

### Document Information Form

Mine Number: C/007/004

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To: DOGM

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Explanation:

Methodology Document.

cc:

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On September 1, 1981, a systematic soil collection was made on the Crandall Canyon upper site. Three kinds of samples were taken: A composite sample of "topsoil" from the proposed leachfield area, buried topsoil layers exposed by stream erosion and topsoil and subsoil materials from the upper site between Stations -2+00 to -8+00 on the "A" base line. These samples were taken for submittal to the State Soils Lab for determination of nutrient deficiency and subsequent adjustment by soil amendments. The locations of sample collection site was accomplished using station marked by PRCC surveyors on the "A" base line at 100' intervals (see attached map).

#### METHODOLOGY

- Materials and equipment.

Soil testing data collection forms

3/4" dia. tubular oakfield soil probe

Suunto Clinometer

Silva forester's compass

1 litre capacity plastic bags

Appropriate maps

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- Leachfield:

The upper 6 inches of soil material was probed at 10 random locations. The 10 cores were broken and mixed and submitted as one sample. Holes at Stations 32+00 and 33+00 were described on Data Collection forms (included).

- Buried Topsoil Layers:

Samples were extracted from erosion exposed layers observed at about Station -13+00 on the south side of the stream channel. Identification of the layers as buried topsoil was based on the dark brown

color, loamy texture and occurrence of organic detritus. Samples for testing were taken at least 12" behind the exposed surface. These samples were taken for comparative purposes only. They are listed on the lab data as BT/1 and BT/2. BT/1 is a layer 4"-6" thick, 20" to 36" below the present surface. BT/2 is 2"-6" thick, 60" to 70" below the present surface.

- Upper Site Between Stations -2+00 and -8+00:

Soil sampling in this area was done in a manner so as to provide data which allows the differentiation of the various parameters to be observed on the basis of depth and change in elevation. Referring to the enclosed map; note that the "A" line and cross-section lines at certain stations have been intensified. Samples were collected at 50' intervals along cross-section Stations -2+00, -4+00, -6+00 and -8+00. The 50' intervals have been identified as North (N) or South (S) 1, 2, 3, etc. Each 50' x 200' point was probed and three categories bagged separately (only where a point falls within the proposed perimeter). For instance; on line, -2+00, five points were probed. All materials from 0"-6" were mixed in one bag. 6"-12" and 12"-24" were handled the same. The result was three samples collected from the five holes on line - 2+00. These are labelled on the lab reports as 2A, 2B and 2C (2A being the 0"-6" sample, etc.). This procedure was continued throughout. A total of 19 holes were probed, 57 individual cores collected which were selectively mixed to produce 12 samples. The points within the triangles indicate the data collection forms\* were completed. Samplings were not collected east of line - 2+00, since most of the area has had topsoil removed and is nearly at the final development grade.

This method used for collection was used so that some of the information required by UMC 817.22(e) could be acquired prior to removal of materials. We will, most likely, have several thousand yards of excess material generated by upper site development.

This material could be useful as either covering for refuse piles or re-soiling materials on some of our many pre-law areas.

\*These forms were filled out at each hole to record some potentially useful information, but make no attempt at being actual soil descriptions.