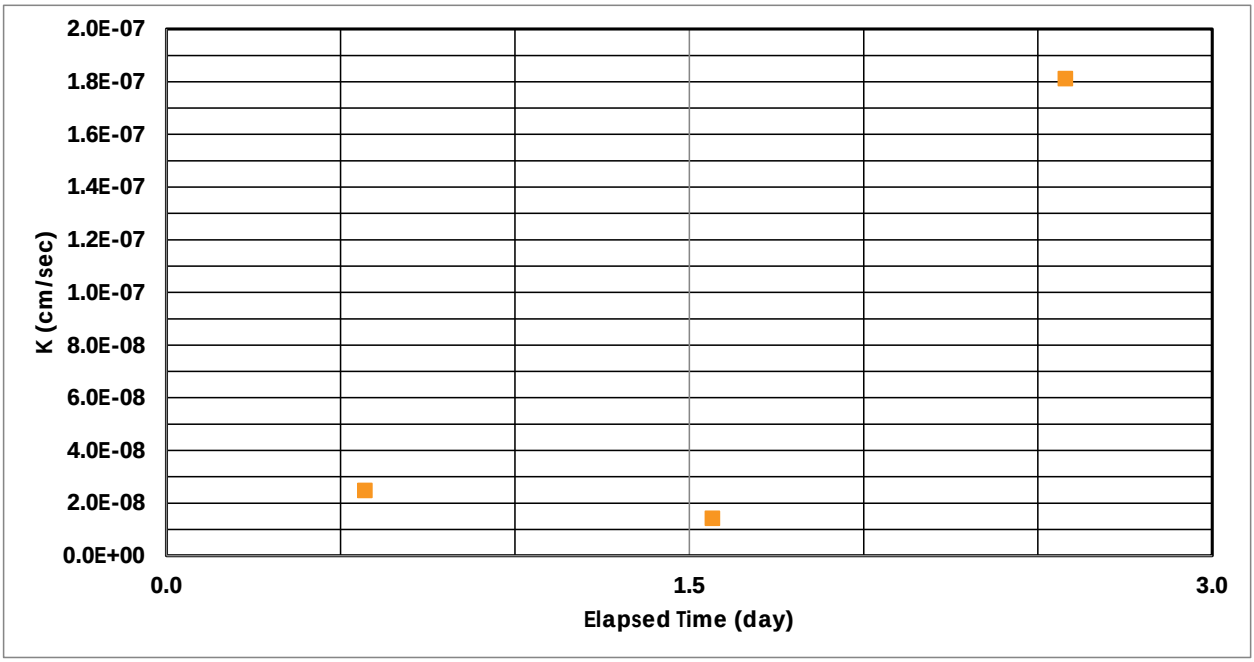
Casing Diameter, D	cm	30
Standpipe Inner Diameter, D	cm	6.8
Mariotte Outer Diameter, D	cm	1
Standpipe Inner Area	cm^2	35.2
Bubble Pt Elevation,Ro	cm	10
Casing Embedment, Zc	cm	25
TEG (yes/no)	yes/no	no

Temporal Field Data: **Computations:**

Date	Time	R (cm)	T(˚C)	Comments	Q	Elapsed	Rt	K	Percent Change
02-Oct-20	18:07	60	10	Start	(mL/s)	Time (d)	(-)	(cm/s)	%
03-Oct-20	7:47	60.1	10	Next day	-7.16E-05	0.569	1.000	2.48E-08	
04-Oct-20	7:42	60.2	10		-4.09E-05	1.566	1.000	1.42E-08	3%
05-Oct-20	8:00	61.5	10	Final	-5.23E-04	2.578	1.000	1.81E-07	-16%

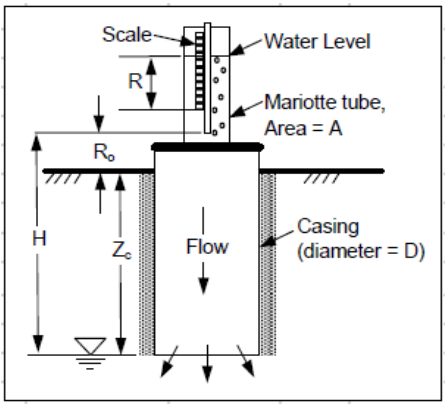
GEOMEAN	**4.0E-08**

Comment: Insufficient number of readings to confirm steady



Borehole Hydraulic Conductivity Test
ASTM D 6391 Method C

Project:	1003-19
Date:	06-Oct-20
Test ID:	EMRS-BP-004
Installer:	LT
Analyst:	MM



Fixed Variables:

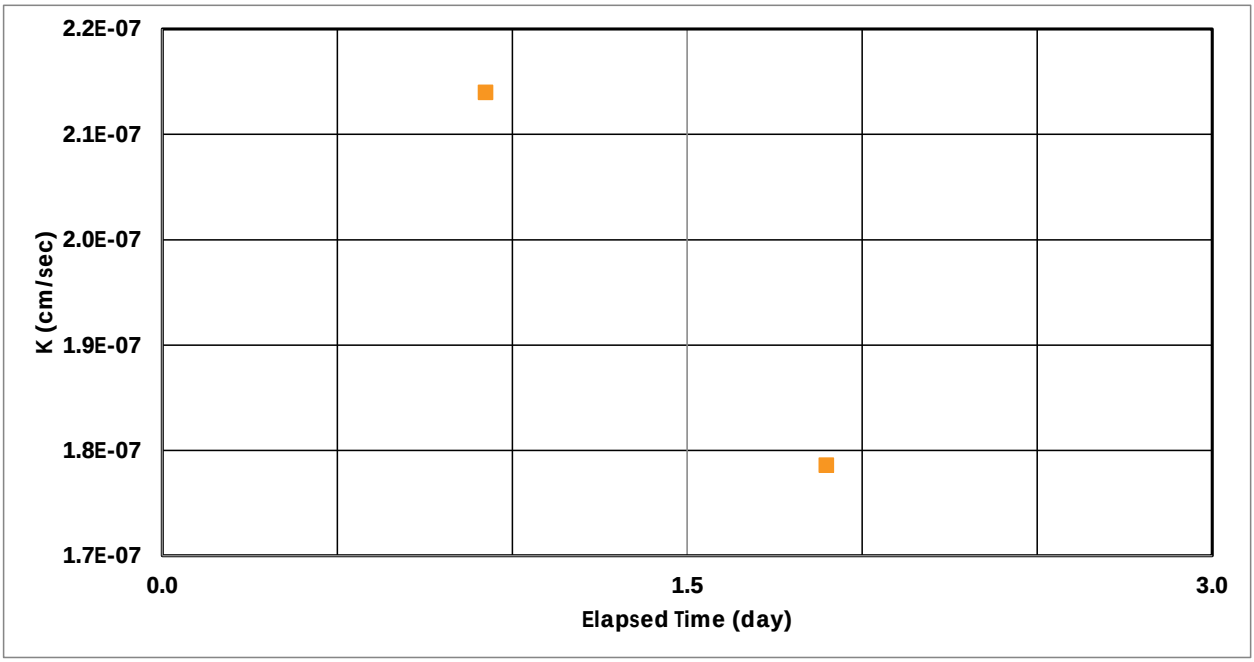
Casing Diameter, D	cm	30
Standpipe Inner Diameter, D	cm	6.8
Mariotte Outer Diameter, D	cm	1
Standpipe Inner Area	cm^2	35.2
Bubble Pt Elevation,Ro	cm	10
Casing Embedment, Zc	cm	25
TEG (yes/no)	yes/no	no

Temporal Field Data: **Computations:**

Date	Time	R (cm)	T(˚C)	Comments	Q	Elapsed	Rt	K	Percent Change
06-Oct-20	10:10	61.9	10	Start	(mL/s)	Time (d)	(-)	(cm/s)	%
07-Oct-20	8:20	63.3	10	Next day	-6.18E-04	0.924	1.000	2.14E-07	
08-Oct-20	7:42	64.3	10	Final	-5.16E-04	1.897	1.000	1.79E-07	1%

GEOMEAN	**2.0E-07**

Comment: Insufficient number of readings to confirm steady



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