Modot

Geotechnical in House Method

Insoluble Residue Test

Sample #	09MSDO558	Station	208+89.5	Offset	77.3' LT
Project	TMTIPROJ	County	JOHNSON	Route	13
Depth	23.9	Tech	KLL/BJB	Date	3-31-10

Interpretation

1. If 50% or more of the original weight is lost in solution by treatment with acid, the material will be classified as limestone or dolomite, both which are Class C material.

- 2. If less than 50% dissolves, the material will be classed as sand or shale, pending the results of the sieve test.
- 3. If 50% or more of the insoluble material is retained on the #270 sieve it will be classed as sand.
- 4. If more the 50% of the insoluble residue passes the #270 the material will be classed as shale.

Sample Original Wt.	100.0) g	Beaker # _ 7
Insoluble Residue Wt. after Acid Treatment	97.5	_ g	
Acid Soluble %	2.5	%	Dolomite or Limestone if 50% or greater Acid Soluble
Insoluble Residue %	97.5	%	X Sand or Shale, if 50% or greater Insoluble Residue

Insoluble Residue Total Wt.	97.5	g	Percen	t
Insol Res Retained on #270	7.69	g	Passing	
Retained #10 Seive	0	g	100.0	%
#40 Seive	3.37	g	96.5	%
#100 Seive	3.03	g	93.4	%
#200 Seive	.98	g	92.4	%
#270 Seive	.31	g	92.1	%

89.81 g

7.9

92.1



% Insol Res Retained #270

Insoluble Res Passing #270

% Insol Res Passing #270

% SAND if 50% or greater RETAINED on #270

% X SHALE if 50% or greater PASSES #270

Revision 12-28-09