

HDP-PR-FSS-701, Final Status Survey Plan Development  
APPENDIX P-6  
FSS FIELD LOG

Survey Area: 05 Description: Barns/Cistern Area  
Survey Unit: 01 Description: Limestone Slope

**FSS Field Log:**

<b><u>Date/Time:</u></b>	<b><u>Observation or Comment:</u></b>	<b><u>Technician</u></b>
08/29/2013	Collected the horizontal five (5) horizontal cores from the limestone slope.	M. Bresnahan
Shift Notes	Previous experience collecting vertical samples in this rocky area precluded	
Rad. Eng.	the use of hand augers due to the sample holes collapsing and the small rocks.	
	falling out of the auger upon retrieval.	
	The technique of driving metal pipes into the hillside was selected by Rad.	
	Engineering based on previous success collecting vertical samples in this area.	
	The cores were selected after the slope had been excavated to an approx.	
	1:1 slope. The five locations were selected based on visual observations of	
	the slope, with the intent of determining the limestone remaining after	
	excavation to the 1:1 slope. See the associated map for the approximate	
	locations of these horizontal sample locations.	
	For each location, a 1-1/2-inch diameter pipe was driven approximately	
	parallel to surface grade of the survey unit. Tools such as fence post drivers	
	and 3-lb sledge hammers were used to drive the pipe into the hillside and	
	collect material within its inner diameter. The pipes were driven to refusal	
	and removed.	
	Each pipe was then cut into one foot sections using a band saw and visually	
	inspected to determine the nature of material (soil vs. limestone rock). All	
	material was collected into a single composite sample for each individual pipe.	
	(continued on next page)	

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<b><u>Date/Time:</u></b>	<b><u>Observation or Comment:</u></b>	<b><u>Technician</u></b>
08/29/2013	(continuation)	M. Bresnahan

Shift Notes	Collection of the horizontal five (5) horizontal cores from the limestone slope.	
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Rad. Eng.	Assistance provided by HDP Operations sampling technicians & HP Support.	
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Details on the five (5) horizontal samples are provided below:

Sample ID	Time	Easting	Northing	Lateral Extent	Note
L050199TUB00	13:00	826549.38	864607.15	0 – 2.0 ft	Refusal
L0501100TUB00	13:15	826545.15	864610.43	0 – 5.0 ft	Refusal
L0501101TUB00	13:30	826557.55	864615.12	0 – 2.0 ft	Refusal
L0501102TUB00	13:45	826550.22	864620.44	0 – 3.5ft	Refusal
L0501103TUB00	14:00	826537.94	864583.47	0 – 1.5ft	Refusal

All samples taken were difficult to distinguish limestone rock (used for filtering operations at Hematite) from native rocky materials. In addition, all samples were taken to the point of refusal (i.e., the sample crew could not drive the pipe any further into the hillside). Refusal at each location was due to encountering a solid, impenetrable object – likely a large rock or a slab of slate that is native and common to the hillside area.

This qualitative determination was based on sound and “feel” of the refusal, indicating the presence of stone and precluding the ability to collect a soil sample beyond the lateral extent of limestone. Since refusal was encountered at all locations, it was not possible to collect soil samples beyond extent of limestone.

END NOTES