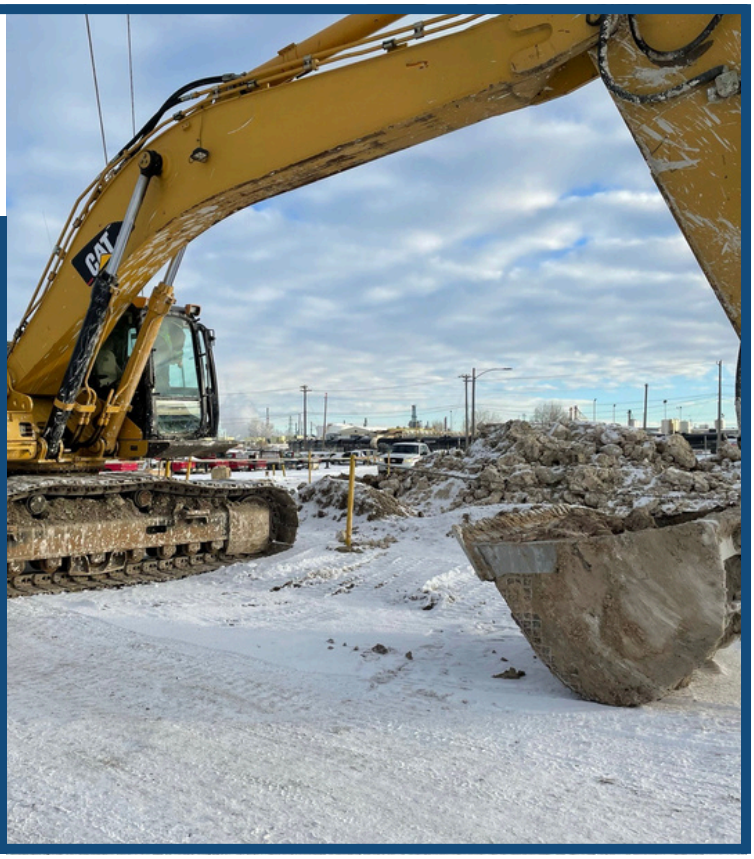
CORE

PROJECT PROFILE:

LIME SAMPLING PROGRAM

Transforming waste into a valuable soil enhancer for healthier, higher-quality crops.



PROJECT DESCRIPTION

CORE was engaged to deliver a comprehensive management program for the sampling, classification, and valorization of approximately 8,000 m³ to 11,000 m³ of lime recovered from a clay-lined retention pond.

The program focused on determining the reuse potential of the lime through systematic sampling and analysis. Lime offers significant agronomic benefits, including enhancing soil pH, improving nutrient uptake, and increasing crop resilience against pathogens such as clubroot in canola.

Through this work, CORE advanced opportunities for beneficial reuse while supporting sustainable resource recovery and circular economy objectives.

LOCATION
Edmonton, AB

CLIENT
Confidential

CONTRACT VALUE
Undisclosed

STAKEHOLDERS
Energy Company
Agricultural Landowner

SCHEDULE
Start Date: November 2020
End Date: Ongoing

PROJECT RELEVANCE
- Development of Systematic Sampling Plan
- Regulator Engagement
- Waste Valorization

SCOPE OF WORK

CORE developed and implemented a Sampling and Material Classification Plan to guide the evaluation and management of lime material on site.

An excavator was utilized to excavate, mix, and aerate the lime prior to placement into stockpiles of approximately 500 m³ each. Representative samples were collected from these stockpiles and submitted for laboratory analysis to determine the presence of potential contaminants and elements of interest.

Based on the analytical results, the material was segregated into three categories:

1. Re-usable Lime
2. Potentially Re-usable Lime
3. Non-usable Lime

Subsequent consideration was given to the potentially re-usable lime for beneficial reuse opportunities, including as a soil amendment or as feedstock in concrete production, depending on its analytical characteristics and suitability.

SPECIFIC SERVICES

- Site visit
- Development of field instructions for assessment
- Health and safety planning
- Lime sampling
- Tabulation and management of data in accordance with a QC/QA program
- Provision of drawings and elevation surveys
- Final reporting
- Submission and execution of a systematic sampling plan

PROJECT OUTCOME

The sampling and classification program provided the client with a clear and defensible understanding of the lime material's environmental and reuse potential. Through careful material management and testing, CORE was able to identify a significant portion of lime suitable for beneficial reuse, reducing the need for off-site disposal and supporting circular economy objectives.

The project demonstrated CORE's commitment to innovative, sustainable solutions that balance environmental responsibility with operational efficiency.

To learn more and talk about your project needs, connect with us: **core-canada.com**