

Final Report Prairie Creek Testing Program

UNITED GEO TEST INC. AND MCGILL UNIVERSITY

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1. Introduction

This document reports on Prairie Creek testing programme completed up to 16th of March 2020.

It includes the results of the characterization of tailings (particle size distribution, specific gravity, XRD and XRF), pH level measurements, as well as the rheological tests together with the Uniaxial Compressive Strength (UCS) tests results of 7, 14, 21, 28 and 56 day cured samples.

This project was a collaborative work of United Geo Test Inc. and McGill University.

2. Disclaimer

These results are relevant to the samples as received and processed only. The report authors or their establishments (United Geo Test Inc. and McGill University) do not hold any responsibility and liability for how this information is used by AMC or/and Prairie Creek Mine, or/and their subsidiaries or clients.

3. Tailing types

On November 27, 2019, 11 buckets (20-liter) of Prairie Creek tailings. the buckets were not labelled. The photos of buckets are presented in Appendix 1. The materials in buckets were submerged in water. AMC advised that 11 buckets of Prairie Creek tailings were identical tailings samples. Therefore, 11 buckets of Prairie Creek Tailings thoroughly mixed using a ribbon drill mixer attached to a power drill and one homogenous representative sample was prepared.

4. Binder

In this project three types of binder were used. These binder samples are:

- GU cement
- GUL cement (with limestone)
- T90 Terraflow

GUL cement and T90 Terraflow binders were obtained from Lafarge Inc. and GU cement was obtained from a Home Depot outlet located in Montreal.

5. Sample preparation

All tailings were homogenized and mixed using a mixer and riffle splitter.

Three 50-gram representative samples from tailings were carefully prepared and sent for XRD, XRF and particle size analysis.

The homogenised samples were carefully stored to prepare UCS samples in the next step.

24 batches of samples will be prepared and cast according to the mixing design provided by AMC and presented in Table 1.

i. Mixing Method

Initially, the required amount of tailings, binders and water were measured separately. Then, tailings and binders were poured into a 5-quart, stainless steel bowl and mixed for one minute at a stirrer rate of 75 RPM. Consequently, the measured water was introduced to the materials and mixed for 5 min.

ii. Casting

Mixtures were poured into cylindrical polyvinyl chloride (PVC) moulds. The dimensions of the PVC moulds are 10 cm long and 5 cm diameter. The moulds were capped and sealed.

iii. Curing

The capped samples were stored in a humidity chamber to cure. The relative dimensions of the chamber are 3×3×2.5 metres. The humidity and temperature in the chamber are controlled and adjusted by a digital control board. The relative humidity was kept constant at $90 \pm 4\%$ and the temperature was adjusted to $22 \pm 2^\circ\text{C}$.

iv. Trimming

Before conducting the tests, the specimens were removed from the moulds and the top and bottom of the samples were trimmed to reach a ratio of 2:1 height to diameter and making sure the top and bottom surfaces are parallel.

v. *Uniaxial compression machine*

The tests were conducted by a 50 kN compression testing machine according to the ASTM D 2166-16 Standard Test Method for Unconfined Compressive Strength of Cohesive Soil (ASTM, 2016d). The press is equipped with a 50 kN load cell and a Linear Variable Displacement Transducer sensor (LVDT). A normal loading rate under displacement control of 1 mm/min was applied by the press control panel. A computer setup and digital data acquisition was employed to obtain and store the data in a computer.

Table 1: Binder mixtures characteristics and mixing design of Prairie Creek samples prepared for UCS tests

| Batch | Test Mixing Design | | | | | |
|-------|--------------------|-------------------|---------------|----------------|-------------------------|----------------------------|
| | PC Tailings (%) | T90 Terraflow (%) | GU Cement (%) | GUL Cement (%) | Solid Concentration (%) | Required Yield Stress (Pa) |
| 1 | 99.0 | 1.0 | 0 | 0 | 78.3 | 250 |
| 2 | 98.0 | 2.0 | 0 | 0 | 78.3 | 250 |
| 3 | 95.0 | 5.0 | 0 | 0 | 78.3 | 250 |
| 4 | 93.0 | 7.0 | 0 | 0 | 78.3 | 250 |
| 5 | 90.0 | 10.0 | 0 | 0 | 78.3 | 250 |
| 6 | 96.5 | 3.5 | 0 | 0 | 77.0 | 100 |
| 7 | 96.5 | 3.5 | 0 | 0 | 78.3 | 250 |
| 8 | 96.5 | 3.5 | 0 | 0 | 78.8 | 350 |
| 9 | 99.0 | 0 | 1.0 | 0 | 78.3 | 250 |
| 10 | 98.0 | 0 | 2.0 | 0 | 78.3 | 250 |
| 11 | 95.0 | 0 | 5.0 | 0 | 78.3 | 250 |
| 12 | 93.0 | 0 | 7.0 | 0 | 78.3 | 250 |
| 13 | 90.0 | 0 | 10.0 | 0 | 78.3 | 250 |
| 14 | 96.5 | 0 | 3.5 | 0 | 77.0 | 100 |
| 15 | 96.5 | 0 | 3.5 | 0 | 78.3 | 250 |
| 16 | 96.5 | 0 | 3.5 | 0 | 78.8 | 350 |
| 17 | 99.0 | 0 | 0 | 1.0 | 78.3 | 250 |
| 18 | 98.0 | 0 | 0 | 2.0 | 78.3 | 250 |
| 19 | 95.0 | 0 | 0 | 5.0 | 78.3 | 250 |
| 20 | 93.0 | 0 | 0 | 7.0 | 78.3 | 250 |
| 21 | 90.0 | 0 | 0 | 10.0 | 78.3 | 250 |
| 22 | 96.5 | 0 | 0 | 3.5 | 77.0 | 100 |
| 23 | 96.5 | 0 | 0 | 3.5 | 78.3 | 250 |
| 24 | 96.5 | 0 | 0 | 3.5 | 78.8 | 350 |

6. Results

6.1. Tailings Physical Properties

The specific gravity of the tailings was measured using a pycnometer (ASTM D 854 – 10). The tests results are presented in Table 2.

Table 2: The physical properties of the Prairie Creek tailings

| Material | Colour | Specific Gravity |
|------------------------|-------------|------------------|
| Prairie Creek Tailings | Bright gray | 2.70 |

6.2. Tailings Particle Size

The particle size distribution of tailings was investigated by conducting the sieve analysis and the laser diffraction particle sizing technique. For these tests, two 500-gram representative samples were carefully selected and prepared using a riffle sample splitter from Prairie Creek Tailings. The size distribution of particles and the results are shown in Figure 1.

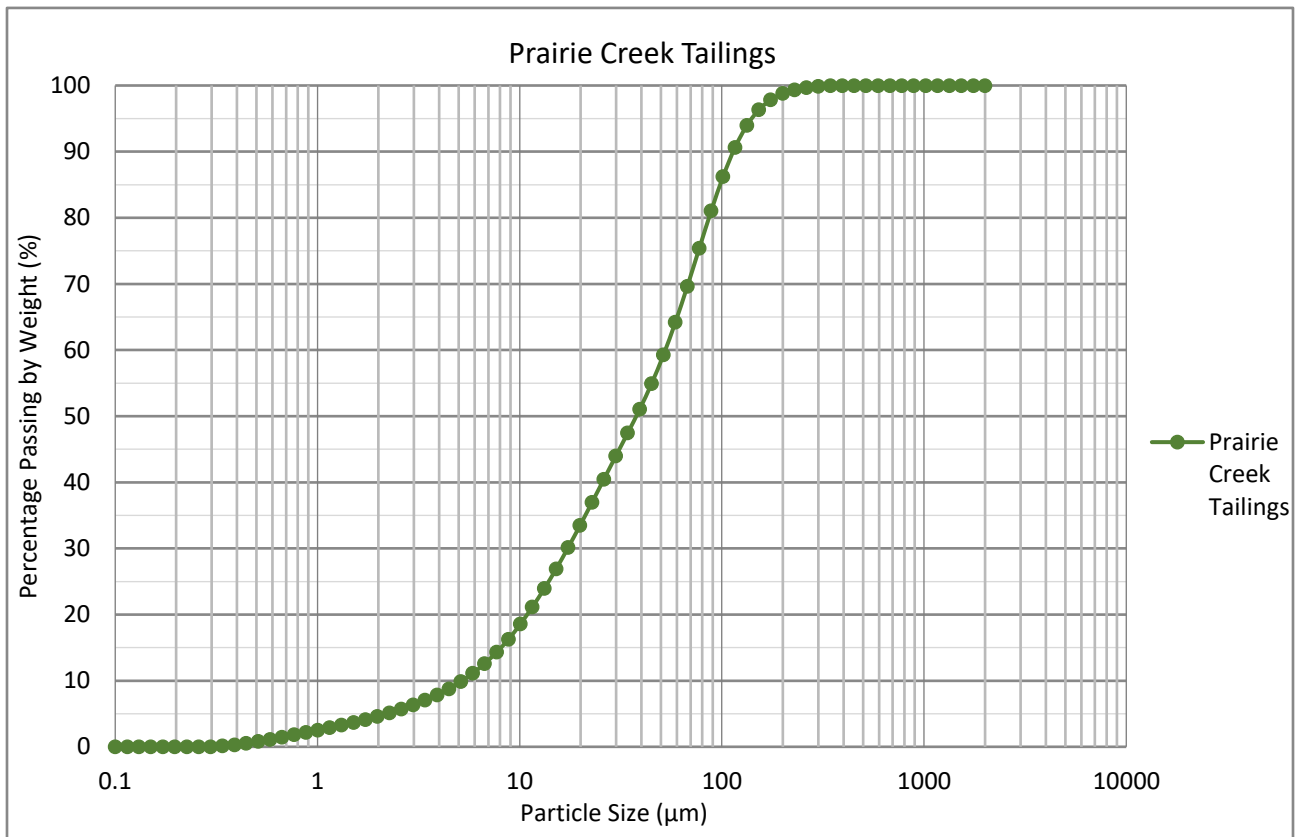


Figure 1: The particle size distribution graph of the Prairie Creek tailings

The coefficient of uniformity and curvature were calculated and presented in Table 3.

Table 4 presents the Percentage of Sand, Silt and Clay based on MIT soil classification system. It can be seen that the majority of Prairie Creek tailings particles are within the range of silt. Additionally, there is a considerable amount of sand and clay-sized particles in the Prairie Creek tailings, so considering the M.I.T. classification system Prairie Creek tailings can be classified as Sandy-Silt with some Clay.

It is also observed that 34% of tailings particles are smaller than 20 microns.

Table 3: Coefficients of uniformity and curvature of the Prairie Creek tailings.

| | Tailings |
|---|-----------------|
| D₁₀ (microns) | 5.15 |
| D₃₀ (microns) | 17.35 |
| D₅₀ (microns) | 38.85 |
| D₆₀ (microns) | 51.67 |
| D₉₀ (microns) | 116.21 |
| Cu $C_u = \frac{D_{60}}{D_{10}}$ | 10.03 |
| Cc $C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ | 1.13 |

Table 4: Percentage of Sand, Silt and Clay base on MIT soil classification system

| | Prairie Creek Tailings |
|--|-------------------------------|
| Sand (% passing 2 mm-%passing 0.06mm) | 34.50% |
| Silt (% passing 0.06 mm-%passing 0.002mm) | 60.50% |
| Clay (% 0.00 2mm) | 5.00% |

6.3. Tailings Mineralogy

The mineralogy of the Prairie Creek tailings was studied using the x-ray diffraction (XRD) method and presented in Appendixes 2. The XRD results are summarized in Table 5. The results indicate that the tailing samples consisted predominantly of Quartz, Calcium Magnesium Carbonate and Calcium Carbonate. The elemental composition of Prairie Creek tailings was analysed using the X-ray fluorescence (XRF) method and presented in Table 6.

Table 5: Prairie Creek tailings mineralogy

| | Phase | Mineral | Chemical | Formula |
|------------------------|-------|----------|-----------------------------|-------------------------------------|
| Prairie Creek Tailings | Major | Quartz | | SiO ₂ |
| | Major | Dolomite | Calcium Magnesium Carbonate | CaMg(CO ₃) ₂ |
| | Minor | Calcite | Calcium Carbonate | Ca CO ₃ |

Table 6: Prairie Creek tailings XRF result

| Formula | Concentration (%) |
|--------------------------------|-------------------|
| SiO ₂ | 31.82 |
| Al ₂ O ₃ | 26.56 |
| Fe ₂ O ₃ | 17.05 |
| MgO | 15.44 |
| CaO | 2.94 |
| Na ₂ O | 1.59 |
| K ₂ O | 1.34 |
| TiO ₂ | 0.77 |
| P ₂ O ₅ | 0.75 |
| MnO | 0.34 |
| Cr ₂ O ₃ | 0.32 |
| V ₂ O ₅ | 0.0798 |
| LOI | 0.0596 |
| Co | < 0.01 |
| Ni | < 0.01 |
| Cu | 0.03 |
| Zn | 0.028 |
| Mo | < 0.01 |
| Pb | 0.53 |
| Sum | 98.3 |

6.4. Rheological Characterisation

In order to measure the rheological properties of the materials and yield stress of the samples a rotational desktop shear vane rheometer was used. Table 7 shows the rheometer specifications.

Table 7: Rheometer Specification

| | |
|--------------------------------|-----------------------|
| Rheometer | HAAKE Viscotester 550 |
| Vane | FL 100 |
| Vane Diameter (mm) | 22 |
| Vane Height (mm) | 16 |
| Rotation Rate (deg/min) | 75 |
| Rate of Shear (1/s) | 0.04355 |
| Room Temperature (°C) | 22 |

Two batches of samples were prepared according to the mixing design provided by AMC and presented in Table 8. For the preparation of the samples, initially two 3-Kg representative samples were carefully selected and prepared using a riffle sample splitter from Prairie Creek tailings. One of the 3 Kg-tailing samples was mixed with 3.5% of GU cement by total dry weight of the sample. Water was added to the mixtures in order to make a thick paste. The samples were sheared with the rheometer and the yield stress and solid concentration were measured. A small amount of water was added to the mixture and the test repeated until the yields shear stress dropped below 70 Pa. The shear yield stress profiles of the samples are presented in Figure 2.

As expected, it was observed that the yield shear stress of the samples was increased exponentially with solids concentration. The yield stress versus solids concentration curves were developed by fitting exponential trendlines to the data and presented in Figure 2. The equations for these curves are presented in Table 9. The solid concentrations of material corresponding to 100 Pa, 150 Pa, 250 Pa and 350 Pa yield stresses are presented in Table 10.

Table 8: Sample mixture characteristics and mixing design of backfill samples prepared for rheology tests

| Batch | Test Mixing Design | |
|------------------------------|------------------------|-----------|
| | Prairie Creek Tailings | GU Cement |
| Prairie Creek No Binder | 100.0% | 0.0% |
| Prairie Creek 3.5% GU Cement | 96.5% | 3.5% |

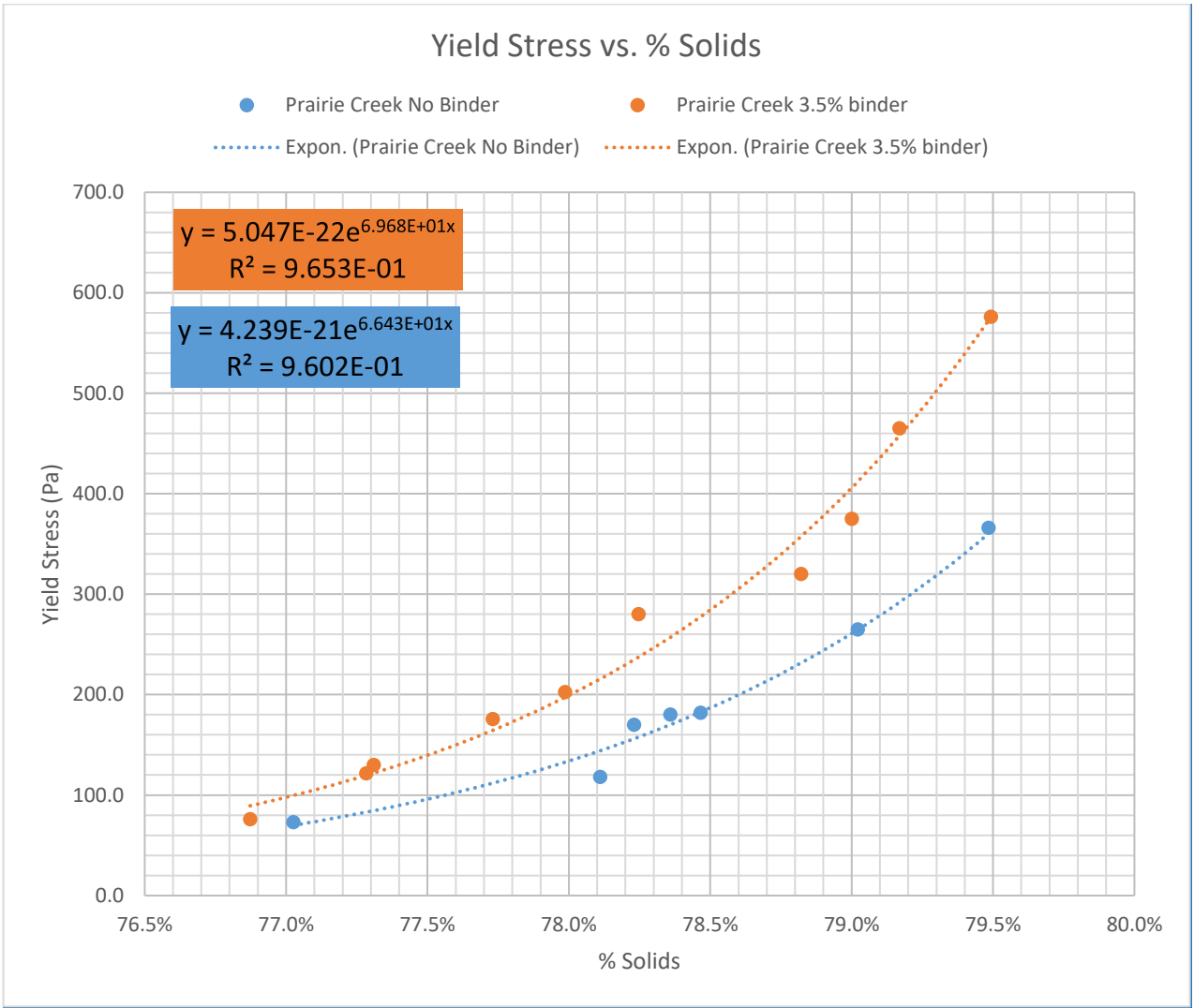


Figure 2: Shear yield stress vs. solids concentration of the Prairie Creek tailings

Table 9: The yield stress versus solids concentration curve equations

| Batch | Equations | Range |
|------------------------------|------------------------------------|---------------------|
| Prairie Creek No Binder | $\tau_y = 3.46E - 21e^{6.67E+01x}$ | $0.770 < x < 0.795$ |
| Prairie Creek 3.5% GU cement | $\tau_y = 5.05E - 22e^{6.97E+01x}$ | $0.770 < x < 0.795$ |

τ_y is the yield stress (Pa) and x is the solid concentration.

Table 10: The solid concentrations of paste corresponding to 100 Pa, 150 Pa, 250 Pa and 350Pa yield stresses

| Batch | Test Mixing Design | | Solid Concentration at 100 Pa yield stress (%) | Solid Concentration at 150 Pa yield stress (%) | Solid Concentration at 250 Pa yield stress (%) | Solid Concentration at 350 Pa yield stress (%) |
|------------------------------|------------------------|-----------|--|--|--|--|
| | Prairie Creek Tailings | GU cement | | | | |
| Prairie Creek No Binder | 100.0% | 0.0% | 77.6 | 78.2 | 78.9 | 79.4 |
| Prairie Creek 3.5% GU cement | 96.5% | 3.5% | 77.0 | 77.6 | 78.3 | 78.8 |

The Boger slump test conducted with 78mm Boger stainless cylinder and the results presented in Figure 3, and Appendix 3.

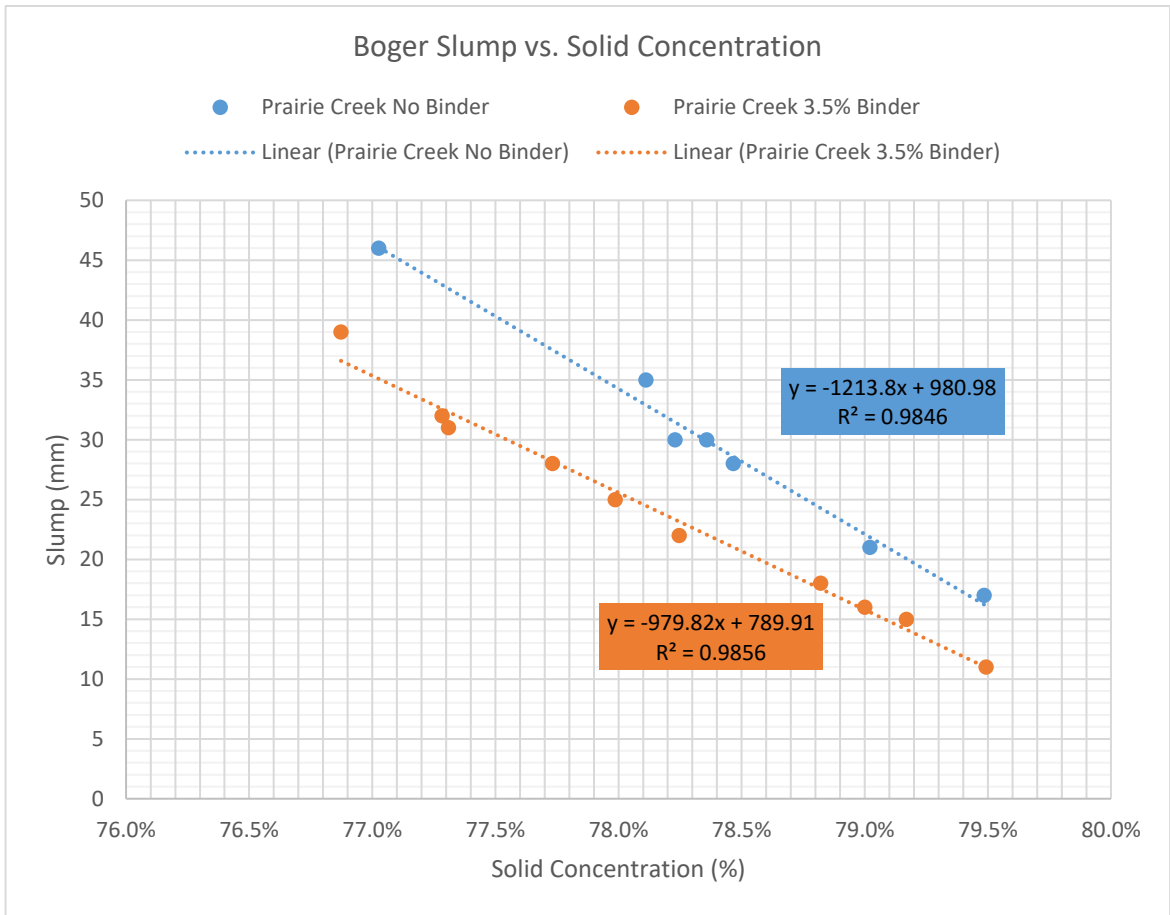


Figure 3: Boger Slump vs solid concentration

6.5. pH Measurements

The pH levels of materials were measured according to ASTM, Standard Test Methods for pH of Soils, D4972-01. The pH levels of the tailing sample mixed with GU Portland Cement at 5 different percentages (0%, 2%, 5%, 8%, and 10%) were measured and presented in Table 11 and presented in Figure 4.

Table 11: pH level of tailings prepared with GU Portland Cement

| Batch | Test Mixing Design | | |
|------------------------|----------------------------|---------------|------|
| | Prairie Creek Tailings (%) | GU Cement (%) | pH |
| 1 | 98.0 | 2.0 | 11.6 |
| 2 | 95.0 | 5.0 | 12.1 |
| 3 | 92.0 | 8.0 | 12.4 |
| 4 | 90.0 | 10.0 | 12.5 |
| Prairie Creek Tailings | 100.0 | 0.0 | 7.6 |

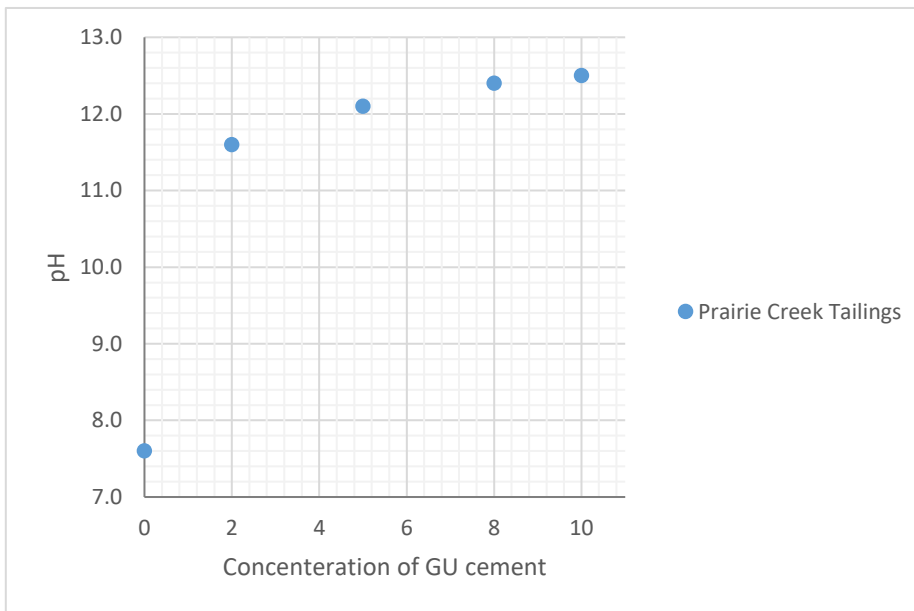


Figure 4: pH vs binder concentration

6.6. UCS Results

It is important to note that two samples of the same kind for each parameter were tested for 7, 14 and 21 day cured samples, and an average result has been presented here in the sample labels and their corresponded UCS results are shown in Table 12.

Table 12: UCS Results

| Batch # | Prairie Creek Tailings (%) | T90 Terraflow (%) | GU Cement (%) | GUL Cement (%) | Solid Concentration (%) | Required Yield Stress (Pa) | 7 days (MPa) | 14 days (MPa) | 21 days (MPa) | 28 days (MPa) | 56 days (MPa) |
|---------|----------------------------|-------------------|---------------|----------------|-------------------------|----------------------------|--------------|---------------|---------------|---------------|---------------|
| 1 | 99.0 | 1.0 | 0 | 0 | 78.3 | 250 | N.M. | N.M. | N.M. | N.M. | N.M. |
| 2 | 98.0 | 2.0 | 0 | 0 | 78.3 | 250 | N.M. | N.M. | N.M. | N.M. | N.M. |
| 3 | 95.0 | 5.0 | 0 | 0 | 78.3 | 250 | N.M. | N.M. | N.M. | N.M. | N.M. |
| 4 | 93.0 | 7.0 | 0 | 0 | 78.3 | 250 | N.A. | N.A. | N.A. | N.M. | 0.31 |
| 5 | 90.0 | 10.0 | 0 | 0 | 78.3 | 250 | N.A. | N.A. | N.A. | N.M. | 3.7 |
| 6 | 96.5 | 3.5 | 0 | 0 | 77.0 | 100 | N.M. | N.M. | N.M. | N.M. | N.M. |
| 7 | 96.5 | 3.5 | 0 | 0 | 78.3 | 250 | N.M. | N.M. | N.M. | N.M. | N.M. |
| 8 | 96.5 | 3.5 | 0 | 0 | 78.8 | 350 | N.M. | N.M. | N.M. | N.M. | N.A.. |
| 9 | 99.0 | 0 | 1.0 | 0 | 78.3 | 250 | N.M. | N.M. | N.M. | N.M. | 0.08 |
| 10 | 98.0 | 0 | 2.0 | 0 | 78.3 | 250 | N.M. | 0.08 | 0.21 | 0.26 | N.A. |
| 11 | 95.0 | 0 | 5.0 | 0 | 78.3 | 250 | 0.04 | 0.53 | 0.63 | 0.69 | 0.75 |
| 12 | 93.0 | 0 | 7.0 | 0 | 78.3 | 250 | N.A. | N.A. | N.A. | 1.15 | N.A. |
| 13 | 90.0 | 0 | 10.0 | 0 | 78.3 | 250 | N.A. | N.A. | N.A. | 1.98 | 2.27 |
| 14 | 96.5 | 0 | 3.5 | 0 | 77.0 | 100 | N.M. | 0.27 | 0.36 | 0.40 | N.A. |
| 15 | 96.5 | 0 | 3.5 | 0 | 78.3 | 250 | N.M. | 0.32 | 0.44 | 0.47 | 0.54 |
| 16 | 96.5 | 0 | 3.5 | 0 | 78.8 | 350 | N.M. | 0.37 | 0.51 | 0.55 | N.A. |
| 17 | 99.0 | 0 | 0 | 1.0 | 78.3 | 250 | N.M. | N.M. | N.M. | N.M. | N.M. |
| 18 | 98.0 | 0 | 0 | 2.0 | 78.3 | 250 | N.M. | N.M. | N.M. | 0.06 | N.A. |
| 19 | 95.0 | 0 | 0 | 5.0 | 78.3 | 250 | N.M. | 0.35 | 0.51 | 0.55 | 0.61 |
| 20 | 93.0 | 0 | 0 | 7.0 | 78.3 | 250 | N.A. | N.A. | N.A. | 0.99 | N.A. |
| 21 | 90.0 | 0 | 0 | 10.0 | 78.3 | 250 | N.A. | N.A. | N.A. | 1.71 | 1.91 |
| 22 | 96.5 | 0 | 0 | 3.5 | 77.0 | 100 | N.M. | 0.20 | 0.30 | 0.36 | N.A. |
| 23 | 96.5 | 0 | 0 | 3.5 | 78.3 | 250 | N.M. | 0.29 | 0.36 | 0.42 | 0.51 |
| 24 | 96.5 | 0 | 0 | 3.5 | 78.8 | 350 | N.M. | 0.35 | 0.45 | 0.49 | N.A. |

N.M. = Not Measurable (UCS value of the sample was too low and cannot be measurable)

N.A. = Not Available (The sample was not requested and prepared)

Appendix 1: Photos of the Prairie Creek samples



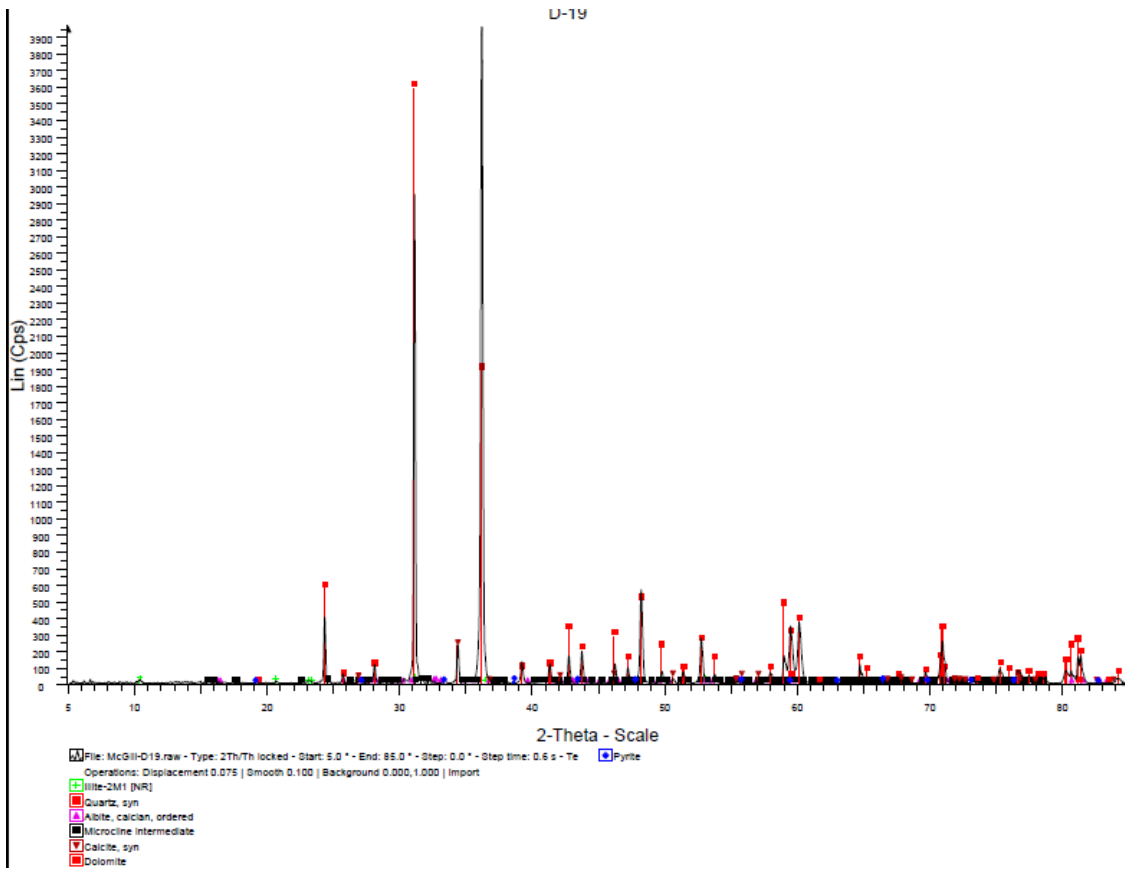
Appendix 2: Prairie Creek tailings XRD analysis result

Prairie Creek tailings

Anchor Scan Parameters

| | |
|----------------------------|--|
| Dataset Name: | PCI_01_exported |
| File name: Geo Test United | C:\LHS\PCI\PCI_01_exported.raw |
| Comment: | Scan Mode: Step scan mode |
| | Scan Type: Detector Scan |
| | Goniometer Stage: Standard stage |
| | Goniometer Control: Diffractometer Controller only |
| | Sample Changer: Unknown Sample Changer |
| | Measurement Flag: Already measured |
| | Sync. Axis: Unknown Sync Axis |
| | Beam Optics: Unknown Beam Optics Flag |
| | Monochromator: Unknown Monochromator |
| | Analyzer: Unknown Analyzer |
| Measurement Date / Time: | 16/12/2019 |
| Raw Data Origin: | BRUKER-binary V4 (.RAW) |
| Scan Axis: | Gonio |
| Start Position [°2Th.]: | 3.1850 |

| | Prairie Creek Tailings | Chemical Formula |
|--|------------------------|-------------------------|
| Illite (mica) | 0.8 | (K;H3O)Al2Si3AlO10(OH)2 |
| Quartz | 53.2 | SiO2 |
| Albite | 0.5 | (Na;Ca)Al(Si;Al)3O8 |
| Microcline | 1.2 | K(Si0.75Al0.25)4O8 |
| Calcite | 5.8 | CaCO3 |
| Dolomite | 37.8 | CaMg(CO3)2 |
| Pyrite | 0.7 | FeS2 |
| Total | 100 | |
| sample has also some minerals, like smectite | | |



Appendix 3: Boger Slump vs Yield stress

Slump Yield Stress No Binder

| Test | Cylinder Height (mm) | Slump Height (mm) | Solid (%) | SG solid | SG water | YS Measured (Pa) | pH |
|----------------------------|----------------------|-------------------|-----------|----------|----------|------------------|-----|
| Prairie Creek -NO_BINDER_1 | 76 | 17 | 79.5 | 2.7 | 1 | 366 | 7.6 |
| Prairie Creek -NO_BINDER_2 | 76 | 21 | 79 | 2.7 | 1 | 265 | 7.6 |
| Prairie Creek -NO_BINDER_3 | 76 | 28 | 78.5 | 2.7 | 1 | 182 | 7.6 |
| Prairie Creek_NO_BINDER_4 | 76 | 30 | 78.4 | 2.7 | 1 | 180 | 7.6 |
| Prairie Creek -NO_BINDER_5 | 76 | 30 | 78.2 | 2.7 | 1 | 170 | 7.6 |
| Prairie Creek -NO_BINDER_6 | 76 | 35 | 78.1 | 2.7 | 1 | 118 | 7.6 |
| Prairie Creek -NO_BINDER_7 | 76 | 46 | 77 | 2.7 | 1 | 73 | 7.6 |

Slump Yield Stress 3.5% Binder

| Test | Cylinder Height (mm) | Slump Height (mm) | Solid (%) | SG solid | SG water | YS Measured (Pa) | pH |
|------------------------------|----------------------|-------------------|-----------|----------|----------|------------------|------|
| Prairie Creek _3.5%BINDER_1 | 76 | 11 | 79.5 | 2.7 | 1 | 576 | 11.9 |
| Prairie Creek _3.5%BINDER_2 | 76 | 15 | 79.2 | 2.7 | 1 | 465 | 11.9 |
| Prairie Creek _3.5%BINDER_3 | 76 | 16 | 79 | 2.7 | 1 | 375 | 11.9 |
| Prairie Creek _3.5%BINDER_4 | 76 | 18 | 78.8 | 2.7 | 1 | 320 | 11.9 |
| Prairie Creek _3.5%BINDER_5 | 76 | 22 | 78.2 | 2.7 | 1 | 280 | 11.9 |
| Prairie Creek _3.5%BINDER_6 | 76 | 25 | 78 | 2.7 | 1 | 203 | 11.9 |
| Prairie Creek _3.5%BINDER_7 | 76 | 28 | 77.7 | 2.7 | 1 | 176 | 11.9 |
| Prairie Creek _3.5%BINDER_8 | 76 | 31 | 77.3 | 2.7 | 1 | 130 | 11.9 |
| Prairie Creek _3.5%BINDER_9 | 76 | 32 | 77.3 | 2.7 | 1 | 122 | 11.9 |
| Prairie Creek _3.5%BINDER_10 | 76 | 39 | 76.9 | 2.7 | 1 | 76 | 11.9 |