NEW GOLD RAINY RIVER MINE APPENDIX B EMRS RECORD OF CONSTRUCTION



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 m²) 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 (24hour 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 O₂ ingress into the underlying mine rock (barrier layer). The cover system provides source control in two ways: the limitation of O₂ 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;
- 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;
- 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, threepoint 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 m³ (Table 3.1). To date, 20,754 m³ of CCL and 38,291 m³ of NCL have been placed (Tulloch, 2020b).

Lift	Material Placed Aug 27 th to Sep 30 th , 2020 ¹	Material Placed Oct 1 st to Oct 31 st , 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

Table 3.1: Material Placement Volumes

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 o	of EMRS	Area	Covered
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Lift	Material Surveyed Aug 27 th to Sep 30 th , 2020	Material Surveyed Oct 1 st to Oct 31 st , 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

¹Tulloch, 2020d

Lift	Average Lift Thickness Aug 27 th to Sep 30 th , 2020	Average Lift Thickness Oct 1 st to Oct 31 st , 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	

Table 3.3: Estimate of Average Lift Thickness

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.

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
			NG excavated key trench from 7+816 -
7+816	0+008	5-Oct-20	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

Table 3.4: Key-in Trench Activities

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 m³ 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

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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.

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 Materi	ials		
Gravimetric water content (ASTM D2216-19)	1 per 1000 m ³	20	21	1.4 per 1000 m ³	3.5 per 1000 m ³
Atterberg Limits (ASTM D4318-00)	1 per 1000 m ³	6	9	0.4 per 1000 m ³	1.5 per 1000 m ³
Particle Size Distribution – Hydrometer (ASTM D6913M-17, D7928-17)	1 per 1000 m ³	9	14	0.6 per 1000 m ³	2.3 per 1000 m ³
Standard Proctor (ASTM D698-12e2)	1 per 4000 m ³	10	7	2.7 per 4000 m ³	4.6 per 4000 m ³
		NCL Materi	ials		
Gravimetric water content (ASTM D2216-19)	1 per 2000 m ³	11	18	0.9 per 2000 m ³	2.6 per 2000 m ³
Particle Size Distribution – Hydrometer (ASTM D6913M-17, D7928-17)	1 per 3000 m ³	9	9	1.1 per 3000 m ³	1.9 per 3000 m ³

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

* 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.

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

Table 3.6: Record testing conducted during September and October 2020

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. 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.

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

Results of hydraulic conductivity testing are summarized in Table 3.7.

Table 3.7: Summary of hydraulic conductivity tes	ting
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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%	76%
			(30% failed tests outside of allowable range for outliers)	(34% failed tests outside of allowable range for outliers)
			(60% failed tests wet/ 40% dry)	(76% failed tests wet/ 24% dry)
Dry Density	3%	0.08 t/m ³ below required value	26%	18%
	(not concentrated in one area)		(44% failed tests outside of	(35% failed tests outside of

allowable range	allowable range
for outliers)	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 Kfs; 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 Kfs 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.
- 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.

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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.

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Appendix A

EMRS Operational Handbook

EMRS Cover Construction Operational Handbook

September 17, 2020

newgald 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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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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Attachment A Material Selection Guide

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 (O₂) 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 O₂ 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.

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 3.1: Laboratory Testing Standards

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.

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.

Table 4.1: Definitions/Abbreviations

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.

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 D698¹.

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 m³/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/ft³ (600 kN-m/m³)).



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 m³ 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/m³.

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 $R_{\rm U}$ (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).

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

able 6.2: Control Testing	Frequency for Fill Mat	erials after Placement
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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		

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

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

* 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.

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

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

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



newgold

OVERBURDEN PROCTOR CURVES







SHEET OF OPTIMUMS



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


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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)

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

	·	
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 Material Gradation Specification



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 2: CCL lift thickness tolerances

Table 3: CCL Compaction Effort

Minimum Dry Density	Moulding water	Minimum # of Passes/	Minimum Overlap of
	content	Lift (padfoot roller)	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

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

Table 1: Testing Frequency in Pit Boundary

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 Siłu 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

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

1

Appendix B

Summary of Laboratory Results

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-SO2	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 – September 2020 Laboratory & Field Results

Table A1: Laboratory Moisture Contents

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

ATTACHMENT A – October 2020 Laboratory & Field Results

Table A1: Laboratory Moisture Contents - October

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

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

Table A2: Atterberg Limits - October



Figure A1: Hydrometer Data - October



Figure A2: Laboratory Proctor Curves

October 8, 2020

Date Sampled	Density ID	Sample ID	Field Moisture Content (%)	Field Dry Density (kg/m³)	Field Wet Density (kg/m³)
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

Table A3: Nuclear Densometer Results - October

P		MACH	RING LTD.	ASTM D6	98: ST C	ANDA DENSIT	RD PR Y ANA	OCTO LYSIS	r Moi	STURE-
		PROJECT:	Rainy River EMPS (1003-023-00	6-000004)						
		SOURCE:	Compacted Clay Liner (CCL) - Sa	mple Delivered to P. Ma	chibroda E	ingineering l	Ltd.			
		HOLE: TECHNICIAN:	K. Rendek	SAMPLE :		_	1 DATE:		DEPTH: October 27	2020
		TRIAL NUMBER			1	2	3	4	5	6
ΙΤΥ ΙΑΤΙΟΝ		Wt. Sample Wet + M Wt. Mold (Grams)	lold							
DETERMIN		Wt. Sample Wet (Gra Volume of Mold (cm Wet density (kg/m ³)	ams) ³)							
		Dry density (kg/m ³)			1492	1525	1562	1534		
ONTENT VATION		TARE NUMBER Wt. Sample Wet + Ta Wt. Sampe Dry + Tar	are (Grams) re (Grams)							
NATER CO		Wt. Tare (Grams) Wt. Dry soil (Grams) Wt. Water (Grams)								
	-	Water content (%)			19.8	21.9	24.0	26.2		
DENSITY (kg/m³)	1550 - 1525 - 1500 - 1475 - 19.0		Max Density	25.0 1000	27.0	AT OPTIMUM CORRECTED DENSITY (Kg, DENSITY (Kg, METHOD OF DIA. MOLD(I NO. OF LAYEI NO. BLOWS F Ht. OF FREE I Wt. OF TAMI SHAPE OF TA PREPARATIO RAMMER DE MOISTURE A SPECIFIC GRJ % OF OVERSI DESCRIPTION DRY DENSITY WET DENSITY REMARKS:	M W% = OPTIMUM M /m ³) /m3) - ROCK C COMPACTION NS) RS PER LAYER FALL (INS) PER (IbS) AMPING FACE N METHOD SCRIPTION S RECEIVED, 5 AVITY(assume IZE FRACTION N OF SAMPLE (= (100XWET Y = (Wt. comp Compacts)	OISTURE W% CORRECTION N: % d) (Pc) DENSITY)/(100 act soil)/(vol. HIBRODA ENGI	= ASTM D698 Circula Circula CH - f O+W%) compact soil ES ARE IN ACCC STANDARD NEERING LTD.	24.5 N/A 1564 N/A -METHOD A 4 3 25 12 5.5 r Planar Dry Manual 31.0 2.65 N/A at Clay
		CERTIFIED BY	•	DRAWING NO.			Preston Sche	ergevitch, A.So	c.T.	
		Canadian Council of Independe For specific tests as listed or	Not All backetory			174	144-1	C		

APPROVED BY: RAY MACHIBRODA; REVISION NO. 4

P.MACHIBRODA

AASHTO T 88: PARTICLE SIZE ANALYSIS OF SOILS

Project: Location:

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

Project No.: 17444

Date Tested: October 27, 2020

1

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

Sample No.:

Material: CH - Fat Clay

Sieve Analysis:	Sieve	Diameter	%	Hydrometer Analysis:	Diameter	%
		mm	Finer		mm	Finer
	1.5"	38.1	100	Dispersing Agent:	0.0554	82.5
	1"	25.4	100	Sodium Hexametaphosphate	0.0398	79.3
	3/4"	19.1	100		0.0283	78.2
	1/2"	12.7	100		0.0201	77.1
	3/8"	9.5	100		0.0143	75.7
	# 4	4.75	100		0.0105	74.3
	# 10	2	100		0.0075	71.2
	# 20	0.85	98		0.0054	67.1
	# 40	0.425	96.8		0.0039	63.8
	#60	0.25	95.3		0.0028	58.6
	# 100	0.15	92.6		0.0020	54.3
	# 200	0.075	87.4		0.0012	47.9
1						

Material Description:



ASTM D4	318: LIQUID LIMIT,	PLASTIC LIMIT	, AND PLASTICI	TY INDEX
P.MAC ENGINE 806 48TH STREET EAST, SASKATOON	HIBRODA ERING LTD. N, SK 57K 3Y4	PROJECT NUMBER: PROJECT NAME: PROJECT LOCATION: DATE:	PROJECT INFORMAT 17444 Rainy River EMPS (100 October 27, 2020	ION 3-023-006-000004)
	SAM	PLE INFORMATION		
SOURCE: Compacted Cla	y Liner (CCL) - Sample Deliver	ed to P. Machibroda E	ngineering Ltd.	
SAMPLE NUMBER:	1			
MATERIAL: CH - Fat Clay				
	TESTING M	FTHOD AND FOUIP	MFNT	
METHOD OF PREPARATION:	Oven Dried			
METHOD OF REMOVING PA	RTICLES 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)		
			тс	
	LADON		13	
	Test No.		2	2
	Test NO.		2	3
	Noisture Content (%)	01.7	03.7	15
	NO. OF BIOWS	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	
	FL	OW CURVE GRAPH		
67.0 -				
66.5	•			
65.5				
65.0 64.5				
0 3 64.0				
63.0				
62.5				
61.5				
10		20	30	40
		Number of Blows		
- CEDTIELED BY			WE CERTIFY TESTING PROC	EDURES ARE IN ACCORDANCE WITH
		. –		I STANDARDS DA ENGINEERING I TD.
Canadian Council of Independent Laboratories	17444	-1B	DED Proston A	honceinta
For specific tests as listed on www.ccil.com			Preston Schergevit	h, A.Sc.T.
APPROVED BY: BAY MACHIBRODA: REVISION NO	2			luly 13 202



							ASTM D431	8		
Project:	Rainy Rive	r Mine Site				Sample N	Name.:	EMRS-A1-L1-018	Sample Location:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sar	npled:	Aug 27 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tes	ted:	Aug 30 2020		
Sample	Sample	Depth	Moisture	Att	erberg Li	mits Mod.		Soil Description		
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-A1-L1-018	Pit Dump	N/A	31.2%	66	19	47	СН		Clay	
Remarks:										
									Jose Hauser	1
								Reviewed By:	0 0	J
								iterienea By.	Joe Harvev Materails	Tech

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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

October 8, 2020

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

Table A3: Nuclear Densometer Results



GRADATION ANALYSIS REPORT

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

Test Dat Project: Client: Inspecto	te : or:	1-Sep-1 Rainy I New G Allnort	20 River M Jold th	ine Site	Repo Job # Lab ⁷ Mate	rt no.: : Fag #: rial Type:	EMRS-A1 2001417 EMRS-A1 Clay	-L1-018 -L1-018	3				L S S	ocatio ample ample	on: ed Date: e by:		EMRS 27-Aug Tulloch	-20 Engin	eering	Sample	Гуре: Fie	d Sample	
		С	oarse S	ection							Fines	Sectio	m						Ну	dromete	r Results		
Si	eve	Perc	ent	Specs		Specs		2	Sieve	Perce	nt	Spec	es		Specs					Size		Percent	
S 150.0 100.0 75.0 63.0 50.0 45.0 31.5 25.0 22.4 19.0 16.0 12.5 9.5 5 6.30 4.7:	ize 00 mm 00 m	Pass 99.	sing 0% 6%	Max		Min		$\begin{array}{c} 4.7\\ 50.4\\ 37.4\\ 25.4\\ 19.4\\ 12.2\\ 9.5\\ 4.7\\ 2.3\\ 1.1\\ 0.6\\ 0.3\\ 0.1\\ 0.0\\ 0.0\\ \end{array}$	Size 50 mm 000 mm 000 mm 000 mm 500 mm 500 mm 500 mm 50 mm 50 mm 50 mm 50 mm 50 mm 50 mm 50 mm 53 mm	Passii 97.6 97.6 97.0 97.0 96.0 94.9 93.2 90.9	ng % % % %	Max	x		Min					0.074 m 0.050 m 0.020 m 0.005 m 0.002 m 0.001 m	m m m m m	Passing 90.9% 90.1% 87.9% 76.9% 63.2% 46.8%	
			U.S.	Standard S	ieve O	pening in Inc	ches		U.S	. Standar	d Sieve	Numb	ers				Hydron	neter F	Results				
	100%		20	6 4	1 3	1½	³ / ₄ ¹ / ₂ ³ / ₈	#4	10	16 20 3	0 40	50	100	200							0%		
	90%	-											-								10%		
	80%	-															\searrow				20%		
	70%																				30%		
/eigh	60%	-																-			400/	ight	
∧ ∧	60%																				40%	/ We	
sing	50%	-																			50%	ld be	
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%	30%	-																			70%	% Re	
	20%																				80%		
	10%	-																			90%		
	0%																				100%		
	1	000		10	00		10	0		1	4		0	.1			0.01			0.	0u i		
						Gr	avels	Gr	ain Size ir	n iviiiime	nds						1						
			C	obbles		Coarse	Fine	+	Coarse		Medi	um	Fine			Silts	8		C	lays			

 USCS Classification:
 CH
 Silt
 14.0%

 Gradation
 % Gravel 2.4%
 % Sand
 6.7%
 % Silt & Clay
 90.9%
 Clay
 76.9%

Reviewed By:

Joe Harvey Materials Tech

Comments:



							ASTM D431	8		
Project:	Rainy Rive	r Mine Site				Sample Name.: <u>EMRS-A1-L2-</u>		EMRS-A1-L2-019	Sample Location:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sampled: A		Aug 27 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tes	ted:	Aug 30 2020		
Sample	Sample	Depth	Moisture	Att	terberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	(%)	LL	PL	PI	USCS	Type, constituants/compo c	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-A1-L2-01	Pit Dump	N/A	28.5%	60	17	43	СН		Clay	
										_
						_				
			-				-			
Remarks:	<u>.</u>								2 11	· · · · · · · · · · · · · · · · · · ·
									José Hauser	1
								Reviewed By:		

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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 POW 1A0 Phone: 306-242-4303

Fines SectionHydrometer ResultsSievePercentSpecsSpecsSizePercentSpecsSpecsSizePercentSpecsSpecsSizePercentSpecsSpecsSizePercentSpecsSpecsSizePercentSpecs <th>Test Date : Project: Client: Inspector:</th> <th>31-Aug Rainy I New G Allnort</th> <th>g-20 River Mine Site Gold th</th> <th>Report no.: Job #: Lab Tag #: Material Type:</th> <th>EMRS-A1-L2 2001417 EMRS-A1-L2 Clay</th> <th>2-019 2-019</th> <th></th> <th>Loc San San</th> <th>cation: npled Date: nple by:</th> <th>EMRS 27-Aug-20 Tulloch Enginee</th> <th>Sample T ering</th> <th>'ype: Field Sample</th> <th></th>	Test Date : Project: Client: Inspector:	31-Aug Rainy I New G Allnort	g-20 River Mine Site Gold th	Report no.: Job #: Lab Tag #: Material Type:	EMRS-A1-L2 2001417 EMRS-A1-L2 Clay	2-019 2-019		Loc San San	cation: npled Date: nple by:	EMRS 27-Aug-20 Tulloch Enginee	Sample T ering	'ype: Field Sample	
SievePercentSpecsSpecsSizePercentSpecsSpecsSizePercentSizePassingMaxMinSizePassingMaxMinPassing0.074 mm84.7%100.00 mm4.750 mm98.3%50.000 mm98.3%0.050 mm82.8%75.00 mm50.000 mm25.000 mm0.002 mm80.1%63.00 mm12.500 mm12.500 mm0.002 mm69.7%50.00 mm95.000 mm12.500 mm0.002 mm99.7%37.50 mm25.000 mm4.750 mm0.001 mm43.0%37.50 mm2.360 mm98.3%2.360 mm98.3%10.001 mm		С	Coarse Section				Fines Section	on			Hvdrometer	Results	
Size Passing Max Min Size Passing Max Min Passing Max Min Passing Max Min Passing 0.074 mm 84.7% 0.050 mm 82.8% 0.050 mm 82.8% 0.050 mm 82.8% 0.020 mm 82.8% 0.020 mm 80.1% 0.020 mm 80.1% 0.0020 mm 80.1% 0.005 mm 82.8% 0.002 mm 80.1% 0.0020 mm 80.1% 0.002 mm 83.4% 0.001 mm 43.0% 0.001 m	Sieve	Perc	cent Specs	Specs		Sieve Per	rcent Spe	cs	Specs		Size	Percent	
22.40 mm 1.180 mm 97.2% 19.00 mm 0.600 mm 95.0% 16.00 mm 0.300 mm 92.8% 12.50 mm 0.150 mm 89.2% 9.50 mm 99.4% 0.075 mm 84.7% 6.30 mm 98.3% 0.53 mm	Size 150.00 mm 100.00 mm 63.00 mm 45.00 mm 37.50 mm 37.50 mm 25.00 mm 22.40 mm 19.00 mm 16.00 mm 12.50 mm 6.30 mm 4.75 mm	Pas: 99.	sing Max 4% 3%	Min		Size Pa 4.750 mm 98 50.000 mm 37.000 mm 25.000 mm 25.000 mm 19.000 mm 9.500 mm 4.750 mm 2.360 mm 2.360 mm 97 0.600 mm 92 0.300 mm 92 0.150 mm 84 0.075 mm 84	ssing Ma 3.3% 3.3% 5.0% 2.8% 2.2% 4.7%	X	Min		0.074 mr 0.050 mr 0.020 mr 0.005 mr 0.005 mr 0.001 mr	Passing m 84.7% m 82.8% m 80.1% m 69.7% m 58.4% m 43.0%	
U.S. Standard Sieve Opening in Inches U.S. Standard Sieve Numbers Hydrometer Results	400%	,	U.S. Standard	Sieve Opening in Ir	10. hes	U.S. Stan	dard Sieve Numb	oers	200	Hydrometer Re	sults	00/	
	100%								200			0%	
90% - 10%	90%	6										10%	
80% - 20%	80%	6										20%	
	± 70%	6										30%	
	eigh (,									\leftarrow	ight	
		•										40% ø	
	50%	6										50% Â	
	80% Sec. 40%	6										aine %09	
30% 1 <td></td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>70% %</td> <td></td>		6										70% %	
20% - 80%	20%	6										80%	
10%	10%	6										90%	
0%	0%	έ μιμι										100%	
1000 100 10 1 0.1 0.01 0.00 i		1000		100	10	1		0.1		0.01	0.0	ויט	
Grain Size in Millimeters						Grain Size in Milli	Sanda						
Cobbles Oravers Samues Samues Silts Clays			Cobbles	Coarse	Fine	Coarse	Medium	Fine	- S	ilts	Clays		



Reviewed By:

Joe Harvey Materials Tech

Comments:



	Standard Proctor (Method A&B) Moisture - Density Analysis				
	24 Marr Road Barwick, ON POW 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	Сору То:	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		



COMMENTS	
	Reviewed 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	Сору То:	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		



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech



	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	Сору То:	Tori Longmuir		

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

TEST RESULTS						
SAMPLE NUMBER	AMPLE NUMBER 1					
MASS OF DRY SAMPLE (g)		412.1				
MASS OF WATER (g)		128.65				
MOISTURE CONTENT		31.2%				
VISUAL INDENTIFIC	ATION (If Required)	,				
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIF	PTION	

COMMENTS	

for Hansey

Joseph Harvey Materials Tech



	24 Marr Road Barwick, ON POW 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	Сору То:	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 CONTEN	т	28.5%					
VISUAL INDENTIFIC	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYMBC	DL	DE	SCRIPTION			

COMMENTS				

- Hanse

Joseph Harvey Materials Tech



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	Сору То:	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 SAMPL	.E (g)	456.4					
MASS OF WATER (g)		111.4					
MOISTURE CONTEN	т	24.4%					
VISUAL INDENTIFIC	ATION (If Required)	T					
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPTIO	<u>NC</u>		

COMMENTS				

for Hansey

Joseph Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 CONTEN	т	27.5%					
VISUAL INDENTIFIC	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPT	ION		

COMMENTS				

- Hanse

Joseph Harvey Materials Tech



Standard Proctor (Method A&B) Moisture - Density Analysis						
24 Marr Road Barwick, ON POW 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	Сору То:	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				



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	Tori Longmuir				

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

TEST RESULTS						
SAMPLE NUMBER	JMBER 1					
MASS OF DRY SAMPL	.E (g)	531.8				
MASS OF WATER (g)		122.7				
MOISTURE CONTEN	т	23.1%				
VISUAL INDENTIFIC	ATION (If Required)					
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIP	TION	

COMMENTS

for Hansey

Joseph Harvey Materials Tech



	Standard Proctor (Method A&B) Moisture - Density Analysis						
24 Marr Road Barwick, ON POW 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	Сору То:	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				



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	465.1				
MASS OF WATER (g)		107.6				
MOISTURE CONTEN	т	23.1%				
VISUAL INDENTIFIC	ATION (If Required)					
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIP	TION	

COMMENTS	

for Hanored

Joseph Harvey Materials Tech



	24 Marr Road Barwick, ON POW 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	Сору То:	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 CONTEN	т	24.2%							
VISUAL INDENTIFIC	ATION (If Required)								
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPT	ION				

COMMENTS	

for Hansey

Joseph Harvey Materials Tech



	Standard Proctor (Method A&B) Moisture - Density Analysis							
	24 Marr Road Barwick, ON POW 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	Сору То:	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					



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech



	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	Сору То:	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 CONTEN	MOISTURE CONTENT 25.1%								
VISUAL INDENTIFIC	ATION (If Required)								
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPT	ION				

COMMENTS	

for Hansey

Joseph Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy Rive	r Mine Site				Sample Name.: EMRS-L1-026		EMRS-L1-026	Sample Location:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sampled: Sept 10 2020		Sept 10 2020	Test Type:	Record
Attention:	Luis Trujillo	-Sanchez				Date Tes	ted:	Sept 14 2020		
Sample	Sample	Depth	Moisture	Att	erberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-L1-026	Pit Dump	N/A	31.2%	42	14	28	CI		Clay	
						_				
Remarks:										
									M	1
									of former	
								Reviewed By:	laa Harray Mataraila	Tach

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opinion of specification compliance or material suitability. Should engineering interpretation be required, Allnorth will provide it upon written request.
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GRADATION ANALYSIS REPORT

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



USCS Classification:		СН	
Gradation	% Gravel	4.4%	% Sa

and 14.1% % Silt & Clay

Silt 25.4%

81.4%

Clay 56.0%

Reviewed By:

Joe Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	Tori Longmuir	

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

TEST RESULTS							
SAMPLE NUMBER	SAMPLE NUMBER 1						
MASS OF DRY SAMPLE (g)		423.7					
MASS OF WATER (g)		88.8					
MOISTURE CONTEN	т	21.0%					
VISUAL INDENTIFIC	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYMBOL	DL DESCRIPTION					

COMMENTS	

- Hanse

Joseph Harvey Materials Tech



	Standard Proctor (Method A	&B) Moisture -	· Density Analysis		
	24 Marr Road Barwick, ON POW 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	Сору То:	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		



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech

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GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



	24 Marr Road Barwick, ON POW 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	Сору То:	Tori Longmuir			

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

TEST RESULTS						
SAMPLE NUMBER	SAMPLE NUMBER 1					
MASS OF DRY SAMPL	.E (g)	615.0				
MASS OF WATER (g)		155.6				
MOISTURE CONTEN	т	25.3%				
VISUAL INDENTIFIC	ATION (If Required)					
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION				

COMMENTS

- Hanse

Joseph Harvey Materials Tech



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	Сору То:	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 SAMPL	.E (g)	654.4					
MASS OF WATER (g)		157.9					
MOISTURE CONTEN	т	24.1%					
VISUAL INDENTIFIC	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIP	TION		

COMMENTS	

for Hansey

Joseph Harvey Materials Tech



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	Сору То:	Tori Longmuir				

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

TEST RESULTS							
SAMPLE NUMBER							
MASS OF DRY SAMPL	.E (g)	980.7					
MASS OF WATER (g)		21.2					
MOISTURE CONTEN	т	2.2%					
VISUAL INDENTIFIC	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPT	ION		

COMMENTS					

for Hansey

Joseph Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy Rive	r Mine Site				Sample N	Name.:	EMRS-L2-028	Sample Location:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sar	npled:	Sept 13 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tes	ted:	Sept 16 2020		
Sample	Sample	Depth	Moisture	Att	erberg Li	mits	Mod		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-L2-028	Pit Dump	N/A	20.3%	47	13	34	CI		Clay	
						_				
						_				
						_				
Remarks:										
									In Hause	1
								Deviewed By	Contract C	
								Keviewea By:	loo Harvov Matoraile	Toch

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GRADATION ANALYSIS REPORT

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





Reviewed By:

m

Sean Li Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	495.4						
MASS OF WATER (g)		100.4						
MOISTURE CONTEN	т	20.3%						
VISUAL INDENTIFIC	ATION (If Required)							
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPTI	ON			

COMMENTS					

for Hansey

Joseph Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	Tori Longmuir				

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

TEST RESULTS							
SAMPLE NUMBER	AMPLE NUMBER 1						
MASS OF DRY SAMPL	.E (g)	388.5					
MASS OF WATER (g)		112.2					
MOISTURE CONTEN	т	28.9%					
	ATION (If Required)	1		DECCE			
SAMPLE NUMBER	LE NUMBER USCS GROUP SYMBOL DESCRIPTION						

COMMENTS					

- Hanse

Joseph Harvey Materials Tech



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	Сору То:	Tori Longmuir				

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

TEST RESULTS								
SAMPLE NUMBER	SAMPLE NUMBER 1							
MASS OF DRY SAMPLE (g)		516.2						
MASS OF WATER (g)		109						
MOISTURE CONTEN	т	21.1%						
		<u> </u>		DESC				
SAMPLE NUMBER	USCS GROUP SYMBOL			DESC	RIPTION			

COMMENTS					

for Manager

Joseph Harvey Materials Tech



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	Сору То:	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 SAMPL	.E (g)	408.8					
MASS OF WATER (g)	MASS OF WATER (g)						
MOISTURE CONTEN	т	25.8%					
		1					
SAMPLE NOWBER	USCS GROUP STIVIDUL			DESU	CRIPTION		

COMMENTS					

for Hansey

Joseph Harvey Materials Tech

Allnorth

GRADATION ANALYSIS REPORT

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





Reviewed By:

m

Sean Li Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	364.3					
MASS OF WATER (g)		70.2					
MOISTURE CONTEN	т	19.3%					
VISUAL INDENTIFIC	ATION (If Required)	1					
SAMPLE NUMBER	USCS GROUP SYMBOL DESCRIPTION						

COMMENTS					

Sean Li Materials Tech

Allnorth

GRADATION ANALYSIS REPORT

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





Reviewed By:

m

Sean Li Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	344.4					
MASS OF WATER (g)		83.3					
MOISTURE CONTEN	т	24.2%					
		r –					
SAMPLE NUMBER	USCS GROUP SYMBOL DESCRIPTION						

COMMENTS					

Sean Li Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	397.8					
MASS OF WATER (g)		86					
MOISTURE CONTEN	т	21.6%					
VISUAL INDENTIFIC	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYMBOL DESCRIPTION						

COMMENTS	

Sean Li Materials Tech



	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	Сору То:	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 SAMPL	.E (g)	436.5							
MASS OF WATER (g)		97.4							
MOISTURE CONTEN	т	22.3%							
VISUAL INDENTIFICATION (If Required) SAMPLE NUMBER USCS GROUP SYMBOL DESCRIPTION									

COMMENTS	

Sean Li Materials Tech



							ASTM D431	8		
Project:	Rainy Rive	r Mine Site				Sample N	Name.:	EMRS-A1-L1-018	Sample Location:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sar	npled:	Aug 27 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tes	ted:	Aug 30 2020		
Sample	Sample	Depth	Moisture	Att	erberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-A1-L1-018	Pit Dump	N/A	31.2%	66	19	47	СН		Clay	
Remarks:										
									Jose Hauser	1
								Reviewed By:	0 0	J
								iterienea By.	Joe Harvev 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 POW 1A0 Phone: 306-242-4303

Test Dat Project: Client: Inspecto	te : or:	1-Sep-1 Rainy I New G Allnort	20 River M Jold th	ine Site	Repo Job # Lab ⁷ Mate	rt no.: : Fag #: rial Type:	EMRS-A1 2001417 EMRS-A1 Clay	-L1-018 -L1-018	3				L S S	ocatio ample ample	on: ed Date: e by:		EMRS 27-Aug Tulloch	-20 Engin	eering	Sample	Гуре: Fie	d Sample	
		С	oarse S	ection							Fines	Sectio	m						Ну	dromete	r Results		
Si	eve	Perc	ent	Specs		Specs		2	Sieve	Perce	nt	Spec	es		Specs					Size		Percent	
S 150.0 100.0 75.0 63.0 50.0 45.0 31.5 25.0 22.4 19.0 16.0 12.5 9.5 5 6.30 4.7:	ize 00 mm 00 m	Pass 99.	sing 0% 6%	Max		Min		$\begin{array}{c} 4.7\\ 50.4\\ 37.4\\ 25.4\\ 19.4\\ 12.2\\ 9.5\\ 4.7\\ 2.3\\ 1.1\\ 0.6\\ 0.3\\ 0.1\\ 0.0\\ 0.0\\ \end{array}$	Size 50 mm 000 mm 000 mm 000 mm 500 mm 500 mm 500 mm 50 mm	Passii 97.6 97.6 97.0 97.0 96.0 94.9 93.2 90.9	ng % % % %	Max	x		Min					0.074 m 0.050 m 0.020 m 0.005 m 0.002 m 0.001 m	m m m m m	Passing 90.9% 90.1% 87.9% 76.9% 63.2% 46.8%	
			U.S.	Standard S	ieve O	pening in Inc	ches		U.S	. Standar	d Sieve	Numb	ers				Hydron	neter F	Results				
	100%		20	6 4	1 3	1½	³ / ₄ ¹ / ₂ ³ / ₈	#4	10	16 20 3	0 40	50	100	200							0%		
	90%	-											-								10%		
	80%																\searrow				20%		
	70%																				30%		
/eigh	60%	-																-			400/	ight	
∧ ∧	60%																				40%	/ We	
sing	50%	-																			50%	ld be	
Pas	40%																				60%	staine	
%	30%	-																			70%	% Re	
	20%																				80%		
	10%	-																			90%		
	0%																				100%		
	1	000		10	00		10	0		1	4		0	.1			0.01			0.	0u i		
						Gr	avels	Gr	ain Size ir	n iviiiime	nds										1		
			C	obbles		Coarse	Fine	+	Coarse		Medi	um	Fine			Silts	8		C	lays			

 USCS Classification:
 CH
 Silt
 14.0%

 Gradation
 % Gravel 2.4%
 % Sand
 6.7%
 % Silt & Clay
 90.9%
 Clay
 76.9%

Reviewed By:

Joe Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy Rive	r Mine Site				Sample N	Name.:	EMRS-A1-L2-019	Sample Location: Sampled By:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine		Tulloch
Client:	New Gold					Date Sar	npled:	Aug 27 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tes	ted:	Aug 30 2020		
Sample	Sample	Depth	Moisture	Att	terberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	(%)	LL	PL	PI	USCS	Type, constituants/compo c	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-A1-L2-01	Pit Dump	N/A	28.5%	60	17	43	СН		Clay	
						_				
			-				-			
Remarks:	<u>.</u>								2 11	· · · · · · · · · · · · · · · · · · ·
									José Hauser	1
								Reviewed By:		

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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 POW 1A0 Phone: 306-242-4303

Fines SectionHydrometer ResultsSievePercentSpecsSpecsSizePercentSpecsSpecsSizePercentSpecsSpecsSizePercentSpecsSpecsSizePercentSpecsSpecsSizePercentSpecs <th>Test Date : Project: Client: Inspector:</th> <th>31-Aug Rainy I New G Allnort</th> <th>g-20 River Mine Site Gold th</th> <th>Report no.: Job #: Lab Tag #: Material Type:</th> <th>EMRS-A1-L2 2001417 EMRS-A1-L2 Clay</th> <th>2-019 2-019</th> <th></th> <th>Loc San San</th> <th>cation: npled Date: nple by:</th> <th>EMRS 27-Aug-20 Tulloch Enginee</th> <th>Sample T ering</th> <th>'ype: Field Sample</th> <th></th>	Test Date : Project: Client: Inspector:	31-Aug Rainy I New G Allnort	g-20 River Mine Site Gold th	Report no.: Job #: Lab Tag #: Material Type:	EMRS-A1-L2 2001417 EMRS-A1-L2 Clay	2-019 2-019		Loc San San	cation: npled Date: nple by:	EMRS 27-Aug-20 Tulloch Enginee	Sample T ering	'ype: Field Sample	
SievePercentSpecsSpecsSizePercentSpecsSpecsSizePercentSizePassingMaxMinSizePassingMaxMinPassing0.074 mm84.7%100.00 mm4.750 mm98.3%50.000 mm98.3%0.050 mm82.8%75.00 mm50.000 mm25.000 mm0.002 mm80.1%63.00 mm12.500 mm12.500 mm0.002 mm69.7%50.00 mm95.000 mm12.500 mm0.002 mm99.7%37.50 mm25.000 mm4.750 mm0.001 mm43.0%37.50 mm2.360 mm98.3%2.360 mm98.3%10.001 mm		С	Coarse Section				Fines Section	on			Hvdrometer	Results	
Size Passing Max Min Size Passing Max Min Passing Max Min Passing Max Min Passing 0.074 mm 84.7% 0.050 mm 82.8% 0.050 mm 82.8% 0.050 mm 82.8% 0.020 mm 82.8% 0.020 mm 80.1% 0.020 mm 80.1% 0.0020 mm 80.1% 0.005 mm 82.8% 0.002 mm 80.1% 0.0020 mm 80.1% 0.002 mm 83.4% 0.001 mm 43.0% 0.001 m	Sieve	Perc	cent Specs	Specs		Sieve Per	rcent Spe	cs	Specs		Size	Percent	
22.40 mm 1.180 mm 97.2% 19.00 mm 0.600 mm 95.0% 16.00 mm 0.300 mm 92.8% 12.50 mm 0.150 mm 89.2% 9.50 mm 99.4% 0.075 mm 84.7% 6.30 mm 98.3% 0.53 mm	Size 150.00 mm 100.00 mm 63.00 mm 45.00 mm 37.50 mm 37.50 mm 25.00 mm 22.40 mm 19.00 mm 16.00 mm 12.50 mm 6.30 mm 4.75 mm	Pas: 99.	sing Max 4% 3%	Min		Size Pa 4.750 mm 98 50.000 mm 37.000 mm 25.000 mm 25.000 mm 19.000 mm 9.500 mm 4.750 mm 2.360 mm 2.360 mm 97 0.600 mm 92 0.300 mm 92 0.150 mm 84 0.075 mm 84	ssing Ma 3.3% 3.3% 5.0% 2.8% 2.2% 4.7%	X	Min		0.074 mr 0.050 mr 0.020 mr 0.005 mr 0.005 mr 0.001 mr	Passing m 84.7% m 82.8% m 80.1% m 69.7% m 58.4% m 43.0%	
U.S. Standard Sieve Opening in Inches U.S. Standard Sieve Numbers Hydrometer Results	400%	,	U.S. Standard	Sieve Opening in Ir	10. hes	U.S. Stan	dard Sieve Numb	oers	200	Hydrometer Re	sults	00/	
	100%								200			0%	
90% - 10%	90%	6										10%	
80% - 20%	80%	6										20%	
	± 70%	6										30%	
	eigh (,									\leftarrow	ight	
		•										40% ø	
	50%	6										50% Â	
	80% 80%	6										aine %09	
30% 1 <td></td> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>70% %</td> <td></td>		6										70% %	
20% - 80%	20%	6										80%	
10%	10%	6										90%	
0%	0%	، المناب (100%	
1000 100 10 1 0.1 0.01 0.00 i		1000		100	10	1		0.1		0.01	0.0	ויט	
Grain Size in Millimeters						Grain Size in Milli	Sanda						
Cobbles Oravers Samues Samues Silts Clays			Cobbles	Coarse	Fine	Coarse	Medium	Fine	- S	ilts	Clays		



Reviewed 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-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	Сору То:	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					



COMMENTS	
	Reviewed 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	Сору То:	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		



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech



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	Сору То:	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 SAMPL	.E (g)	412.1				
MASS OF WATER (g)		128.65				
MOISTURE CONTEN	т	31.2%				
VISUAL INDENTIFIC	ATION (If Required)	,				
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIF	PTION	

COMMENTS			

for Hansey

Joseph Harvey Materials Tech



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	Сору То:	Tori Longmuir		

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

TEST RESULTS					
SAMPLE NUMBER	SAMPLE NUMBER 1				
MASS OF DRY SAMPLE (g)		460.3			
MASS OF WATER (g)		131.2			
MOISTURE CONTEN	т	28.5%			
VISUAL INDENTIFIC	ATION (If Required)				
SAMPLE NUMBER	USCS GROUP SYMBC	DL	DE	SCRIPTION	

COMMENTS				

- Hanse

Joseph Harvey Materials Tech



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	Сору То:	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 CONTEN	IOISTURE CONTENT					
VISUAL INDENTIFIC	ATION (If Required)	T				
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION				

COMMENTS	

for Hansey

Joseph Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 CONTEN	MOISTURE CONTENT					
VISUAL INDENTIFIC	ATION (If Required)					
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION				

COMMENTS	

- Hanse

Joseph Harvey Materials Tech



	Standard Proctor (Met	hod 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	Сору То:	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		



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech



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	Сору То:	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 SAMPL	.E (g)	531.8					
MASS OF WATER (g)		122.7					
MOISTURE CONTEN	т	23.1%					
VISUAL INDENTIFIC	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIP	TION		

COMMENTS					

for Hansey

Joseph Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	549.8						
MASS OF WATER (g)		133						
MOISTURE CONTEN	т	24.2%						
VISUAL INDENTIFIC	ATION (If Required)							
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPT	ION			

COMMENTS				

for Hansey

Joseph Harvey Materials Tech



Standard Proctor (Method A&B) Moisture - Density Analysis						
24 Marr Road Barwick, ON POW 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	Сору То:	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				



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	524.1						
MASS OF WATER (g)		131.7						
MOISTURE CONTEN	т	25.1%						
VISUAL INDENTIFIC	ATION (If Required)							
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPT	ION			

COMMENTS						

for Hansey

Joseph Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy River Mine Site					Sample Name.:		EMRS-L1-026	Sample Location:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sar	npled:	Sept 10 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tested:		Sept 14 2020		
Sample Name	Sample	Depth Moisture Atterberg Li			imits Mod.		Soil Description			
	Location	(m)	Content (%)	LL	PL	PI USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity	
EMRS-L1-026	Pit Dump	N/A	31.2%	42	14	28	CI		Clay	
						_				
						_				
						_				
Remarks:										
	·								M	1
								Devis of D	of formister	
								Reviewed By:	loe Harvey Materails	Tech

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opinion of specification compliance or material suitability. Should engineering interpretation be required, Allnorth will provide it upon written request.

Allnorth

GRADATION ANALYSIS REPORT

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



USCS Classification:		СН	
Gradation	% Gravel	4.4%	% Sa

and 14.1% % Silt & Clay

Silt 25.4%

81.4%

Clay 56.0%

Reviewed By:

Joe Harvey Materials Tech


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	Сору То:	Tori Longmuir		

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

TEST RESULTS						
SAMPLE NUMBER	SAMPLE NUMBER 1					
MASS OF DRY SAMPL	.E (g)	423.7				
MASS OF WATER (g)		88.8				
MOISTURE CONTEN	т	21.0%				
VISUAL INDENTIFIC	VISUAL INDENTIFICATION (If Required)					
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPTION		

COMMENTS				

- Hanse

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	Сору То:	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		



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



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	Сору То:	Tori Longmuir		

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

TEST RESULTS						
SAMPLE NUMBER	SAMPLE NUMBER 1					
MASS OF DRY SAMPL	.E (g)	615.0				
MASS OF WATER (g)		155.6				
MOISTURE CONTEN	т	25.3%				
VISUAL INDENTIFIC	ATION (If Required)					
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIP	TION	

COMMENTS				

- Hanse

Joseph Harvey Materials Tech



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	Сору То:	Tori Longmuir		

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

	TEST RESULTS							
SAMPLE NUMBER	MPLE NUMBER 1							
MASS OF DRY SAMPL	.E (g)	654.4						
MASS OF WATER (g)		157.9						
MOISTURE CONTEN	т	24.1%						
VISUAL INDENTIFIC	ATION (If Required)							
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIP	TION			

COMMENTS	

for Hansey

Joseph Harvey Materials Tech



	24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	980.7						
MASS OF WATER (g)		21.2						
MOISTURE CONTEN	т	2.2%						
VISUAL INDENTIFIC	ATION (If Required)							
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPT	ION			

COMMENTS	

for Hansey

Joseph Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy Rive	r Mine Site				Sample N	Name.:	EMRS-L2-028	Sample Location:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sampled:		Sept 13 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tes	ted:	Sept 16 2020		
Sample	Sample	Depth	Moisture	Att	erberg Li	mits	Mod		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-L2-028	Pit Dump	N/A	20.3%	47	13	34	CI		Clay	
						_				
						_				
						_				
Remarks:										
									In Hause	1
								Deviewed By	Contract C	
								Keviewea By:	loo Harvov Matoraile	Toch

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opinion of specification compliance or material suitability. Should engineering interpretation be required, Allnorth will provide it upon written request.



	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	Сору То:	Tori Longmuir						

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

	TEST RESULTS							
SAMPLE NUMBER	MPLE NUMBER 1							
MASS OF DRY SAMPL	.E (g)	495.4						
MASS OF WATER (g)		100.4						
MOISTURE CONTEN	т	20.3%						
VISUAL INDENTIFIC	ATION (If Required)							
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIPTI	ON			

COMMENTS

for Hansey

Joseph Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	388.5					
MASS OF WATER (g)		112.2					
MOISTURE CONTEN	т	28.9%					
	ATION (If Required)	1		DECCE			
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION					

COMMENTS	

- Hanse

Joseph Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	516.2					
MASS OF WATER (g)		109					
MOISTURE CONTEN	т	21.1%					
		<u> </u>		DESC			
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION					

COMMENTS	

for Manager

Joseph Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	408.8					
MASS OF WATER (g)		105.3					
MOISTURE CONTEN	т	25.8%					
		1					
SAMPLE NOWBER	USCS GROUP STIVIDUL	DESCRIPTION					

COMMENTS	

for Hansey

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

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



18.2%

70.6%

 USCS Classification:
 0.0%
 Silt
 Silt

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

Reviewed By:

Joe Harvey Materials Tech



GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



	Standard Proctor (Method A	&B) Moisture -	· Density Analysis			
	24 Marr Road Barwick, ON POW 1A0 Phone: 306-242-4303					
	ASTI	V 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	Сору То:	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		



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech



	Standard Proctor (Method A	&B) Moisture -	· Density Analysis			
	24 Marr Road Barwick, ON POW 1A0 Phone: 306-242-4303					
	ASTM	И 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	Сору То:	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		



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy Rive	r Mine Site				Sample N	Name.:	EMRS-L2-045	Sample Location:	EMRS
Project No.:	2001417	001417				Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sar	npled:	Sept 27 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tes	ted:	Oct 01 2020		
Sample	Sample	Depth	Moisture	Att	erberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-L2-045	Pit Dump	N/A	32.8%	43	14	29	CI		Clay	
						_				
Remarks:										
									1 Maria	1
								Deviewe d Dev	Providence	
								Reviewed By:	loe Harvey Materails	Tech

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GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



	Standard Proctor (Method	A&B) Moisture -	Density Analysis			
	24 Marr Road Barwick, ON POW 1A0 Phone: 306-242-4303					
	A	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			



COMMENTS	
	Reviewed By: Joe House
	Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

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



 USCS Classification:
 0.0%

 Gradation
 % Gravel
 4.4%
 % Sand
 11.4%
 % Silt & Clay
 84.3%
 6

 Clay
 56.7%

Reviewed By:

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



	24 Marr Road Barwick, ON PC)W 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	Сору То:	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%			
	ATION (If Required)				
SAMPLE NUMBER	USCS GROUP SYMB		DESCRIPTION		

COMMENTS

for Manager

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



	24 Marr Road Barwick, ON PC	0W 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	Сору То:	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 INDENTIFICA	ATION (If Required)			DESC		
SAMPLE NUMBER	USCS GROUP STMBUL	DESCRIPTION				

COMMENTS	

for Manager

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



	24 Marr Road Barwick, ON PC	0W 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	Сору То:	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%			
	ATION (If Required)			DECONDION	
SAMPLE NUMBER	USCS GROUP SYMB		DESCRIPTION		

COMMENTS	

for Manager

Joseph Harvey Materials Tech



GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



	24 Marr Road Barwick, ON PC)W 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	Сору То:	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 SAMPL	.E (g)	506.8							
MASS OF WATER (g)		117.3							
MOISTURE CONTEN	т	23.1%							
	ATION (If Required)	1		DECOL	DTION				
SAMPLE NUMBER	USCS GROUP STMBOL	DESCRIPTION							

COMMENTS						

for Manager

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	553.2							
MASS OF WATER (g)		115.1							
MOISTURE CONTEN	т	20.8%							
		1							
SAMPLE NUMBER	USCS GROUP STIVIBUL	DESCRIPTION							

COMMENTS						

for Hansey

Joseph Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	484.2							
MASS OF WATER (g)		134.8							
MOISTURE CONTEN	т	27.8%							
		1		DESC					
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION							

COMMENTS						

for Hansey

Joseph Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy Rive	r Mine Site				Sample N	Name.:	EMRS-L1-054	Sample Location:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date San	npled:	Oct 03 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tes	ted:	Oct 05 2020		
Sample	Sample	Depth	Moisture	Att	erberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions	e, consistency, plasticity
EMRS-L1-054	Pit Dump	N/A	24.1%	49	15	34	CI-CH		Clay	
						_				
Remarks:	<u>.</u>								2 11	
									for Hause	f
								Reviewed By:		
									Joe Harvey Materails	Tech

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GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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			DESCRIPT	ION		

COMMENTS						

for Hansey

Joseph Harvey Materials Tech
GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



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	Сору То:	Tori Longmuir		

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

TEST RESULTS						
SAMPLE NUMBER	SAMPLE NUMBER 1					
MASS OF DRY SAMPLE (g)		380.6				
MASS OF WATER (g)		111.7				
MOISTURE CONTEN	Т	29.3%				
	ATION (If Required)					
SAMPLE NUMBER	USCS GROUP SYMBO	L DESCRIPTION				

COMMENTS				

for Hansey

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

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



91.2%



0.075 mm



Reviewed By:

Joe Harvey Materials Tech

Comments:

9.50 mm



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	Сору То:	Tori Longmuir		

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

TEST RESULTS							
SAMPLE NUMBER	SAMPLE NUMBER 1						
MASS OF DRY SAMPLE (g)		527.1					
MASS OF WATER (g)		135.6					
MOISTURE CONTEN	Т	25.7%					
	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYMBO		L DESCRIPTION				

COMMENTS				

for Hansey

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	Сору То:	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			



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech



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	Сору То:	Tori Longmuir		

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

TEST RESULTS							
SAMPLE NUMBER	MPLE NUMBER 1						
MASS OF DRY SAMPL	E (g)	540.4					
MASS OF WATER (g)		158.5					
MOISTURE CONTEN	Т	29.3%					
	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYMBOL DESCRIPTION						

COMMENTS	

for Hansey

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



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	Сору То:	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 SAMPL	.E (g)	462.3					
MASS OF WATER (g)	MASS OF WATER (g)						
MOISTURE CONTEN	т	29.0%					
VISUAL INDENTIFICA	ATION (If Required)	T					
SAMPLE NUMBER	USCS GROUP SYMBOL	P SYMBOL DESCRIPTION					

COMMENTS

for Hansey

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

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

Test Date : Project: Client: Inspector:	8-Oct-20 Rainy River M New Gold Allnorth	Aine Site	Report no.: Job #: Lab Tag #: Material Type:	EMRS-STO 2001417 EMRS-STO Clay	CKPILE-058 CKPILE-058			Location: Sampled Date: Sample by:	EMRS 4-Oct-20 Tulloch Engineer	Sample Type: R	lecord Test
	Coarse	Section				Fin	es Section			Hydrometer Result	ts
Sieve	Percent	Specs	Specs		Sieve	Percent	Specs	Specs		Size	Percent
Size 150.00 mm 100.00 mm 63.00 mm 50.00 mm 37.50 mm 31.50 mm 25.00 mm 22.40 mm 19.00 mm 16.00 mm 12.50 mm 6.30 mm 4.75 mm	Passing 100.0% 90.8% 89.8% 88.0%	Max	Min		Size 4.750 mm 50.000 mm 37.000 mm 25.000 mm 19.000 mm 9.500 mm 4.750 mm 2.360 mm 0.300 mm 0.600 mm 0.300 mm 0.075 mm 0.053 mm	Passing 88.0% 87.3% 86.6% 84.8% 82.2% 77.7% 71.9%	Max	Min		0.074 mm 0.050 mm 0.020 mm 0.005 mm 0.002 mm 0.001 mm	Passing 71.4% 60.7% 50.4% 40.0% 33.5% 23.9%
100%	U.S	. Standard S	Sieve Opening in Inc $4 3 \frac{1}{2}$	hes 4 <u>½ %</u> #	U.S.	. Standard Siev 16 20 30 40	ve Numbers 50 100	200	Hydrometer Res	oults	
	-										





Reviewed By:

Joe Harvey Materials Tech



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	Сору То:	Tori Longmuir						

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

TEST RESULTS							
SAMPLE NUMBER	'LE NUMBER 1						
MASS OF DRY SAMPL	E (g)	446.6					
MASS OF WATER (g)		128					
MOISTURE CONTENT	г	28.7%					
VISUAL INDENTIFICA	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYME	OL	D	ESCRIPTION			

COMMENTS	

for Hansey

Joseph Harvey Materials Tech



						,	ASTM D431	8		
Project:	Rainy Rive	r Mine Site				Sample N	Name.:	EMRS-L1-059	Sample Location:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date San	npled:	Oct 05 2020	Test Type:	Record
Attention:	Luis Trujillo	-Sanchez				Date Tes	ted:	Oct 07 2020		
Sample	Sample	Depth	Moisture	Att	terberg Li	mits	Mod		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-L1-059	Pit Dump	N/A	21.7%	53	17	36	СН		Clay	
						_				
Remarks:										
									In Hannes	1
								Poviewod Pre	C. C.	
								Reviewed By:	loo Hanyoy Mataraila	Tooh

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GRADATION ANALYSIS REPORT

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



USCS Classification	:	СН					Γ	Silt	34.5%
Gradation	% Gravel	3.4%	% Sand	14.7%	% Silt & Clay	82.0%		Clay	47.5%

Reviewed By:

Joe Harvey Materials Tech



	Standard Proctor (Method A&B) Moisture - Density Analysis									
24 Marr Road Barwick, ON POW 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	Сору То:	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				



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

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



USCS Classification	n: 0.0%			Silt	40.0%
Gradation	% Gravel 4.9%	% Sand 11.3%	% Silt & Clay	83.8% Clay	43.9%

Reviewed By:

Joe Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy Rive	r Mine Site			Sample Nan			EMRS-L1-061	Sample Location:	EMRS
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sar	npled:	Oct 05 2020	Test Type:	Record
Attention:	Luis Trujillo	-Sanchez				Date Tes	ted:	Oct 07 2020		
Sample	Sample	Depth	Moisture	Att	terberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-L1-061	Pit Dump	N/A	23.3%	35	13	22	CI		Clay	
Remarks:										
									Mana	1
								Deviewe d Dev	and the second	
								Reviewed By:	loe Harvey Materails	Tech

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GRADATION ANALYSIS REPORT

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

Test Date : Project: Client: Inspector:	9-Oct-20 Rainy River M New Gold Allnorth	Iine Site	Report no.: Job #: Lab Tag #: Material Type:	EMRS-L1-0 2001417 EMRS-L1-0 Clay	51 51			Location: Sampled Date: Sample by:	EMRS 5-Oct-20 Tulloch Engineer	Sample Type: Re	ecord Test
	Coarse S	Section				Fine	es Section			Hydrometer Results	
Sieve	Percent	Specs	Specs		Sieve	Percent	Specs	Specs		Size	Percent
Size 150.00 mm 100.00 mm 63.00 mm 50.00 mm 37.50 mm 37.50 mm 25.00 mm 25.00 mm 19.00 mm 16.00 mm 12.50 mm 9.50 mm 6.30 mm 4.75 mm	Passing	Max	Min		Size 4.750 mm 50.000 mm 25.000 mm 12.500 mm 9.500 mm 4.750 mm 2.360 mm 1.180 mm 0.600 mm 0.300 mm 0.150 mm 0.075 mm 0.053 mm	Passing 100.0% 99.8% 99.1% 98.2% 96.7% 94.4%	Max	Min		0.074 mm 0.020 mm 0.020 mm 0.005 mm 0.002 mm 0.001 mm	Passing 94.2% 89.6% 84.4% 76.7% 69.2% 54.7%
	U.S	. Standard S	Sieve Opening in Inc	hes	U.S	. Standard Siev	ve Numbers		Hydrometer Res	sults	
100%	20	<u> </u>	4 3 1½ 3	<u>/4 1/2 3/8</u> #	4 10	16 20 30 40	50 100	200		0%	
90%										10%	



USCS Classification:		CI					Γ	Silt	17.8%
Gradation	% Gravel	0.0%	% Sand	5.6%	% Silt & Clay	94.4%	Ĺ	Clay	76.7%

Reviewed 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:	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	Сору То:	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					



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

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



USCS Classification:

Gradation % Grave

% Gravel 3.4%

-

% Sand 16.7% % Silt & Clay

Silt 28.3%

79.9%

Clay 51.6%

Reviewed By:

Joe Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	434.6					
MASS OF WATER (g)		125.2					
MOISTURE CONTEN	т	28.8%					
VISUAL INDENTIFICA	ATION (If Required)			DESC	RIPTION		
SAMPLE NOWBER	USCS GROUP STIVIDUL	DESCRIPTION					

COMMENTS

for Hansey

Joseph Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy River Mine Site			Sample Name.: EMRS-L2-063			Sample Location:	EMRS		
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sar	npled:	Oct 06 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tes	ted:	Oct 09 2020		
Sample	Sample	Depth	Moisture	Att	erberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-L2-063	Pit Dump	N/A	24.8%	59	16	43	СН		Clay	
						_				
Remarks:										
	·								M	1
									Jun forming]
								Reviewed By:	loo Hanyoy Materaila	Toob

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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 POW 1A0 Phone: 306-242-4303





Reviewed By:

Joe Harvey Materials Tech



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	Сору То:	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 SAMPL	E (g)	483.5						
MASS OF WATER (g)		120.1						
MOISTURE CONTEN	Т	24.8%						
	ATION (If Required)							
SAMPLE NUMBER	USCS GROUP SYMBO	JL	DESCRIPTION					

COMMENTS				

for Hansey

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	Сору То:	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				



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech

GRADATION ANALYSIS REPORT

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



USCS Classification: -

Gradation % Gravel 11.2%

11.2% % Sand 12.6%

% Silt & Clay

Silt 32.8%

76.2%

Clay 43.4%

Reviewed By:

Joe Harvey Materials Tech



	24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	463.9					
MASS OF WATER (g)		102.9					
MOISTURE CONTEN	т	22.2%					
	ATION (If Required)	<u> </u>		DESC			
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION					

COMMENTS

for Hansey

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

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



USCS Classification: -

Gradation % Grave

% Gravel 3.0%

% Sand 15.1% % Silt & Clay

Silt 30.9%

81.9%

Clay 51.0%

Reviewed By:

Joe Harvey Materials Tech



	24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	397.1					
MASS OF WATER (g)		98.3					
MOISTURE CONTEN	т	24.8%					
	ATION (If Required)	1		DECON			
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION					

COMMENTS	

- Hanse

Joseph Harvey Materials Tech



	24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	408.9					
MASS OF WATER (g)		107.4					
MOISTURE CONTEN	т	26.3%					
		1					
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION					

COMMENTS

for Hansey

Joseph Harvey Materials Tech

GRADATION ANALYSIS REPORT

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



USCS Classification: -

Gradation % Grave

% Gravel 3.0%

% Silt & Clay

% Sand 15.1%

Silt 30.9%

81.9%

Clay 51.0%

Reviewed By:

Joe Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	446.9	146.9					
MASS OF WATER (g)		125						
MOISTURE CONTEN	Т	28.0%						
VISUAL INDENTIFIC	VISUAL INDENTIFICATION (If Required)							
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRIF	PTION			

COMMENTS	

- Hanse

Joseph Harvey Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	-E (g)	336.3						
MASS OF WATER (g)		92.9						
MOISTURE CONTEN	т	27.6%						
VISUAL INDENTIFICATION (If Required)								
SAMPLE NUMBER	USCS GROUP SYMBOL			DESCRI	PTION			

COMMENTS	

- Hanse

Joseph Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy River Mine Site Sam			Site Sample Name.: EMRS-L2-069		EMRS-L2-069	Sample Location:	EMRS		
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sar	npled:	Oct 09 2020	Test Type:	Record
Attention:	Luis Trujillo	-Sanchez				Date Tes	ted:	Oct 13 2020		
Sample	Sample	Depth	Moisture	Att	erberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-L2-069	Pit Dump	N/A	27.8%	44	14	30	CI		Clay	
						_				
						_				
Remarks:										
									1 Maria	1
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								Keviewed By:	loo Hanyoy Materaila	Taab

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GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech



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	Сору То:	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 SAMPL	.E (g)	308.9						
MASS OF WATER (g)		86						
MOISTURE CONTEN	Т	27.8%						
VISUAL INDENTIFICATION (If Required)								
SAMPLE NOMBLIN	0303 01007 311000		DESCRIPTION					

COMMENTS	

- Hanse

Joseph Harvey Materials Tech



	24 Marr Road Barwick, ON POW 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	Сору То:	Tori Longmuir			

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

TEST RESULTS							
SAMPLE NUMBER	NUMBER 1						
MASS OF DRY SAMPLE (g)		326.1					
MASS OF WATER (g)		96.6					
MOISTURE CONTEN	Т	29.6%					
	ATION (If Required)						
SAIVIPLE NOIVIDER	USCS GROUP STIVIDO	DESCRIPTION					

COMMENTS	

- Hanse

Joseph Harvey Materials Tech



	24 Marr Road Barwick, ON POW 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	Сору То:	Tori Longmuir			

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

TEST RESULTS							
SAMPLE NUMBER	AMPLE NUMBER 1						
MASS OF DRY SAMPLE (g)		396.7					
MASS OF WATER (g)		92.5					
MOISTURE CONTEN	т	23.3%					
		<u> </u>					
SAMPLE NUMBER	USCS GROUP SYMBOL	BOL DESCRIPTION					

COMMENTS

for Hansey

Joseph Harvey Materials Tech


24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	E (g)	354.5					
MASS OF WATER (g)		101.9					
MOISTURE CONTEN	Т	28.7%					
	ATION (If Required)						
SAMPLE NUMBER	USCS GROUP SYMB		DESCRIPTION				

COMMENTS					

for Hansey

Joseph Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy River Mine Site		Sample Name.: EMRS-L2-073		Sample Location:	EMRS				
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sar	npled:	Oct 10 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tes	ted:	Oct 13 2020		
Sample	Sample	Depth	Moisture	Att	terberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-L2-073	Pit Dump	N/A	23.7%	41	14	27	CI		Clay	
							•	•		
Remarks:	<u>·</u>								1 11	· · · · · · · · · · · · · · · · · · ·
									josé Hauser	1
								Reviewed By:		

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.

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GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech

Comments:



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	378.9					
MASS OF WATER (g)		89.7					
MOISTURE CONTEN	т	23.7%					
	ATION (If Required)			DESC			
SAMPLE NUMBER	USCS GROUP STIMBOL	DESCRIPTION					

COMMENTS				

for Hansey

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	Сору То:	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					



COMMENTS	
	Reviewed By:
	Joe Harvey Materials Tech



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	Сору То:	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 SAMPL	E (g)	323.5						
MASS OF WATER (g)		71.2						
MOISTURE CONTEN	Т	22.0%						
	ATION (If Required)							
SAMPLE NUMBER	USCS GROUP STMB		DESCRIPTION					

COMMENTS					

for Hansey

Joseph Harvey Materials Tech



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	Сору То:	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 SAMPL	.E (g)	356.6						
MASS OF WATER (g)		87.1						
MOISTURE CONTEN	т	24.4%						
	VISUAL INDENTIFICATION (If Required)							
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION						

COMMENTS					

- Hansee

Joseph Harvey Materials Tech



							ASTM D431	8		
Project:	Rainy River Mine Site			Sample Name.: EMRS-L2-076		Sample Location:	EMRS			
Project No.:	2001417					Laborato	ry:	Rainy River Mine	Sampled By:	Tulloch
Client:	New Gold					Date Sar	npled:	Oct 10 2020	Test Type:	Record
Attention:	Luis Trujillo	o-Sanchez				Date Tested:		Oct 13 2020		
Sample	Sample	Depth	Moisture	Att	erberg Li	mits	Mod.		Soil Description	
Name	Location	(m)	Content (%)	LL	PL	PI	USCS	Type, constituants/compo	sition, structure, moistur olour, odour, inclusions.	e, consistency, plasticity
EMRS-L2-076	Pit Dump	N/A	23.3%	41	12	29	CI		Clay	
						_				
						_				
						_				
Romarks:										
Kemarka.	<u>.</u>								N	1
									Jose Hauser	<u>}-</u>
								Reviewed By:	la a Llaman Matanalla	

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.

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GRADATION ANALYSIS REPORT

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





Reviewed By:

Joe Harvey Materials Tech

Comments:



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	E (g)	387.9						
MASS OF WATER (g)		90.2						
MOISTURE CONTEN	Т	23.3%						
	ATION (If Required)			DECODIDITION				
SAMPLE NUMBER	USCS GROUP SYMB		DESCRIPTION					

COMMENTS	

for Hansey

Joseph Harvey Materials Tech

Allnorth

GRADATION ANALYSIS REPORT

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



USCS Classification:

Gradation % Grave

% Gravel 3.5%

-

% Silt & Clay

% Sand 17.1%

Silt 29.4%

79.5%

Clay 50.1%

Reviewed By:

Joe Harvey Materials Tech

Comments:



	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	Сору То:	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 SAMPL	.E (g)	412.2					
MASS OF WATER (g)		93.5					
MOISTURE CONTEN	т	22.7%					
	ATION (If Required)	1					
SAMPLE NUMBER	USCS GROUP SYMBOL	DESCRIPTION					

COMMENTS

for Hansey

Joseph Harvey Materials Tech

🔿 Allnorth

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON POW 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 Engineerin	ıg







Silt 36.8%

Clay 47.1%

Reviewed By:

2

Sean Li Materials Tech

Comments:



24 Marr Road Barwick, ON POW 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	Сору То:	Tori Longmuir		

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

TEST RESULTS				
	1			
(g)	356.8			
	107.4			
	30.1%			
TION (If Required) USCS GROUP SYMBOL		DE	SCRIPTION	
	(g) TION (If Required) USCS GROUP SYMBOL	1 (g) 356.8 107.4 30.1% TION (If Required) USCS GROUP SYMBOL	1 (g) 356.8 107.4 30.1%	1 (g) 356.8 107.4 107.4 30.1% Image: State

COMMENTS	

Sean Li Materials Tech



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	Сору То:	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 CONTEN	т	24.8%			
VISUAL INDENTIFIC	ATION (If Required) USCS GROUP SYMBC	DL	DE	SCRIPTION	

COMMENTS	

Sean Li Materials Tech



	24 Marr Road Barwick, ON P	0W 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	Сору То:	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 CONTEN	Т	22.5%				
VISUAL INDENTIFICA SAMPLE NUMBER	ATION (If Required) USCS GROUP SYMBOL			DESC	RIPTION	

COMMENTS	

Sean Li Materials Tech



	24 Marr Road Barwick, ON PC)W 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	Сору То:	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 CONTEN	т	22.7%			
VISUAL INDENTIFIC	ATION (If Required) USCS GROUP SYMBOL			DESCRIPTION	

COMMENTS	

Sean Li Materials Tech



	24 Marr Road Barwick, ON P	0W 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	Сору То:	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 CONTEN	т	24.3%				
VISUAL INDENTIFICATION (If Required) SAMPLE NUMBER USCS GROUP SYMBOL DESCRIPTION						

COMMENTS					

Sean Li Materials Tech



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	Сору То:	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 CONTEN	т	20.1%				
VISUAL INDENTIFICATION (If Required) SAMPLE NUMBER USCS GROUP SYMBOL DESCRIPTION						

COMMENTS				

Sean Li Materials Tech



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	Сору То:	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 CONTEN	т	23.0%				
VISUAL INDENTIFICATION (If Required)						

COMMENTS					

Sean Li Materials Tech

🔿 Allnorth

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON POW 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 Engineerin	g





27.5%

48.0%



Reviewed By:

Comments:

Sean Li Materials Tech



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	Сору То:	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 SAMPL	.E (g)	531.3					
MASS OF WATER (g)		121.7	121.7				
MOISTURE CONTEN	т	22.9%					
VISUAL INDENTIFICATION (If Required) SAMPLE NUMBER USCS GROUP SYMBOL DESCRIPTION							

COMMENTS	

Sean Li Materials Tech

🔿 Allnorth

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON POW 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 Engineerin	g







Reviewed By:

2

Sean Li Materials Tech

Comments:



24 Marr Road Barwick, ON POW 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	Сору То:	Tori Longmuir				

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

TEST RESULTS							
	1						
E (g)	491.8						
	117.1						
•	23.8%						
VISUAL INDENTIFICATION (If Required) SAMPLE NUMBER USCS GROUP SYMBOL DESCRIPTION							
	TION (If Required) USCS GROUP SYMBOL	Image: constraint of the second system 1 (g) 491.8 117.1 23.8% TION (If Required) USCS GROUP SYMBOL	Ites T RESULTS 1 1 491.8 117.1 23.8%	1 1 (g) 491.8 117.1 23.8% TION (If Required) USCS GROUP SYMBOL DESC	Image: Constraint of the second system 1 1 491.8 117.1 23.8% TION (If Required) USCS GROUP SYMBOL DESCRIPTION	Image: light constraint of the second sec	

COMMENTS	

Sean Li Materials Tech

🔿 Allnorth

GRADATION ANALYSIS REPORT

24 Marr Road Barwick, ON POW 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 Engineerir	ıg







Reviewed By:

2

Comments:

Sean Li Materials Tech



24 Marr Road Barwick, ON POW 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	Сору То:	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 SAMPL	.E (g)	522.9						
MASS OF WATER (g)		145.8						
MOISTURE CONTEN	т	27.9%						
VISUAL INDENTIFIC	VISUAL INDENTIFICATION (If Required)							

COMMENTS				

Sean Li Materials Tech



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	Сору То:	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 CONTEN	Т	21.1%				
VISUAL INDENTIFIC	VISUAL INDENTIFICATION (If Required) SAMPLE NUMBER USCS GROUP SYMBOL DESCRIPTION					

COMMENTS	

Sean Li Materials Tech



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	Сору То:	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 SAMPL	MASS OF DRY SAMPLE (g) 447.5					
MASS OF WATER (g)	MASS OF WATER (g) 149.5					
MOISTURE CONTEN	Т	33.4%				
VISUAL INDENTIFIC	VISUAL INDENTIFICATION (If Required) SAMPLE NUMBER USCS GROUP SYMBOL DESCRIPTION					

COMMENTS	

Sean Li Materials Tech



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	Сору То:	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 SAMPL	MASS OF DRY SAMPLE (g) 483.1					
MASS OF WATER (g)	MASS OF WATER (g) 107.7					
MOISTURE CONTEN	т	22.3%				
VISUAL INDENTIFICATION (If Required) SAMPLE NUMBER USCS GROUP SYMBOL DESCRIPTION						

COMMENTS				

Sean Li Materials Tech



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	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 SAMPL	ASS OF DRY SAMPLE (g) 436.7					
MASS OF WATER (g) 151.6						
MOISTURE CONTEN	т	34.7%				
VISUAL INDENTIFICATION (If Required) SAMPLE NUMBER USCS GROUP SYMBOL DESCRIPTION						

COMMENTS				

Sean Li Materials Tech



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	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 SAMPL	MASS OF DRY SAMPLE (g) 462.9						
MASS OF WATER (g)	146.4						
MOISTURE CONTEN	т	31.6%					
VISUAL INDENTIFICA SAMPLE NUMBER	VISUAL INDENTIFICATION (If Required)						

COMMENTS				

Sean Li Materials Tech



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	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 CONTEN	т	23.1%				
VISUAL INDENTIFICATION (If Required) SAMPLE NUMBER USCS GROUP SYMBOL DESCRIPTION						

COMMENTS	

Sean Li Materials Tech

Appendix C

Tulloch Daily Placement Maps








(SEPTEMBER 15, 2020) SCALE: N.T.S.

	ENGINEERING
	DESIGNER
	REVISIONS
	DATE REMARKS
	LEGEND
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A.	NCL LIFT #3
	COMPACTION 🛛 🕅 TEST LOCATION
	SAMPLE LOCATION
	WIRE
	Horizontal Datum: North American Datum 1983 (NAD83) 6 Degree Universal Transverse Mercator (ITU) Octo Occurtantos 7 Jana 15
	Vertical Datum: Canadian Geodetic Vertical Datum, 1928 Adjustment, Geodetic Elevations
	PROJECT ITTLE NEW GOLD INC RAINY RIVER PROJECT
	DRAWING TITLE
	EMRS RECLAMATION
	PURPOSE
	DAILY PROGRESS
	DATE SEPTEMBER 16, 2020
	CHECKED JT
	SCALE NTS
	TENDER ISSUED FOR CONSTRUCTION
	DWG. No. PROJECT No. REV. No. $D-1$ 19-1138 0



(SEPTEMBER 16, 2020) SCALE: N.T.S.

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TULLOCH ENGINEERING
DESIGNER
REVISIONS
DATE REMARKS
LEGEND
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CCL LIFT #2
NCL LIFT #3
COMPACTION X 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 Cencelife Elevatione
RAINY RIVER PROJECT
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DATE SEPTEMBER 17, 2020
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DWG. No. PROJECT No. REV. No. D-1 19-1138 0



(SEPTEMBER 17, 2020) SCALE: N.T.S.

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A. C.	NCL LIFT #3
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	Horizontal Datum: North American Datum 1983 (NAD83)
	(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
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(SEPTEMBER 18, 2020) SCALE: N.T.S.

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(SEPTEMBER 19, 2020) SCALE: N.T.S.

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(SEPTEMBER 20, 2020) SCALE: N.T.S.

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	COMPACTION
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	North American Datum 1983 (NAD83) 6 Degree Universal Transverse Mercator (UTU) Grid Coordinates, Zone 15.
	Vertical Datum: Canadian Geodetic Vertical Datum,
	1928 Adjustment, Geodetic Elevations
	PROJECT TITLE
	RAINY RIVER
	PROJECT
	EMRS RECLAMATION
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	D-1 19-1138 0



EMRS RECLAMATION - DAILY PROGRESS (SEPTEMBER 21, 2020) SCALE: N.T.S.

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	DESIGNER
	REVISIONS
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	NCL LIFT #4
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	LIFT #3 COMP. TEST X SAMPLE •
	LIFT #4 COMP. TEST 🛛 💆
	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
	LINING RECLAMATION
	PURPOSE
	DAILY PROGRESS
	DATE SEPTEMBER 22, 2020
	DRAWN DAS
	ISSUED FOR TENDER
	ISSUED FOR CONSTRUCTION
	DWG. No.   PROJECT No.   REV. No. D-1 19-1138 0







	TULLOCH
	ENGINEERING
	DESIGNER
	REVISIONS
	LEGEND
	CCL LIFT #1
	CCL LIFT #2
SEPTEMBER 24, 2020 (LIFT IN (PROGRESS)	NCL LIFT #3
	NCL LIFT #4
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	SAMPLE •
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	PLACED TODAY
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	PROJECT TITLE NEW GOLD INC RAINY RIVER PROJECT
	DRAWING TITLE EMRS RECLAMATION
	PURPOSE
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	DATE SEPTEMBER 25, 2020
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	CHECKED JT
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	ISSUED FOR TENDER
	ISSUED FOR CONSTRUCTION
	DWG. No. PROJECT No. PHASE No. D-1 19-1138 113











(SEPTEMBER 24, 2020) SCALE: N.T.S.

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DESIGNER
REVISIONS
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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
PROJECT
DRAWING TITLE
EMRS RECLAMATION
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PURPOSE
DAILY PROGRESS
DRAWN DAS
SCALE NTS
ISSUED FOR
DWG. No.   PROJECT No.   PHASE No.
X-1 19-1138 113



![](_page_264_Figure_0.jpeg)

![](_page_264_Figure_1.jpeg)

![](_page_264_Figure_2.jpeg)

![](_page_264_Figure_3.jpeg)

![](_page_264_Figure_4.jpeg)

(SEPTEMBER 25, 2020) SCALE: N.T.S.

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CHECKED	JT
SCALE	NTS
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DWG. No. 1	PROJECT No.   PHASE No.
X-1	19-1138 113

![](_page_265_Figure_0.jpeg)

![](_page_266_Figure_0.jpeg)

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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.

Date	Description	Location	Location	Offset	Offset	<b>Compaction Tests</b>	Samples Taken	Sele
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 10
27-Aug-20	Lift 1 CCL grading	7+400	7+485					
27-Aug-20	0       Lift 1 CCL grading       7+400       7+485         0       Packing lift 1 CCL       7+400       7+485         0       Pushing and placing lift 2 CCL       7+400       7+430         0       Pushing and placing lift 2 CCL       7+400       7+450       -30       -50         0       Pushing and placing lift 2 CCL       7+400       7+484       -30       -50         0       Pushing & placing lift 2 CCL       7+400       7+484       -30       -50         0       Pushing & placing lift 2 CCL       7+400       7+484       -30       -50         0       Packing lift 2 CCL       7+400       7+484       -30       -50         0       Packing lift 1 CCL       7+485       7+535       -30       -50         0       Pushing & placing lift 1 CCL       7+485       7+551							
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 to
1-Sep-20	Bulking in lift 2 CCL	7+483	7+550					Lift 2 CCL placed approximately 0. Dozer track-packed area before instead of laying in the pack
2-Sep-20	Pushing and placing lift 2 CCL	7+469	7+545			802	EMRS-L2-022	Sample loads from the 830 mine tro QC to be nice dark grey clay, to b dumping CCL mater
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 wate
3-Sep-20	Pushed and placed lift 1 CCL	7+620	7+650					Clay very greasy a 830 mine trucks are hau
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					

#### Table D1: Construction Activities Summary

#### ect Comments

~		0.5	• •				~ 1
0m	and	2.5m	grids;	yielding	lifts -	+/-	0.4m

too wet for placement

.1m high so the dozer can trim after the rains. re the rain arrived, this way the rain runs off ker marks this way the clay dries faster.

rucks delivered were determined by NG and be used for the CCL layers. 830 mine trucks erial between 7+840 and 0+060.

ter coming into trench

after last night's hard rain fall. auling in CCL/NCL material today.

Date	Description	Location	Location	Offset	Offset	<b>Compaction Tests</b>	Samples Taken	Se
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 of
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 o
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 n surface looked fairly dry. NG scr moisture test was completed. Mo
8-Sep-20	Grading lift 3 NCL	7+480	7+500					Tested moisture content on li
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 installatic required excavating through L2 two 0.25m lifts, p
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 ir
11-Sep-20	Bulking L3 NCL	7+530						
12-Sep-20								Okane on site to finish i
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 where completed to check moist had more then 0.4 m of cover re to
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 ha
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 ha
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)	

### elect Comments

on lift 2 CCL (27.4%) prior to placing lift 3 NCL.

on lift 2 CCL (25.8%) prior to placing lift 3 NCL.

not meet moisture content requirements as the raped the surface with the excavator and a oisture content was 26.3% with a rod depth of 200mm.

ift 2 CCL (26.3%) prior to placing lift 3 NCL.

on of soil monitoring instrumentation which 2 and L1 CCL to blast rock then back filling in backing and testing each lift.

n panel including monitoring instruments

installing monitoring instrumentation

s been exposed for more then 24 hours, tests ture prior to L3 NCL placement. Both locations emaining after stripping away the dry material complete tests

id the L2 CCL exposed for more then 24hrs

ad PAG rock on it with a lift of NCL material

Se	Samples Taken	<b>Compaction Tests</b>	Offset	Offset	Location	Location	Description	Date
					7+593	7+530	Pushing & placing L4 NCL	21-Sep-20
	EMRS-L4-036		-82	-1	7+564	7+530	Grading L4 NCL	21-Sep-20
Nuclear densometer testing at lo		807				N:540858 1.078 E:428747 .924		21-Sep-20
					7+593	7+530	Hauling NCL material	21-Sep-20
			-83	0	7+604	7+564	Placing, Grading L4 NCL	22-Sep-20
					7+655	7+625	Pushing & Placing L1 CCL	22-Sep-20
			-42	-3	7+773	7+629	Shaping Rock	22-Sep-20
Dry density revised on all up to					7+702	7+625	Pushing and Placing L1 CCL	23-Sep-20
	EMRS-L1-037	507, 508, 509, 510			7+705	7+625	Graded & Packed L1 CCL	24-Sep-20
	EMRS-L1-038				7+734	7+702	Pushing & Placing L1 CCL	24-Sep-20
					7+690	7+650	Pushing & Placing L2 CCL	24-Sep-20
					7+700	7+653	Pushing and placing L2 CCL	25-Sep-20
					7+750	7+734	Pushing and placing L1 CCL	25-Sep-20
Begin additional sampling from ahe	EMRS-L1-039 (stockpile), EMRS-L1- 040 (stockpile), EMRS- L1-041 (stockpile)						Sample stockpiles	25-Sep-20
Transition area +/- 7+610 an ir available for lift thickness refer					7+743	7+706	Placed & graded L1 CCL	26-Sep-20
Excluded ma	EMRS-L1-042, EMRS-L2- 043, EMRS-L1-044	511, 512, 514, 515, 516, 808, 809.			7+743	7+618	Packed L1 &L2 CCL	26-Sep-20
					7+702	7+618	Placed & graded L2 CCL	26-Sep-20
	EMRS-L2-045, EMRS-L2- 046, EMRS-L2-047	810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820			7+735	7+702	Placed & graded L2 CCL	27-Sep-20
					7+720	7+612	Pushed & placed L3 NCL	27-Sep-20
					7+775	7+740	Pushed and placed L1 CCL	27-Sep-20
	EMRS-L2-048, EMRS-L2- 049				7+680	7+612	Placed & graded L3 NCL	28-Sep-20
CCL is a mix of WML & Brena, da due					7+730	7+680	Pushed & placed L3 NCL	28-Sep-20
CCL is a mix of Brena and WMI Sticky c	EMRS-L3-050, EMRS-L3- 051				7+727	7+680	Placed & graded L3 NCL	29-Sep-20
					7+645	7+615	Pushed & placed L4 NCL	29-Sep-20

ect Comments	5
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cation of Okane permeameter test on L2 CCL

date compaction forms with lab proctors

n stockpiles to review material characteristics ead of placement

mproved trimmed rock surface was made rence. NG also brought in a D8T GPS Dozer.

rked off toe drain location

ark grey and some light brown clay mix. Sticky e to the light rain.

L, dark grey and some light brown clay mix. due to the light rain.

Date	Description	Location	Location	Offset	Offset	<b>Compaction Tests</b>	Samples Taken	Sel
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 WMI Sticky due to the rain. Heavy rain material was getting
1-Oct-20								CCL is a mix of Brena and WML Sticky due to th
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 plug sheep's foot was cleaned and ins would b
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 compa packer issues yesterday. Some densities. Okane gave NG
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. Issue extra compaction tests where
5-Oct-20	packing	L1 & L2 CCL						
5-Oct-20	Key-in trench location	7+816	0+008					Blueish Clay, +/
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 bedro
7-Oct-20	Stockpile material	+/- 7+850 corner						Material was too wet from the ro p NG worked to clean up and st increase efficiency when the ma
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	

### lect Comments

L, dark grey and some light brown clay mix. ns in late morning so crew shut down at 12:30 Ig to sticky and to hard to place.

L, dark grey and some light brown clay mix. ne rain. No work performed.

gged up and densities were reading low. The structed to make one more pass to see if that pring up the densities.

action tests 518A, 518B, 519A, 520A due to the e of these tests didn't prove to be any better G the go ahead to start placing L2 CCL.

es with Lift 1 CCL densities and water content, e performed to allow NG to place L2 CCL.

/- 1m depth/ some bedrock

ock with clay in between

ain we received last night so no material was placed today.

tockpile material at the crest of the slope to

aterial dries and they are able to place again.

Date	Description	Location	Location	Offset	Offset	<b>Compaction Tests</b>	Samples Taken	Se
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 vari testing L2 CCL that was recommendation, the pack Compaction test 832 and was t meeting compaction standard due to slightly highe
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 yester it and would not rut as bad. Mois throughout the panel eve
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, ex
12-Oct-20								No
13-Oct-20								No work completed due to rain the materi
14-Oct-20								No work was done at the EMRS r being unsui
15-Oct-20								No work was done at the EMRS r being unsui
16-Oct-20								Okane advised not to place L4 snow to melt or remove), and the was not over sature No material was placed at the conditions being
								NG and the Veert dozer did sto earlier in the week by NG Co productivity onc
17-Oct-20								No material was placed at the conditions being
10.0-1.00								No material was placed at the conditions being
18-OCT-20								NG started to stockpile some NCI but then go

### lect Comments

iable dry density and moisture content values placed on Oct 6, 2020. As per Okane cer did 4 more passes over the location of then retested (832A) to confirm material was and that the lower dry density values were er moisture content from the rain.

rday when packed. Equipment could drive on sture content seemed a lot better but did vary en though material seemed consistent.

xcavated on Oct 6, 2020

work completed

the NG rainy river site received last night and ial being too saturated.

reclamation today due to rain and conditions itable to place material.

reclamation today due to rain and conditions itable to place material.

NCL over the 2.5-5cm snow present (wait for at if the snow melted to make sure the L3 NCL ated prior to L4 NCL placement. e EMRS reclamation today due to snow and g unsuitable to place material.

art pushing the material that was stockpiled onstruction closer to the slope to speed up the NG is able to place L4 NCL.

e EMRS reclamation today due to snow and g unsuitable to place material.

EMRS reclamation today due to snow and unsuitable to place material.

material in preparation to place this morning shut down due to snow.

Date	Description	Location	Location	Offset	Offset	<b>Compaction Tests</b>	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 Okai present on the L3 NCL and how to proceed NG started clearing snow from sta +/- 7+770 - 7 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 cont temperatures permi
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 Pla received from Okan
22-Oct-20	Trial L1 CCL	0+125	0+135					L1 CCL Trial: Cleared snow off at 0+125 - 0+135 to perform a 0.30m of CCL with the D65 dozer, started to pack stuck. We noticed the drum and tires filling up 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 Okan temperatures, also the amount of snow being or
24-Oct-20	Trial 2 Access	0+450						At 0+113 NG sloped and covered all L1, L2, L3 fac winter. Started punching a roadway through the stoc placement trial 2 a +/- 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 Very very sticky. As temperature rises u
								L1 CCL Trial 2 at 0+450 - 0+457, o, Cleared snow, placed 0.25m of CCL with D65 do with vibration and no vibration. Packer consto stuck.
25-Oct-20	Trial 3 L1 CCL	0+125	0+150	-135	-125		T3-EMRS-L1-094	L1 CCL Trial 3 at 0+125 - 0+150, o/s Cleared snow, placed 0.25m of CCL with D65 do with vibration and no vibration. Packer consta stuck.
								Temperatures are playing a big issue with the po gets to zero the stickier and more the
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	

ne in reference to snow being d with L4 NCL placement. 7+805, preparing to place L4

tinue placement as long as it.

acement - Frozen Conditions ne

trial to place L1 CCL. Placed ck the CCL and the packer got with CCL and made it very

ne's concern about ambient on top of the stockpiles of clay.

ace surface to protect it for the

ckpiles to perform a L1 CCL

some light brown clay mix. up the stickier it gets.

/s -91m - -47m:

ozer. 211 packer packed area antly picked up. Did not get

s -139m - -125m: ozer. 211 packer packed area antly picked up. Did not get

acker picking up. The closer it ne packer picks up.

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		27-Aug-				1&5	1447	1512	95	90*	30.6	4.9*	_	Possible error in sample collection							
7+485		20					1447	1512	104	99	28.8	2.5	-								
7+400 7+484							1447	1600	102	95*	31.9	6.2*	_	Hydrometer indicates incorrect proctor							
									1447	1600	96	90*	28.8	2.1							
		29-Aug- 20	29-Aug- 20	29-Aug- 20			1&5	-	-	-	-	27.4	5.1	EMRSBP-001	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						1447	1700	95	117*	31.5	9.3*										
		30-Aug- 20	30-Aug- 20	JG-						2	1477	1729	116	98*	21.7	3.0*	-	Sept 10 install secondary station (excavate and recompact)			
																	1477	1729	111	93	23.7
7+469 7+545									1447	1712	98	86*	27.9	3.9*		Compaction test #802 Hydrometer indicates incorrect proctor					
									2	-	-	-	-	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							
			2-Sep- 20	2-Sep- 20	2-Sep- 20	2-Sep- 20	2-Sep- 20	2-Sep- 20	2-Sep- 20	2-Sep- 20				1447	1712	104	93	28.6	6.7	EMRS-BP-002	Sept 10 compaction 'Test 2', vicinity of secondary instrument install
						1	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					

## 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
							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	_	-	-	-	-	_	-	

Brian Gagne EMRS ROC 2020 Appendix D

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	-	-	-	-	-	-	-	
							1512	1633	96	88*	26.1	7.2*	_	
							1512	1633	98	91	26.1	6.0	_	
							1512	1633	95	88	27.3	7.2	_	
7+625 7+705		24-Sep- 20				1&5	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
							1600	1633	97	95	21.3	1.2	_	
7+706 7+743		26-Sep- 20				1&5	1512	1710	98	86	24.7	3.8	-	
							1512	1710	100	92*	23.6	-2.6*		
							1512	1565	90	87	29.1	5.8		
							1621	1565	97	101	20.0	-3.3	_	
_							1512	1565	94	91	26.6	3.3	-	
7+618 7+702			26-Sep- 20			2	1512	1468	90	93	30.6	4.4	EMRS-BP-004	
							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			27-Sep-			4	1512	1468	96	102*	24.3	-5.5*	_	
7+735			20				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	-	-	-	-	-	-	-	
		-		-			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)
7+740 0+060		3-Oct- 20				4	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*	-	

Brian Gagne EMRS ROC 2020 Appendix D

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		
							1512	1646	155	143	30.7	9.6		
						-	1512	1646	95	89*	24.9	0.6*	-	
0.0/0							1512	1468	87	90	32.0	5.8		
0+060 0+115		4-Oct- 20				1&5	1512	1468	86	92*	30.2	-0.3*	-	
0.110						_	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
							1512	1643	103	94*	26.8	8.4*		_
							1512	1643	106	97	26	5.6		
7+755 7+810			5-Oct- 20			4&5	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		6-Oct-				40.5	1512	1728	117	97*	18.1	6.4*		Small section near
0+118		20				4&3	1512	1728	113	96*	19.8	5.3*		toe
							1512	1643	105	97	25.6	5.2		
						-	1512	1643	107	100*	23.9	1.8*	-	
						-	1512	1643	106	95*	23.9	7.2*	-	
7+778			6-Oct-			40.5	1512	1643	99	91*	28.2	7.4*	-	
0+104			20			4&5	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	-	-	-	-	-	-	-	
010/0							1512	1728	113	96*	19.8	5.7*		
0+0104			9-Oct- 20			4&5	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**





	$\cup$				
	Date:	Aug 26, 2020	Owner/Client:	New Gold Inc.	
	Day:	Wednesday	OKC Project #:	1003-19	
	Prepared by:	Ted Linley	<b>Project Location:</b>	Rainy River - Or	ntario
	Number of Page	es in Report 4			
	Environmenta	al Conditions:			
W	eather Cloudy	Pi	ecipitation 0 mm	Wind	Moderate
Te (ł	mperature High/Low) 27	16 H	umidity 60 to 80%		
M	eeting Summ	<u>aries:</u>			
W	ork Location	and Tasks:			
	Task Descri	ption L	ocation of Work	Equipment &	Personnel Used
Ρι	ishing and placing	g lift 1 CCL 7+400	- 7+475	Dozers D8T, D6	5PX
M	oving CCL for do	zers 7+400	- 7+475	Excavator 210	

Packing lift 1 CCL 7+400 - 7+450 Packer 211





Dark grey, 30% mo	bisture, pliable.			
Danal Approva				
Panel Approva	<u>L.</u>			
Panel Description				
		Yes	No	Comment
Material Inspection	Suitable for Construction	<b>~</b>		
Visual Inspection		✓		
Layer Thickness A	cceptable		<b>~</b>	Bulking in lift 1 CCL
Water Content with	in Acceptable Range	<b>~</b>		
Density within Acce	eptable Range	•		
Corrected Actions	Taken			





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 :



Digitally signed by Garry Noga Date: 2020.08.28 11:26:10 -04'00'

CQC Representative: Digitally signed by Ted Linley Date: 2020.08.28 Ted Linley 11:26:39 -04'00'



**PHOTOGRAPHS** 









		$\sim$						
	Date:		Aug 27, 20	20	Owner	/Client:	New Gold Inc.	
	Day:		Thursday		OKC F	Project #:	1003-19	
	Prepa	red by:	Ted Linley		Project	t Location:	Rainy River - Or	ntario
	Numbe	er of Pag	es in Repor	t 4			•	
	<u>Envirc</u>	onment	al Condit	ions:				
W	eather	Clear		Pr	ecipitatio	on 0 mm	Wind	Moderate
Te (ł	emperat High/Lo	ure w) 25	13	н	umidity	20 to 40%		
M	eeting	Summ	naries:					
Oł	kane ser	nt QC ma	aterial desc	riptions a	nd pictur	es of how to	describe clay.	
W	ork Lo	cation	and Task	<u>(S:</u>				
	Tas	k Descr	iption	L	ocation o	of Work	Equipment &	Personnel Used
Ρι	ushing &	placing	lift 1 CCL	7+475	- 7+500		Dozer D65, Exc	avator 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





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	<b>~</b>		30.6%,31.9%,28.8%
Density within Acceptable Range	<b>~</b>		
Corrected Actions Taken			





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 :



Digitally signed by Garry Noga Date: 2020.08.28 12:15:56 -04'00'

CQC Representative: Digitally signed by Ted Linley **Ted Linley** Date: 2020.08.28 12:16:53 -04'00'

# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 









	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 Pag	jes in Report 4				
	<b>Environment</b>	tal Conditions:				
Weather Showers			Precipitation 0 - 5 mm Wind High			
Te  )	mperature High/Low) 24	16 H	umidity 60 to 80%			
M	eeting Sumn	naries:				
Oł	kane representa	tives on site helping	with soil identification.			
W	ork Location	and Tasks:				
	Task Descr	ription L	ocation of Work	Equipment & Personnel Used		

Pushing and placing lift 2 CCL 7+400 - 7+450

Dozer D65





Dark grey, sticky, very pliable.				
Panel Approval:				
Panel Description				
	Yes	No	Comment	
Material Inspection Suitable for Construction	<b>~</b>			
Visual Inspection	<b>~</b>			
Layer Thickness Acceptable	<b>~</b>		+/- 0.250m	
Water Content within Acceptable Range				
Density within Acceptable Range				
Corrected Actions Taken				





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 :



Digitally signed by Garry Noga Date: 2020.08.28 18:34:12 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.08.28 18:34:34 -04'00'

newgald	Rainy River EN Daily Progress R <b>PHOTOGRAP</b>	/IRS eports <b>C</b> H <b>S</b>	kane
Photo #: 1	Photo :		
Lift 2 CCL drying out after the rain.		<u>.</u>	
Photo #:	Photo	#:	





			[					
	Date: Day:		te: Aug 29, 2020 Owner/Clier   y: Saturday OKC Project		Client:	New Gold Inc.		
					OKC Project #:		1003-19	
	Prepar	ed by:	Ted Linley		Project Location:		Rainy River - C	Intario
	Number	of Pag	es in Repor	t 5				
	Enviror	nment	al Conditi	<u>ions:</u>				
W	eather	Clear		Pr	ecipitatior	n 0 mm	Wind	d Moderate
Te (ł	emperatu High/Low	ıre v) 23	12	H	umidity	0 to 20%		
M	eeting	<u>Summ</u>	<u>naries:</u>					
	ork Loc	cation	and Task	(5.				
	Task	Descr	intion	<u></u> 1	ocation of	fWork	Equipment 8	Personnel Used
	Tuon	Deser	iption				Equipment e	
Ρι	ushing &	placing	lift 2 CCL	7+400	- 7+484		Dozers D65 &	155AX
Pa	acking lift	2 CCL		7+400	- 7+484		Packer 211	
Ρι	ushing &	placing	lift 1 CCL	7+485	- 7+535		Dozers D65 &	155AX
Е×	cavated	key trer	nch	7+442	- 7+551		Excavator 210	





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	<b>~</b>		
Layer Thickness Acceptable	<b>~</b>		+/- 0.25m
Water Content within Acceptable Range	•		28.8%
Density within Acceptable Range	<b>~</b>		96%
Corrected Actions Taken			





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 :



Digitally signed by Andrew Angus Date: 2020.08.29 19:22:06 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.08.29 19:22:58 -04'00'



## newg≋ld

Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS** 



8-8-8 5. 5- 2-Scanned by CamScanner Photo #: 6 Photo #: 5 Lift 2 CCL, 7+418, o/s 35.3m Lift 2 CCL, 7+418, o/s 35.3m density test showing a 28.8% moisture content. sample - EMRS-L2-020 DAFT Scanned by CamScanne Photo #:7 Photo #:8 Density test on lift 2 CCL at 7+418, o/s 35.3m. Approximate location of CCL placed.





Г	<u> </u>														
	Date: Aug 30, 202   Day: Sunday		Date:		Date: Aug 30, 2		Aug 30, 2020		Owner/	Client:	New Gol	d Inc.			
				OKC P	roject #:	1003-1	9								
	Prepar	red by:	Ted I	∟inley		Project	Location:	Rainy Ri	ver - Or	ntario					
	Number	r of Pag	es in	Report	t 5 _.										
E	Enviro	<u>nment</u>	al Co	<u>onditi</u>	ons:										
We	ather	Cloudy			Ρ	Precipitation	n 0 mm		Wind	Moder	ate				
Ter (H	nperatu igh/Lov	ure v) 24		8	F	lumidity	0 to 20%								
<u>Me</u>	eting	Summ	<u>narie</u>	<u>s:</u>											
W	ork Loo	cation	and	Task	<u>s:</u>										
Wo	ork Loo Task	<u>cation</u> k Descr	and iptior	Task	<u>s:</u> L	ocation o	f Work	Equipr	nent &	Person	nel Used				
Pu	ork Loo Task shing &	cation Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Const	<u>and</u> iptior	Task 1 CCL	: <u>s:</u> L 7+485	<b>.ocation o</b> 5 - 7+552	f Work	<b>Equip</b> r Dozer's	<b>nent &amp;</b> D65 & 1	Person 155AX	nel Used				
Pu: Pa	ork Loo Task shing & cking lift	cation Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Const	and iptior	Task 1 CCL	<u>s:</u> L 7+485 7+485	<b>.ocation o</b> 5 - 7+552 5 - 7+552	f Work	<b>Equip</b> Dozer's Packer 2	nent & D65 & 1 211	Person 155AX	nel Used				
Pu: Pa: Pu:	ork Loo Task shing & cking lift shing &	cation Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Construction Constructio	and iption	Task I CCL	s: L 7+485 7+485 7+485	<b>.ocation o</b> 5 - 7+552 5 - 7+552 4 - 7+500	f Work	Equipr Dozer's Packer 2 Dozer's	nent & D65 & 1 211 D65 & 1	Person 155AX 155AX	inel Used				





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 Accep	table Range	✓		28.8%	
Density within Acceptable R	ange	✓		95%	
Corrected Actions Taken					





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 :

Andrew Angus

Digitally signed by Andrew Angus Date: 2020.08.30 19:18:18 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.08.30 19:19:00 -04'00'



Placing lift 1 CCL, +/- 7+530.

**PHOTOGRAPHS** 





Photo #: 2

Packer continuously packing lift 1 CCL.



Photo #: 3

Both dozer's pushing and placing lift 1 CCL, +/- 7+530.





PAG toe trench excavation to bedrock+/- 7+560.









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	Clea	r		Precipitation	0 mm	Wind	High
Temperat (High/Lov	ure [́ w) [́	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





Very wet from the rain received all night.							
Panel Approva	<u>l:</u>						
Panel Description	Not to place today.						
		Yes	No	Comment			
Material Inspectior	Suitable for Construction		•				
Visual Inspection		•					
Layer Thickness A	cceptable						
Water Content wit	nin Acceptable Range		<b>~</b>				
Density within Acc	eptable Range						
<b>Corrected Actions</b>	Taken			No work completed today.			





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 Garry Noga Date: 2020.08.31 20:05:08 -04'00'

CQC Representative: Digitally signed by Ted Linley Date: 2020.08.31 Ted Linley 20:05:28 -04'00'



newg@ld	Rainy Ri Daily Progr <b>PHOTO</b>	ver EMRS ess Reports <b>GRAPHS</b>	okane
Photo #:		Photo #	
Photo #:		Photo #:	





	Date:		Sept 1, 2020		Owner/Client:	New Gold Inc.
	Day:		Tuesday		OKC Project #:	1003-19
	Prepare	ed by:	Ted Linley		Project Location:	Rainy River - Ontario
	Number	of Pag	es in Report 4			
	Environ	nment	al Conditions	<u>s:</u>		
W	eather F	Rain		P	recipitation 0 - 5 mm	Wind Moderate
Te (ł	emperatu High/Low	re ') 15	5	Н	umidity 60 to 80%	
M	leeting S	Summ	<u>naries:</u>			
W	ork Loc	ation	and Tasks:			
	Task	( Desc	ription	L	ocation of Work	Equipment & Personnel Used

Bulking in lift 2 CCL

7+483 - 7+550

Dozer 155AX

Key-in Trench: Location

**CCL Contact Material** 

Comment





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	n 🖌			
Visual Inspection	<b>~</b>			
Layer Thickness Acceptable	<b>~</b>		+/-0.25m	
Water Content within Acceptable Range				
Density within Acceptable Range				
	_	_		
Corrected Actions Taken				





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: Digitally signed by Ted Linley Ted Linley Date: 2020.09.01 18:36:20 -04'00'
### Rainy River EMRS Daily Progress Reports oka **PHOTOGRAPHS** canned by CamScanner Photo #: 1 Photo #: 2 Dozer 155AX bulking in lift 2 CCL +/- 7+520. Light brown clay visible in the dark grey clay. Photo #: 3 Photo #:4 Dozer 155AX bulking in lift 2 CCL +/- 7+540. Dozer 155AX moving around lift 2 CCL to fill some low areas.







-		1						
	Date:	Sept 2, 2	2020	Owner/0	Client:	New Gold Inc.		
	Day:	Wednes	day	OKC PI	roject #:	1003-1	9	
	Prepared by	Ted Linle	әу	Project	Location:	Rainy R	ive <mark>r -</mark> Or	ntario
	Number of Pa	ges in Rep	oort 6					
E	<u>Environmen</u>	tal Conc	<u>litions:</u>					
<u> </u>	Morning Cond	itions	Weather	Cloudy		Preci	pitation	0 mm
٦	「emperature (High/Low)	15	9	Humidity	0 to 20%		Wind	Moderate
4	Afternoon Con	ditions	Weather	Cloudy		Preci	pitation	0 mm
٦	「emperature (High/Low)	19	9	Humidity	20 to 40%		Wind	Moderate
Me	etina Sumn	naries					I	
Wo	ork Locatior Task Dese	n and Ta cription	sks	ocation o	f Work	Equip	ment & I	Personnel Used
Wo	ork Locatior Task Dese shing and plac	n and Ta cription ing lift 2 C	<b>sks</b> L CL 7+469	<b>ocation o</b> - 7+545	f Work	<b>Equip</b> Dozer 6	<b>nent &amp;</b>   65	Personnel Used
Pus	o <b>rk Location</b> Task Desc shing and plac shing and plac	n and Ta cription ing lift 2 C	S <b>ks</b> CL 7+469 CL 7+552	ocation o - 7+545 - 7+620	f Work	Equipe Dozer 6 Dozer 6	<b>ment &amp;</b>   55 65 & 155	Personnel Used
Pus Pus Pac	ork Location Task Desc shing and plac shing and plac	n and Ta cription ing lift 2 C	S <b>ks L</b> CL 7+469 CL 7+552 7+469	ocation o - 7+545 - 7+620 - 7+545	f Work	Equip Dozer 6 Dozer 6 Packer	<b>ment &amp;</b>   55 65 & 155 211	Personnel Used
Pus Pus Pac Ke	ork Location Task Desc shing and plac shing and plac cking cking <b>ey-in Trench</b> Locatio	n and Ta cription ing lift 2 C ing lift 1 C	I <b>sks</b> CL 7+469 CL 7+552 7+469 <b>CCI</b>	ocation o - 7+545 - 7+620 - 7+545 - Contact	f Work Material	Equip Dozer 6 Dozer 6 Packer	ment & 1 55 211 Coi	Personnel Used





#### **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	<b>~</b>			
Visual Inspection	✓			
Layer Thickness Acceptable	<b>~</b>		+/- 0.25m	
Water Content within Acceptable Range	✓		27.9%	
Density within Acceptable Range	<b>~</b>		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 :



Digitally signed by Garry Noga Date: 2020.09.02 19:16:32 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linlev Date: 2020.09.02 19:15:53 -04'00'

## Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





## Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





newgald	Rainy River EMRS Daily Progress Repo PHOTOGRAPHS	S orts okane
ATE: Sept Em Rs-Lite Code	v CumScamer	
Photo #: 9	Photo #:	
Sample EMRS-L2-022		
Photo #:	Photo #:	





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:       Rainy River - Ontario         Moming 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       A& QC meeting today held in the Admin building.       0 to 20%       Wind       High         Nork Location and Tasks       Task Description       Location of Work       Equipment & Personnel Used         Pushed and placed lift 1 CCL       7+620 - 7+650       Dozer 155AX	Thursda	у	Owner/0	Client:	New Gol	d Inc.	
Prepared by:       Ted Linley       Project Location:       Rainy River - Ontario         Number of Pages in Report 5       Environmental Conditions:       Precipitation 0 mm         Moming 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       Mind       Humidity 0 to 20%       Wind       High         Max & 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	Septem	ber 3, 2020	OKC Pr	oject #:	1003-1	9	
Number of Pages in Report 5         Environmental Conditions:         Moming 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         Reeting Summaries       Humidity       0 to 20%       Wind       High       High         A& QC meeting today held in the Admin building.       iscussed original drone surface, hopefully we will get a much nicer surface provided by NG.         Vork Location and Tasks       Location of Work       Equipment & Personnel Used         Pushed and placed lift 1 CCL       7+620 - 7+650       Dozer 155AX	Ted Linl	еу	Project	Location:	Rainy Ri	ver - Or	ntario
Environmental Conditions:       Morning Conditions       Weather       Cloudy       Precipitation       0 mm         Temperature       14       9       Humidity       0 to 20%       Wind       High         Afternoon Conditions       Weather       Cloudy       Precipitation       0 mm         Afternoon Conditions       Weather       Cloudy       Precipitation       0 mm         Temperature       16       14       Humidity       0 to 20%       Wind       High         Temperature       16       14       Humidity       0 to 20%       Wind       High         Reeting Summaries       Humidity       0 to 20%       Wind       High         A & QC meeting today held in the Admin building.       iscussed original drone surface, hopefully we will get a much nicer surface provided by NG.         Vork Location and Tasks       Task Description       Location of Work       Equipment & Personnel Used         Pushed and placed lift 1 CCL       7+620 - 7+650       Dozer 155AX	jes in Rep	oort 5					
Moming 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         Temperature (High/Low)       16       14       Humidity       0 to 20%       Wind       High         Reeting Summaries       Humidity       0 to 20%       Wind       High         NA & QC meeting today held in the Admin building.       Iscussed original drone surface, hopefully we will get a much nicer surface provided by NG.         Vork Location and Tasks       Task Description       Location of Work       Equipment & Personnel Used         Pushed and placed lift 1 CCL       7+620 - 7+650       Dozer 155AX	al Conc	<u>ditions:</u>					
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         Temperature (High/Low)       16       14       Humidity       0 to 20%       Wind       High         Image: Summaries       Not & QC meeting today held in the Admin building.       Not & QC meeting today held in the Admin building.       Nork Location and Tasks       Task Description       Location of Work       Equipment & Personnel Used         Pushed and placed lift 1 CCL       7+620 - 7+650       Dozer 155AX	tions	Weather	Cloudy		Precip	itation	0 mm
Afternoon Conditions       Weather       Cloudy       Precipitation       0 mm         Temperature (High/Low)       16       14       Humidity       0 to 20%       Wind       High         Meeting Summaries       Mage: Stress of the stress o	14	9	Humidity	0 to 20%		Wind	High
Temperature (High/Low)       16       14       Humidity 0 to 20%       Wind High         Meeting Summaries         A & QC meeting today held in the Admin building.         iscussed original drone surface, hopefully we will get a much nicer surface provided by NG.         Vork Location and Tasks         Task Description       Location of Work         Pushed and placed lift 1 CCL 7+620 - 7+650	litions	Weather	Cloudy		Precip	itation	0 mm
Meeting Summaries         DA & 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	16	14	Humidity	0 to 20%		Wind	High
A & QC meeting today held in the Admin building. Discussed original drone surface, hopefully we will get a much nicer surface provided by NG. <b>Vork Location and Tasks</b> Task Description Location of Work Equipment & Personnel Used Pushed and placed lift 1 CCL 7+620 - 7+650 Dozer 155AX	aries						
Pushed and placed lift 1 CCL 7+620 - 7+650 Dozer 155AX	and Ta	isks	ocation o	f Work	Fauipn	nent &	Personnel Used
Pushed and placed lift 1 CCL 7+620 - 7+650 Dozer 155AX	p.ion	_			Edaibii		
	d lift 1 C	CL 7+620	- 7+650		Dozer 1	55AX	
		Thursda Septeml Ted Link es in Rep al Cond tions 14 14 14 14 14 14 14 14 14 16 16 16 16 16 16 16 16 16 16 16	Thursday   September 3, 2020   Ted Linley   les in Report 5   al Conditions:   tions   Weather   14   9   titions Weather 16 14 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 9 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14 14	ThursdayOwner/CSeptember 3, 2020OKC PrTed LinleyProjectred LinleyProjectred LinleyProjectres in Report 5Image: Cloudyal Conditions:Image: Cloudy149Humidity149Humidity149Humidity1614HumidityariesImage: Cloudytoday held in the Admin buildin drone surface, hopefully we willand TasksLocation orand TisksLocation orand lift 1 CCL7+620 - 7+650	Thursday       Owner/Client:         September 3, 2020       OKC Project #:         Ted Linley       Project Location:         res in Report 5       al Conditions:         tions       Weather       Cloudy         14       9       Humidity       0 to 20%         titions       Weather       Cloudy         14       9       Humidity       0 to 20%         titions       Weather       Cloudy         16       14       Humidity       0 to 20%         aries       today held in the Admin building.       drone surface, hopefully we will get a much         and Tasks       Location of Work         ad lift 1 CCL       7+620 - 7+650	Thursday       Owner/Client:       New Gol         September 3, 2020       OKC Project #:       1003-11         Ted Linley       Project Location:       Rainy Ri         res in Report 5	Thursday       Owner/Client:       New Gold Inc.         September 3, 2020       OKC Project #:       1003-19         Ted Linley       Project Location:       Rainy River - Or         res in Report 5

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	<b>~</b>		+/- 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 :



Digitally signed by Garry Noga Date: 2020.09.03 19:18:20 -04'00'

CQC Representative: Digitally signed by Ted Linley Date: 2020.09.03 Ted Linley 19:17:39 -04'00'



**PHOTOGRAPHS** 





### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS









Date:	Sept 4, 2	020	Owner/0	Owner/Client:		d Inc.	
Day:	Friday		OKC Pr	oject #:	1003-19		
Prepared by:	Ted Linle	у	Project	Location:	Rainy Riv	ver - Or	ntario
Number of Pag	jes in Rep	ort 6					
<u>Environment</u>	al Cond	<u>itions:</u>					
Morning Condit	tions	Weather	Clear		Precip	itation	0 mm
Temperature [ (High/Low)	15 4	·	Humidity	0 to 20%		Wind	Low
Afternoon Cond	litions	Weather	Clear		Precip	itation	0 mm
Temperature (High/Low)	20 1	15 +	Humidity	0 to 20%		Wind	Moderate
Meeting Summ	aries						
Work Location	and Tas	sks					
Task Desc	ription	Le	ocation of	f Work	Equipm	nent & I	Personnel Used
Push and place lif	t 1 CCL	7+547	- 7+625		Dozer D	65	
Push and place lif	t 1 NCL	7+400	- 7+420		Dozer 1	55AX	
Packing lift 1 CCL		7+547	- 7+625		Packer 2	211	
Key-in Trench Location	: n	CCL	. Contact	Material		Cor	nment





#### **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	<b>~</b>		
Layer Thickness Acceptable	<b>~</b>		+/- 0.25m CCL / +/-0.5m NCL
Water Content within Acceptable Range	✓		
Density within Acceptable Range	<b>~</b>		
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 :



Digitally signed by Andrew Angus Date: 2020.09.04 19:20:52 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.09.04 19:12:18 -04'00'

### Rainy River EMRS Daily Progress Reports oka **PHOTOGRAPHS** Scanned by CamScanner Photo #: 1 Photo #: 2 D65 dozer placing and grading lift 1 CCL Packer 211 continuous packing lift 1 CCL. +/- 7+590. Scanned by CamScanner



D65 dozer and packer 211 working on lift 1 CCL +/- 7+575.



155AX dozer pushing and placing lift 3 NCL +/- 7+410.



### newgood Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





### Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS**

newgold









Date:	Sept 5,	2020	Owner/0	Client:	New Gold	Inc.	
Day:	Saturda	у	OKC Pr	oject #:	1003-19		
Prepared by	y: Ted Lin	еу	Project	Location:	Rainy Rive	er - Or	ntario
Number of Pa	ages in Re	port 6					
<u>Environme</u>	ntal Con	<u>ditions:</u>					
Morning Con	ditions	Weather	Clear		Precipita	ation	0 mm
Temperature (High/Low)	16	7	Humidity	0 to 20%	V	Vind	Still
Afternoon Co	nditions	Weather	Clear		Precipita	ation	0 mm
Temperature (High/Low)	21	16	Humidity	0 to 20%	V	Vind	Low
Meeting Sum	maries						
Work Locatio	n and T	aeke					
Task Des	scription	L	ocation o	f Work	Equipme	ent & I	Personnel Used
Pushing & placir	ng lift 2 CC	L 7+545	-7+615,o/s	s-66m - 2m	D65 & 155	ō doze	ers
Pushing & placir	ng lift 3 NC	C 7+420	- 7+480		D65 & 155	5 doze	ers
Packing		7+545	- 7+615		packer 21	1	
Key-in Trenc Locati	h: on	CCI	- Contact	Material		Cor	nment





#### **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 :

Bert Seguin Digitally signed by Bert Seguin Date: 2020.09.05 19:27:22 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.09.05 19:24:00 -04'00'



**PHOTOGRAPHS** 







### newgood Rainy River EMRS Daily Progress Repor

Daily Progress Reports **PHOTOGRAPHS** 





Dark grey material with small amounts of light



Continuous packing.



Photo #: 7

Photo #: 5

brown clay.

Moisture content on lift 2 CCL prior to placing lift 3 NCL, 7+463.4, o/s -48.9m.





D65 & 155AX dozers bulking and grading lift 3 NCL, +/- 7+440.



### newgood Rainy River EMRS Daily Progress Repor

Daily Progress Reports **PHOTOGRAPHS** 







Photo #: 10

Sample EMRS-L2-024, 7+568, o/s -30.9m.



210 excavator preparing density and sample

Scanned by CamScanne

Todays production.

Photo #: 11

Photo #: 9

location.

Photo #: 12





_								
	Date:	Sept 6,	2020	Owner/0	Client:	New Go	ld Inc.	
	Day:	Sunday		OKC Pr	oject #:	1003-1	9	
	Prepared by:	Ted Lin	еу	Project	Location:	Rainy R	iver - Or	ntario
-	Number of Pag	ges in Re	port 5					
ļ	Environment	tal Con	<u>ditions:</u>					
	Morning Condi	tions	Weather	r Cloudy		Precip	oitation	0 mm
	Temperature [ (High/Low)	14	12	Humidity	0 to 20%		Wind	Low
	Afternoon Cond	ditions	Weather	Cloudy		Precip	oitation	0 mm
,	Temperature (High/Low)	21	14	Humidity	0 to 20%		Wind	High
Me	eetina Summ	naries						
vv	ork Location Task Desc	ription	asks L	ocation o	f Work	Equipr	nent & I	Personnel Used
Pu	ushing & placing	g lift 3 NC	L 7+400	- 7+480		155AX (	dozer &	210 excavator
Gr	ading lift 3 NCL	-	7+400	9 - 7+450		D65 doz	zer & 21	0 excavator
K	ey-in Trench Locatio	: n	CCI	_ Contact	Material		Cor	nment





#### **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 Bert Seguin Date: 2020.09.06 19:37:26 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.09.06 19:36:18 -04'00'

## Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





### newgald

Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS** 



Photo #: 5	Endet y: 6
210 excavator assisting with the bulking in of lift 3 NCL.	D65 dozer grading lift 3 NCL +/- 7+445.
Photo #: 7	Photo #: 8
Photo #: 7	Photo #: 8





Date:	Septem	per 7, 2020	Owner/0	Client:	New Go	ld Inc.	
Day:	Monday		OKC Project #:		1003-19		
Prepared by:	Ted Linle	әу	Project	Location:	Rainy Ri	iver - Or	ntario
Number of Pag	es in Rep	oort 6					
Environmental Conditions:							
Morning Condit	ions	Weather	Cloudy		Precip	oitation	0 mm
Temperature (High/Low)	9	7	Humidity	0 to 20%		Wind	High
Afternoon Cond	litions	Weather	Cloudy		Precip	oitation	0 mm
Temperature (High/Low)	11	9	Humidity	0 to 20%		Wind	High
VVORK LOCATION Task Desc	and Ta ription	ISKS L	ocation o	f Work	Equipr	nent & I	Personnel Used
Pushing & placing	lift 3 NC	L 7+450	- 7+490		155AX (	dozer &	210 excavator
Grading lift 3 NCL		7+450	- 7+480		D65 doz	zer & 21	0 excavator
Key-in Trench Location	: n	CCL	. Contact	Material		Cor	nment





#### **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	<b>~</b>		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 :



Digitally signed by Bert Seguin Date: 2020.09.07 21:21:27 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.09.07 21:19:29 -04'00'

# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





### Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





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<image/>	nned by CamScanner	
Photo #: ⁹	Photo #:	
View from Teeple Road.		
Photo #:	Photo #:	<u>:</u>





Date:	Septem	ber 8,2020	Owner/Client:	New Gold	Inc.	
Day:	Tuesday		OKC Project #:	1003-19	1003-19	
Prepared by:	Brysin S	Shaw	<b>Project Location</b>	Rainy Rive	er - On	tario
Number of Pages in Report 5						
Environmental Conditions:						
Morning Condit	tions	Weathe	r Cloudy	Precipit	ation	0 mm
Temperature [ (High/Low)	7	4	Humidity 40 to 60%	5 N	Wind	Still
Afternoon Cond	litions	Weathe	r Showers	Precipit	ation	0 - 5 mm

Temperature [10 (High/Low) 7 Humidity 40 to 60% Still Wind

#### **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	S 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 T	rench: ocation	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			





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 :



Digitally signed by Bert Seguin DN: cn=Bert Seguin, o, ou, email=bert.seguin@newgold.co m, c=CA Date: 2020.09.08 20:33:03 -04'00'

### CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.08 20:31:25 -04'00'

### newg∷ld

Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS** 





### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS





Okane Bore hole permeameter test set up.

Photo #:



Photo #: 6

Moisture content test at 7+528, o/s -67.4m.

Photo #:





Date:	Septem	ber 9, 2020	Owner/0	Client:	New Go	d Inc.	
Day:	Wednes	sday	OKC Pr	oject #:	1003-1	9	
Prepared by:	Brysin S	Shaw	Project	Location:	Rainy Ri	ver - Or	itario
Number of Pag	<u>e</u> s in Re	port					
<u>Environment</u>	<u>al Con</u>	<u>ditions:</u>					
Morning Condit	ions	Weather	Clear		Precip	oitation	0 mm
Temperature (High/Low)	6	0	Humidity	80 to 100%	6	Wind	Low
Afternoon Cond	litions	Weather	Fair		Precip	oitation	0 mm
Temperature (High/Low)	13	6	Humidity	80 to 100%	6	Wind	Low
Meetina Summ	aries						
Work Location Task Desc	and Ta	asks L	ocation o	f Work	Equipr	nent & I	Personnel Used
Pushing & placing	lift 3 NC	L 7+500	to 7+540		155AX (	lozer &	210 excavator
Grading lift 3 NCL							
		7+500	to 7+525		D65 doz	zer & 21	0 excavator





### **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	<b>~</b>			
Layer Thickness Acceptable	✓		+/-0.5m	
Water Content within Acceptable Range				
Density within Acceptable Range				
Corrected Actions Taken				





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.09 20:22:51 -04'00'

### CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.09 20:21:29 -04'00'

# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 









Date:	Septem	ber 10,2020	Owner/0	Client:	New Go	ld Inc.	
Day:	Thursda	ay	OKC Pr	oject #:	1003-1	9	
Prepared b	<b>y:</b> Brysin S	Shaw	Project	Location:	Rainy R	iver - Or	ntario
Number of Pa	ages in Re	port 5					
<u>Environme</u>	ntal Con	<u>ditions:</u>			L		
Morning Con	ditions	Weather	r Clear		Preci	oitation	0 mm
Temperature (High/Low)	10	0	Humidity	40 to 60%		Wind	Moderate
Afternoon Co	nditions	Weather	r Clear		Preci	oitation	0 mm
Temperature (High/Low)	20	10	Humidity	40 to 60%		Wind	Moderate
-	maries						
<u>Meeting Sum</u>							
<u>Meeting Sum</u> Work Locatic Task Des	on and Ta	asks	.ocation o	f Work	Equip	nent &	Personnel Used
<u>Meeting Sum</u> Work Locatic Task Des Assist Okane ins	on and Ta scription	<b>asks</b> L nstall 7+540	ocation o	f Work	Equip PC490	<b>nent &amp;</b> excavat	Personnel Used or & 211 packer
Meeting Sum Work Locatic Task Des Assist Okane ins Grading lift 3 NC	on and Ta scription strument in	<b>asks</b> L nstall 7+540 7+525	ocation o	f Work	Equipe PC490 D65 do	<b>nent &amp;</b> excavat zer	<b>Personnel Used</b> or & 211 packer





### **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	on 🖌		
Visual Inspection	<b>~</b>		
Layer Thickness Acceptable	<b>~</b>		+/-0.3m
Water Content within Acceptable Range	<b>~</b>		
Density within Acceptable Range		✓	to high
Corrected Actions Taken			going to adjust proctor





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.10 20:16:20 -04'00'

CQC Representative:

Brysin Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.10 20:04:08 -04'00'



**PHOTOGRAPHS** 





### newgold

Rainy River EMRS Daily Progress Reports PHOTOGRAPHS



<image/> Photo #: 5	Photo #: 6
Nuclear gauge test on L2 CCL at instrument location.	Instrument Location after L2 CCL.
Photo #:	Photo #:
Photo #:	Photo #:





Date:		Septemb	er 11, 2020	Owner/0	Client:	New Go	d Inc.	
Day:		Friday		OKC Pr	oject #:	1003-1	9	
Prepa	red by	Brysin S	haw	Project	Location:	Rainy Ri	ver - Or	ntario
Numbe	er of Pa	ges in Rep	ort 4					
<u>Envirc</u>	nmen	tal Conc	<u>litions:</u>					
Mornin	g Condi	itions	Weather	Clear		Precip	oitation	0 mm
Tempe (High/	rature ′Low)	12 :	3	Humidity	40 to 60%		Wind	Still
Afterno	on Con	ditions	Weather	Clear		Precip	oitation	0 mm
Tempe (High/	rature ′Low)	20	12	Humidity	40 to 60%		Wind	Low
Meetina	Sumn	naries						
Work Lo	ocatior	n and Ta	sks					
Та	sk Des	cription	L	ocation o	f Work	Equipr	nent & I	Personnel Used
Pushing 8	, placino	g L1 CCL	STA 7	+540 to 7+	⊦600	155AX 8	& D65 d	ozer, PC 490
Pushing 8	k placinę	g L3&L4 N	CL STA 7	+530 to 7+	+550	D65 do	zer & P	C 490 excavator
Bulking L	3 NCL		STA 7	+530		155AX (	dozer	
Key-in ⊺	<b>Frenc</b> h Locatio	1: on	CCI	_ Contact	Material		Со	nment





### **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		$\square$		





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.11 18:48:20 -04'00'

### CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.11 18:48:07 -04'00'

## Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 









Date:	September 12, 2020	Owner/Client:	New Gold Inc.	
Day:	Saturday	OKC Project #:	1003-19	
Prepared by:	Brysin Shaw	Project Location:	Rainy River - Or	ntario
Number of Pag	es in Report 4			
<u>Environment</u>	al Conditions:			
Morning Condit	tions Weathe	r Cloudy	Precipitation	0 - 5 mm
Temperature [ (High/Low)	11 7	Humidity 60 to 80%	Wind	Low
Afternoon Cond	ditions Weathe	r Cloudy	Precipitation	0 mm
Temperature (High/Low)	17 11	Humidity 60 to 80%	Wind	Low
Meeting Summ	aries			
<u>Meeting Summ</u>	aries			
<u>Meeting Summ</u> Work Location Task Desc	aries and Tasks ription L	ocation of Work	Equipment &	Personnel Used

Key-in	Trench:
•	Location

**CCL Contact Material** 

Comment





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### **Description of CCL Material:**

Panel Approval:			
Panel Description			
L	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			





### **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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.12 19:46:45 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.12 19:46:29 -04'00'

### Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 







Photo #: 1 Photo #: 2 Staked off wires running in the L4 NCL from Okane installing SS1P instrument at Sta 7+540. SS1S to SS1P sensor. Photo #: Photo #:





Date:	Septem	per 13, 2020	Owner/0	Client:	New Gol	d Inc.	
Day:	Sunday		OKC PI	roject #:	1003-1	9	
Prepared by:	Brysin S	Shaw	Project	Location:	Rainy Ri	ver - Or	ntario
Number of Pag	es in Re	port 5					
<u>Environment</u>	al Con	<u>ditions:</u>					
Morning Condit	tions	Weather	Clear		Precip	oitation	0 mm
Temperature (High/Low)	7	2	Humidity	40 to 60%		Wind	Low
Afternoon Cond	litions	Weather	Clear		Precip	oitation	0 mm
Temperature (High/Low)	13	7	Humidity	40 to 60%		Wind	Low
	arias						
<u> Meeting Summ</u>							
<u>Meeting Summ</u> Work Location	and Ta	asks					
<u>Meeting Summ</u> Work Location Task Desc	and Ta	asks L	ocation o	f Work	Equipn	nent & I	Personnel Used
<u>Work Location</u> Task Desc Place & pack L1 C	and Ta ription	<b>asks</b> L 7+543	<b>ocation o</b> 3-7+615,o/	<b>f Work</b> ′s -6189	Equipn D65 &1	<b>nent &amp;</b> I 55AX do	<b>Personnel Used</b> ozer, 211 packer
Work Location Task Desc Place & pack L1 C Place & pack L2 C	and Ta ription	<b>asks</b> 7+543 7+542	ocation o 3-7+615,o/ 2-7+615,o/	<b>f Work</b> /s -6189 /s -6187	<b>Equipn</b> D65 &15 D65 &15	n <b>ent &amp;</b> I 55AX do	<b>Personnel Used</b> ozer, 211 packer ozer, 211 packer





### **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 th	e crest/ to	op half of the slope.
		Yes	No	Comment
Material Inspection	Suitable for Construction	✓		
Visual Inspection		✓		
Layer Thickness A	cceptable	<b>~</b>		
Water Content with	nin Acceptable Range	✓		
Density within Acc	eptable Range	<b>~</b>		
Corrected Actions	Taken			





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.13 20:06:42 -04'00'

### CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.13 20:06:31 -04'00'

### Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 







Photo #: 2

211 Packer packing L1 CCL between sta 7+543 & 7+615.

Nuclear gauge test on L1 CCL.



Photo #: 3

Completed L1 CCL between sta 7+543 & 7+615.





211 Packer packing L2 CCL between sta 7+543 & 7+615.



## Rainy River EMRS Daily Progress Reports

Nuclear gauge test on L2 CCL

Photo #:

**PHOTOGRAPHS** 







Photo #: 6

Completed L2 CCL between sta 7+543 & 7+615.

Photo #:





Date:	Septemb	per 14, 2020	Owner/0	Client:	New Gold Ind	С.	
Day:	Monday		OKC Pr	oject #:	1003-19		
Prepared by:	Brysin S	Shaw	Project	Location:	Rainy River	- Onta	ario
Number of Pag	es in Re	port 4					
<u>Environment</u>	al Con	<u>ditions:</u>	<b></b>				
Morning Condit	ions	Weather	Clear		Precipitation	on (	) mm
Temperature ( (High/Low)	10	-2	Humidity	40 to 60%	Wi	nd [	_OW
Afternoon Cond	litions	Weather	Clear		Precipitation	on (	) mm
Temperature (High/Low)	16	10	Humidity	40 to 60%	Wi	nd 🛛	Voderate
Meetina Summ	aries						
Work Location Task Desc	and Ta	asks	ocation o	f Work	Equipment	t & Pe	ersonnel Used
Work Location Task Desc Push and place L3	and Ta ription	<b>asks</b> L 7+514	ocation o -7+552,o/s	<b>f Work</b> s -0.378	Equipment D65,155AX	t & Pe	ersonnel Used r,210 excavator
Work Location Task Desc Push and place L3 Push and place L4	and Ta ription 3 NCL 4 NCL	<b>asks</b> 7+514 7+530	ocation o -7+552,o/s -7+550,o/s	<b>f Work</b> s -0.378 s -0.378	<b>Equipment</b> D65,155AX D65 dozer	t <b>&amp; Pe</b>	ersonnel Used r,210 excavator





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### **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			





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.14 19:07:14 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.14 19:07:00 -04'00'



Photo #:3

D65 dozer pushing L3 NCL.

**PHOTOGRAPHS** 





Duplicate Page

Material being pushed in L3 NCL between sta

Photo #:4

7+543-7+615.







Date:	Septmet	per 15, 2020	Owner/0	Client:	New Go	ld Inc.	
Day:	Tuesday	/	OKC Pr	oject #:	1003-1	9	
Prepared by:	Brysin S	haw	Project	Location:	Rainy R	iver - Or	ntario
Number of Page	es in Re	oort 4					
<u>Environmenta</u>	al Cone	<u>ditions:</u>					
Morning Condition	ons	Weather	Fair		Precip	oitation	0 mm
Temperature [14 (High/Low)	4	8	Humidity	60 to 80%		Wind	Low
Afternoon Condi	tions	Weather	Fair		Precip	oitation	0 mm
Temperature (High/Low)	9	14	Humidity	60 to 80%		Wind	Low
Meeting Summa	aries						
-							
Work Location Task Descr	and Ta iption	asks L	ocation o	f Work	Equipr	nent & I	Personnel Used
Push and place L3	NCL	7+550	to 7+585		D65,15	5AX doz	er,210 excavator

Key-in Trench: Location

**CCL Contact Material** 

Comment





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### **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			





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 DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.15 18:48:20 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.15 18:48:07 -04'00'

### newgood Rainy River EMRS Daily Progress Reports

**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.





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





NCL material that was being used for L3 between sta 7+550 to 7+585.







K	ey-in Trench Locatio	: n	CCI	_ Contact	Material		Cor	nment
N	G Pushing L4 N	CL	STA 7	+400 - +/-	7+415	D65,155A)	X doz	er,210 excavator
N	G placing & sha	ping L3 N	ICL STA 7	+568 - 7+6	514	D65,155A)	K doz	er,210 excavator
W	ork Location Task Desc	and Ta	asks L	ocation o	f Work	Equipme	nt & F	Personnel Used
	eeung Summ							
лл.	(⊓igii/Low) L	arias		·				
		11	9	Humidity	20 to 40%	M	/ind	Moderate
	Afternoon Conc	ditions	Weathe	Fair		Precipita	tion	0 mm
	Temperature (High/Low)	9	5	Humidity	20 to 40%	N	/ind	Moderate
	Morning Condi	tions	Weather	r Fair		Precipita	tion	0 mm
	Environment	tal Con	ditions:					
	Number of Pag	jes in Re	port 4					
	Prepared by:	Brysin S	Shaw	Project	- Location:	Rainy Rive	r - On	itario
	Dav:	Wednes	sdav	OKC Pr	oject #:	1003-19		
	Date:	Septem	per 16 2020	Owner/(	Client:	New Gold I	nc.	





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### **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			




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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry Noga@newgold.c om, c=CA Date: 2020.09.16 19:42:46 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.16 19:41:51 -04'00'

# newgaid Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





Finished section of L3 NCL from sta 7+568 to 7+614, o/s -4 m to - 86m.

Duplicate Page

D155AX dozer pushing L4 NCL down the slope

at +/- sta 7+400.





Nork Location Task Desc	and Ta	asks L	ocation o	f Work	Equipr	nent & I	Personnel Used
leeting Summ	aries						
Temperature (High/Low)	11	6	Humidity	20 to 40%		Wind	Low
Afternoon Cond	litions	Weather	r Clear		Precip	oitation	0 mm
Temperature (High/Low)	6	-4	Humidity	20 to 40%		Wind	Still
Morning Condit	ions	Weathe	r Clear		Precip	oitation	0 mm
Environment	al Con	ditions:					
Prepared by:	Brysin S	Shaw	Project	Location:	Rainy Ri	ver - Or	ntario
Day:	Thursda	у	OKC Pr	oject #:	1003-1	9	
Date:	Septemb	per 17, 2020	Owner/0	Client:	New Go	ld Inc.	

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





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# **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			





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry Noga@newgold.c om, c=CA Date: 2020.09.17 19:20:48 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.17 19:20:33 -04'00'

# newgood Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 









Date:	Septem	ber 18, 2020	Owner/0	Client:	New Go	ld Inc.	
Day:	Friday		OKC Pi	roject #:	1003-1	9	
Prepared by:	Brysin S	Shaw	Project	Location:	Rainy R	iver - Or	ntario
Number of Pag	jes in Re	port 4					
<u>Environment</u>	t <mark>al Con</mark>	<u>ditions:</u>					
Morning Condi	tions	Weather	Clear		Precip	oitation	0 mm
Temperature ( (High/Low)	5	-4	Humidity	80 to 100%	6	Wind	Still
Afternoon Conc	litions	Weather	Cloudy		Precip	oitation	0 - 5 mm
Temperature , (High/Low)	12	5	Humidity	80 to 100%	6	Wind	Low
Meeting Summ	aries						
Work Location	and Ta	asks					
Task Desc	ription	L	ocation o	f Work	Equipr	nent & l	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





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# **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			





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.18 19:51:24 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.18 19:27:09 -04'00'

# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 









Date:	Septemb	oer 19, 2020	Owner/0	Client:	New Go	ld Inc.	
Day:	Saturda	у	OKC Pr	oject #:	1003-1	19	
Prepared by:	Brysin S	Shaw	Project	Location:	Rainy R	iver - Or	ntario
Number of Pag	les in Re	port 4					
<u>Environment</u>	al Con	<u>ditions:</u>	<b></b>				
Morning Condit	tions	Weather	Clear		Preci	pitation	0 mm
Temperature ( (High/Low)	14	10	Humidity	40 to 60%		Wind	Still
Afternoon Cona	litions	Weather	Clear		Preci	pitation	0 mm
Temperature (High/Low)	22	14	Humidity	40 to 60%		Wind	Still
Meetina Summ	aries						
Work Location	and Ta	asks	ocation o	fWork	Equip	mont 8	Porconnol Llood
TASK Desc	nption	L		IWUIK	Equip		Personner Oseu
Pushing & placing	L4 NCL	Sta 7+	439 to 7+	510	D65,15	5AX doz	er,210 excavator
Grading L4 NCL		Sta 7+	439 to 7+4	472	D65 do	zer	





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# **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			





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.19 19:19:49 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.19 19:19:34 -04'00'

# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 









Date:	Septemb	oer 20, 2020	0 Owner/O	Client:	New Go	ld Inc.	
Day:	Sunday		OKC Pr	oject #:	1003-1	19	
Prepared by:	Brysin S	Shaw	Project	Location:	Rainy R	iver - On	itario
Number of Pages in Report 4							
<b>Environment</b>	al Con	<u>ditions:</u>					
Morning Condit	ions	Weath	er Cloudy		Preci	pitation	0 mm
Temperature ( (High/Low)	15	11	Humidity	40 to 60%		Wind	Moderate
Afternoon Cond	litions	Weath	er Cloudy		Preci	pitation	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





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# **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			





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 :

Garry Noga

Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.20 19:56:18 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.20 19:56:08 -04'00'



Rainy River EMRS Daily Progress Reports 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 #:





	Date:	Septem	per 21, 2020	Owner/0	Client:	New Gold	d Inc.	
	Day:	Monday	,	OKC Pr	oject #:	1003-19	)	
	Prepared by	Brysin S	Shaw	Project	Location:	Rainy Riv	/er - Or	ntario
•	Number of Pag	ges in Re	port 4					
E	Environmen	tal Con	<u>ditions:</u>			l		
•	Morning Condi	tions	Weather	r Fair		Precipi	itation	0 mm
-	Femperature [ (High/Low)	15	8	Humidity	40 to 60%		Wind	High
/	Afternoon Con	ditions	Weather	Fair		Precipi	itation	0 mm
-	Femperature (High/Low)	23	15	Humidity	40 to 60%		Wind	High
Me	etina Sumr	naries						
vvc	Task Desc	ription	asks L	ocation o	f Work	Equipm	ient & I	Personnel Used
Pu	shing & placing	g L4 NCL	Sta 7+	-530 to 7+	593	D65 & 1	55AX d	ozer
Gra	ading L4 NCL		Sta 7+	-530 to 7+	564	D65 & 1	55AX d	ozer
На	uling NCL mate	erial	Sta 7+	-530 to 7+	593	785 trucl	k & 700	excavator
Ke	ey-in Trench Locatio	i: n	CCI	_ Contact	Material		Cor	nment





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# **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			





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.09.21 19:44:35 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.09.21 19:44:21 -04'00'

# newgood Rainy River EMRS Daily Progress Reports

**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.





D9 dozer from mine ops smoothing out PAG slope prior to L1 CCL placement.







	Date:	Septemb	per 22, 2020	2020 <b>Owner/Client:</b>		New Gold Inc.			
	Day:	Tuesday		OKC Project #:		1003-19			
	Prepared by:	repared by: Ted Linley		<b>Project Location:</b>		Rainy River - On		ntario	
	Number of Pag	ges in Re	port 5						
Environmental Conditions:									
	Morning Conditions Wea		Weather	er Clear		Precipitation		0 mm	
	Temperature [ (High/Low)	24	6	Humidity	0 to 20%		Wind	Still	
	Afternoon Cond	ditions	Weather	Clear		Precip	oitation	0 mm	
	Temperature (High/Low)	26	24	Humidity	0 to 20%		Wind	Still	
Me	eetina Summ	naries							
W									
Task Description			L	ocation of	Equipment & Personnel Used				
Ρŀ	Placing, Grading L4 NCL 7+		7+564	564 - 7+604		D65 & 155AX Dozer		ozer	
Pushing & Placing L1 CCL 7+62		7+625	5 - 7+655		D65 & 155AX Dozer		ozer		
Sł	naping Rock		7+629	-7+773, o/	′s 3m-42m	155AX I	Dozer &	700 Excavator	
Key-in Trench: Location CC			_ Contact	Material		Cor	nment		





# **Description of CCL Material:**

CCL is a mix of Brena and WMI
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# Panel Approval:

Material was mostly Brer Panel Description WML.		type mate	erial, ligh	nt brown in colour with some
	<u></u>	Yes	No	Comment
Material Inspectior	Suitable for Construction	✓		
Visual Inspection		✓		
Layer Thickness A	•		0.5m L4 NCL, 0.25m L1 CCL	
Water Content with				
Density within Acc				
Corrected Actions	Taken			





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 :



Digitally signed by Garry Noga Date: 2020.09.22 19:42:14 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.09.22 19:41:48 -04'00'



**PHOTOGRAPHS** 







Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS** 



Photo #: 5	<image/>
155AX Dozer pushing and placing L1 CCL +/- 7+635.	D65, 155AX Dozer pushing and placing L1 CCL, 700 Excavator fixing the PAG slopes.
Dhote #	Deete #:
Photo #:	Photo #:





Date:	Septem	ber 23, 2020	Owner/0	Client:	New Go	old Inc.	
Day:	Wednesday		OKC Project #:		1003-19		
Prepared b	Prepared by: Ted Linley		Project Location:		Rainy River - Ontario		
Number of F	Number of Pages in Report 5				•		
Environmental Conditions:							
Morning Cor	nditions	Weather	Clear		Preci	pitation	0 mm
Temperatur (High/Low)	e 15	9	Humidity	0 to 20%		Wind	Low
Afternoon Co	onditions	Weather	Cloudy		Preci	pitation	0 mm
Temperatur (High/Low)	^e 19	15	Humidity	0 to 20%		Wind	Moderate
Meeting Sum	maries						
Haley from O'Ka	ane is on si	te.					
Work Locati Task De	on and Tescription	asks L	ocation o	f Work	Equip	ment & I	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:

			1
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			





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 :



Digitally signed by Garry Noga Date: 2020.09.23 19:17:12 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.09.23 19:16:28 -04'00'



**PHOTOGRAPHS** 







Famely Canstener	
Photo #: 5	Photo #:
L1 CCL placement +/- 7+690.	
Photo #:	Photo #:





Date:	Septem	ber 24, 2020	Owner/0	Client:	New Gold Inc.				
Day:	ay: Thursday		OKC Pr	oject #:	1003-19				
Prepared by	Prepared by: Ted Linley		Project Location:		Rainy River - Ontario				
Number of Pages in Report 6									
Environmental Conditions:									
Morning Condi	Morning Conditions Weather		⁻ Fair		Precipitation	0 mm			
Temperature (High/Low)	17	8	Humidity	0 to 20%	Wind	Low			
Afternoon Con	ditions	Weather	Fair		Precipitation	0 mm			
Temperature (High/Low)	20	17	Humidity	0 to 20%	Wind	Low			
Veeting Summaries									
Task Dese	cription	L	ocation o	f Work	Equipment &	Personnel Used			
Graded & Packed	L1 CCL	7+625	- 7+705		D8T Dozer & 2 ⁻	11 Packer			
Pushing & Placing	g L1 CCL	. 7+702	-7+734		D65 & 155AX D	ozers			
Pushing & Placing	g L2 CCL	. 7+650	- 7+690		D65 & D8T Doz	zers			

**CCL Contact Material** 

Key-in Trench: Location

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 V	WML, dar	k grey a	and some light brown clay mix.
		Yes	No	Comment
Material Inspection	Suitable for Construction	<b>~</b>		
Visual Inspection		✓		
Layer Thickness A	cceptable			0.30m L1 CCL
Water Content with	✓			
Density within Acc	eptable Range	<b>~</b>		
Corrected Actions	Taken			





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 :



Digitally signed by Garry Noga Date: 2020.09.24 19:43:51 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linlev Date: 2020.09.24 19:43:31 -04'00'

# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 




# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





Photo #: 5

Compaction test 507



Scanned by CamScanr

Photo #: 6

Sample EMRS-L1-037



Photo #: 7

211 Packer packing L1 CCL +/- 7+680.



Photo #:8

Compaction test 509.

### newgood Rainy River EMRS Daily Progress Reports okar **PHOTOGRAPHS** Photo #: 9 Photo #: 10 Compaction test 510. Placed L1 CCL +/- 7+ 725. DATE: Sept 24,2024 W.C. CODE: EMRS-LI-038 Photo #: 11 Photo #: Sample EMRS-L1-038.





Date:	September 25, 2020 Owner/Client:		New Gold Inc.					
Day:	Friday		OKC Pr	OKC Project #:		1003-19		
Prepared by:	red by: Ted Linley		Project	<b>Project Location:</b>		iver - On	itario	
Number of Pages in Report 5								
Environmental Conditions:								
Morning Condit	ions	Weathe	er Rain		Preci	pitation	5 - 10 mm	
Temperature ( (High/Low)	14	12	Humidity	20 to 40%		Wind	Low	
Afternoon Cond	litions	Weathe	er Cloudy		Preci	pitation	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	<b>~</b>		
Visual Inspection	<b>~</b>		
Layer Thickness Acceptable	<b>~</b>		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 :



Digitally signed by Garry Noga Date: 2020.09.25 19:31:53 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linlev Date: 2020.09.25 19:31:02 -04'00'



Daily Progress Reports **PHOTOGRAPHS** 





# newgood Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 









Date:	Septem	ber 26, 202	²⁰ Owner/O	Client:	New Gold Inc.		
Day:	Saturda	ıу	OKC Pr	oject #:	1003-1		
Prepared by:	Ted Lin	ley	Project	Project Location: Rainy River			itario
Number of Pages in Report 8							
Environmental Conditions:							
Morning Condit	ions	Weath	er Cloudy		Preci	pitation	0 mm
Temperature ( (High/Low)	15	10	Humidity	0 to 20%		Wind	Moderate
Afternoon Cond	litions	Weath	er Cloudy		Preci	pitation	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	<b>~</b>					
Visual Inspection		✓					
Layer Thickness A	cceptable	✓		L1 & L2 CCL - 0.25m			
Water Content with	nin Acceptable Range	<b>~</b>					
Density within Acce	eptable 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 :



Digitally signed by Andrew Angus Date: 2020.09.26 19:54:03 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linlev Date: 2020.09.26 19:53:40 -04'00'



# NewgoodRainy River EMRSDaily Progress Reports

**PHOTOGRAPHS** 









**PHOTOGRAPHS** 



### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS





newg©ld	Rainy River EMRS Daily Progress Repo PHOTOGRAPHS	S orts <b>okane</b>
	v CreSmark	
Photo #: 17	Photo #:	
Compaction test 809.		
Photo #:	Photo #:	





Date:	Septemb	er 27, 2020	Owner/C	Client:	New Go	ld Inc.	
Day:	Sunday		OKC Pr	oject #:	1003-19		
Prepared by:	Ted Linle	ey 🛛	Project Location:		Rainy R	iver - Or	ntario
Number of Pag	es in Rep	ort 9					
<u>Environment</u>	al Cond	litions:					
Morning Condit	ions	Weather	Clear		Precip	oitation	0 mm
Temperature [ (High/Low)	15 8	3	Humidity	0 to 20%		Wind	Moderate
Afternoon Cond	litions	Weather	Showers		Precip	oitation	0 - 5 mm
Temperature (High/Low)	15	15	Humidity	40 to 60%		Wind	Moderate
O'Kane not on site							
Work Location	and Ta	sks	ocation of	fWork	Fauipr	ment & I	Personnel Used
Placed & graded L	.2 CCL	7+702	- 7+735		D65 & [	D8T Doz	ers
Pushed & placed l	L3 NCL	7+612	- 7+720		D65,D8	T,155 D	ozers, 210 Excava
Pushed and place	d L1 CCL	. 7+740	- 7+775		D65 & [	08T Doz	ers
Key-in Trench Location	: n	CCL	. Contact	Material		Cor	nment





#### **Description of CCL Material:**

CCL is a mix of Brena and WML, dark grey and some light brown clay mix.

#### Panel Approval:

CCL is a mix of WML & Brena, dark grey and some light brown clay mix.						
	L	Yes	No	Comment		
Material Inspection	Suitable for Construction	✓				
Visual Inspection		✓		WML		
Layer Thickness A	cceptable	✓		0.5m L3 NCL, 0.25m L2 CCL		
Water Content with	nin Acceptable Range	✓				
Density within Acc	eptable Range	<b>~</b>				
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 :

Andrew Angus

Digitally signed by Andrew Angus Date: 2020.09.27 19:41:52 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linlev Date: 2020.09.27 19:41:32 -04'00'

### Rainy River EMRS Daily Progress Reports 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.





211 Packing L2 CCL +/- 7+675.



### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS





Photo #: 6

EMRS-L2-045 dig out location.

Compaction test 813.



Sample EMRS-L2-045.





Compaction test 814.

## Rainy River EMRS Daily Progress Reports okar **PHOTOGRAPHS** Photo #: 9 Photo #: 10 210 Excavator leveling a spot for compaction test Compaction test 815. 815. Photo #: 11 Photo #: 12 Compaction test 816. Compaction test 817.

# newgood Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 



MC/Hydrometer CODE: EMRS-12-046 Scanned by CamScar Photo #: 13 Photo #: 14 Sample EMRS-L2-046. EMRS-L2-046 dig out location.

Photo #: 15

Compaction test 818.



D8T pushing & placing L3 NCL +/- 7+650.



Scanned by CamScanner

### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS





Photo #: 18

Compaction test 819.

Photo #: 17





Photo #: 19

Sample EMRS-L2-047.



Photo #: 20

Compaction test 820.

newg©ld	Rainy River EMRS Daily Progress Reports <b>PHOTOGRAPHS</b>	okane
Photo #: 21	by CamScanner Photo #:	
D65, D8T dozers and 210 excavat placing L3 NCL +/- 7+675.	tor pushing and	
Photo #:	Photo #:	





Date:	Septem	ber 28, 2020	Owner/0	Client:	New Go	ld Inc.	
Day:	Monday	1	OKC Pr	oject #:	1003-19		
Prepared by	: Ted Lin	ley	Project	Location:	Rainy R	iver - Or	ntario
Number of Pag	ges in Re	port 7					
<u>Environmen</u>	<u>tal Con</u>	<u>ditions:</u>					
Morning Cond	itions	Weather	r Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	8	7	Humidity	20 to 40%		Wind	Moderate
Afternoon Con	ditions	Weather	Showers	6	Preci	pitation	0 - 5 mm
Temperature (High/Low)	10	8	Humidity	40 to 60%		Wind	Moderate
Work Locatior	n and T	asks					
Task Des	cription	L	ocation o	f Work	Equipr	ment & I	Personnel Used
Placed & graded	L3 NCL	7+612	- 7+680		D65,D8	T,155 D	ozers, 210 Excava
Pushed & placed	L3 NCL	7+680	- 7+730		D65 & ²	155 doze	er
Koy in Tropok							





#### **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 :



Digitally signed by Andrew Angus Date: 2020.09.28 19:13:00 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.09.28 19:12:39 -04'00'



**PHOTOGRAPHS** 





Duplicate Page

L1 CCL. Not to gade.



Daily Progress Reports **PHOTOGRAPHS** 







**PHOTOGRAPHS** 







EMRS-L2-048 sample location, site preparation.



Photo #: 11

EMRS-L2-048 sample location.





Sample EMRS-L2-048.

Duplicate Page

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newg⊘ld	Rainy River EMRS Daily Progress Repo PHOTOGRAPHS	rts okane				
TEST SAM TEST SAM Parti Sept 28,2020 Parti Sept 28,200 Parti Sept 28,	Emisenner	Famet y Carscane				
Photo #: 13	Photo #: 14	Photo #: 14				
Sample EMRS-L2-049.	EMRS-L2-0	49 sample location.				
Dhote #:	Dhoto #:					
Photo #:	Photo #:					





Date:	September 29, 2020	<b>Owner/Client:</b>	New Gold Inc.			
Day:	Tuesday	OKC Project #:	1003-19			
Prepared by:	Ted Linley	<b>Project Location:</b>	Rainy River - On	itario		
Number of Pag	Number of Pages in Report 6					
Environmental Conditions:						
Morning Condit	<i>ions</i> Weather	Clear	Precipitation	0 mm		
Temperature [ (High/Low)	12 8	Humidity 0 to 20%	Wind	Low		
Afternoon Cond	litions 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	Irench: 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 :



Digitally signed by Andrew Angus Date: 2020.09.29 19:11:49 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.09.29 19:11:24 -04'00'



**PHOTOGRAPHS** 





### newgood Rainy River EMRS Daily Progress Repor Daily Progress Reports



**PHOTOGRAPHS** 


Rainy Ri Daily Progr PHOTO	ver EMRS ress Reports <b>Okane</b> GRAPHS
Scanned by CamScanner Photo #: 9	Photo #: 10
EMRS-L3-051 sample location.	D65 dozer pushing L3 NCL 7+635.
Photo #:	Photo #:





Date:	Septembe	er 30, 2020	Owner/C	Client:	New Go	ld Inc.		
Day:	Wednesc	lay	OKC Pr	oject #:	1003-1	1003-19		
Prepared by:	Ted Linle	у	Project	Location:	Rainy R	iver - On	itario	
Number of Pag	es in Rep	ort 5						
<u>Environment</u>	al Cond	<u>itions:</u>						
Morning Condit	ions	Weather	Showers	5	Precip	oitation	0 - 5 mm	
Temperature [{ (High/Low)	3 7	, I	Humidity	20 to 40%		Wind	Moderate	
Afternoon Cond	litions	Weather	Rain		Precip	oitation	5 - 10 mm	
Temperature (High/Low)	3	3 н	Humidity	40 to 60%		Wind	High	
Meeting Summ	arios							
Work Logation and Tasks								
Task Desc	ription	L	ocation of	f Work	Equipr	nent & I	Personnel Used	
Placed & graded L	4 NCL	7+600	- 7+654		D8T, D6	65 Dozei	rs	
Grading toe of slo	ре	7+400	- 7+600		210 exc	avator		
Pushed & placed l	L4 NCL	7+654	- 7+685		D8T, D6	65 Doze	rs	
Key-in Trench Location	: n	CCL	. Contact	Material		Cor	nment	





### **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 N Sticky due to the rain.	VML, dar	k grey a	and some light brown clay mix.
		Yes	No	Comment
Material Inspectior	Suitable for Construction	✓		
Visual Inspection		•		
Layer Thickness A	cceptable	•		0.5m L4 NCL
Water Content with	nin Acceptable Range			
Density within Acc	eptable 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 Garry Noga Date: 2020.09.30 19:31:56 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.09.30 19:31:34 -04'00'



newg©ld	Rainy River EM Daily Progress Re <b>PHOTOGRAPH</b>	RS ports okane s
	a CarGamar	
Photo #: 5	Photo #	
EMRS-L4-052 sample location.		
Dhete #		
Photo #:	Photo #:	





Date:	October	1, 2020	Owner/C	Client:	New Go	ld Inc.		
Day:	Thursda	y	OKC Project #:		1003-1	1003-19		
Prepared by:	Ted Linl	еу	Project	Location:	Rainy R	iver - Or	ntario	
Number of Pag	es in Re	port 4						
<u>Environment</u>	al Cone	<u>ditions:</u>						
Morning Condit	ions	Weather	Cloudy		Precip	oitation	0 - 5 mm	
Temperature (High/Low)	1	2	Humidity	0 to 20%		Wind	Moderate	
Afternoon Cond	litions	Weather	Cloudy		Precip	oitation	0 mm	
Temperature (High/Low)	5	4 I	Humidity	0 to 20%		Wind	Moderate	
Meeting Summ	aries							
O'Kane not on site	•							
Work Location	and Ta	asks						

**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		<b>~</b>	To wet.	
Visual Inspection	✓			
Layer Thickness Acceptable				
Water Content within Acceptable Range				
Density within Acceptable Range				
Corrected Actions Taken	$\Box$			





### **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 :



Digitally signed by Garry Noga Date: 2020.10.01 19:00:11 -04'00'

CQC Representative: Digitally signed by Ted Linley Date: 2020.10.01 Ted Linley 18:59:50 -04'00'



Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS** 



Photo #: 1	Photo #: 2
Clay material, wet and sticky.	Material starting to dry out late in the day.
Photo #:	Photo #:





Date:	October	2, 2020	Owner/0	Client:	New Go	d Inc.	
Day:	Friday		OKC Pr	oject #:	1003-1	9	
Prepared by:	Ted Linl	еу	Project	Location:	Rainy Ri	ver - Or	ntario
Number of Pag	es in Re	port 6					
<u>Environment</u>	al Con	<u>ditions:</u>	<b></b>				
Morning Condit	tions	Weather	Cloudy		Precip	oitation	0 mm
Temperature (High/Low)	3	0	Humidity	0 to 20%		Wind	Low
Afternoon Cona	litions	Weather	Cloudy		Precip	oitation	0 mm
Temperature (High/Low)	5	3 ।	Humidity	0 to 20%		Wind	Low
Meetina Summ	aries						
Work Location	and Ta	asks					
Task Desc	ription	L	ocation o	f Work	Equipr	nent & I	Personnel Used
Placed & graded L	.4 NCL	7+650	- 7+725		D8T, 15	5 Dozer	-S
Pushed & placed I	L1 CCL	7+754	- 0+080		D65 doz	zer, 800	excavator
Key-in Trench Location	: n	CCL	. Contact	Material		Cor	nment





### **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 A	cceptable	<b>~</b>		0.5m L4 NCL, 0.25m L1 CCL		
Water Content with	nin Acceptable Range					
Density within Acc	eptable 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 :



Digitally signed by Bert Seguin Date: 2020.10.02 19:15:33 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.10.02 19:15:07 -04'00'



**PHOTOGRAPHS** 







Photo #: 2

Placement of L1 CCL +/- 7+805.



Photo #: 3

Placement of L1 CCL +/- 7+800.





155 dozer pushing and placing L1 CCL +/- 7+800.





**PHOTOGRAPHS** 







Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS** 



End # 19	Endergrammeter         Protor #: 10
L4 NCL +/- 7+625.	Mine Ops heavy hauler dumping clay.
Photo #:	Photo #:





Date:	October	⁻ 3, 2020	Owner/0	Client:	New Go	ld Inc.	
Day:	Saturda	ıу	OKC Pr	oject #:	1003-1	19	
Prepared by:	Ted Lin	ley	Project	Location:	Rainy R	iver - Or	ntario
Number of Pag	es in Re	port 8					
<u>Environment</u>	al Con	<u>ditions:</u>					
Morning Condit	ions	Weath	er Clear		Preci	pitation	0 mm
Temperature (High/Low)	5	-3	Humidity	0 to 20%		Wind	Still
Afternoon Cond	litions	Weath	er Fair		Preci	pitation	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	S 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 A	cceptable	✓		0.25m L1 CCL			
Water Content with	nin Acceptable Range	•					
Density within Acc	eptable Range	•	•	Maybe, will check again tomo			
Corrected Actions	Taken	<b>~</b>		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 :



Digitally signed by Bert Seguin Date: 2020.10.03 19:39:52 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linlev Date: 2020.10.03 19:38:12 -04'00'

## newgald

Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS** 



THOTE	JONAL 113
Бану сакыра	Farebra Participants for the second sec
Photo #: 1	Photo #: 2
Compaction test 821 at Permeameter location 7+610, o/s 33.0m.	Compaction location of test 821 at Permeameter location 7+610, o/s 33.0m.
<image/>	
Photo #: 3	Photo #:4
211 Packing L1 CCL +/- 7+750.	800 excavator moving clay material for dozer placement.



# newgaid Rainy River EMRS Daily Progress Repor

Daily Progress Reports **PHOTOGRAPHS** 





# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS





Scanned by Cam

Photo #: 14

EMRS-L1-055 dig out location.



Photo #: 15

Photo #: 13

Compaction test 519.

Compaction test 520.





Sample EMRS-L1-055.

### Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS**





EMRS-L1-056 dig out location.



Photo #: 18

Sample EMRS-L1-056.







Date:	October	⁻ 4, 2020	Owner/0	Client:	New Go	ld Inc.	
Day:	Sunday		OKC Pr	oject #:	1003-1	19	
Prepared by: Ted Linley Project I			Location:	Rainy River - Ontario			
Number of Pag	Number of Pages in Report 7						
Environmental Conditions:							
Morning Condit	ions	Weath	er Clear		Preci	pitation	0 mm
Temperature (High/Low)	)	-1	Humidity	0 to 20%		Wind	Low
Afternoon Cond	litions	Weath	er Cloudy		Preci	pitation	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	S 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 A	cceptable	•		0.25m L1 & L2 CCL			
Water Content with	nin Acceptable Range	✓					
Density within Acc	eptable Range	<b>~</b>					
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 :

Bert Seguin Digitally signed by Bert Seguin Date: 2020.10.04 18:52:44 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linlev Date: 2020.10.04 18:52:23 -04'00'

### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS





Compaction retest 518B.

Duplicate Page

Compaction retest 520A.



**PHOTOGRAPHS** 







### newgood Rainy River EMRS Daily Progress Reports okar **PHOTOGRAPHS** 1 TO DATE: Oct 4, 20 MC/Hydromet CODE: EMRSed by CamScann Photo #: 13 Photo #: 14 EMRS-Stockpile-058 dig out location. Sample EMRS-Stockpile-058. Scanned by CamScanne Photo #: 15 Photo #: 16 155 dozer and 800 excavator moving clay D8T dozer grading L2 CCL +/- 7+735. forward for D8T dozer.







Date:	October	⁻ 5, 2020	Owner/0	Client:	New Gold Inc.		
Day:	Monday		OKC Project #:		1003-19		
Prepared by: Ted Linley		<b>Project Location:</b>		Rainy River - Ontario			
Number of Pag	es in Re	port 8			•		
<u>Environment</u>	al Con	<u>ditions:</u>			_		
Morning Condit	ions	Weather	Clear		Preci	oitation	0 mm
Temperature (High/Low)	13	9	Humidity	0 to 20%		Wind	Low
Afternoon Cond	litions	Weather	Showers		Preci	oitation	0 - 5 mm
Temperature (High/Low)	14	13	Humidity	20 to 40%		Wind	Moderate
eeting Summaries							
)'Kane on site. Ins ompaction tests w	talled Bl /here pe	P 4. Issues	with Lift 1 llow NG to	CCL densit place L2 C	ties and v CCL.	vater co	ntent, extra

Work Location and Tasks Task Description	S 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 A	cceptable	•		0.25m L2 CCL			
Water Content with	nin Acceptable Range	•					
Density within Acc	eptable Range	<b>~</b>					
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 :



Digitally signed by Bert Seguin Date: 2020.10.05 19:14:00 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linlev Date: 2020.10.05 19:13:38 -04'00'

## Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





Photo #: 2

Compaction test 525.



Photo #: 3

Photo #: 1

Compaction test 524.

Sample EMRS-L1-059.





EMRS-L1-059 dig out location.

# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





Photo #: 6

Compaction test 527.



Photo #: 7

Photo #: 5

Compaction test 526.

Sample EMRS-L1-060.





EMRS-L1-060 dig out location.
### newgald Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS**



Photo #: 9 Photo #: 10 Compaction test 528. EMRS-L1-061 dig out location. Det 5, 2020 meter Attrber

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Photo #: 11

Sample EMRS-L1-061.





210 excavator at key trench, 155 dozer grading L2 CCL, 211 packer packing L2 CCL.





**PHOTOGRAPHS** 





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<image/> <image/>	VamSanner		
Photo #: 17		Photo #:	
Compaction test BP4 822 .			
		Dhoto #i	
Photo #:	[	Photo #:	





	Date:	October 6, 2020		Owner/Client:		New Gold Inc.			
	Day:	Tuesday	/	OKC Pr	oject #:	1003-19			
	Prepared by:	Brysin S	Shaw	Project	Location:	Rainy River - O		ntario	
	Number of Pag	es in Re	port 7						
	<u>Environment</u>	al Con	<u>ditions:</u>						
	Morning Condit	tions	Weather	Fair		Precipitation		0 mm	
	Temperature (High/Low)	10	4 I	Humidity	60 to 80%		Wind	Still	
	Afternoon Cond	litions	Weather	Showers	;	Precip	oitation	0 - 5 mm	
	Temperature (High/Low)	15	10	Humidity	60 to 80%		Wind	Moderate	
M	eeting Summ	aries							
w	ork Location Task Desc	and Ta	asks L	ocation o	f Work	Equipr	nent & I	Personnel Used	
ΡI	aced & graded L	2 CCL	7+778	- 0+104		D8T, D65,155 dozer		lozer	
PI	aced & graded L	_1 CCL	0+008	- 0+118		210 excavator			
Pa	acking		L1 and	I L2 CCL		211 pac	ker		
K	ey-in Trench Location	: n	CCL	. Contact	Material		Сог	nment	
0+	008 - 0+118		Mainly	Bedrock		Rolling I	BR w∕c	lay 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 was L2 CCL. CCL material most likely a WML, dark grey with some light Panel Description 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	<b>~</b>		.25m L2 CCL
Water Content within Acceptable Range	•		
Density within Acceptable Range	<b>~</b>		
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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.06 20:07:04 -04'00'

#### CQC Representative:

Brysin Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.06 20:06:47 -04'00'

**PHOTOGRAPHS** 





**PHOTOGRAPHS** 





Sample location for EMRS-L2-062

Photo #: 6

Compaction test 824



Photo #: 7

Compaction test 825





Sample location for EMRS-L2-063

### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS





Photo #: 10

Panel of L2 CCL being compacted.





D65 dozer pushing L2 CCL

Compaction test 826





210 packer packing L1 CCL in key trench between +/- 0+008 to 0+120

### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS









Date:	October 7, 2020	Owner/Client:	New Gold Inc.			
Day:	Wednesday	OKC Project #:	1003-19			
Prepared by: Brysin Shaw		Project Locatior	Rainy River - O	ntario		
Number of Pag	ges in Report 4					
<u>Environment</u>	tal Conditions	<u> </u>	_			
Morning Condi	<u>tions</u> Wea	ather Fair	Precipitation	0 - 5 mm		
Temperature (High/Low)	8 5	Humidity 60 to 809	% Wind	Low		
Afternoon Conc	ditions Wea	ther Cloudy	Precipitation	0 - 5 mm		
Temperature , (High/Low)	11 8	Humidity 60 to 809	% Wind	Moderate		
leeting Summaries						
Nork Location Task Desc	and Tasks	Location of Work	Equipment &	Personnel Used		
Stockpile material	+/	- sta 7+850 corner	D155 & D65 do	zer		

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 Construc	tion				
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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry Noga@newgold.c om, c=CA Date: 2020.10.07 18:47:24 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.07 18:47:03 -04'00'



**PHOTOGRAPHS** 









Photo #: 3

D155 and D65 dozer cleaning up and stock piling material





Komatsu 830 delivering clay material.







Date:	October	8 2020	Owner!(	Client:	New Go	ld Inc		
Dav:	Thursda	0, 2020 av	OKC Pr	OKC Project #:		1003-19		
Prepared by:	Brysin S	Shaw	Project Location:		Rainy R	Rainy River - Ontario		
Number of Pac	les in Re	port 5			ļ			
Environment	tal Con	ditions:						
Morning Conditions Weathe			· Fair		Precipitation		0 mm	
Temperature (High/Low)	8	-2	Humidity	40 to 60%		Wind	Still	
Afternoon Conc	rnoon Conditions Weather		· Fair		Preci	pitation	0 mm	
Temperature (High/Low)	14	10	Humidity	40 to 60%		Wind	Low	
Meetina Summ	aries							
Work Location Task Desc	and Ta	asks						
Placed & graded I	•	L	ocation o	f Work	Equipr	nent & I	Personnel Used	
	L3 NCL	7+733	ocation o - 7+756	f Work	<b>Equip</b> r D8T & I	<b>ment &amp;</b> l D65 doz	Personnel Used er	
Pushed & placed	_3 NCL L3 NCL	۲+733 7+756	ocation o - 7+756 - 7+806	f Work	Equipr D8T & I 210 exc	ment & I D65 doz cavator &	Personnel Used er & D155 dozer	





#### **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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry Noga@newgold.c om, c=CA Date: 2020.10.08 19:05:49 -04'00'

#### CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.08 19:05:38 -04'00'

**PHOTOGRAPHS** 





EMRS-L3-065 sample location.

**PHOTOGRAPHS** 





Photo #: 6

EMRS-L2-066 sample location.

EMRS-L2-067 sample location



Photo #: 7

D65 and D8T dozer grading L3 NCL





210 excavator bulking L3 NCL material to D155 dozer.







Date:	October 9, 2020			<b>Owner/Client:</b>		New Gold Inc.		
Day:	Friday			OKC Project #:		1003-19		
Prepared by:	Brysin Shaw			Project Location:		Rainy River - Ontario		
Number of Pages in Report 7								
<b>Environment</b>	al Con	<u>ditions:</u>						
Morning Condit	ions	Weath	er	Clear		Preci	pitation	0 mm
Temperature ( (High/Low)	13	7	F	lumidity	40 to 60%		Wind	Low
Afternoon Cond	litions	Weath	er	Fair		Preci	pitation	0 mm
Temperature (High/Low)	19	13	F	lumidity	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	S 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:**

Panels moisture seemed wet of optimum even though it has been exposed Panel Description 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	<b>~</b>		
Visual Inspection	✓		
Layer Thickness Acceptable	<b>~</b>		+/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 bushed 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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.09 20:20:17 -04'00'

#### CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.09 20:20:07 -04'00'

**PHOTOGRAPHS** 







**PHOTOGRAPHS** 





Photo #: 6

Compaction test 831.



Photo #: 7

EMRS-L2-069 sample location.



Photo #:8

Compaction test 832.



**PHOTOGRAPHS** 





210 excavator bulking material to D155 dozer.

### newg©ld

Rainy River EMRS Daily Progress Reports PHOTOGRAPHS



<image/> Photo #: 13	<image/>
Section where PAG slope toe was pushed to far.	401 Dozer fixing up PAG slope.
Photo #: 3	Photo #:4
Photo #: 3	Photo #:4





Date:	<b>Date:</b> October 10, 2020		Owner/Client:		New Gold Inc.			
Day:	ay: Saturday		OKC Project #:		1003-19			
Prepared by:	Prepared by: Brysin Shaw		Project Location:		Rainy River - Ontario			
Number of Pages in Report 7								
<u>Environment</u>	al Con	<u>ditions:</u>						
Morning Conditions Weathe			Fair		Precipitation		0 mm	
Temperature ( (High/Low)	9	5	Humidity	40 to 60%		Wind	Low	
Afternoon Conc	litions	Weather	Clear		Precipitation		0 mm	
Temperature , (High/Low)	11	9	Humidity	40 to 60%		Wind	Moderate	
Meeting Summ	aries							
Task Desc	ription	L	ocation o	f Work	Equipn	nent & I	Personnel Used	
Placed & graded L3 NCL 7+769			- 7+843		D8T & D155 dozer			
Pushed & placed	L3 NCL	7+843	- 0+117	0+117		avator 8	& D155 dozer	
Key-in Trench Location	: n	CCI	_ Contact	Material		Cor	nment	





#### **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 was dryer then it was yesterday when packed. Equipment could drive Panel Description 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	<b>~</b>		
Visual Inspection	<b>~</b>		
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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.10 19:05:30 -04'00'

CQC Representative:

Brysin Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.10 19:05:19 -04'00'

**PHOTOGRAPHS** 





**PHOTOGRAPHS** 





Photo #: 6

Compaction test 835.



Photo #: 7

Photo #: 5

EMRS-L2-072 sample location.

EMRS-L2-073 sample location.



Photo #:8

Compaction test 836.

### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS





Photo #: 10

Compaction test 837.



Photo #: 11

EMRS-L2-075 sample location.

EMRS-L2-074 sample location.



Photo #: 12

Compaction test 838.

**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.

Dhoto #:		





	Date:	October	11, 2020	11, 2020 <b>Owner/Client:</b>		New Gold Inc.		
	Day:	Sunday		OKC Project #:		1003-19		
	Prepared by:	Brysin Shaw		<b>Project Location:</b>		Rainy River - Ontario		ntario
	Number of Pag	es in Rep	oort 5					
I	Environmental Conditions:							
	Morning Condit	tions	Weather	Cloudy		Preci	oitation	0 - 5 mm
	Temperature ( (High/Low)	9	5 H	lumidity	40 to 60%		Wind	High
	Afternoon Cond	litions	Weather	Cloudy		Preci	oitation	Choose from list
	Temperature (High/Low)	14	9 +	lumidity	40 to 60%		Wind	High
Me	eting Summ	aries						
w	Work Location and Tasks Task Description Location of Work Equipment & Personnel Used							
Pl	aced & graded L	aded L3 NCL 0+015		- 0+116		D8T & 210 excavator		avator
Ρι	Ished & placed l	L4 NCL	7+733	- 7+775		D8T an	d D155 (	dozer
K	ey-in Trench Location	: n	CCL	Contact	Material		Cor	nment
0+	120 - 0+0129		Bedroc	k		Excavat	ed on O	ct 6, 2020





#### **Description of CCL Material:**

No CCL material placed today.							
Panal Approval:							
				]			
Panel Description							
	Yes	No	Comment				
Material Inspection Suitable for Construc	ction						
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 DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.11 18:37:23 -04'00'

#### CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.11 18:37:12 -04'00'
# newgood Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 







Photo #: 2

Photo #: 1

NG construction haul truck delivering clay material.

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.





**PHOTOGRAPHS** 







Photo #: 6

D155 dozer pushing L4 NCL material.

Photo #: 5

Photo #:

Panel of L4 NCL NG started placing.

Photo #:





Date:	October 13, 2020	Owner/0	Client:	New Gold Inc.	
Day:	Tuesday	OKC Pr	oject #:	1003-19	
Prepared by:	Brysin Shaw	Project	Location:	Rainy River - 0	Ontario
Number of Pag	es in Report 4				
<u>Environment</u>	al Conditions:				
Morning Condit	tions Weathe	r Showers	6	Precipitatior	0 - 5 mm
Temperature [ (High/Low)	7 5	Humidity	20 to 40%	Wind	Moderate
Afternoon Cond	litions Weathe	r Fair		Precipitatior	n 0 mm
Temperature (High/Low)	10 7	Humidity	20 to 40%	Wind	J High
Meeting Summ	aries				
Work Location Task Desc	and Tasks ription L	_ocation o	f Work	Equipment &	& Personnel Used
N/A	N/A			N/A	
Kow in Tronch					
rey-in irench	•				





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.13 19:43:33 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.13 19:43:18 -04'00'

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Photo #:  Photo #:    Image: Constraint of the second secon
Photo #:
Photo #:  Photo #:
Photo #: Photo #:





Date:	Octobe	⁻ 14, 2020	Owner/0	Client:	New Go	d Inc.		
Day:	Wednes	sday	OKC Pr	oject #:	1003-1	1003-19		
Prepared by	Brysin S	Shaw	Project	Location:	Rainy Ri	ver - Or	ntario	
Number of Pag	ges in Re	port 4						
<u>Environmen</u>	<u>tal Con</u>	<u>ditions:</u>						
Morning Condi	tions	Weather	Rain		Precip	oitation	5 - 10 mm	
Temperature ( (High/Low)	5	3	Humidity	80 to 100%	6	Wind	Low	
Afternoon Con	ditions	Weather	Choose	from list	Precip	oitation	5 - 10 mm	
Temperature (High/Low)	7	5	Humidity	80 to 100%	6	Wind	Moderate	
Meetina Summ	naries							
Work Locatior Task Desc	n and Ta	asks L	ocation o	f Work	Equipr	nent & I	Personnel Lised	
N/A							l el sonnel Oseu	
		N/A			N/A			
		N/A			N/A		r ersonner oseu	





No CCL material placed today.						
Panal Approval:						
				]		
Panel Description						
	Yes	No	Comment			
Material Inspection Suitable for Construc	tion					
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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry Noga@newgold.c om, c=CA Date: 2020.10.14 19:48:29 -04'00'

#### CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.14 19:47:28 -04'00'

newg@ld	Rainy Ri Daily Progr <b>PHOTO</b>	ver EMRS ess Reports <b>GRAPHS</b>	okane
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Photo #:		Photo #:	





Date:							
1 _	October	⁻ 15, 2020	Owner/0	Client:	New Gold Inc.		
Day:	Thursda	ау	OKC Project #:		1003-19		
Prepared by	: Brysin S	Shaw	Project	Location:	Rainy River - O	ntario	
Number of Pa	ges in Re	port 4					
<u>Environmer</u>	ntal Con	<u>ditions:</u>					
Morning Cond	litions	Weathe	r Clear		Precipitation	0 mm	
Temperature (High/Low)	0	-3	Humidity	40 to 60%	Wind	Low	
Afternoon Cor	ditions	Weathe	r Fair		Precipitation	0 mm	
Temperature (High/Low)	5	0	Humidity	40 to 60%	Wind	Moderate	
leeting Sumr	naries						
Vork Locatio Task Des	n and Ta cription	asks L	ocation o	f Work	Equipment &	Personnel Used	
Vork Locatio Task Des I/A	n and Ta cription	asks L N/A	ocation o	f Work	<b>Equipment &amp;</b> N/A	Personnel Used	
Vork Locatio Task Des I/A Key-in Trenc	n and Ta cription	<b>asks</b> L N/A	ocation o	f Work	<b>Equipment &amp;</b> N/A	Personnel Used	





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 :



Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.15 19:15:10 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.15 19:14:57 -04'00'

newg@ld	Rainy Ri Daily Progr <b>PHOTO</b>	ver EMRS ess Reports <b>GRAPHS</b>	okane
Photo #:		Photo # [.]	
Photo #:		Photo #:	





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 Pag	es in Report 5		
<u>Environment</u>	al Conditions:		
	· · · · · · · · · · · · · · · · · · ·		

Morning Conditions	Weath	er Snow		Preci	pitation	> 30 mm
Temperature (High/Low)	-3	Humidity	40 to 60%		Wind	Still
Afternoon Conditions	Weath	er Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	-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.





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 Compl	leted:	
No testing or sampling completed too	day.	
Work Location and Task:		
lask 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 :

Garry Noga

Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.16 19:22:46 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.16 19:22:32 -04'00'



**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.



# newg©ld

Rainy River EMRS Daily Progress Reports **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 #:





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	Weath	ner Fair		Preci	pitation	0 mm
Temperature (High/Low)	-3	Humidity	40 to 60%		Wind	Still
Afternoon Conditions	Weath	ner Clear		Preci	pitation	0 mm
Temperature 3 (High/Low)	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.





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:
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 :

Garry Noga

Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.17 19:26:22 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.17 19:26:04 -04'00'



Rainy River EMRS Daily Progress Reports PHOTOGRAPHS



	<image/>
Photo #: 1	Photo #: 2
Section of L3 NCL NG will be placing L4 NCL on next.	Panel of L3 NCL from +/- 0+040 to 0+116.
Depte #	Dhote #:
Photo #:	Photo #:





Date:	October	18, 2020	(	Owner/C	lient:		New G	iold Inc.	
Day:	Sunday		(	<b>OKC</b> Pro	ject #:		1003-1	19	
Prepared by:	Brysin S	Shaw	F	Project L	ocation:		Rainy	River - C	Ontario
Number of Pag	Number of Pages in Report 4								
Environment	tal Cond	<u>ditions:</u>							
Morning Conditions Weather Snow Precipitation > 30 mm							> 30 mm		
Temperature [	-2	-3	Н	umidity	40 to 60%	— %		Wind	Low

Afternoon Conditions	Weath	ner Cloudy	Precipitation	0 mm
Temperature (High/Low)	-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.





No CCL material was placed today.						
Panel Approval:						
Panel Description						
L	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 Compl	leted:	
No testing or sampling completed too	day.	
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 :

Garry Noga

Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.18 19:20:50 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.18 19:20:25 -04'00'



Daily Progress Reports **PHOTOGRAPHS** 









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 Pag	ges in Report 4		
Environment	tal Conditions:		
Morning Condi	<i>tions</i> Weathe	r Snow	Precipitation > 30 mm
Temperature [			

(High/Low) ⁻²	-3	Humidity	40 to 60%		Wind	Low
Afternoon Conditions	Weath	ner Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	-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.





No CCL material was placed today.				
Panel Approval:				
Panel Description				
L	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 Complete	<u>eted:</u>	
No testing or sampling completed tod	lay.	
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 :

Garry Noga

Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.18 19:20:50 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.18 19:20:25 -04'00'



Daily Progress Reports **PHOTOGRAPHS** 









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	Weath	ner Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	-4	Humidity	40 to 60%		Wind	Still
Afternoon Conditions	Weath	ner Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	-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.





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 :

Garry Noga

Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.19 19:17:53 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.19 19:17:36 -04'00'



**PHOTOGRAPHS** 





Section of L3 NCL before the snow was removed



Comp L3-NCL-MC (chk 1)

Photo #: 2



Photo #: 3

Photo #: 1

EMRS-L3-079 sample location



Photo #:4

Comp L3-NCL-MC (chk 2)

# newgood Rainy River EMRS Daily Progress Reports

**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.




Photo #: 10
Area of stockpiled NCL material.
Photo #:





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	Weath	ner Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	-4	Humidity	40 to 60%		Wind	Still
Afternoon Conditions	Weath	ner Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	-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 :

Garry Noga

Digitally signed by Garry Noga DN: cn=Garry Noga, o, ou, email=Garry.Noga@newgold.c om, c=CA Date: 2020.10.19 19:17:53 -04'00'

CQC Representative:

**Brysin** Shaw

Digitally signed by Brysin Shaw DN: cn=Brysin Shaw, o, ou, email=brysin.shaw@hotmail.co m, c=CA Date: 2020.10.19 19:17:36 -04'00'



**PHOTOGRAPHS** 





Section of L3 NCL before the snow was removed



Comp L3-NCL-MC (chk 1)

Photo #: 2



Photo #: 3

Photo #: 1

EMRS-L3-079 sample location



Photo #:4

Comp L3-NCL-MC (chk 2)

# newgood Rainy River EMRS Daily Progress Reports

**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.





Phote # 9	Thete # 10
Photo #: 9	Photo #: 10
Stockpile of NCL on the slope crest.	Area of stockpiled NCL material.
Photo #:	Photo #:





	1		-
Date:	October 20, 2020	<b>Owner/Client:</b>	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	Weath	ner Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	-12	Humidity	0 to 20%		Wind	Still
Afternoon Conditions	Weath	ner Snow		Preci	pitation	0 - 5 mm
Temperature (High/Low)	-2	Humidity	80 to 100%	6	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	ICL is a mix of Brena and N	WML, dar	k grey a	nd some light brown c	lay mix.
L		Yes	No	Comment	
Material Inspection S	Suitable for Construction	✓			
Visual Inspection		✓			
Layer Thickness Acc	ceptable	✓		0.5m L4 NCL	
Water Content withir	Acceptable Range				
Density within Accep	otable Range				
Corrected Actions Ta	aken				





## **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 -9012	D8T, D65, 155 dozers
Pushed & placed L4 NCL	7+800-0+060 o/s -863	D8T, D65, 155 dozers
Key-in Trench:		

CCL Contact Material

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Location



Digitally signed by Garry Noga Date: 2020.10.20 19:33:49 -04'00'

CQC Representative: Digitally signed by Ted Linley Date: 2020.10.20 Ted Linley 19:33:26 -04'00'

Comment



PHOTOGRAPHS





# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 







Photo #: 6

D8 & 155 dozers pushing and grading L4 NCL +/- 7+770.



Temperature of newly placed L4 NCL 7+753,

Photo #: 7

Photo #: 5

o/s -58.9m.

D65 dozer pushing L4 NCL +/- 7+760.





Temperature of existing placed L3 NCL 0+053, o/s -58.9m.





**PHOTOGRAPHS** 





## newgaid Rainy River EMRS Daily Progress Report oka Daily Progress Reports **PHOTOGRAPHS** Scanned by CamScanner Photo #: 13 Photo #: 14 Sample taken EMRS-L4-081. Moisture content D65, 155, D8 dozers pushing & grading L4 NCL +/- 7+800. and Hydrometer. Photo #: Photo #:





Date:	October 21, 2020	<b>Owner/Client:</b>	New Gold Inc.
Day:	Wednesday	OKC Project #:	1003-19
Prepared by:	Ted Linley	Project Location:	Rainy River - Ontario
Number of Pag	es in Report 7		

### **Environmental Conditions:**

Morning Conditions	Weath	ner Cloudy	,	Preci	pitation	0 mm
Temperature (High/Low)	-2	Humidity	40 to 60%		Wind	Low
Afternoon Conditions	Weath	ner Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	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.				
<u>Panel Approval:</u>				
Panel Description	d WML, dar	k grey a	and some light brown clay r	nix.
	Yes	No	Comment	
Material Inspection Suitable for Construction	✓			
Visual Inspection	•			
Layer Thickness Acceptable	<b>~</b>		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 Garry Noga Date: 2020.10.21 19:38:01 -04'00'

CQC Representative: Digitally signed by Ted Linley Date: 2020.10.21 Ted Linley 19:37:24 -04'00'



**PHOTOGRAPHS** 





# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 







**PHOTOGRAPHS** 







Photo #: 13	Photo #: 14
Sample taken EMRS-L4-083. Moisture content.	D8T & 155 dozers pushing L4 NCL material +/- 0+030.
Fhoto #: 15 D65 & D8T dozers grading L4 NCL +/- 0+055.	Photo #:





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	Weath	ner Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	-4	Humidity	40 to 60%		Wind	Low
Afternoon Conditions	Weath	ner Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	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 Approva	<u>l:</u>				]
Panel Description	NCL is a mix of Brena and V Very very sticky.	WML, dar	k grey a	and some light brown clay mix	
	L	Yes	No	Comment	
Material Inspectior	Suitable for Construction	✓			
Visual Inspection		<b>~</b>			
Layer Thickness A	cceptable	<b>~</b>		0.5m L4 NCL	
Water Content with	nin Acceptable Range				
Density within Acc	eptable 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:		

CCL Contact Material

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Location



Digitally signed by Andrew Angus Date: 2020.10.22 19:23:57 -04'00'

CQC Representative: Digitally signed by Ted Linley Date: 2020.10.22 Ted Linley 19:23:30 -04'00'

Comment





<image/>	
Photo #: 1	Photo #: 2
Snow being cleared off prior to placing L4 NCL +/- 0+070.	Snow cleared off prior to placing L4 NCL +/- 0+100.
Photo #: 3	Photo #: 4
155 & D8T dozers pushing L4 NCL material, to be pushed down the slope +/- 0+080.	Sample taken EMRS-L4-086. Moisture content.





Temperature of newly placed L4 NCL 0+056,



Photo #: 5

o/s -21.6m.

D65 and D8T dozers placing L4 NCL +/- 0+080.



Temperature of existing L3 NCL 0+069,



Photo #: 6

o/s -24.7m.

Sample taken EMRS-L4-087, moisture content & hydrometer.







**PHOTOGRAPHS** 



Photo #: 14

Photo #:

stuck on the slope.

211 packer struggling and eventually getting



Photo #: 15

Photo #: 13

211 packer stuck. NG tried going forward and reverse. Stuck both directions.

Packed surface after 1 pass.

Duplicate Page

Page 7





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	Weath	ner Clear		Preci	pitation	0 mm
Temperature (High/Low)	-3	Humidity	0 to 20%		Wind	Still
Afternoon Conditions	Weath	ner Snow		Preci	pitation	0 - 5 mm
Temperature (High/Low)	-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 Approva	<u>L:</u>				
Panel Description	NCL is a mix of Brena and V Very very sticky.	WML, dar	⁺k grey a	and some light brown clay r	mix.
	L	Yes	No	Comment	
Material Inspection	Suitable for Construction	✓			
Visual Inspection		✓			
Layer Thickness A	cceptable	<b>~</b>		0.5m L4 NCL	
Water Content with	nin Acceptable Range	✓			
Density within Acc	eptable 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 0m77m	D65, 155 dozers
Placed L4 NCL	0+095-0+110 o/s -50m72	D65, 155 dozers
Key-in Trench:		

CCL Contact Material

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :

Location



Digitally signed by Garry Noga Date: 2020.10.23 19:25:37 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linlev Date: 2020.10.23 19:25:09 -04'00'

Comment



**PHOTOGRAPHS** 





# newgood Rainy River EMRS Daily Progress Reports

**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.





Todays placement at 0+090.



# Rainy River EMRS Daily Progress Reports okar **PHOTOGRAPHS** Photo #: 9 Photo #: 10 Sample taken EMRS-L4-090, moisture content & Temperature of newly placed L4 NCL 0+094, hydrometer. o/s -60.7m. Material was hauled in last night. Photo #: Photo #:





Date:	October 24, 2020		(	Owner/C	lient:	New Gold Inc.		
Day:	Saturday		(	OKC Pro	ject #:	1003-19		
Prepared by:	Ted Linley		F	Project L	ocation:	Rainy River - Ontario		
Number of Pages in Report 6								
Environmental Conditions:								
Morning Conditions Weather		er	Cloudy		Precipitation 0 mm			
Temperature [ (High/Low)	-3	-6	Н	umidity	Choose fro	om List	Wind	Moderate

		4			1	
Afternoon Conditions	Weath	ner Snow	Precipitation			0 - 5 mm
Temperature (High/Low)	-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 Approva	<u>l:</u>						
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.						
	<u></u>	Yes	No	Comment			
Material Inspectior	Suitable for Construction	✓					
Visual Inspection		✓					
Layer Thickness A	cceptable	✓		0.5m L4 NCL			
Water Content wit	nin Acceptable Range						
Density within Acc	eptable 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 mm	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 :



Digitally signed by Andrew Angus Date: 2020.10.24 19:25:41 -04'00'

CQC Representative: Digitally signed by Ted Linley Date: 2020.10.24 Ted Linley 19:25:23 -04'00'

## Rainy River EMRS Daily Progress Reports okar **PHOTOGRAPHS** Photo #: 2 Photo #: 1 Snow cleared off prior to placing L4 NCL Temperature of newly placed L4 NCL 0+109, +/- 0+120. o/s -54.7m. Photo #: 3 Photo #:4 Sample taken EMRS-L4-091. Moisture content. Todays L4 NCL placement with D65 at +/- 0+100.



**PHOTOGRAPHS** 







Daily Progress Reports **PHOTOGRAPHS** 









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	r Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	-6	Humidity	0 to 20%		Wind	Moderate
Afternoon Conditions	Weather	r Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	-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	anel 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 A	cceptable	<b>~</b>		0.25m, Trial 1 - 2, L1 CCL				
Water Content with	nin Acceptable Range							
Density within Acce	eptable 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

CCL Contact Material

By signing below I agree that the above statements are an accurate representation of the days events.

CQA / New Gold Representative :



**Key-in Trench:** 

Location

Digitally signed by Andrew Angus Date: 2020.10.25 19:37:27 -04'00'

CQC Representative: Digitally signed by Ted Linley Date: 2020.10.25 Ted Linley 19:37:08 -04'00'

Comment



**PHOTOGRAPHS** 





# Rainy River EMRS Daily Progress Reports oka **PHOTOGRAPHS** anned by CamScani Photo #: 5 Photo #: 6 Temp -4C. Showing the rolled up and pick up Temp -4C. Showing the rolled up and pick up area from the packer. area from the packer.

Photo #:7

Temp -4C. Showing the rolled up and pick up area from the packer.



Temp -4C. Showing the rolled up and pick up area from the packer.



### Rainy River EMRS Daily Progress Reports PHOTOGRAPHS







**PHOTOGRAPHS** 





newg©ld [™] □	Rainy River EMRS aily Progress Reports <b>PHOTOGRAPHS</b>	okane
Photo #: 17	Photo #:	
Sample taken T3-EMRS-L1-094, mois content & hydrometer.	sture	
Photo #:	Photo #:	





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	Weath	er Fair		Preci	pitation	0 mm
Temperature (High/Low)	-7	Humidity	0 to 20%		Wind	Low
Afternoon Conditions	Weath	er Fair		Preci	pitation	0 mm
Temperature (High/Low)	-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				
√isual 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 :



Digitally signed by Garry Noga Date: 2020.10.26 18:33:07 -04'00'

CQC Representative: Digitally signed by Ted Linley Ted Linley Date: 2020.10.26 18:32:44 -04'00'

# newgald Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





## Rainy River EMRS Daily Progress Reports **PHOTOGRAPHS**



Finite de la factoria	
Photo #: 5	Photo #
Sample taken in the stockpiles EMRS-SP-098, moisture content & hydrometer.	Sample moistur

Photo #:

ŧ: 6

e taken in the stockpiles EMRS-SP-099, re content & hydrometer.

Photo #:

Appendix E

**Tulloch Density Records** 

	Gauge Info	Gauge Standard Readings											
Make:	Humbolt					Cali (I	brati [:] ield)	on	F	Referenc (Factory	e )	D	ifference (%)
Model:	5001C		l Star	Density Idard (DS	): 2	2528			2544	1		0.63	
Serial #:	1658		N Stan	Moisture Standard (MS): 464 476 2.5								52	
Activity:													Proctor
,		Pro	ject Na	me: New	Gold I	nc							Data
		Con	itract N	o: 1003-1	19			Dat	e: Augu	ist 30, 20	020		MDD: 1447
		Material Tested: Clay (CCL) Tech: Ted Linley									OMC:28.5		
Test No.	Test Location:	Elev	Elevation Depth MC DC WD DD %M %Comp							Remarks			
502	7+526.6, o/s-49.6m	39	395.0 150 256 268			2 2	2528	1375	31.5	95.0		Lift 1	
Comme	nts:									Lege	nd:		
It was de	etermined visually to use proctor color, stickiness, plasticity, moist	1447 ire co	7. The r	naterial v	vas da	rk	MC: Cou	: Moist nt	ure   V	VD: Wet Density	M De	IDD: I ensitv	Vaximum Dry
3.2, 0	DC: Density DD: Dry OMC: OP Count Density Moisture								Optimum re Content				

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Aug 30,2020
	Print Name: Andrew Angus	Signature: AA	Date: Aug 30, 2020

	Gauge Info Gauge Standard Readings													
Make:	Humbolt					Cal (	ibrati Field)	on	F	Referenc (Factory	e )	D	Difference (%)	
Model:	5001C		l Star	Density ndard (DS	):	2530			2544	2544			0.55	
Serial #:	1658		N Stan	Moisture Standard (MS): 462 476 3.0								)3		
Activity	r.	Pro	roject 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:2								OMC:28.5				
Test No.	Test Location:	Elev	evation Depth MC DC WD DD %M %Comp						Remarks					
802	7+533.4, o/s -32.9m	392	92.049 200 235 19			195	9 :	1808	1414	1414 27.9		.7	Lift 2	
							+							
6										<u> </u>	<u> </u>			
It was c	determined visually to use proctor	1447	7. The i	material v	was da	rk	MC	: Moist	ure \	Lege VD: Wet	nd: M	1DD: I	Maximum Dry	
grey in	Bensity     Density       DC: Density     DD: Dry       OMC: Optimum       Count     Density													

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 2,2020
	Print Name: Garry Noga	Signature: GN	Date: Sept 2, 2020

	Gauge Info		Gauge Stan	dard Readings	
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)
Model:	5001C	Density Standard (DS):	2542	2544	0.08
Serial #:	1658	Moisture Standard (MS):	471	476	1.06

Activi	ty:	Project Na	me: New	Gold Inc			Pr E						
		Contract N	lo: 1003-1	19			Dat	e: Sep	4, 2020	MDD: 1447			
		Material T	ested: Cla	ay (CCL) L	ift 1.		Tec	h: Ted	l Linley		OMC:28.5		
Test No.	Test Location:	Elevation	Elevation Depth MC			С	WD	DD	%M	%Comp	Remarks		
503	7+603, o/s -63.1m	395.794	150	213.5	30	01	1750	140	6 24.4	97.2	Lift 1		
	7+423, o/s -42.2m	397.692	150						37.5		Lift 2		
Comn	nents:								Lege	nd:			
lt was grey i	<ul> <li>determined visually to use procton</li> <li>n color, stickiness, plasticity, mois</li> </ul>	or 1447. The ture content.	material Lift 2 CC	was dark CL	¢	MC Mo Cou	: isture int		WD: Wet Density	MDD: I Dry De	Maximum nsity		
		DC: Density DD: Dry OMC: Opti						Dptimum					
						00	ant		Density	ivioistu	re content		

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 4,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 4, 2020

	Gauge Info		Gauge Standard Readings										
Make:	Humbolt					Calibra (Fie	atio d)	n	Re (F	ference actory)	è	Difference (%)	
Model	: 5001C		Sta	Density Standard (DS):		2541			2544			0.12	
Serial #:	1658		l Stai	Moisture ndard (M	s): 4	67			476			1.93	3
Activity: Project Name: New Gold Inc										Proctor Data			
	Contract No: 1003-19         Date: September 5, 2020         MDD: 1447										MDD: 1447		
		Mat	Material Tested: Clay (CCL) Lift 2 Tech: Ted Linley OMC:28.								OMC:28.5		
Test No.	Test Location:	Elev	Elevation Depth MC DC WD DD %M %Comp					omp	Remarks				
803	7+568.0, o/s -30.9m	390	0.862	200	222.3	1886	1	831	1468	24.8	101.4		Lift 2
	7+463.4, o/s -48.9m	397	7.149	150						29.3			Lift 2
							-						
Comm	ents:									Leger	nd:		
lt was	determined visually to use proct	tor 144	7. The	material	was da	rk	MC:		M	D: Wet	N	1DD: N	/laximum

grey in color, stickiness, plasticity, moisture content. Lift 2 CCL.	Moisture Count	Density	Dry Density
Moisture shot prior to placing lift 3 NCL on lift 2 CCL.	DC: Density	DD: Dry	OMC: Optimum
	Count	Density	Noisture Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 5,2020
	Print Name: Bert Seguin	Signature: BS	Date: Sept 5, 2020

	Gauge Info						(	Gaug	e Star	ndard	Readings				
Make:	Humbolt					(	Calil (F	orati ield)	on		Reference (Factory)		Difference (%)		
Model:	5001C		Sta	Density ndard (D	S):	2544				25	2544			0.0	
Serial #:	1658		Sta	Moisture ndard (M	IS):	461				47	6		3.25		
Activity:		Proje	ect Na	me: 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						Comp	Remarks						
	7+452.0, o/s -17.5m	393.	.008								27.4			Lift 2	
Comme	nts:							MC:	: Mois	ture	Legen WD: Wet	d: M	IDD: M	aximum	
Moistur	Moisture shot prior to placing lift 3 NCL on lift 2 CCL.     Count     Density     Dry Density       DC: Density     DD: Dry     OMC: Optimum       Count     Density     Moisture Content														

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 6,2020
	Print Name: Bert Seguin	Signature: BS	Date: Sept 6, 2020

	Gauge Info						G	aug	e Star	ndard	Readings			
Make:	Humbolt						Calib (Fi	rati eld)	on		Reference (Factory)		Dif	ference (%)
Model:	5001C		Sta	Density Standard (DS):		2535		25	2544		0.35			
Serial #:	Serial #: 1658			Moisture ndard (M	S):	466	5			47	6		2.14	
Activity:		Proje	ect Na	ct Name: New Gold Inc									Proctor	
(			ract N	act No: 1003-19 Date: September 7, 2020							MDD: 1447			
		Mate	erial Te	ested: Cla	y (CC	L) Lif	ft 2		Tec	h: Teo	d Linley			OMC:28.5
Test No.	Test Location:	Eleva	ation	Depth	М		DC	١	WD	DD	%M	%C	omp	Remarks
	7+473.6, o/s -17.0m	391.	.466								25.8			Lift 2
Commer	nts:										Legend	d:		
Moisture	e shot prior to placing lift 3 NCL	. on lift	2 CCL					MC: Cou	: Moist Int	ture	WD: Wet Density	M Di	DD: M ry Dens	aximum iity
								DC: Density DD: Dry OMC: Optimum Count Density Moisture Conte			e Content			

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 7,2020
	Print Name: Bert Seguin	Signature: BS	Date: Sept 7, 2020

	Gauge Info			Gauge Standard Readings											
Make:	Humbolt						Calibr (Fie	atic Id)	n		Reference (Factory)		Dif	ference (%)	
Model:	5001C		Sta	Density Standard (DS):		2553		25	2544		-0.35				
Serial #:	1658		Sta	Moisture ndard (M	S):	46	9			47	6		1.49	1.49	
Activity: P			ect Na	ct Name: New Gold Inc									Proctor Data		
(			ract N	o: 1003-1	.9				Date	e: Sep	otember 8, 2	2020		MDD: 1447	
		Mate	erial Te	ested: Cla	y (CC	L) Li	ft 2		Tech	n: Bry	sin Shaw			OMC:28.5	
Test No.	Test Location:	Eleva	ation	Depth	MC	2	DC	v	VD	DD	%M	%C	omp	Remarks	
	7+528, o/s -67.4m	391.	.820	200							26.3			Lift 2	
Comme	nts:										Legend	d:			
Moistur	loisture shot prior to placing lift 3 NCL on lift 2 CCL.					1 (	MC: Moisture WD: Wet MDD: Ma Count Density Dry Dens			aximum sity					
								Cour	Jensit nt	y	Density	M	oisture	e Content	

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Sept 8,2020
	Print Name: Bert Seguin	Signature: BS	Date: Sept 8, 2020

	Gauge Info						G	auge Sta	andard	Readings			
Make:	Humbolt					C	alib (Fi	ration eld)		Reference (Factory)		Difference (%)	
Mode	: 5001C		St	Density andard (	/ DS):	2546	ô		25	44	-0	).07	9
Serial #:	1658		St	Moistur andard (I	e MS):	467			47	6	1	1.93	
Activit	y:	Proje	ect Na	me: New	Gold Ir	าต							Proctor Data
		Cont	ract N	o: 1003-1	19			Dat	e: Sept	ember 10, 2	2020		MDD: 1447
		Mate	erial Te	ested: Cla	iy (CCL)	) Lift 1	1 & 1	2 Tec	h: Brysi	n Shaw			OMC:28.5
Test No.	Test Location:	Eleva	ation	Depth	МС	D	с	WD	DD	%M	%Con	ιр	Remarks
Test 1	7+535, o/s -38m	39	1.	200	254	226	67	1913	1487	28.7	102.	8	Lift 2
Test 2	7+540, o/s -38m			200	257	152	28	1938	1508	28.6	104.	2	Lift 2
Test 3	7+540, o/s -52m			200	240	142	28	1976	1577	25.3	109.	0	Lift 2
504	7+540, o/s -38m			200	222	127	72	2041	1677	21.7	115.	9	Lift 1
505	7+540, o/s -52m			200	230	143	17	1981	1602	23.7	110.	7	Lift 1
804	7+540, o/s -38m			200	226	149	93	1954	1584	23.4	109.4	4	Lift 2
805	7+540, o/s -52m			200	233	152	13	1946	1561	24.7	107.	9	Lift 2
Comm	101113.						- N	1C: Moist	ure	Legend ND: Wet	MDD:	Max	imum Drv
Redid	test #802 to compare results (1	:est 1). D	Did two	o more te	est sho	ts	C	ount	1	Density	Densit	y y	
to con	to compare results (test 2 &3). Nuclear gauge				tests on L1 and L2 CCL DC			DC: Density DD: Dry ON			OMC:	MC: Optimum	
at loca	itions where Okane installed in	strumer	ntatior	۱.				ount		Jensity	IVIOISTU	ire (	Lontent

□ Tulloch	Print Name: Ted Linley	Signature: BS	Date: Sept 10,2020
	Print Name: Garry Noga	Signature: GN	Date: Sept 10, 2020

	Gauge Info						G	auge Sta	ndard	Readings			
Make:	Humbolt					C	alib (Fie	ration eld)		Reference (Factory)		Diff	erence (%)
Model:	5001C		S	Density Standard (DS):		2546		254	2544		-0.079		
Serial #:	Serial #: 1658			Moistur tandard (I	e MS):	467			476	ô		1.93	
Activity	Proj	ect Na	me: New	Gold Ir	าต							Proctor Data	
		Cont	tract N	lo: 1003-1	19			Dat	e: Septe	ember 10, 2	2020		MDD: 1447
		Mat	erial T	ested: Cla	ay (CCL)	) Lift :	1 & 2	2 Tec	n: Brysi	n Shaw			OMC:28.5
Test No.	Test Location:	Elev	ation	Depth	МС	D	с	WD	DD	%M	%Сс	omp	Remarks
Test 1	7+535, o/s -38m	391	1.75	200	254	22	67	1913	1487	28.7	10	2.8	Lift 2
Test 2	7+540, o/s -38m	391	.774	200	257	15	28	1938	1508	28.6	10	4.2	Lift 2
Test 3	7+540, o/s -52m	396.	.012	200	240	1428 197		1976	1577	25.3	10	9.0	Lift 2
504	7+540, o/s -38m	391	.866	200	222	12	72	2041	1677	21.7	11	5.9	Lift 1
505	7+540, o/s -52m	395	.641	200	230	14	17	1981	1602	23.7	11	0.7	Lift 1
804	7+540, o/s -52m	396	.243	200	226	14	93	1954	1584	23.4	10	9.4	Lift 2
805	7+540, o/s -38m	392	2.03	200	233	15	13	1946	1561	24.7	10	7.9	Lift 2
Comme	ents:									Legend	:		
Redid te	est #802 to compare results (	test 1). I	Did tw	o more te	est shot	ts	M Co	IC: Moist ount	ure \ [	VD: Wet Density	MDI Den	D: Max sity	kimum Dry
to comp at locat	pare results (test 2 &3). Nucle ions where Okane installed in	ear gaug hstrume	e tests ntatio	s on L1 an n.	d L2 CC	CCL DC: Density Count			y [ [	DD: Dry ON Density Mo		MC: Optimum loisture Content	

□ Tulloch	Print Name: Ted Linley	Signature: BS	Date: Sept 10,2020
	Print Name: Garry Noga	Signature: GN	Date: Sept 10, 2020

	Gauge Info						G	auge Sta	ndard	Readings		
Make:	Humbolt					Calibrat (Field)		ration eld)		Reference (Factory)	Dif	ference (%)
Model:	5001C		St	Density Standard (DS):			6		254	44	-0.07	79
Serial #:	1658		St	Moisture Standard (MS): 467 476				1.93				
Activity: Project Name: New Go					Gold Ir	าต						Proctor Data
		Contr	act N	o: 1003-1	.9			Date	e: Sept	2020	MDD: 1700	
		Mate	/laterial Tested: Clay (CCL) Lift 1 & 2				2 Tecl	OMC:18				
Test No.	Test Location:	Elevat	tion	Depth	MC	D	C	WD	DD	%M	%Comp	Remarks
506	N:5408603.403, E:428789.489	398.4	427	200	204	12	25	2063	1731	19.2	101.8	Lift 1
806	N:5408607.121, E:428808.562	398.8	897	200	201	13	24	2021	1695	19.2	99.7	Lift 2
Comme	nts:									Legend	<u>ı</u> :	<u>                                     </u>
Nuclear o/s -61n	gauge tests on L1 and L2 CCL n to -89m	betweer	n sta	7+543-7+	615,		N C D	1C: Moist ount C: Densit	ure M I y I	WD: Wet Density DD: Dry	MDD: Ma Density OMC: Opt	ximum Dry iimum
							C	ount	[	Density	Moisture	Content

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Sept 13,2020
	Print Name: Garry Noga	Signature: GN	Date: Sept 13, 2020

	Gauge Info						G	auge S	Standa	ard F	Readings		
Make:	Humbolt					(	Calib (Fie	ration eld)	1	I	Reference (Factory)	Di	fference (%)
Model:	5001C		St	Density Standard (DS):			6	5			2544		79
Serial #:	1658		St	Moistur andard (N	e vIS):	467				476		1.93	}
Activity:				me: New	Gold II	nc		D	ate: Se	epte	mber 13. 2	2020	Proctor Data MDD:
		Mater	rial To	ested: Cla	iy (CCL)	) Lift	1&2	2 Te	ech: B	rysir	n Shaw		1700 OMC:18
Test No.	Test Location:	Elevat	vation Depth MC DC W		WD	D	D	%M	%Comp	Remarks			
506	N:5408603.403, E:428789.489	398.4	427	200	204	12	25	2063 1		31	19.2	101.8	Lift 1
806	N:5408607.121, E:428808.562	398.8	897	200	201	13	24	2021	L 16	95	19.2	99.7	Lift 2
*1st 506	N:5408603.403, E:428789.489	398.4	427	200	204	12	32	2060	) 17	29	19.2	120	Lift 1
Comme	ents:										Legend	:	
Nuclear gauge tests on L1 and L2 CCL between sta 7+543-7+615, o/s -       MC: Moisture       WD: Wet       MDD: Maxin         61m to -89m.       Count       Density       Density         *1st 506 is the shot I took using the 1447 MDD before changing to       Count       Density       MC: Optim							aximum Dry timum content						
1700.													

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Sept 13,2020
	Print Name: Garry Noga	Signature: GN	Date: Sept 13, 2020

	Gauge Info		Gauge Stan	dard Readings	
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)
Model:	5001C	Density Standard (DS):	2550	2544	-0.24
Serial #:	1658	Moisture Standard (MS):	469	476	2.13

Activi	ty:	Project Na	me: New	Gold In	с						Proctor Data
Contract No: 1003-19						Date: September 15, 2020					MDD: 1700
		Material T	ested: Cla	ay (CCL)	Lift 1	& 2	Tec	h: Brys	in Shaw		OMC:18
Test No.	Test Location:	Elevation	Depth	MC	D	2	WD	DD	%M	%Comp	Remarks
Test 1	N:5408572.015, E:428814.546	392.984	200	192	129	8	2034	1731	17.5	101.8	Lift 2
Test 2	N:5408553.419, E:428801.539	398.762	200	197	132	7	2021	1709	18.3	100.5	Lift 2
Comn The m where locati away	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 Density DC: Density DC: Density DD: Dry Count Density DC: Density DD: Dry Moisture Count Density DC: Density DC: DC: Density DC: DC: DC: DC: DC: DC: DC: DC: DC: DC:									ximum Dry imum Content	

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Sept 15,2020
	Print Name: Garry Noga	Signature: GN	Date: Sept 15, 2020

Gauge Info						Ga	auge Sta	andard	Readings		
Humbolt					C	alibr (Fie	ration eld)		Reference (Factory)	D	ifference (%)
5001C		s	Density tandard (I	/ DS):	255	3		25	14	-0.3	35
1658		St	Moistur tandard (I	e VIS):	467			47	6	1.9	3
	Proj	ect Na	me: New	Gold Ir	าต						Proctor Data
	Cont	tract N	lo: 1003-1	19			Dat	e: Sept	ember 21,	2020	MDD: 1700
	Material Tested: Clay (CCL) Lift				) Lift 2	2	Tech: Brysin Shaw				OMC:18.2
Test Location:	Eleva	ation	Depth	MC	D	с	WD	DD	%M	%Comp	Remarks
N:5408581.078, E:428747.924	395	.485	200	215	14	42	1974	1974 1606 22.9		94.5	Lift 2
nts:											
gauge test on L2 CCL at Okan I seemed like a WML/ Brenna ble. Dark grey in color with bi	ie perm i mix. Fe rown m	eame elt mo iixed ii	ter test lo ist in hand n.	cation. ds and		M Cc DC Cc	C: Moist ount C: Densit ount	ure \ [ y [	Legenc WD: Wet Density DD: Dry Density	I: MDD: M Density OMC: O Moistur	aximum Dry ptimum e Content
	Gauge Info Humbolt 5001C 1658 Test Location: N:5408581.078, E:428747.924 nts: gauge test on L2 CCL at Okar seemed like a WML/ Brenna ble. Dark grey in color with b	Gauge Info Humbolt 5001C 1658 Proj 1658 Proj Cont Mat Test Location: Elev N:5408581.078, E:428747.924 395 E:428747.924 10 10 10 10 10 10 10 10 10 10 10 10 10	Gauge Info       I         Humbolt       S         5001C       S         1658       S         1658       S         Contract N         Material T         Test Location:       Elevation         N:5408581.078, E:428747.924       395.485         S       S         Ints:       S         gauge test on L2 CCL at Okane permeamed seemed like a WML/ Brenna mix. Felt mobble. Dark grey in color with brown mixed in	Gauge Info       Image: Construct of the second of the secon	Gauge Info         Humbolt         5001C         1658         Density         Standard (DS):         Moisture         Standard (MS):         Contract No: 1003-19         Material Tested: Clay (CCL)         Test Location:       Elevation         Depth       MC         N:5408581.078,       395.485       200       215         E:428747.924       June       June       June         Ints:       gauge test on L2 CCL at Okane permeameter test location.       Iseemed like a WML/ Brenna mix. Felt moist in hands and ble. Dark grey in color with brown mixed in.	Gauge Info       Image Info <td>Gauge Info       Gauge Info<!--</td--><td>Gauge Info       Gauge State         Humbolt       Calibration (Field)         5001C       Density Standard (DS):       2553         1658       Moisture Standard (MS):       467         Interse Contract No: 1003-19         Material Tested: Clay (CCL) Lift 2       Tect         Test Location:       Elevation       Depth       MC       DC       WD         N:5408581.078, E:428747.924       395.485       200       215       1442       1974         Ints:       Ints:       Ints       MC: Moist in hands and ble. Dark grey in color with brown mixed in.       MC: Moist Count       MC: Moist Count</td><td>Gauge Info         Gauge Standard           Humbolt         Calibration (Field)         2553         256           5001C         Density Standard (DS):         2553         256           1658         Moisture Standard (MS):         467         470           Moisture Standard (MS):         0         0         0           Moisture Standard (MS):         1003-19         Date: Septer         100           N:5408581.078, E:428747.924         395.485         200         215         1442         1974         1606           Moisture Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard St</td><td>Gauge Info         Gauge Standard Readings           Humbolt         Calibration (Field)         Reference (Factory)           5001C         Density Standard (DS):         2553         254           1658         467         476           Project Name: New Gold Inc           Contract No: 1003-19         Date: September 21, Material Tested: Clay (CCL) Lift 2         Tech: Brysin Shaw           Test Location:         Elevation         Depth         MC         DC         WD         MD         %M           N:5408581.078, E:428747.924         395.485         200         215         1442         1974         1606         22.9           nts:         gauge test on L2 CCL at Okane permeameter test location. Iseemed like a WML/ Brenna mix. Felt moist in hands and ble. Dark grey in color with brown mixed in.         Image: Sensity Do D: Dry Count         DD: Dry Density         DD: Dry Density</td><td>Gauge Info         Gauge Standard Readings           Humbolt         Calibration (Field)         Reference (Factory)         Di           5001C         Density Standard (DS):         2553         2544         -0.3           1658         Moisture Standard (MS):         467         476         1.9           Project Name: New Gold Inc         Contract No: 1003-19         Date: September 21, 2020         Material Tested: Clay (CCL) Lift 2         Tech: Brysin Shaw           Test Location:         Elevation         Depth         MC         DC         WD         94.5           N:5408581.078, E:428747.924         395.485         200         215         1442         1974         1606         22.9         94.5           nts:         gauge test on L2 CCL at Okane permeameter test location. Iseemed like a WML/ Brenna mix. Felt moist in hands and ble. Dark grey in color with brown mixed in.         Image: MDD: MDD MC: Opensity         MDD: MDD MC: Opensity         DDD MC: Opensity         MDD: MD: MDD: MDD</td></td>	Gauge Info       Gauge Info </td <td>Gauge Info       Gauge State         Humbolt       Calibration (Field)         5001C       Density Standard (DS):       2553         1658       Moisture Standard (MS):       467         Interse Contract No: 1003-19         Material Tested: Clay (CCL) Lift 2       Tect         Test Location:       Elevation       Depth       MC       DC       WD         N:5408581.078, E:428747.924       395.485       200       215       1442       1974         Ints:       Ints:       Ints       MC: Moist in hands and ble. Dark grey in color with brown mixed in.       MC: Moist Count       MC: Moist Count</td> <td>Gauge Info         Gauge Standard           Humbolt         Calibration (Field)         2553         256           5001C         Density Standard (DS):         2553         256           1658         Moisture Standard (MS):         467         470           Moisture Standard (MS):         0         0         0           Moisture Standard (MS):         1003-19         Date: Septer         100           N:5408581.078, E:428747.924         395.485         200         215         1442         1974         1606           Moisture Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard St</td> <td>Gauge Info         Gauge Standard Readings           Humbolt         Calibration (Field)         Reference (Factory)           5001C         Density Standard (DS):         2553         254           1658         467         476           Project Name: New Gold Inc           Contract No: 1003-19         Date: September 21, Material Tested: Clay (CCL) Lift 2         Tech: Brysin Shaw           Test Location:         Elevation         Depth         MC         DC         WD         MD         %M           N:5408581.078, E:428747.924         395.485         200         215         1442         1974         1606         22.9           nts:         gauge test on L2 CCL at Okane permeameter test location. Iseemed like a WML/ Brenna mix. Felt moist in hands and ble. Dark grey in color with brown mixed in.         Image: Sensity Do D: Dry Count         DD: Dry Density         DD: Dry Density</td> <td>Gauge Info         Gauge Standard Readings           Humbolt         Calibration (Field)         Reference (Factory)         Di           5001C         Density Standard (DS):         2553         2544         -0.3           1658         Moisture Standard (MS):         467         476         1.9           Project Name: New Gold Inc         Contract No: 1003-19         Date: September 21, 2020         Material Tested: Clay (CCL) Lift 2         Tech: Brysin Shaw           Test Location:         Elevation         Depth         MC         DC         WD         94.5           N:5408581.078, E:428747.924         395.485         200         215         1442         1974         1606         22.9         94.5           nts:         gauge test on L2 CCL at Okane permeameter test location. Iseemed like a WML/ Brenna mix. Felt moist in hands and ble. Dark grey in color with brown mixed in.         Image: MDD: MDD MC: Opensity         MDD: MDD MC: Opensity         DDD MC: Opensity         MDD: MD: MDD: MDD</td>	Gauge Info       Gauge State         Humbolt       Calibration (Field)         5001C       Density Standard (DS):       2553         1658       Moisture Standard (MS):       467         Interse Contract No: 1003-19         Material Tested: Clay (CCL) Lift 2       Tect         Test Location:       Elevation       Depth       MC       DC       WD         N:5408581.078, E:428747.924       395.485       200       215       1442       1974         Ints:       Ints:       Ints       MC: Moist in hands and ble. Dark grey in color with brown mixed in.       MC: Moist Count       MC: Moist Count	Gauge Info         Gauge Standard           Humbolt         Calibration (Field)         2553         256           5001C         Density Standard (DS):         2553         256           1658         Moisture Standard (MS):         467         470           Moisture Standard (MS):         0         0         0           Moisture Standard (MS):         1003-19         Date: Septer         100           N:5408581.078, E:428747.924         395.485         200         215         1442         1974         1606           Moisture Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard St	Gauge Info         Gauge Standard Readings           Humbolt         Calibration (Field)         Reference (Factory)           5001C         Density Standard (DS):         2553         254           1658         467         476           Project Name: New Gold Inc           Contract No: 1003-19         Date: September 21, Material Tested: Clay (CCL) Lift 2         Tech: Brysin Shaw           Test Location:         Elevation         Depth         MC         DC         WD         MD         %M           N:5408581.078, E:428747.924         395.485         200         215         1442         1974         1606         22.9           nts:         gauge test on L2 CCL at Okane permeameter test location. Iseemed like a WML/ Brenna mix. Felt moist in hands and ble. Dark grey in color with brown mixed in.         Image: Sensity Do D: Dry Count         DD: Dry Density         DD: Dry Density	Gauge Info         Gauge Standard Readings           Humbolt         Calibration (Field)         Reference (Factory)         Di           5001C         Density Standard (DS):         2553         2544         -0.3           1658         Moisture Standard (MS):         467         476         1.9           Project Name: New Gold Inc         Contract No: 1003-19         Date: September 21, 2020         Material Tested: Clay (CCL) Lift 2         Tech: Brysin Shaw           Test Location:         Elevation         Depth         MC         DC         WD         94.5           N:5408581.078, E:428747.924         395.485         200         215         1442         1974         1606         22.9         94.5           nts:         gauge test on L2 CCL at Okane permeameter test location. Iseemed like a WML/ Brenna mix. Felt moist in hands and ble. Dark grey in color with brown mixed in.         Image: MDD: MDD MC: Opensity         MDD: MDD MC: Opensity         DDD MC: Opensity         MDD: MD: MDD: MDD

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Sept 21,2020
	Print Name: Garry Noga	Signature: GN	Date: Sept 21, 2020

	Gauge Info						G	auge	Stand	lard Rea	dings		
Make:	Humbolt						Calib (Fi	ratio eld)	n	Ref (Fa	ference actory)	Di	fference (%)
Model:	5001C		St	Density Standard (DS):		255	52			2544		-0.3	1
Serial #:	1658		Sta	Moisture andard (N	e 4S):	464	4			476		2.5	8
Activity	:	Proj	ect Na	me: New	Gold I	Inc							Proctor Data
		Con	tract N	lo: 1003-1	19				Dat	te: Septe	ember 2	4, 2020	MDD: 1512
		Mat	erial T	ested: Cla	ıy (CCl	_) Lift	t 1		Тес	h: Ted L	inley		OMC:26.3
Test No.	Test Location:	Elev	ration	Depth	МС	2	DC		WD	DD	%M	%Comp	Remarks
507	7+673, o/s -68.6m	396	5.322	200	200 227.2 192		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	5.880	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
Comme It was d	ents: letermined visually to use pro	ctor 151	12. The	e materia	lwaso	dark		MC·			Legen	d:	
grey in o	color, stickiness, plasticity, mo	oisture o	conten	t seemed	to fit.	aun		Mois Cour	sture nt	WI De	D: Wet nsity	MDD: I Dry De	Maximum nsity
								DC: I Cour	Density nt	/ DD De	): Dry nsity	OMC: 0 Moistu	Optimum re Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 24,2020
	Print Name: Garry Noga	Signature: GN	Date: Sept 24, 2020

	Gauge Info						Ģ	Gaug	e Stan	dard I	Read	dings		
Make:	Humbolt						Calik (F	orati ield)	on		Refe (Fa	erence ctory)	D	ifference (%)
Model:	5001C		Sta	Density Standard (DS):			52			254	4		-0.3	31
Serial #:	al 1658			Moisture andard (N	e 4S):	464	4			476	5		2.5	8
Activity	/:	Proje	oct Na	me: New	Gold II	00								Proctor
Revised Dry Dei Moistu	l: Sample ID EMRS-L1-037 nsity 1633 re 20.1	Cont	ract N	o: 1003-1	19				Da	nte: Se	epte	mber 2	4, 2020	Data MDD: 1512
L		Mate	erial Te	ested: Cla	iy (CCL)	) Lif	t 1		Те	ch: Te	ed Li	inley		OMC:26.3
Test No.	Test Location:	Eleva	ation	Depth	МС		DC	2	WD	D	D	%M	%Comp	Remarks
507	7+673, o/s -68.6m	396.	.322	200	227.2	2	1922	2.5	1823	14	46	26.1	95.6	Lift 1
													<mark>88.5</mark>	
508	7+670, o/s -35.5m	390.2	242	200	232.5	5	1768	3.0	1866	14	80	26.1	97.9	Lift 1
509	7+684 o/s-71 4m	396	880	200	235.5	5	100/	12	1827	14	25	27.2	90.6	Lift 1
505	7,004,073 71.411	550.	.000				150-	Ŧ.J	1027	14	55	27.5	87.8	
510	7+691, o/s -44.1m	391.	.980	200	213.0	)	2087	7.2	1783	14	35	24.3	94.9	Lift 1
													<mark>87.8</mark>	
						+								
Comme	ents:											Legend	d:	
It was o grey in	letermined visually to use proc color, stickiness, plasticity, moi	tor 151: isture co	2. The ontent	e materia t seemed	l was d to fit.	ark		MC Mc Co	C: Disture unt		WD Der	): Wet nsity	MDD: Dry De	Maximum nsity
								DC	: Densi	ty	DD	: Dry	OMC:	Optimum

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 24,2020
	Print Name: Garry Noga	Signature: GN	Date: Sept 24, 2020

Count

Density

Moisture Content

	Gauge Info						Ga	uge S	tand	ard Read	dings			
Make:	Humbolt					C	alibra (Fiel)	ation ld)		Refe (Fa	erence ctory)	D	Difference (%)	
Model:	5001C		Density Standard (DS):		2524	4			2544		0.7	9		
Serial #:	1658		Sta	Moisture andard (N	e /IS):	463				476		2.8	1	
Activity:		Proie	ct Na	me: New	Gold I	nc							Proctor	
		Contr	ract N	o: 1003-1	19				Dat	e: Septe	mber 2	6, 2020	Data MDD: 1600	
		Mate	rial Te	ested: Cla	iy (CCL	.) Lift	1		Тес	h: Ted Li	inley		OMC:22.3	
Test No.	Test Location:	Eleva	tion	Depth	MC		DC	١	VD	DD	%M	%Comp	Remarks	
511	7+641, o/s -51.5m	393.2	235	200	193.	5 1	.811.8	1.8 1851		1540	20.2	96.3	Lift 1	
514	7+718, o/s -81.4m	398.4	103	200	203.	5 1	.689.7	7 1	886	1556	21.3	97.3	Lift 1	
Commo											Logon	4.		
lt was de content stickines	atermined to use the proctor of and dry density values. The mass, plasticity, moisture content	of 1600 aterial v seemed	due t was d d to fi	o the mo ark grey i t.	isture n colo	r,		MC: Moist Count	ure	WD Der	: Wet	MDD: Dry De	Maximum nsity	
								DC: D Count	ensity :	/ DD Der	: Dry nsity	OMC: Moistu	Optimum Ire Content	

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

	Gauge Info		Gauge Stan	dard Readings	
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)
Model:	5001C	Density Standard (DS):	2524	2544	0.79
Serial #:	1658	Moisture Standard (MS):	463	476	2.81

Activity: Revised: Sample ID EMRS-L1-042 Dry Density 1710 Moisture 20.9		Project Na	Proctor Data								
		Contract N	Contract No: 1003-19				Da	te: Sept	MDD: 1600		
		Material Tested: Clay (CCL) Lift 1				Tech: Ted Linley				OMC:22.3	
Test No.	Test Location:	Elevation	Depth	МС	D	С	WD	DD	%M	%Comp	Remarks
511	7+641, o/s -51.5m	393.235	200	193.5	181	1.8	1851	1540	20.2	96.3	Lift 1
										<mark>90.0</mark>	
514	7+718, o/s -81.4m	398.403	200	203.5	168	9.7	1886	1556	21.3	97.3	Lift 1
										<mark>90.9</mark>	
Comments:							Legend:				
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, stickings, plasticity, moisture content seemed to fit						MC: WD: Wet MI Moisture Density Dr		MDD: M Dry Den	aximum sity		
						DC: Density DD: Dry OMC: O Count Density Moistur			otimum e Content		

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

	Gauge Info			Gauge Standard Readings										
Make:	Humbolt					C	Calib (Fie	ration eld)		Reference (Factory)		Dif	Difference (%)	
Model:	5001C		St	Density Standard (DS):		2524	4	2		2544		0.79	0.79	
Serial #:	^{il} 1658		Sta	Moisture Standard (MS):		463		476		2.81	2.81			
-														
Activity: Pro			ect Na	ct Name: New Gold Inc									Proctor Data	
	с		tract No: 1003-19					Date: September 26, 20				MDD: 1512		
			Material Tested: Clay (CCL) Lift 1					Tech: Ted Linley				OMC:26.3		
Test No.	Test Location:	Eleva	vation Depth M		МС	2	DC		WD	DD	%M	%Comp	Remarks	
512	7+647, o/s -30.4m	393.	.256	200	235.	0 1	.938	.8 1	812	1420	27.6	93.9	Lift 1	
515	7+721, o/s -46.1m	392.2	279	200	220.	7 1	837	.7 1	1841	1477	24.7	97.6	Lift 1	
516	7+732, o/s -16.8m	387.	.409	200	217.	0 1	.740	.7 1	1869	1512	23.6	100	Lift 1	
Comments: Legend:														
grey in color, stickiness, plasticity, moisture content seemed to fit. MC: WD: Wet Density Dry Den							1aximum Isity							
								DC: Density DD: Dry OMC: 0 Count Density Moistu			OMC: C Moistur	ptimum e Content		

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020							
🗌 NG	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020							
	Gauge Info		Gauge Standard Readings							
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Make:	ake: Humbolt			Calibration (Field)	Reference (Factory)	Dif	ference (%)			
Model:	5001C		Density Standard (DS):	2524	2544	0.79				
Serial #:	1658		Moisture Standard (MS):	463	476	2.81				
Activity: Revised:	Activity: Revised: Sample ID EMRS-L2-043 Dry Density 1565 Moisture 23.3		oject Name: New Gold Inc							
Dry Dens Moisture			Dontract No: 1003-19 Date: September 26, 2020							

Dry Density 1565 Moisture 23.3		Contract N	lo: 1003-:	19			Dat	e: Septe	ember 2	6, 2020	MDD: 1512
		Material T	ested: Cla	ay (CCL) L	.ift 1		Тес	h: Ted L	inley		OMC:26.3
Test No.	Test Location:	Elevation	Depth	MC	D	С	WD	DD	%M	%Comp	Remarks
512	7+647, o/s -30.4m	393.256	200	235.0	193	8.8	1812	1420	27.6	93.9	Lift 1
										<mark>90.7</mark>	
515	7+721, o/s -46.1m	392.279	200	220.7	183	7.7	1841	1477	24.7	97.6	Lift 1
										<mark>94.3</mark>	
516	7+732, o/s -16.8m	387.409	200	217.0	174	0.7	1869	1512	23.6	100	Lift 1
										<mark>96.6</mark>	
Comn	nents:								Legen	d:	
It was grey i	It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.					MC: WD: Wet MDD: Ma Moisture Density Dry Dens			aximum sity		
						DC: Density   DD: Dry   OMC: 0     Count   Density   Moistu			OMC: O Moisture	otimum e Content	

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2524	2544	0.79				
Serial #:	1658	Moisture Standard (MS):	463	476	2.81				

Activi	ty:	Project Na	Project Name: New Gold Inc								Proctor Data	
		Contract N	lo: 1003-1	19			Dat	e: Septe	mber 2	6, 2020	MDD: 1512	
		Material T	ested: Cla		Tec	h: Ted L	inley		OMC:26.3			
Test No.	Test Location:	Elevation	Depth	MC	DC	DC		DD	%M	%Comp	Remarks	
808	7+611, o/s - 29.3m	390.242	200	249.3	2225	2225.3 1		1321	31.8	87.4	Lift 2	
809	7+619, o/s - 52.7m	393.914	200	237.2	2153	3.2	1759	1363	29.1	90.1	Lift 2	
Comn	nents:			•				•	•	Legend:		
It was determined visually to use proctor 1512. The						MC:	Moistu at	ure	WD: We	et	MDD: Maximum Dry	
moisture content seemed to fit.						DC: Cou	Density nt	/	DD: Dry Density	,	OMC: Optimum Moisture	
L							-				··· ·· ·	

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

	Gauge Info		Gauge Standard Readings					
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)			
Model:	5001C	Density Standard (DS):	2524	2544	0.79			
Serial #:	1658	Moisture Standard (MS):	463	476	2.81			

Activi	ty:	Project Name: New Gold Inc Pro									Proctor Data		
FMRS	ed: Sample ID 	Contract N	o: 1003-2	19				Dat	e: Septe	mber 2	6, 2020	MDD: 1512	
Dry D Moist	ensity 1565 :ure 23.3	Material To	ested: Cla	ay (CCL) L	.ift 2			Tec	h: Ted L	inley		OMC:26.3	
Test No.	Test Location:	Elevation	Depth	MC	C	W	/D	DD	%M	%Com	Remarks		
808	7+611, o/s - 29.3m	390.242	200	249.3	222	25.3	17	42	1321	31.8	87.4	Lift 2	
											<mark>84.4</mark>		
809	7+619, o/s - 52.7m	393.914	200	237.2 215		2153.2		59	1363	29.1	90.1	Lift 2	
											<mark>87.1</mark>		
Comr	Comments:										Legend:		
It was	It was determined visually to use proctor 1512. The						C: Mo	oistu	ire	WD: We Density	et	MDD: Maximum Dry	
moist	ure content seemed	to fit.	cos, pidst	icity,		D( Cc	C: De Dunt	nsity	,	DD: Dry Density		OMC: Optimum Moisture Content	

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 26,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 26, 2020

	Gauge Info						Gaug	e Stano	lard Rea	dings			
Make:	Humbolt					Ca	librati (Field)	on	Ref (Fa	erence ictory)	I	Difference (%)	
Model:	5001C		Sta	Density Standard (DS):		2538		2544		0.	0.24		
Serial #:	1658		Sta	Moisture andard (M	e 1S):	465			476		2.	2.37	
Activity	:	Proje	ect Na	me: New	Gold I	nc							Proctor Data
		Cont	ract N	o: 1003-1	19			Da	te: Septe	ember 2	7, 2020		MDD: 1621
		Mate	erial Te	ested: Cla	iy (CCL	.) Lift 2		Teo	ch: Ted L	inley			OMC:21.9
Test No.	Test Location:	Eleva	ation	Depth	МС		DC	WD	DD	%M	%Com	пр	Remarks
810	7+630, o/s -62.1m	395.	95.569 200 197.0		0 16	72.3	1895	1579	20.0	97.4		Lift 2	
						_							
						_							
Comme	ents:									legen			
It was d content	letermined to use the proctor of and dry density values. The m	of 1621 aterial	due t was d d to fit	o the mo ark grey i t	isture n colo	r,	MC Mc Co	C: Disture unt	WI De	D: Wet nsity	MDD Dry D	: Ma )ensi	ximum ty
stientific	,						DC Co	: Densit unt	y DD De	: Dry nsity	OMC Mois	: Opt ture	imum Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

	Gauge Info	Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)			
Model:	5001C	Density Standard (DS):	2538	2544	0.24			
Serial #:	1658	Moisture Standard (MS):	465	476	2.37			

Activi Revis	ty: ed: Sample ID EMRS-L1-042	Project Na	me: New	Gold Inc							Proctor Data
Dry D Moist	ensity 1710 cure 20.9	Contract N	lo: 1003-:	19			Da	te: Sept	ember 2	7, 2020	MDD: 1621
		Material T	ested: Cla	ay (CCL) L	.ift 2		Те	OMC:21.9			
Test No.	Test Location:	Elevation	Depth	MC	D	С	WD	DD	%M	%Comp	Remarks
810	7+630, o/s -62.1m	395.569	200	197.0	167	2.3	1895	1579	20.0	97.4	Lift 2
										<mark>92.3</mark>	
Comments:									Legen	d:	
It was conte sticki	determined to use the proctor of and and dry density values. The more sense of the proctor of the more sense of the sense	of 1621 due t aterial was d seemed to fi	o the mo ark grey i t.	isture in color,		M M Co	C: pisture unt	W De	D: Wet ensity	MDD: M Dry Den	aximum sity
DC: Density DD: Dry OMC Count Density Mois							OMC: O Moisture	otimum e Content			

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

	Gauge Info						(	Gauge	e Stano	dard Re	eadings			
Make:	Humbolt						Calil (F	bratio ield)	n	R (	eference Factory)		Difference (%)	
Model	: 5001C		St	Density tandard (D	DS):	25	38			2544			0.24	
Serial #:	1658		St	Moisture andard (N	e /IS):	46	5			476			2.37	
Activit	y:	Pro	ject Na	ame: New	Gold	Inc								Proctor Data
	Cc			No: 1003-1	L9				Da	te: Sep	tember 2	27, 20	20	MDD: 1512
		Ma	terial T	ested: Cla	iy (CCI	L) Li	ft 2		Te	ch: Teo	Linley			OMC:26.3
Test No.	Test Location:	Elev	vation	Depth	МС		D	C	WD	DD	%M	%C	omp	Remarks
811	7+635, o/s -73.0m	39	7.846	200	229.	3	1992	2.8	1802	142	3 26.6	94	4.1	Lift 2
812	7+639, o/s -26.8m	388	8.784	200	249.	0	2063	3.3	1783	136	5 30.6	90	0.3	Lift 2
813	7+650, o/s -20.0m	38	7.586	586 200 245		7	1908	8.8	1822	141	1 29.1	93	3.3	Lift 2
814	7+647 o/s-37.4m	39	0 646	200	244.	.0	0 2227 5 /		1745	133	7 30 5	85	8.4	Lift 2
014	//04/,0/3 5/.4m		0.040					,	1/45	155	, 30.5		5.4	
815	7+645, o/s -78.2m	398	8.167	200	230.	7	199	8.0	1821	143	9 26.5	9!	5.2	Lift 2
Comm	ents:			•							Legen	d:		
It was grey in	determined visually to use pro color, stickiness, plasticity, mo	ctor 15 Disture	12. Th conten	e materia It seemed	l was o to fit.	dark	¢	MC Mo	: isture int	۱ د	VD: Wet Density	M Dr	DD: M y Dens	aximum sity
								DC: Cou	Densit nt	y [	D: Dry Density	OI M	MC: Op oisture	otimum e Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

	Gauge Info						(	Gaug	ge Stand	dard R	lead	dings		
Make:	Humbolt						Calil (F	brati ield)	on	F	Refe (Fa	erence ctory)	Dif	ference (%)
Model:	5001C		Sta	Density Standard (DS):		25	538			254	4		0.24	Ļ
Serial #:	1658		Sta	Moisture andard (N	e /IS):	46	65			476			2.37	,
										1				
Activity Revised	Activity: Revised: Sample ID EMRS-L2-043 Dry Density 1565 Moisture 23.3		ct Na	me: New	Gold I	nc								Proctor Data
Dry Der Moistu			ntract No: 1003-19 Date: September 27, 2020									7, 2020	MDD: 1512	
				ested: Cla	iy (CCL	.) L	ift 2		Te	ch: Te	d Li	nley		OMC:26.3
Test No.	Test Location:	Eleva	tion	Depth	МС		D	С	WD	D	)	%M	%Comp	Remarks
811	7+635, o/s -73.0m	397.	846	46 200 229.3		3	199	2.8	1802	142	23	26.6	94.1	Lift 2
													<mark>90.9</mark>	
812	7+639, o/s -26.8m	388.7	784	200	249.	0	206	3.3	1783	136	55	30.6	90.3	Lift 2
													<mark>87.2</mark>	
813	7+650, o/s -20.0m	387.	586	200	245.	5.7 1908.		8.8	1822	141	1	29.1	93.3	Lift 2
													<mark>90.2</mark>	
814	7+647, o/s -37.4m	390.	646	200	244.	0	222	7.5	1745	133	37	30.5	88.4	Lift 2
						_							<mark>85.4</mark>	
815	7+645, o/s -78.2m	398.	167	167 200 230.7 <u>1</u> 9		199	8.0	1821	143	39	26.5	95.2	Lift 2	
												<mark>91.9</mark>		
Comme	ents:	. =										Legend	d:	
It was d grey in	letermined visually to use proct color, stickiness, plasticity, mois	or 1512 sture co	2. The ontent	e materia seemed	l was o to fit.	dar	k	M M Co	C: oisture unt		WD: Wet MDD: M Density Dry Den			1aximum Isity
								DC Co	: Densit unt	У	DD: Der	Dry isity	OMC: C Moistur	ptimum e Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

	Gauge Info						(	Gaug	e Stand	dard Re	adings				
Make:	Humbolt						Calil (F	oratio ield)	on	Re (I	eference Factory)		Difference (%)		
Model:	5001C			Density Standard (D	)S):	25	38			2544		(	0.24		
Serial #:	1658		g	Moisture Standard (N	e 1S):	46	5			476	476			2.37	
Activity: Pr				Name: New	Gold I	Inc								Proctor Data	
	Ca			No: 1003-1	.9				Da	te: Sep	tember 2	27, 202	0	MDD: 1512	
		Ma	terial	Tested: Cla	y (CCl	_) Li	ft 2		Te	ch: Ted	Linley			OMC:26.3	
Test No.	Test Location:	Ele	vatior	n Depth	МС	;	D	0	WD	DD	%M	%Co	mp	Remarks	
816	7+676, o/s -69.9m	39	6.707	'07 200 24		5	194	5.7	1813	1402	2 29.3	92.	.7	Lift 2	
817	7+682, o/s -48.0m	393	3.027	200	228.	0	228	1.3	1734	1358	3 27.7	89.	.8	Lift 2	
				200	221	7									
818	/+68/, o/s -21.1m	38	8.117	200	221.	, 	212	2.5	1//1	1407	25.7	93.	.1	Lift 2	
819	7+717, o/s -81.5m	39	8.632	200	215.	2	200	6.0	1800	1448	3 24.3	95.	.8	Lift 2	
820	7+726, o/s -49.0m	39	3.143	200	232.	0	197	8.3	1805	1421	27.0	93.	.9	Lift 2	
Comments: Legend:   It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit. MC: Moisture Count   MDD: Maximu Dry Density MDD: Maximu Dry Density									aximum sity						
								DC: Density DD: Dry OMC: Optin Count Density Moisture Co				e Content			

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

	Gauge Info						(	Gaug	e Stand	lard R	Read	dings		
Make:	Humbolt						Calil (F	brati ield)	on	I	Refe (Fa	erence ctory)	Dif	ference (%)
Model:	5001C		Sta	Density Standard (DS):			38			254	4		0.24	
Serial #:	1658		Sta	Moisture andard (N	e /IS):	46	5			476			2.37	
Activity														Broctor
Revised	Activity: Revised: Sample ID EMRS-L2-043 Dry Density 1565 Moisture 23.3		ect Na	me: New	Gold I	nc								Data
Dry Der Moistur			ontract No: 1003-19 Date: September 27, 2020								7, 2020	MDD: 1512		
				ested: Cla	iy (CCL	.) Li	ft 2		Тес	:h: Te	d Li	nley		OMC:26.3
Test No.	Test Location:	Eleva	ation	Depth	МС		D	C	WD	DI	D	%M	%Comp	Remarks
816	7+676, o/s -69.9m	396.	707	07 200 245.5		5	194	5.7	1813	140	)2	29.3	92.7	Lift 2
													<mark>89.6</mark>	
817	7+682, o/s -48.0m	393.0	027	200	228.	0	228	1.3	1734	135	58	27.7	89.8	Lift 2
													<mark>86.8</mark>	
818	7+687, o/s -21.1m	388.	388.117 2		221.	7	2122.5 1		1771	140	)7	25.7	93.1	Lift 2
				200	245	2							<mark>89.9</mark>	
819	7+717, o/s -81.5m	398.	632	200	215.	2	200	6.0	1800	144	18	24.3	95.8	Lift 2
				200	222	_							<mark>92.5</mark>	
820	7+726, o/s -49.0m	393.	143	143 200 232.0 <u>1</u> 9		1978	8.3	1805	142	21	27.0	93.9	Lift 2	
													<mark>90.8</mark>	
Comme	nts: atorminad visually to use prod	tor 151	о ть <i>с</i>	matoria		larl			<b>^</b> .			Legend	d:	
grey in o	color, stickiness, plasticity, moi	sture co	ontent	t seemed	to fit.	Jan		M	unt		WD Der	: Wet sity	MDD: N Dry Der	1aximum sity
								DC Co	: Density unt	/	DD: Der	Dry sity	OMC: O Moistur	ptimum e Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Sept 27,2020
	Print Name: Andrew Angus	Signature: AA	Date: Sept 27, 2020

	Gauge Info		Gauge Standard Readings								
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)						
Model:	5001C	Density Standard (DS):	2529	2544	0.59						
Serial #:	1658	Moisture Standard (MS):	471	476	1.06						

Activity: Project Name: New Gold Inc										Proctor Data	
FMRS	ed: Sample ID 	Contract N	o: 1003-2	19			Da	ate: Octo	ber 3, 2	020	MDD: 1512
Dry D Moist	ensity 1638 sure 20.2	Material Te	Material Tested: Clay (CCL) Lift 1					ch: Ted I	inley		OMC:26.3
Test No.	Test Location:	Elevation	Depth	MC	MC DC			DD	%M %Comp		Remarks
517	7+742 o/s -58.5m	394.214	200	244.3	202	23.3	1791	1389	29.0	91.9	Lift 1
										<mark>84.8</mark>	
518	7+757 o/s -38.7m	390.947	200	225.0	195	8.8	1810	1444	25.3	95.5	Lift 1`
										<mark>88.2</mark>	
519	7+765 o/s -80.1m	398.335	200	247.0	47.0 211		1768	1360	30.0	89.9	Lift 1
										<mark>83.0</mark>	
520	7+776 o/s -49.4m	392.839	200	234.8	228	39.5	1730	1346	28.5	89.0	Lift 1
										<mark>82.2</mark>	
Comments:										Legend:	
It was	determined visually	to use proct	or 1512.	The		M	C: Mois	ture	WD: W	et	MDD: Maximum Dry
mater	rial was dark grey in o	color, stickin to fit	ess, plast	icity,		Count Density D					Density OMC: Ontimum Moisture
moist						Cc	ount	~,	Density		Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 3, 2020		
	Print Name: Bert Seguin	Signature: BS	Date: Oct 3, 2020		

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2529	2544	0.59				
Serial #:	1658	Moisture Standard (MS):	471	476	1.06				

Activi	ty:	Project Na	me: New	Gold Inc								Proctor Data
		Contract N	o: 1003-1	19			D	Date	e: Octob	oer 3, 20	020	MDD: 1512
		Material Te	ested: Cla	ay (CCL) L	ift 1		Т	ech	n: Ted L	inley		OMC:26.3
Test No.	Test Location:	Elevation	Depth	MC	D	DC		)	DD	%M	%Comp	Remarks
517	7+742 o/s -58.5m	394.214	200	244.3	202	2023.3		1	1389	29.0	91.9	Lift 1
518	7+757 o/s -38.7m	390.947	200	225.0	195	58.8	181	0	1444	25.3	95.5	Lift 1`
519	7+765 o/s -80.1m	398.335	200	247.0	211	L8.8	176	8	1360	30.0	89.9	Lift 1
520	7+776 o/s -49.4m	392.839	200	234.8	2289.5		173	0	1346	28.5	89.0	Lift 1
Comn	nents:										Legend:	
It was	determined visually	to use proct	or 1512.	The		M	C: Moi	istu	re	WD: We	et	MDD: Maximum Dry
material was dark grey in color, stickiness, plasticity,					Count Density				Density		Density OMC: Optimum Moisture	
moist	ure content seemed					Co	ount	Sicy		Density		Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 3, 2020
	Print Name: Bert Seguin	Signature: BS	Date: Oct 3, 2020

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2529	2544	0.59				
Serial #:	1658	Moisture Standard (MS):	471	476	1.06				

Activi	ty:	Project Na	me: New	Gold Inc	ic Pr					Proctor Data	
		Contract N	lo: 1003-1	19			Dat	e: Octob	oer 3, 20	020	MDD: 1512
		Material T	ested: Cla	iy (CCL) L	.ift 2		Tec	h: Ted L	inley		OMC:26.3
Test No.	Test Location:	Elevation	Depth	МС	DC		WD	DD	%M	%Comp	Remarks
821/ BP 3	7+610 o/s - 33.0m	391.120	200	219.0	2105	105.8 1		1420	24.9	93.9	Lift 2
Comments:										Legend:	
It was determined visually to use proctor 1512. The						MC:	Moistu	ure	WD: Wet		MDD: Maximum Dry
moist	ure content seemed	to fit.	ess, plasti	city,		DC: [	Density	1	DD: Dry		OMC: Optimum Moisture
						Cour	nt ,		Density		Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 3, 2020
	Print Name: Bert Seguin	Signature: BS	Date: Oct 3, 2020

	Gauge Info		Gauge Standard Readings							
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)					
Model:	5001C	Density Standard (DS):	2529	2544	0.59					
Serial #:	1658	Moisture Standard (MS):	468	476	1.71					

Activity	y:	Project Na	me: New	Gold Inc							Proctor Data
Retest	S. Id: Sample ID	Contract N	o: 1003-:	19			Dat	te: Octol	ber 4, 2	020	MDD: 1512
EMRS- Dry De Moistu	L1-056 nsity 1468 Ire 26.2	Material Tested: Clay (CCL) Lift 1					Тес	:h: Ted L	inley	OMC:26.3	
Test No.	Test Location:	Elevation	Depth	MC	D	DC V		DD	%M	%Com	p Remarks
519A	7+765 o/s - 80.3m	398.329	200	224.7	208	0.7	1779	1411	26.1	93.3	Lift 1
										<mark>96.1</mark>	
518A	7+756.7 o/s - 39.5m	391.005	200	247.7	1990.0		1799	1387	29.7	91.7	Lift 1`
										<mark>94.5</mark>	
518B	7+756.9 o/s - 37.9m	390.779	200	249.3	2257.7		1332	1317	31.5	87.1	Lift 1
										<mark>89.7</mark>	
520A	7+776 o/s - 49.5m	392.775	200	209.5	186	4.8	1836	1498	22.6	99.1	Lift 1
										<mark>102.0</mark>	
Comm	ents:			•						Legend:	
It was	determined visually	to use proct	or 1512.	The		MC:	Moist	ure	WD: We	et	MDD: Maximum Dry
moistu	re content seemed t	to fit.	ess, plasti	<i>στιγ,</i>		DC: DensityDD: DryCountDensity			OMC: Optimum Moisture Content		

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 4, 2020
	Print Name: Bert Seguin	Signature: BS	Date: Oct 4, 2020

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2529	2544	0.59				
Serial #:	1658	Moisture Standard (MS):	468	476	1.71				

Activit	y:	Project Na	me: New	Gold Inc							Proctor Data
Retest	S	Contract N	lo: 1003-1	19			Da	te: Octo	ber 4, 2	020	MDD: 1512
		Material T	ested: Cla	ay (CCL) L	ift 1		Те	ch: Ted L	inley		OMC:26.3
Test No.	Test Location:	Elevation	Depth	MC	D	DC V		DD	%M	%Com	o Remarks
519A	7+765 o/s - 80.3m	398.329	200	224.7	208	2080.7		1411	26.1	93.3	Lift 1
518A	7+756.7 o/s - 39.5m	391.005	200	247.7	199	1990.0		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	186	4.8	1836	1498	22.6	99.1	Lift 1
Comments:										Legend:	
It was determined visually to use proctor 1512. The						M	C: Moist	ure	WD: Wet		MDD: Maximum Dry Density
moistu	ire content seemed	to fit.	233, piasti	City,		DC: Density			DD: Dry		OMC: Optimum Moisture
Comments: It was determined visually to use proctor 1512. The material was dark grey in color, stickiness, plasticity, moisture content seemed to fit.							C: Moist unt : Densil unt	ure y	WD: We Density DD: Dry Density	Legend: et	MDD: Maximum Dry Density OMC: Optimum Moisture Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 4, 2020
	Print Name: Bert Seguin	Signature: BS	Date: Oct 4, 2020

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2529	2544	0.59				
Serial #:	1658	Moisture Standard (MS):	468	476	1.71				

Activi	ty:	Project Na	me: New	Gold Inc							Proctor Data
Revis	ed: Sample ID	Contract N	o: 1003-1	19			Da	te: Octol	oer 4, 2	020	MDD: 1512
Dry D Moist	ensity 1468 sure 26.2	Material Tested: Clay (CCL) Lift 1 Tech: Ted Linley					OMC:26.3				
Test No.	Test Location:	Elevation	Depth	MC	D	DC		DD	%M	%Comp	Remarks
521	7+804 o/s -62.5m	394.951	200	225.5	195	7.7	1810	1441	25.6	95.3	Lift 1
										<mark>98.2</mark>	
522	7+819 o/s -35.1m	390.743	200	224.7	177	5.8	1860	1492	24.6	98.6	Lift 1`
										<mark>101.6</mark>	
523	0+064 o/s -58.0m	396.621	200	245.7	207	6.3	1778	1370	29.8	90.6	Lift 1
										<mark>93.3</mark>	
Comments:								·		Legend:	
It was	It was determined visually to use proctor 1512. The					M	: Moist	ure	WD: W	et	MDD: Maximum Dry
mater	material was dark grey in color, stickiness, plasticity,					Count Density					Density
moisture content seemed to fit.						Count Density			Density		Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 4, 2020
	Print Name: Bert Seguin	Signature: BS	Date: Oct 4, 2020

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2529	2544	0.59				
Serial #:	1658	Moisture Standard (MS):	468	476	1.71				

Activi	Activity: Project Name: New Gold Inc										Proctor Data	
		Contract N	o: 1003-1	19			D	ate: O	ctoł	per 4, 20	020	MDD: 1512
		Material Te	ested: Cla	ay (CCL) L	ift 1		Te	ech: Te	ed L	inley		OMC:26.3
Test No.	Test Location:	Elevation	Depth	MC	D	DC		D	D	%M	%Comp	Remarks
521	7+804 o/s -62.5m	394.951	200	225.5	195	1957.7		) 14	41	25.6	95.3	Lift 1
522	7+819 o/s -35.1m	390.743	200	224.7	224.7 177		1860	) 14	92	24.6	98.6	Lift 1`
523	0+064 o/s -58.0m	396.621	200	245.7	2076.3		1778	3 13	70	29.8	90.6	Lift 1
Comr	Comments:										Legend:	
It was determined visually to use proctor 1512. The						M	C: Mois	ture		WD: We	et	MDD: Maximum Dry
material was dark grey in color, stickiness, plasticity,						Count Density				Density		Density
moist	ure content seemed	to fit.				Co	ount	ιy		Density		Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 4, 2020		
	Print Name: Bert Seguin	Signature: BS	Date: Oct 4, 2020		

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2522	2544	0.87				
Serial #:	1658	Moisture Standard (MS):	466	476	2.14				

Activity: Project Name: New Gold Inc									Proctor Data		
Revise FMRS	ed: Sample ID 	Contract N	o: 1003-2	19			Da	te: Octo	ber 5, 2	020	MDD: 1512
Dry Density 1468 Moisture 26.2 Material Tested: Clay (CCL) Lift 1							Te	ch: Ted L	inley	OMC:26.3	
Test No.	Test Location:	Elevation	Depth	MC	D	C	WD	DD	%M	%Comp	Remarks
524	0+063 o/s -30.5m	391.374	200	247.7	212	28.5	1764	1349	30.7	89.2	Lift 1
										<mark>91.9</mark>	
525	0+082 o/s -25.3m	390.974	200	218.2	202	23.0	1792	1435	24.9	94.1	Lift 1`
										<mark>97.8</mark>	
526	0+109 o/s -35.1m	393.116	200	250.7	225	50.0	1736	1315	32.0	86.9	Lift 1
527	0+077 o/s -56.5	396.476	200	236.5	245	52.3	1694	1302	30.2	86.1	Lift 1
528	0+111 o/s -52.0	395.871	200	194.0	245	56.7	1698	1388	22.3	91.8	Lift 1
Comn	nents:									Legend:	
It was	It was determined visually to use proctor 1512. The						MC: Moisture WD: Wet			MDD: Maximum Dry	
moist	ure content seemed	to fit.	ess, plast	icity,		DC Co	: Densit unt	Density DD: Dry O tt Density Co		OMC: Optimum Moisture Content	

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 5, 2020		
	Print Name: Bert Seguin	Signature: BS	Date: Oct 5, 2020		

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2522	2544	0.87				
Serial #:	1658	Moisture Standard (MS):	466	476	2.14				

Activity: Project Name: New Gold Inc									Proctor Data				
		Contract N	o: 1003-1	19			C	Date	e: Octob	oer 5, 20	020	MDD: 1512	
		Material Te	ested: Cla	ay (CCL) L	ift 1.		Т	Fecł	n: Ted L	inley	OMC:26.3		
Test No.	Test Location:	Elevation	Depth	MC	D	DC		D	DD	%M	%Comj	Remarks	
524	0+063 o/s -30.5m	391.374	200	247.7	212	28.5	176	64	1349	30.7	89.2	Lift 1	
525	0+082 o/s -25.3m	390.974	200	218.2	202	23.0	179	92	1435	24.9	94.1	Lift 1`	
526	0+109 o/s -35.1m	393.116	200	250.7	2250.0		173	86	1315	32.0	86.9	Lift 1	
527	0+077 o/s -56.5	396.476	200	236.5	2452.3		169	94	1302	30.2	86.1	Lift 1	
528	0+111 o/s -52.0	395.871	200	194.0	245	56.7	169	98	1388	22.3	91.8	Lift 1	
Comments:											Legend:		
It was	It was determined visually to use proctor 1512. The						C: Mo	istu	re	WD: We	et	MDD: Maximum Dry	
mater	material was dark grey in color, stickiness, plasticity,					DC: Density DD: Dry				Density		OMC: Optimum Moisture	
moist	are content seemed					Cc	ount			Density		Content	

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 5, 2020		
	Print Name: Bert Seguin	Signature: BS	Date: Oct 5, 2020		

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2522	2544	0.87				
Serial #:	1658	Moisture Standard (MS):	466	476	2.14				

Activit	y:	Project Na	me: New	Gold Inc							Proctor Data
Retest		Contract N	o: 1003-:	19			Dat	e: Octob	oer 5, 2	020	MDD: 1512
		Material T	ested: Cla	ay (CCL) L	.ift 1		Тес	h: Ted L	inley		OMC:26.3
Test No.	Test Location:	Elevation	Depth	МС	DC	Ņ	ND	DD	%M	%Comp	Remarks
527A	0+077.3 o/s - 56.2m	396.459	200	255.3	2148.0	1	758	1329	32.3	87.9	Lift 1
527B	0+078.1 o/s - 56.7m	396.572	200	241.8	2034.5	1	787	1384	29.1	91.5	Lift 1`
Comm	ents:	1						1	1	Legend:	
It was	determined visually	to use proct	or 1512.	The	N	ЛС: N	Λoistι ⊦	ure	WD: We	et	MDD: Maximum Dry
moisture content seemed to fit.				DC: Density		/	DD: Dry Density		OMC: Optimum Moisture		
L											-

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 5, 2020		
	Print Name: Bert Seguin	Signature: BS	Date: Oct 5, 2020		

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2522	2544	0.87				
Serial #:	1658	Moisture Standard (MS):	466	476	2.14				

Activi	ty:	Project Na	me: New	Gold Inc							Proctor Data
		Contract N	o: 1003-1	19			Da	te: Octol	ber 5, 2	020	MDD: 1621
		Material T	ested: Cla	ay (CCL) L	.ift 2		Te	ch: Ted L	inley		OMC:21.9
Test No.	Test Location:	Elevation	Depth	МС	DC		WD	DD	%M	%Comp	Remarks
BP4 822	7+699 o/s -61.1m	394.832	200	181.5	1753	3.7	1869	1583	18.0	97.6	Lift 2
Comr	Comments:									Legend:	
It was	It was determined visually to use proctor 1621. The					MC Cou	: Moist	ure	WD: W	et	MDD: Maximum Dry Density
moist	moisture content seemed to fit.					DC: Density			DD: Dry		OMC: Optimum Moisture
		-				Coι	unt		Density		Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Oct 5, 2020		
	Print Name: Bert Seguin	Signature: BS	Date: Oct 5, 2020		

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2546	2544	-0.078				
Serial #:	1658	Moisture Standard (MS):	465	476	2.37				

Activi	ty:	Project Name: New Gold Inc										Proctor Data
FMRS	ed: Sample ID	Contract N	o: 1003-2	19			D	Date	: Octob	oer 6, 20	020	MDD: 1512
Dry D Moist	ensity 1643 sure 20.4	Material T	ested: Cla	ay (CCL) L	.ift 2		Т	ech	1: Brysir	n Shaw	OMC:26.3	
Test No.	Test Location:	Elevation	Depth	MC	D	DC V		D DD %M		%M	%Com	Remarks
823	7+743 o/s -36.5m	390.443	200	249.3	141	1413.0 1		1	1563	26.8	103.3	Lift 2
824	7+757 o/s -32.1m	389.872	200	247.5	1338.3		201	.0	1596	26.0	105.5	Lift 2
825	7+757 o/s -55.8m	394.139	200	244.7	244.7 1420		197	8	1569	26.1	103.8	Lift 2
826	7+740 o/s -68.0m	396.447	200	237.8	140	01.0	198	6	1591	24.9	105.2	Lift 2
											<mark>96.8</mark>	
827	7+782 o/s -49.5m	392.947	200	243.2	138	35.2	199	2	1586	25.6	104.9	Lift 2
											<mark>96.5</mark>	
Comn	nents:										Legend:	
It was determined visually to use proctor 1512. The						M	IC: Moi	Moisture		WD: Wet		MDD: Maximum Dry
moisture content seemed to fit.					DC: Density				DD: Dry		OMC: Optimum Moisture	
L							June			Scholy		content

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 6, 2020		
	Print Name: Garry Noga	Signature: GN	Date: Oct 6, 2020		

Gauge Info								Gauge	Stand	ard Read	dings		
Make	: Humbolt						Ca	alibratior (Field)	١	Refe (Fa	ereno ctory	ce /)	Difference (%)
Mode	el: 5001C			De Stand	ensity lard (DS	5):	2546			2544			-0.078
Serial #:	1658			Mo Stand	Moisture 465 andard (MS):					476			2.37
Activi	ty:	Project Na	me: New	Gold Ir	าต								Proctor Data
		Contract N	o: 1003-:	19			Da	te: Octo	ber 6,	2020		MD	): 1512
		Material T	ested: Cla	ay (CCL)	) Lift 2		Те	ch: Brysi	in Sha	w		OMO	2:26.3
Test No.	Test Location:	Elevation	Depth	МС	MC DC		WD	DD	%№	1 %Co	omp		Remarks
828	7+778 o/s -24.0m	388.9	200	246.7	5.7 1369.5		1998	1585	26.	.1 104.8			Lift 2
										<mark>96</mark>	.5		
829	7+809 o/s -30.4	390.151	200	233.5 1349		9.8	2007	1620	23.	9 10	7.1		Lift 2
										<mark>98</mark>	.6		
Comr	nents:									Leger	nd:		
It was mate	It was determined visually to use proctor 1512. The material was dark grey in color stickings plasticit					M Cc	C: Moist	ture	WD: Dens	Wet ity		/IDD: M ensity	aximum Dry
moist	moisture content seemed to fit.				DC: Density DD: Dr Count Densit			ry OMC: Optimum Moistur ty Content		otimum Moisture			
U Tullo	Tulloch Print Name: Brysin Shaw			:	Signature: BS Date: Oct 6, 2					6, 2020			

☐ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 6, 2020		
	Print Name: Garry Noga	Signature: GN	Date: Oct 6, 2020		

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2546	2544	-0.078				
Serial #:	1658	Moisture Standard (MS):	465	476	2.37				

Activi	ty:	Project Na	roject Name: New Gold Inc									Proctor Data
		Contract N	o: 1003-2	19			D	Date	: Octob	per 6, 20	020	MDD: 1512
		Material T	ested: Cla	ay (CCL) L	.ift 2		Tech: Brysin Shaw					OMC:26.3
Test No.	Test Location:	Elevation	Depth	MC	D	С	WD	)	DD	%M	%Com	Remarks
823	7+743 o/s -36.5m	390.443	200	249.3	9.3 1413.0		198	1	1563	26.8	103.3	Lift 2
824	7+757 o/s -32.1m	389.872	200	247.5	133	38.3	201	0	1596	26.0	105.5	Lift 2
825	7+757 o/s -55.8m	394.139	200	244.7 1420.		20.3	197	8	1569	26.1	103.8	Lift 2
826	7+740 o/s -68.0m	396.447	200	237.8	140	01.0	198	6	1591	24.9	105.2	Lift 2
827	7+782 o/s -49.5m	392.947	200	243.2	138	35.2	199	2	1586	25.6	104.9	Lift 2
Comn	nents:										Legend:	
It was		M	C: Moi	istur	e	WD: We	et	MDD: Maximum Dry				
mater	aterial was dark grey in color, stickiness, plasticity,						Count				,	Density OMC: Ontimum Moisture
moist	ure content seemed	to III.				Cc	ount	5.09		Density		Content

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 6, 2020
	Print Name: Garry Noga	Signature: GN	Date: Oct 6, 2020

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2546	2544	-0.078				
Serial #:	1658	Moisture Standard (MS):	465	476	2.37				

Activi	ty:	Project Na	roject Name: New Gold Inc								Proctor Data
		Contract N	o: 1003-1	19			Da	te: Octol	oer 6, 20	020	MDD: 1512
		Material T	ested: Cla	ay (CCL) L	.ift 2		Те	ch: Brysii	n Shaw	OMC:26.3	
Test No.	Test Location:	Elevation	Depth	Depth MC D		C	WD	DD	%M	%Comp	Remarks
828	7+778 o/s -24.0m	388.9	200	246.7	136	9.5	1998	1585	26.1	104.8	Lift 2
829	7+809 o/s -30.4	390.151	200	233.5	134	9.8	2007	1620	23.9	107.1	Lift 2
Comr	nents:									Legend:	
It was	determined visually	to use proct	or 1512.	The		MC	: Moist	ure	WD: W	et	MDD: Maximum Dry
mate	riai was dark grey in (	to fit	ess, plast	icity,			unt : Densit	v	Density D		OMC: Optimum Moisture
moist	are content seemed	ιο πι.				Co	unt	1	Density		Content

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 6, 2020
	Print Name: Garry Noga	Signature: GN	Date: Oct 6, 2020

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2543	2544	0.039				
Serial #:	1658	Moisture Standard (MS):	463	476	2.81				

Activity	y:	Project Na	me: New	Gold Inc							Proctor Data
		Contract N	o: 1003-:	19			Dat	e: Octob	per 9, 20	020	MDD: 1512
		Material T	ested: Cla	ay (CCL) L	.ift 2		Tec	h: Brysir	า Shaw		OMC:26.3
Test No.	Test Location:	Elevation	Depth	МС	DC	w	D	DD	%M	%Comp	Remarks
830	7+818 o/s - 50.1m	393.397	200	230.0	1409.0	198	83	1600	23.9	105.8	Lift 2
831	7+822 o/s - 16.0m	387.879	200	250.0	1585.3	191	19	1496	28.2	99.0	Lift 2
832	0+035 o/s - 28.6m	390.124	200	240.0	1568.2	192	25	1523	26.5	100.7	Lift 2
832A	0+035 o/s - 29.6m	390.276	200	239.2	1487.8	195	53	1552	25.9	102.6	Lift 2
Comm	ents: determined visually	to use proct	or 1512	The					1		L

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	WD: Wet	MDD: Maximum Dry								
Count	Density	Density								
DC: Density	DD: Dry	OMC: Optimum Moisture								
Count	Density	Content								

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 9, 2020		
	Print Name: Garry Noga	Signature: GN	Date: Oct 9, 2020		

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2543	2544	0.039				
Serial #:	1658	Moisture Standard (MS):	463	476	2.81				

Activity	y:	Project Na	me: New		Proctor Data						
Revise EMRS-	d: Sample ID L2-063	Contract N	o: 1003-1	19			Dat	e: Octo	ber 9, 2	020	MDD: 1512
Dry De Moistu	nsity 1643 Ire 20.4	Material T	ested: Cla	ay (CCL) L	.ift 2	Tech: Brysin Shaw					OMC:26.3
Test No.	Test Location:	Elevation	Depth	MC	DC	C	WD	DD	%M	%Com	o Remarks
830	7+818 o/s - 50.1m	393.397	200	230.0	1409	1409.0		1600	23.9	105.8	Lift 2
										<mark>97.4</mark>	
831	7+822 o/s - 16.0m	387.879	200	250.0	1585	5.3	1919	1496	28.2	99.0	Lift 2
										<mark>91.1</mark>	
832	0+035 o/s - 28.6m	390.124	200	240.0	1568.2		1925	1523	26.5	100.7	Lift 2
										<mark>92.7</mark>	
832A	0+035 o/s - 29.6m	390.276	200	239.2	1487	7.8	1953	1552	25.9	102.6	Lift 2
										<mark>94.5</mark>	
Commo It was o materia	ents: determined visually al was dark grey in c	to use proct olor, high pl	or 1512. asticity, a	The nd sticky	/.			<u> </u>	<u> </u>	Legend:	
Moistu probab	ire content seemed bly could be used go	wet of optim ing forward.	1600 num.	) proctoi		MC: Cou	Moistu nt	ure	WD: We Density	et	MDD: Maximum Dry Density
832A v	832A was a retest of 832 to confirm material was packed					DC: Density Count			DD: Dry C Density C		OMC: Optimum Moisture Content
enougi moistu	n and lower dry den: Ire.	sity was due	to slightl	y higher							

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 9, 2020		
	Print Name: Garry Noga	Signature: GN	Date: Oct 9, 2020		

	Gauge Info		Gauge Standard Readings							
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)					
Model:	5001C	Density Standard (DS):	2538	2544	0.236					
Serial #:	1658	Moisture Standard (MS):	467	476	1.71					

Activi	ty:	Project Na	ame: New Gold Inc Proctor Data									
		Contract N	o: 1003-1	19			Da	te: Octol	oer 10, 2	2020	MDD: 1638	
		Material T	ested: Cla	ay (CCL) L	ift 2		Те	ch: Brysi	OMC:20.2			
Test No.	Test Location:	Elevation	Depth	MC	C	C	WD	DD	%M	%Comp	Remarks	
833	0+048 o/s -25.1m	390.373	200	228.5	135	59.5	2002	1626	23.1	99.3	Lift 2	
834	0+057 o/s -45.1m	394.040	200	232.2	135	1356.8		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	
Comr It was	Comments: It was determined visually to use proctor 1638 because the								•	-	-	
054 t	he most. The materia	al was dark g	rev in co	lor. high	L1-					Legend:		
plasti	city, and sticky. Mois	ture content	seemed	wet of		MC	: Moist	ure	WD: We	et	MDD: Maximum Dry	
optim	num. Material seeme	d consistent	so variab	ility in th	е	DC:	Densit	.v	Density DD: Dry	,	OMC: Optimum Moisture	
dry d	ensities is most likely	caused from	n the moi	sture		Cou	int	,	Density		Content	
conte	ent being nigher or lo	wer in certai	n areas.									

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 10, 2020		
	Print Name: Garry Noga	Signature: GN	Date: Oct 10, 2020		

	Gauge Info		Gauge Standard Readings							
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)					
Model:	5001C	Density Standard (DS):	2538	2544	0.236					
Serial #:	1658	Moisture Standard (MS):	467	476	1.71					

Activity: Project Name: New Gold Inc										Proctor Data		
		Contract N	o: 1003-2	19			Da	te: Octol	oer 10,	2020	MDD: 1638	
		Material Te	ested: Cla	ay (CCL) L	.ift 2		Tee	ch: Brysii	n Shaw	OMC:20.2		
Test No.	Test Location:	Elevation	Depth	MC	D	С	WD	DD	%M	%Comp	e Remarks	
837	0+109 o/s -15.7m	390.215	200	200.3	116	0.8	2092	1770	18.1	108.1	Lift 2	
838	0+109 o/s -46.7m	395.315	200	208.8	126	3.5	2044	1706	19.8	104.1	Lift 2	
Comr	Comments:									Legend:		
							C: Moist	ure	WD: W	et	MDD: Maximum Dry	
							unt • Densit	v	Density	,	Density OMC: Ontimum Moisture	
						Co	unt	7	Density		Content	

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 10, 2020		
	Print Name: Garry Noga	Signature: GN	Date: Oct 10, 2020		

	Gauge Info		Gauge Standard Readings							
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)					
Model:	5001C	Density Standard (DS):	2538	2544	0.236					
Serial #:	1658	Moisture Standard (MS):	467	476	1.71					

Activi	ty:	Project Na	me: New	Gold Inc							Proctor Data	
Revis	ed: Sample ID	Contract N	o: 1003-2	19			Dat	e: Octok	oer 10, 2	2020	MDD: 1638	
Dry D Moist	ensity 1728 ture 18.0	Material Te	.ift 2		Тес	h: Brysir	n Shaw		OMC:20.2			
Test No.	Test Location:	Elevation	Depth	MC	DC	V	VD DD %M		%Comp	Remarks		
833	0+048 o/s -25.1m	390.373	200	228.5	1359.5	2	002	1626	23.1	99.3	Lift 2	
										<mark>94.1</mark>		
834	0+057 o/s -45.1m	394.040	200	232.2	1356.8	2	003	1619	23.7	98.9	Lift 2	
										<mark>93.7</mark>		
835	0+076 o/s -26.4m	391.293	200	208.5	1267.0	2	042	1705	19.8	104.1	Lift 2	
										<mark>98.7</mark>		
836	0+080 o/s -49.9m	395.572	200	197.7	1268.2	2	043	1726	18.3	105.4	Lift 2	
										<mark>99.9</mark>		
Comr It was mate 054 t	Comments: It was determined visually to use proctor 1638 because the material seem to fit the characteristics of sample EMRS-L1- OF 4 the meet. The material was dark grow is caller, high											

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	WD: Wet	MDD: Maximum Dry									
Count	Density	Density									
DC: Density	DD: Dry	OMC: Optimum Moisture									
Count	Density	Content									

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 10, 2020		
	Print Name: Garry Noga	Signature: GN	Date: Oct 10, 2020		

	Gauge Info	)							Gauge S	Stand	ard Rea	adings	;	
Make	: Humbolt							Cali (I	ibration Field)		Referenc (Factory			Difference (%)
Mode	l: 5001C			Dei Standa	nsity rd (D	S):	2538				2544			0.236
Serial #:	1658			Moi Standa	Moisture Standard (MS):		467			476			1.71	
Activi	ty:	me: Ne	w Gold Inc	;									Proctor Data	
Revised: Sample ID EMRS-L2-073 Contract No: 10			o: 100	3-19				Dat	e: Octo	ber 10	), 2020		MDD	): 1638
Dry D Moist	ensity 1728 ure 18.0	ested:	Clay (CCL) I	.ift 2			Tec	h: Brysi	n Sha	w		омо	2:20.2	
Test No.	Test Location:	Elevation	Dept	h MC	C	С	WD		DD	%№	1 %C	omp		Remarks
837	0+109 o/s -15.7m	390.215	200	200.3	116	50.8	2092		1770	18.	1 10	08.1		Lift 2
											10	<mark>)2.4</mark>		
838	0+109 o/s -46.7m	395.315	200	208.8	126	1263.5		)44	1706	19.	8 10	04.1		Lift 2
											<mark>9</mark>	<mark>8.7</mark>		
Comments:						M Co	C: N	loistu	ire	WD: Dens	Lege Wet ity	end: N C	MDD: Maximum Dry Density	
							DC: Density Count			DD: Dry C Density C		OMC: Op Content	otimum Moisture	

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 10, 2020
	Print Name: Garry Noga	Signature: GN	Date: Oct 10, 2020

	Gauge Info		Gauge Standard Readings						
Make:	Humbolt		Calibration (Field)	Reference (Factory)	Difference (%)				
Model:	5001C	Density Standard (DS):	2534	2544	0.395				
Serial #:	1658	Moisture Standard (MS):	467	476	1.71				

Activity: Project Name: New Gold Inc									Proctor Data		
		Contract N	o: 1003-1	19			Da	te: Octol	per 19, 2	2020	MDD: 1638
		Material Te	ested: Cla	iy (CCL) L	.ift 3		Tee	ch: Brysiı	n Shaw		OMC:20.2
Test No.	Test Location:	Elevation	Depth MC D		DC	2	WD	DD	%M	%Comp	Remarks
L3 Chk 1	7+774 o/s -48.9m	393.463	200	249.5	160	0	1912	1495	27.9	91.3	Lift 3
L3 Chk 2	7+799 o/s -11.9m	387.541	200	234.5	136	8	1997	1609	24.1	98.2	Lift 3
Comn	nents:						-	Legend:	·		
L3 NCL moisture content checks were completed using the							1C: Mois	ture	WD: W Densit	/et	MDD: Maximum Dry Density
placement						DC: Density			DD: Dr	y y	OMC: Optimum Moisture
							ount		Densit	у	Content

□ Tulloch	Print Name: Brysin Shaw	Signature: BS	Date: Oct 19, 2020
	Print Name: Garry Noga	Signature: GN	Date: Oct 19, 2020

	Gauge Info					Ga	Jge	Stan	dard Re	adings				
Make:	Humbolt				(	alibra (Fiel)	atio d)	n	Re (F	eference Factory)	9	Difference (%)		
Model:	5001C		D Stand	ensity dard (DS):	255	0	254			2544			-0.23	
Serial #:	1658		M Stand	oisture lard (MS)	: 457				476			3.99	3.99	
Activity:		Pro	oject Name: New Gold Inc										Proctor Data	
		Со	ntract N	lo: 1003-1	.9			Dat	e: Augu	st27, 20	20		MDD: 1447	
		Ma	aterial T	ested: Cla	y (CCL)	CL) Tech: Ted Linley OI					OMC:			
Test No.	Test Location:	Ele	evation	Depth	MC	DC	٧	ND	DD	%M	%Со	omp	Remarks	
500	7+409.6, o/s-44.7m	3	897.5	150	248.5		1	792	1372	30.6	94.8		Lift 1	
501	7+422.2, o/s-38.5m	(1)	897.1	150	255.0		1	.934 1502		28.8	103.8		Lift 1	
Comme It was de dark gre	nts: etermined visually to use proctor y in color, stickiness, plasticity, me	1447 Distu	' becaus ire conte	e the mat ent.	terial wa	s	MC: Moisture			Legend: WD: Wet I Density I			MDD: Maximum Dry Density	
							DC: Cou	Dens Int	ity I	DD: Dry C Density N		OMC: Optimum Moisture Content		

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Aug 27,2020		
	Print Name: Garry Noga	Signature: GN	Date: Aug 27, 2020		

	Gauge Info					Gau	ige S	tand	lard Re	adings				
Make:	Humbolt				(	alibra) Fiel)	tion d)		Re (F	eference actory)	9	Difference (%)		
Model:	5001C		D Stand	ensity dard (DS):	255	C	25			2544			-0.23	
Serial #:	1658		M Stanc	oisture lard (MS)	457				476			3.99	)	
Activity:		Pro	oject Name: New Gold Inc										Proctor Data	
		Со	ntract N	lo: 1003-1	.9	Date: August 27, 2020							MDD: 1447	
		Ma	aterial To	ested: Cla	y (CCL)			Tech	n: Ted L	inley			OMC:	
Test No.	Test Location:	Ele	vation	Depth	MC	DC	W	'D	DD	%M	%Сс	omp	Remarks	
800	7+409.6, o/s-35.6m	3	96.7	200	275.0		19	50	1478	31.9	102.1		Lift 2	
Commer It was de dark gre	nts: etermined visually to use proctor y in color, stickiness, plasticity, me	1447 Distu	' becaus re conte	e the mat ent.	erial wa	s	MC: Mois Coun	ture	١	Lege WD: Wet Density	nd: N	MDD: Maximum Dry Density		
							DC: Density Count			DD: Dry C Density M		OMC: ( Moistu	Optimum re Content	

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Aug 27,2020		
	Print Name: Garry Noga	Signature: GN	Date: Aug 27, 2020		

	Gauge Info						Gaug	ge Star	ndard R	eadings			
Make:	Humbolt					Cal (	brati ield)	ion )	F	Referenc (Factory	e)	Difference (%)	
Model:	5001C		l Star	Density ndard (DS	):	2525	2!		2544	2544		0.75	
Serial #:	1658		N Stan	/loisture Idard (MS	5):	465			476			2.3	86
		Pro	roject Name: New Gold Inc								Proctor Data		
		Con	ntract N	o: 1003-1	19			Dat	e: Augu	ıst 29, 2	020		MDD: 1447
Mat				ested: Cla	iy (CCI	L)		Tec	h: Ted I	inley			OMC:28.5
Test No.	Test Location:	Elev	vation	Depth	МС	DC		WD	DD	%M	%Comp		Remarks
801	7+418, o/s-35.3m	396	6.724	200	240	202	8 3	1789	1389	28.8 96.		0	Lift 2
							+						
Commo	ntc.					<u> </u>				1			
It was determined visually to use proctor 1447 because the material MC: Moisture WD: Wet MDD: Maximu								Maximum Drv					
was darl	was dark grey in color, stickiness, plasticity, moisture content. Count Density Density								/				
							DC: Cou	Densit Int	y [ [ [	DD: Dry Density	0 M	MC: ( oistu	Optimum Ire Content

□ Tulloch	Print Name: Ted Linley	Signature: TL	Date: Aug 29,2020
	Print Name: Andrew Angus	Signature: AA	Date: Aug 29, 2020

Appendix F

Okane Quality Assurance Inspection Reports





Date:	Sept 2	0, 2020		Owner/0	Client:	New Gold Inc.			
Day:	Sunda	У		Okane F	Project #:	1003-01	9		
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	Н	lumidity	40 to 60%		Wind	Low	
Afternoon Cond	Weath		Preci	pitation	0 mm				
Temperature (High/Low)	18	21	Н	lumidity	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)




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 :

# newg

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### Photo #:

Final NCL at toe of slope onto natural ground



Photo #:

Photo #:

**Burrito** 

NCL - lift 4 being placed



### Photo #:

Remaining area requiring final NCL lift (west of instrumentation)



# newgood Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





Photo #:

Toe of WR slope

Photo #:





Date:	Sep 2	1, 2020	Owner/C	Client:	New Go	ld Inc.	
Day:	Monda	ay	Okane F	Okane Project #:		9	
Prepared by:	H Cun	ningham	Project	Location:	Ontario		
Number of Pag	es in Re	port					
Environment	al Con	<u>ditions:</u>					
Morning Condit	tions	Weathe	r Clear		Preci	pitation	0 mm
Temperature (High/Low)	12	22	Humidity	60 to 80%		Wind	Moderate
Afternoon Conc	litions	Weathe	r Clear		Preci	pitation	0 mm
Temperature (High/Low)	19	24	Humidity	40 to 60%		Wind	Moderate
eeting Summ	aries						

- 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





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 :

## newg⊘ld[™] .

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Photo #:

Remaining area to have L4 placed

Photo #:

Dumping of NCL material



Photo #:

Toe of slope with L4 placed



Photo #:

Permeameter installed





Date:	Sep 22, 2020 Owner/Client:		New Gold Inc.					
Day:	Tuesday	Okane Project #:	1003-019					
Prepared by:	H Cunningham	<b>Project Location:</b>	Ontario					
Number of Pag	Number of Pages in Report							
<b>Environment</b>	al Conditions:							
Morning Condit	tions Weather	Clear	Precipitation	0 mm				
Temperature (High/Low)	8 21	Humidity 80 to 100%	% Wind	Still				
Afternoon Cond	litions Weather	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.





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 :

# newg©ld _∎

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Date:	Sep 23, 2020	<b>Owner/Client:</b>	New Gold Inc.	
Day:	Wednesday	Okane Project #:	1003-019	
Prepared by:	H Cunningham	Project Location:	Ontario	
Number of Pag	es in Report			
<b>Environment</b>	al Conditions:			
Morning Condit	tions Weather	Clear	Precipitation	0 mm
Temperature   (High/Low)	19 8	Humidity 80 to 100%	6 Wind	Low
Afternoon Cond	<i>litions</i> Weather	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





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 :

newgald	Rainy Ri Daily Progr <b>PHOTO</b>	ver EMRS ess Reports <b>GRAPHS</b>	okane
Photo #:		Photo #:	
Photo #:		Photo #:	





Date:	Sep 24, 2020	<b>Owner/Client:</b>	New Gold Inc.	
Day:	Thursday	Okane Project #:	1003-019	
Prepared by:	H Cunningham	Project Location:	Ontario	
Number of Pag	es in Report			
<b>Environment</b>	al Conditions:			
Morning Condit	tions Weather	Cloudy	Precipitation	0 mm
Temperature (High/Low)	18 11	Humidity 60 to 80%	Wind	Still
Afternoon Cond	<i>litions</i> Weather	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.





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 :

# newg⊜ld

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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





Date:	Sep 25, 20	)20	Owner/C	Client:	New Go	ld Inc.		
Day:	Friday		Okane F	Project #:	1003-01	9		
Prepared by:	H Cunning	ham	Project	Location:	Ontario			
Number of Pag	Number of Pages in Report							
<b>Environment</b>	al Conditio	ons:						
Morning Condit	tions W	/eather	Rain		Preci	pitation	0 - 5 mm	
Temperature   (High/Low)	16 10	H	lumidity	80 to 100%	6	Wind	Low	
Afternoon Cond	litions W	/eather	Cloudy		Precij	pitation	0 - 5 mm	
Temperature (High/Low)	20 16	E F	lumidity	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.





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 :

# newg⊜ld

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Photo #:

Stockpile sample 2



Photo #:

Photo #:

Stockpile sample 1

Stockpile sample 3



### Photo #:

L2 bulk placement over L1 compacted on Sep 24



# Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 









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							
<b>Environment</b>	al Conditions:						
Morning Condit	tions Weather	r Fair	Precipitation	0 mm			
Temperature   (High/Low)	19 11	Humidity 80 to 100%	% Wind	Still			
Afternoon Cond	litions Weather	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.





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 :

# newgood Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 









Date:	02-Oct-2020	<b>Owner/Client:</b>	New Gold Inc.
Day:	Friday	Okane Project #:	1003-019
Prepared by:	L Thorson	<b>Project Location:</b>	Ontario
Number of Dea	aa in Danart		

Number of Pages in Report

### **Environmental Conditions:**

Morning Condi	itions	Weath	ner	Choose	From List	Preci	pitation	0 mm
Temperature (High/Low)	2	1	н	umidity	60 to 80%		Wind	Low
Afternoon Con	ditions	Weath	ner	Cloudy		Preci	pitation	0 mm
Temperature (High/Low)	3	2	Н	umidity	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





- 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 :



Rainy River EMRS Daily Progress Reports PHOTOGRAPHS





Photo #:

Photo #:

Looking E towards the working sections of the South Slope

Mix of WML and Brenna on working sections



Photo #:

Borehole permeameter installed



### Photo #:

Loose lift of L1 on the SE corner of the EMRS







Date:	03-Oct-2020	Owner/Client:	New Gold Inc.		
Day:	Saturday	Okane Project #:	1003-019		
Prepared by:	L Thorson	<b>Project Location:</b>	Ontario		
Number of Pages in Report					
Environmental Conditions:					

Morning Conditions	Weath	ner Fair	Precipitation	0 mm
Temperature (High/Low)	0	Humidity 60 to 80%	6 Wind	Low
Afternoon Conditions	Weath	Precipitation	0 mm	
Temperature (High/Low)	3	Humidity 40 to 60%	6 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





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 :



Digitally signed by Lyndsey Thorson Date: 2020.10.03 19:11:56 -06'00'









Photo #:

- Packer on L1 (initial left and repacked right)
- L1 surface after initial packing





Photo #:

L1 surface after repacking on high vibration with cleaned drum



### Photo #:

Test area





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							
Environment	al Conditions:						
Morning Condit	<i>ions</i> Weather	Fair	Precipitation	0 mm			
Temperature( (High/Low)	8 2	Humidity 60 to 80%	Wind	Low			
Afternoon Cond	litions Weather	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





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 :



Digitally signed by Lyndsey Thorson Date: 2020.10.04 18:35:35 -06'00'



**PHOTOGRAPHS** 







Photo #:

Photo #:

Loose lift of L1 on east slope working panel more Brenna visible than previous panel

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





**PHOTOGRAPHS** 





Page





Date:	05-Oct-2020	Owner/Client:	New Gold Inc.		
Day:	Monday	Okane Project #:	1003-019		
Prepared by:	L Thorson	<b>Project Location:</b>	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





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 :



Digitally signed by Lyndsey Thorson Date: 2020.10.05 18:57:47 -06'00'

# newgood Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 





## newgald

Rainy River EMRS Daily Progress Reports PHOTOGRAPHS



<image/>	
Photo #:	Photo #:
Clay material encountered in key in trench at SE corner toe	
Photo #:	Photo #:




Wind Low

Date:	06-Oct-2020	Owner/Client:	New Gold Inc.				
Day:	Tuesday	Okane Project #:	1003-019				
Prepared by:	L Thorson	Project Location:	Ontario				
Number of Pag	Number of Pages in Report						
<b>Environment</b>	al Conditions:						
Morning Condit	tions Weathe	r Cloudy	Precipitation	0 - 5 mm			
Temperature (High/Low)	8 8	Humidity 80 to 100%	% Wind	Low			
Afternoon Cond	<i>litions</i> Weathe	r Fair	Precipitation	0 mm			
Temperature	40 0						

Humidity 60 to 80%

## **Meeting Summaries**

(High/Low)

13

9

- 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.





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 :



Digitally signed by Lyndsey Thorson Date: 2020.10.07 06:43:51 -06'00'

# newg©ld[™]

Rainy River EMRS Daily Progress Reports PHOTOGRAPHS





<image>

Photo #:

Photo #:

Sample location on L2 south slope working panel

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







	1							
Date:	07-Oct-2	2020	Owner/0	Owner/Client:		New Gold Inc.		
Day:	Wednes	sday	Okane F	Project #:	1003-01	1003-019		
Prepared by:	L Thors	on	Project	Location:	Ontario			
Number of Pages in Report								
<b>Environment</b>	al Con	<u>ditions:</u>						
Morning Condit	tions	Weathe	er Cloudy		Preci	pitation	0 - 5 mm	
Temperature   (High/Low)	8	5	Humidity	80 to 100%	6	Wind	Low	
Afternoon Conditions Weather			er Cloudy		Preci	pitation	0 - 5 mm	
Temperature (High/Low)	10	8	Humidity	80 to 100%	6	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





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

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CQA / New Gold Representative :



Digitally signed by Lyndsey Thorson Date: 2020.10.07 18:04:06 -06'00'

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Photo #:	Photo #:
Pooled water from heavy rains overnight at BP4 test location	Wet L2 surface on SE corner
<image/>	Photo #:
Pooled water in compacted divots	
i ooled water in compacted divots	





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 Condi	tions	Weath	ner	Clear		Preci	pitation	0 mm
Temperature (High/Low)	9	4	Н	umidity	60 to 80%		Wind	Low
Afternoon Conditions Weather Clear				Preci	pitation	0 mm		
Temperature (High/Low)	12	9	H	umidity	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





- 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 :



Digitally signed by Lyndsey Thorson Date: 2020.10.08 19:25:46 -06'00'

## newg©ld _∎

Rainy River EMRS Daily Progress Reports PHOTOGRAPHS







Photo #:

Photo #:

L2 surface on south slope working face - water pooling in divots but ridges are drying out

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





Date:	Oct 24, 2020	Owner/Client:	New Gold Inc.		
Day:	Saturday	Okane Project #:	1003-019		
Prepared by:	H Cunningham	Project Location:	Ontario		
Number of Pag	es in Report				
Environment	al Conditions:				
Morning Condit	tions Weather	Choose From List	Precipitation	Choose From List	
Temperature (High/Low)		Humidity Choose fro	om List Wind	Choose from List	
Afternoon Cond	litions 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





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 : Digitally signed by Haley Cunningham Haley DN: cn=Haley Cunningham, c=CA, o=Okane Consultants, email=hcunningham@okc-sk.com Cunningham Reason: Date: 2020.10.24 17:45:47 -06'00'

# newgood Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 







### Photo #:

Sample EMRS-L4-092

Photo #:

Finished section of L4



Photo #:

New area cleared for CCL placement trial

Photo :	Ħ
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# newgaid Rainy River EMRS Daily Progress Reports

**PHOTOGRAPHS** 







### Photo #:

Plateau lift 1



Photo #:

Photo #:

Slope compaction area

Plateau compaction area

Photo #:





Date:	Oct 25, 2020		<b>Owner/Client:</b>		New Gold Inc.		
Day:	Sunda	у	Okane Project #:		1003-019		
Prepared by:	H Cun	ningham	Project	Location:	Ontario		
Number of Pag	Number of Pages in Report						
<u>Environment</u>	al Con	<u>ditions:</u>					
Morning Condit	tions	Weather	Cloudy		Precipitation	0 - 5 mm	
Temperature (High/Low)	-4	-6 I	Humidity	0 to 20%	Wind	Low	
Afternoon Conc	litions	Weather	Cloudy		Precipitation	0 mm	
Temperature (High/Low)	-2	-4	Humidity	0 to 20%	Wind	Moderate	
leeting Summaries							
Met with Tulloch a	and New	Gold Operat	ions to de	termine wh	at work was goi	ng 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





### 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 :

# newg©ld ₁

**Rainy River EMRS** Daily Progress Reports **PHOTOGRAPHS** 





Photo #:

Slope WR surface cleared of snow

Plateau WR surface cleared of snow





Slope lift 1



Photo #:

Slope temp





Date:	Oct 26, 2020		Owner/C	lient:	New Gold Inc.		
Day:	Monday		Okane Project #:		1003-019		
Prepared by:	H Cunningh	am I	Project I	Location:	Ontario		
Number of Pag	jes in Report						
<u>Environment</u>	al Condition	<u>s:</u>					
Morning Condi	tions We	ather	Cloudy		Precip	oitation	5 - 10 mm
Temperature (High/Low)	-1 -4	Н	umidity	60 to 80%		Wind	Still
Afternoon Conc	<i>litions</i> We	ather	Choose f	from list	Precip	oitation	Choose from list
Temperature (High/Low)		Ц	umidity	Choose fro	om list	Wind	Choose from list
leeting Summaries							
Met with Garry, it has been decided that construction of the cover system is complete for the							

- notified Garry that Tulloch can continue pro-active sampling along the remaining stockpiles (moisture content and hydrometer)

## Visual Inspection:

lу







## **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 :

newg≋ld	Rainy Ri Daily Progr <b>PHOTO</b>	ver EMRS ress Reports <b>GRAPHS</b>	okane
Photo #:		Photo #:	
Photo #:		Photo #:	



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:							Computati	ons:	
Date	Time	R (cm)	T(°C)	Comments	Q	Elapsed	Rt	к	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





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:						Computati	ons:	
Date	Time	R (cm)	T(°C)	Comments	Q	Elapsed	Rt	к	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





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:							Computati	ons:	
Date	Time	B (cm)	T(°C)	Comments	0	Flansed	Rt	к	Percent
Dute		it (eni)	1( 0)	connents	3	Elapsea	i ce	ĸ	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





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:							Computati	ons:	
Date	Time	R (cm)	T(°C)	Comments	Q	Elapsed	Rt	к	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





## For further information contact:

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