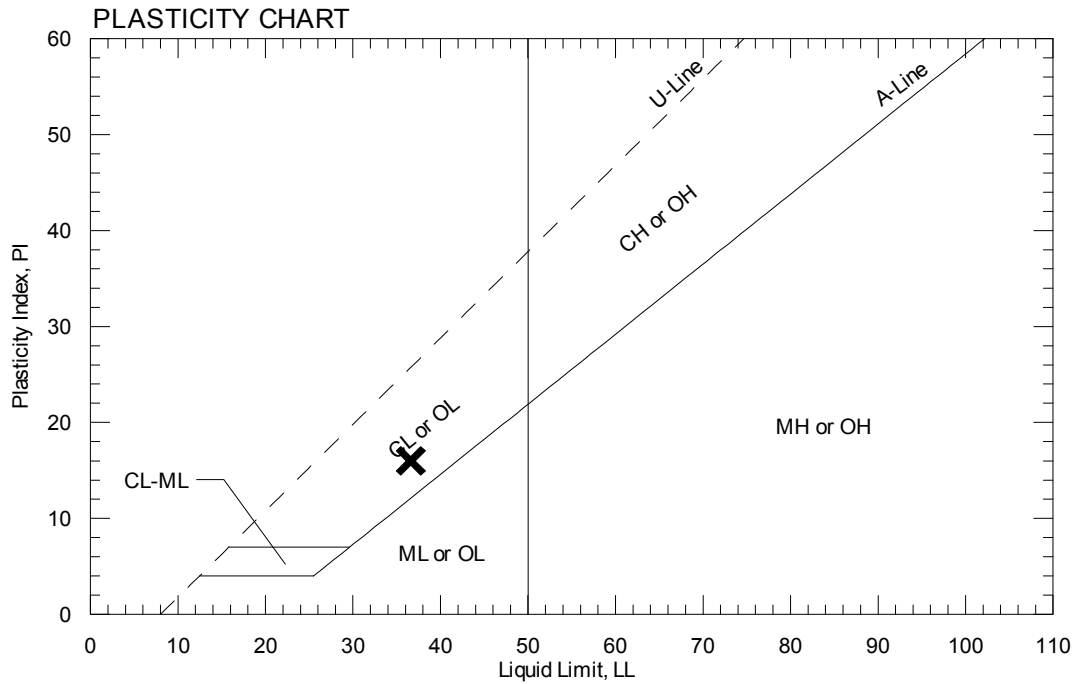
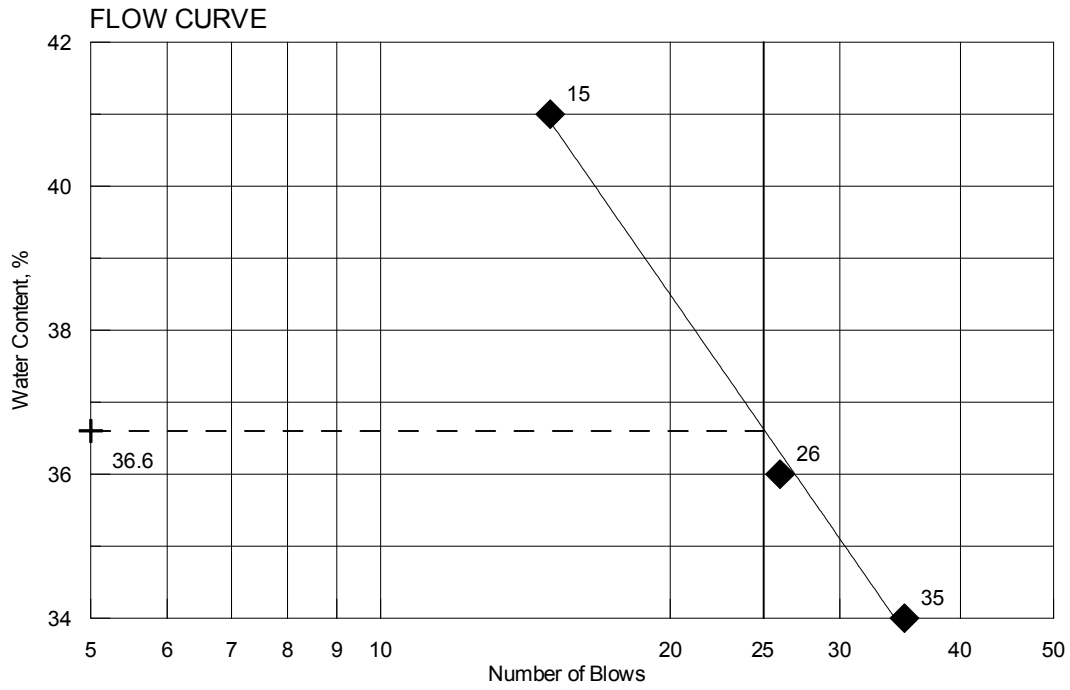


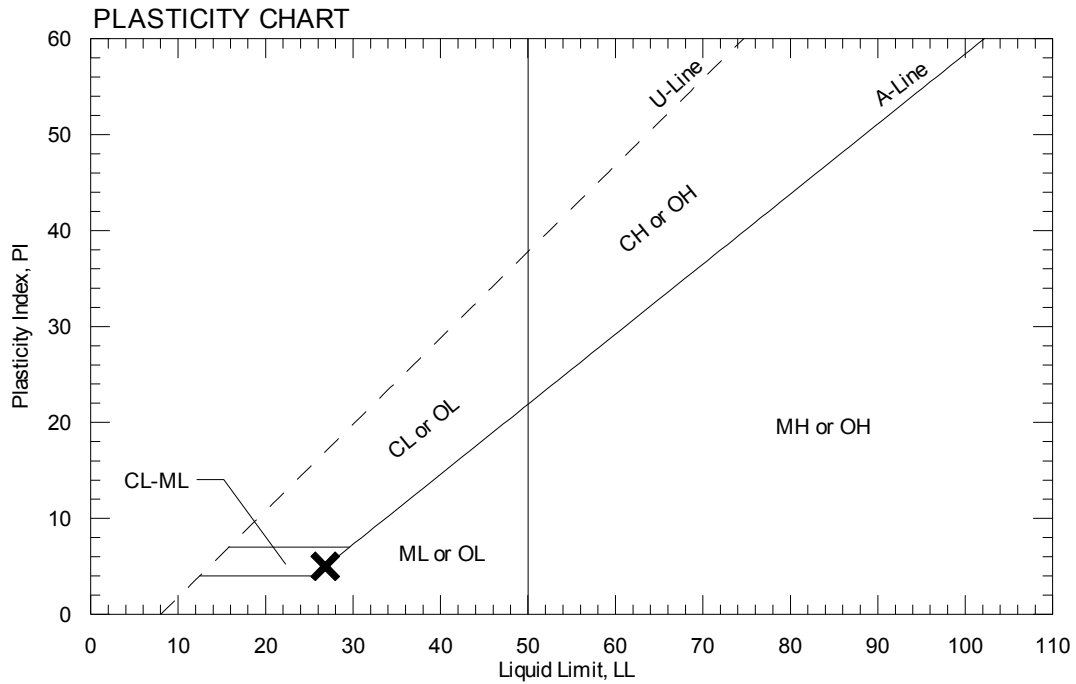
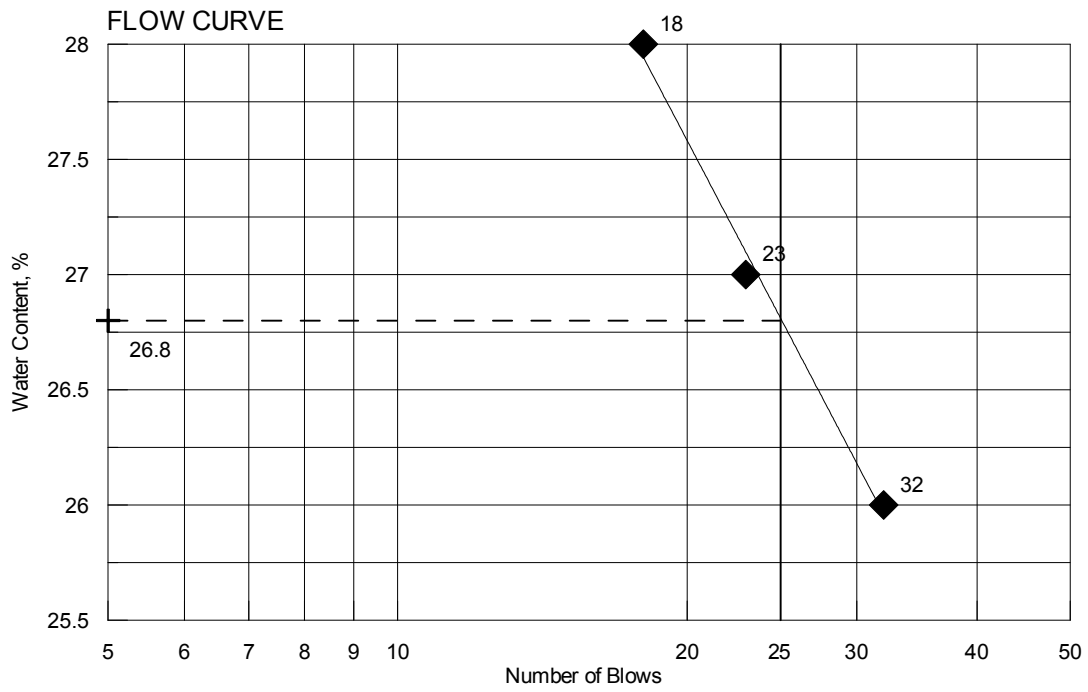


TOWN	Auburn	Reference No.	211426
PIN	016637.00	Water Content, %	36.9
Sampled	10/1/2008	Plastic Limit	21
Boring No./Sample No.	HB-AUB-101/4D	Liquid Limit	37
Station	25+56	Plasticity Index	16
Depth	14.0-16.0	Tested By	BBURR



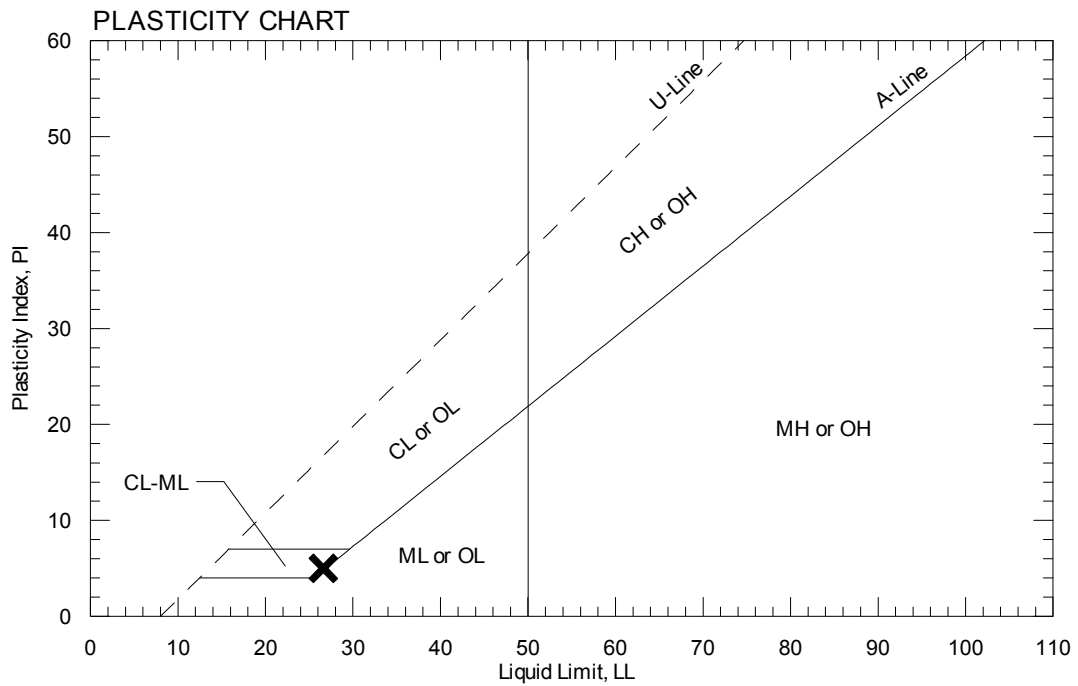
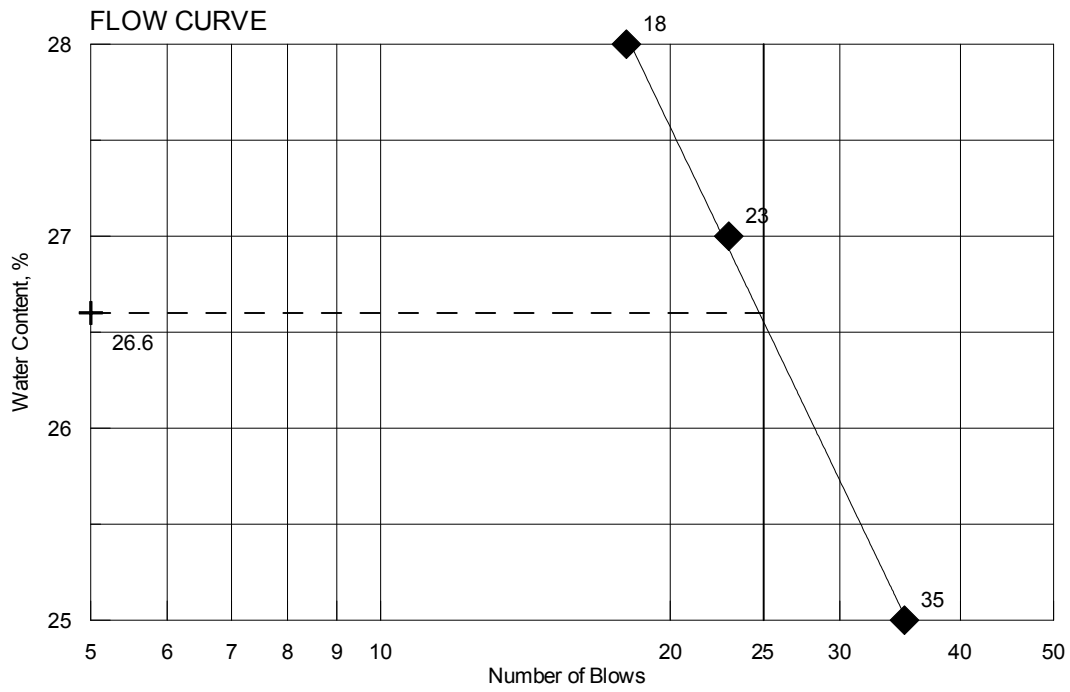


TOWN	Auburn	Reference No.	211427
PIN	016637.00	Water Content, %	34.1
Sampled	10/1/2008	Plastic Limit	22
Boring No./Sample No.	HB-AUB-101/5D	Liquid Limit	27
Station	25+56	Plasticity Index	5
Depth	19.0-21.0	Tested By	BBURR



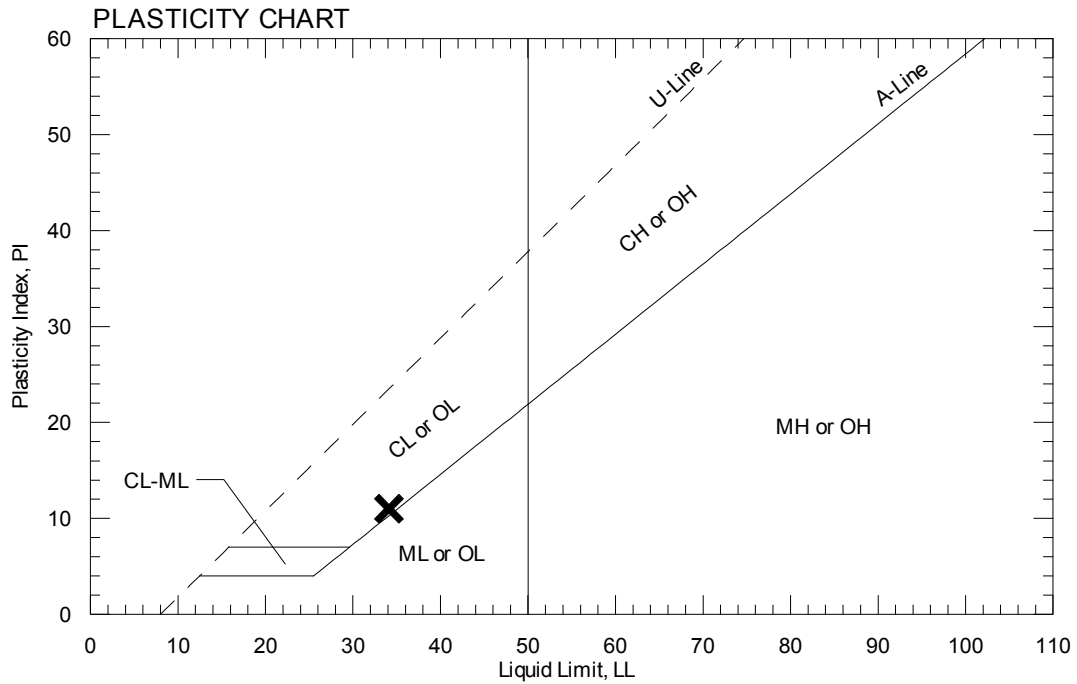
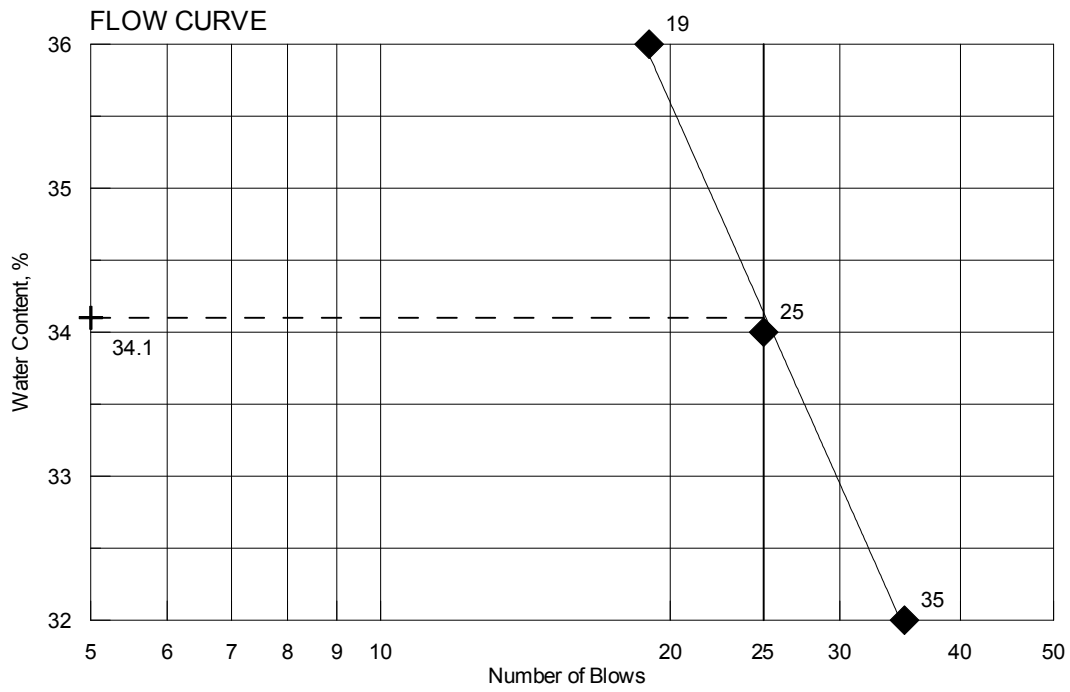


TOWN	Auburn	Reference No.	211428
PIN	016637.00	Water Content, %	30.8
Sampled	10/1/2008	Plastic Limit	22
Boring No./Sample No.	HB-AUB-101/6D	Liquid Limit	27
Station	25+56	Plasticity Index	5
Depth	24.0-26.0	Tested By	BBURR





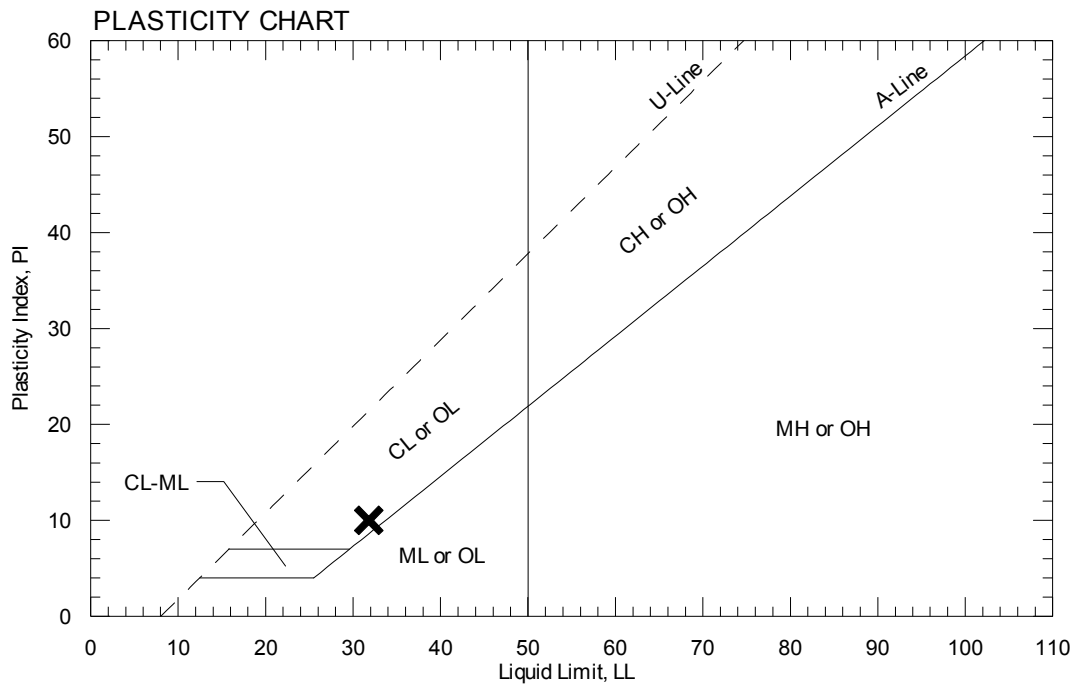
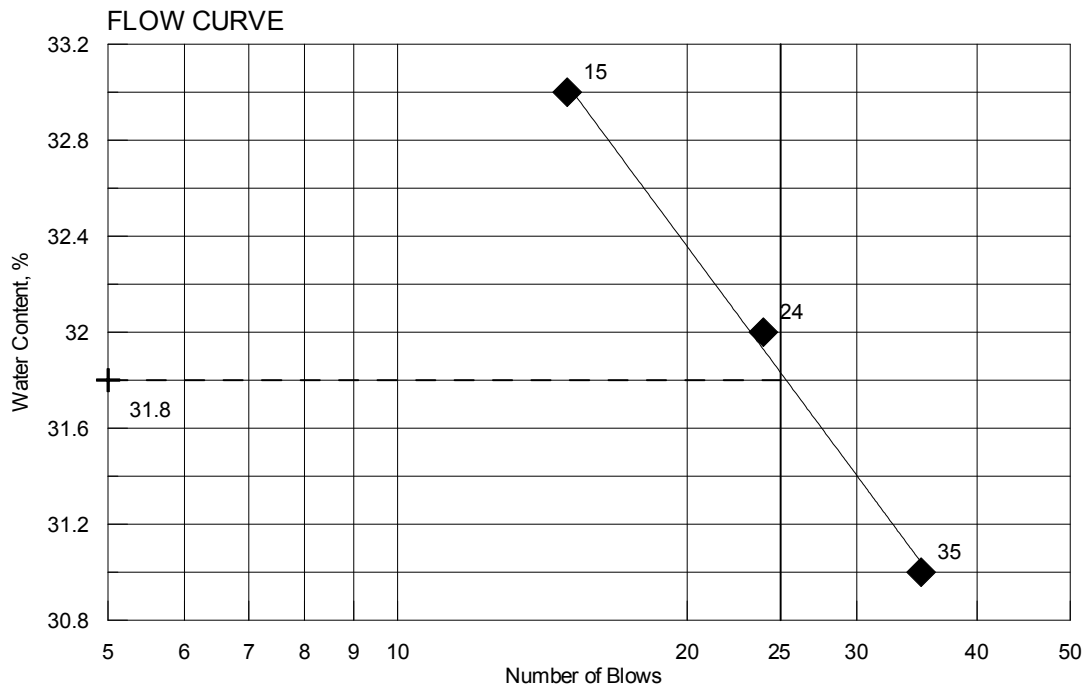
TOWN	Auburn	Reference No.	211429
PIN	016637.00	Water Content, %	31.3
Sampled	10/1/2008	Plastic Limit	23
Boring No./Sample No.	HB-AUB-101/7D	Liquid Limit	34
Station	25+56	Plasticity Index	11
Depth	29.0-31.0	Tested By	BBURR





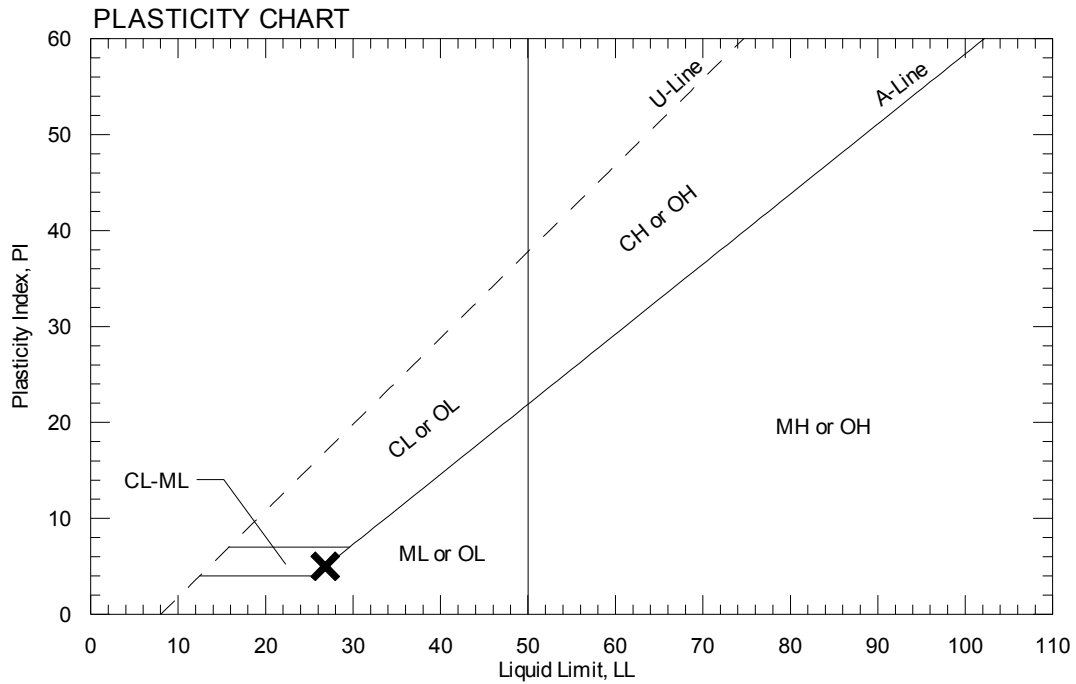
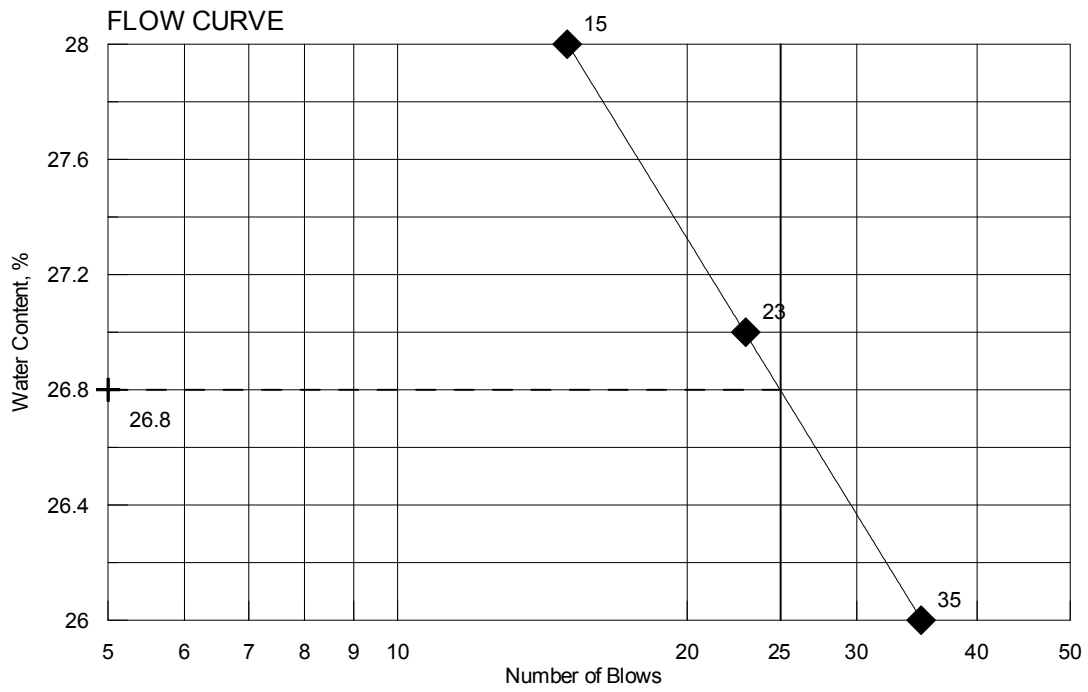


TOWN	Auburn	Reference No.	211430
PIN	016637.00	Water Content, %	36.3
Sampled	10/1/2008	Plastic Limit	22
Boring No./Sample No.	HB-AUB-101/9D	Liquid Limit	32
Station	25+56	Plasticity Index	10
Depth	39.0-41.0	Tested By	BBURR



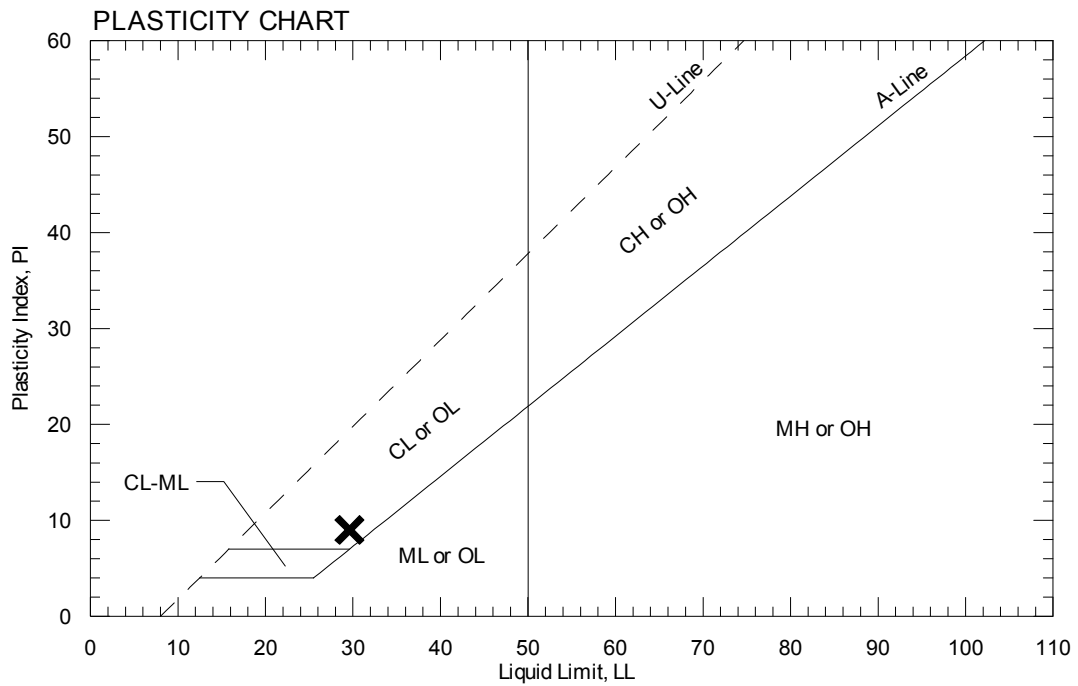
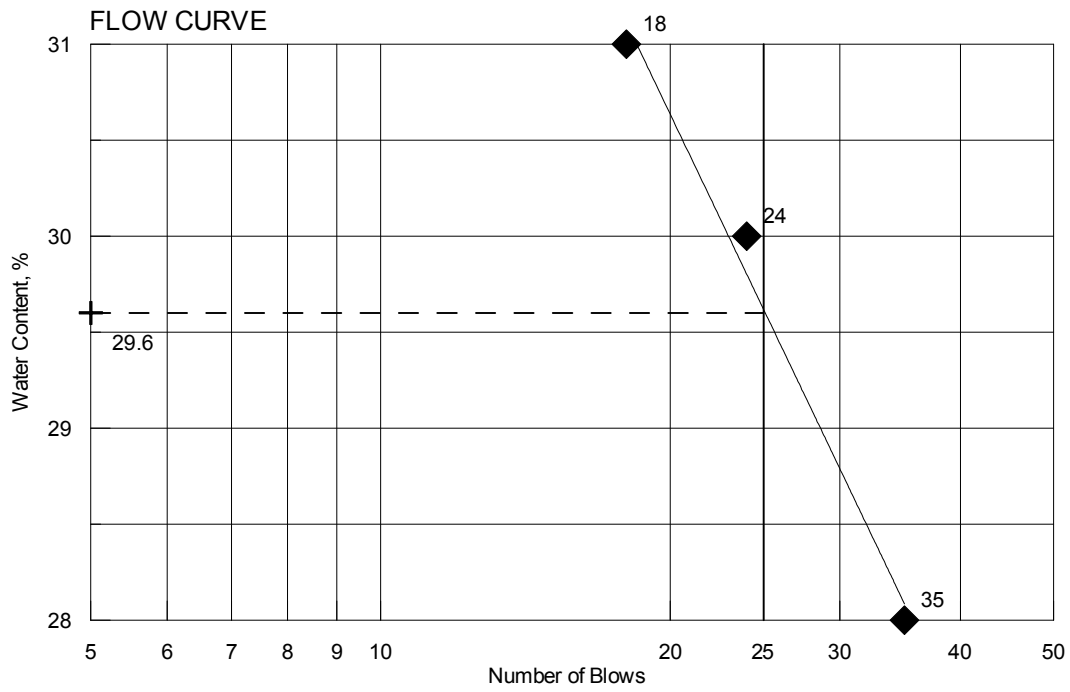


TOWN	Auburn	Reference No.	211431
PIN	016637.00	Water Content, %	22.3
Sampled	10/1/2008	Plastic Limit	22
Boring No./Sample No.	HB-AUB-102/6D	Liquid Limit	27
Station	24+15.4	Plasticity Index	5
Depth	30.0-32.0	Tested By	BBURR



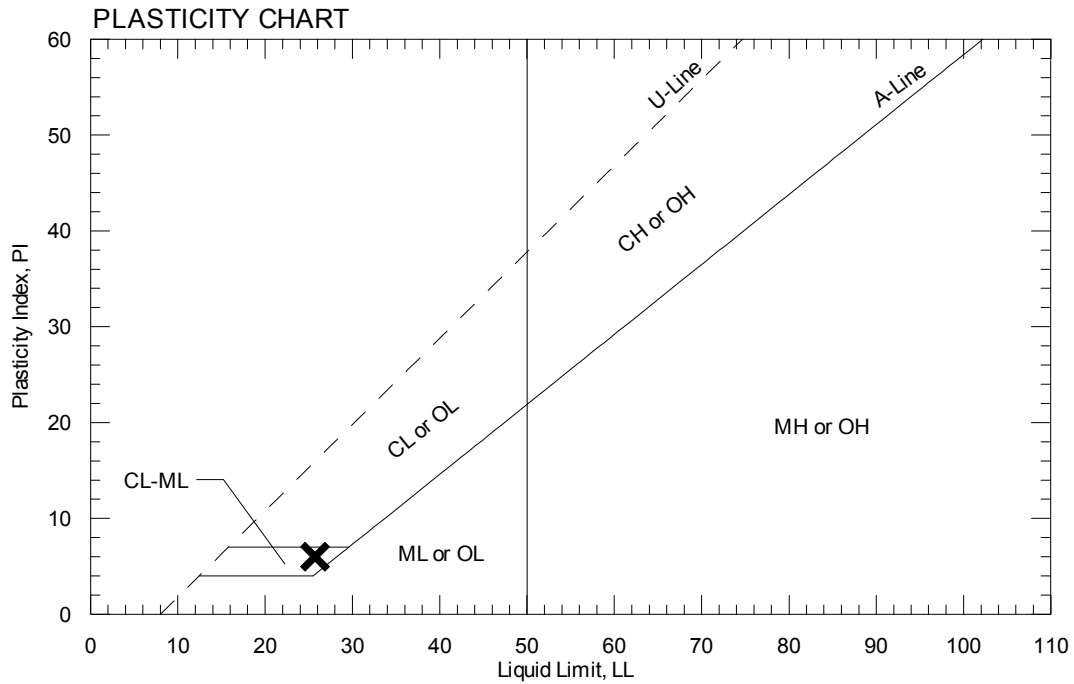
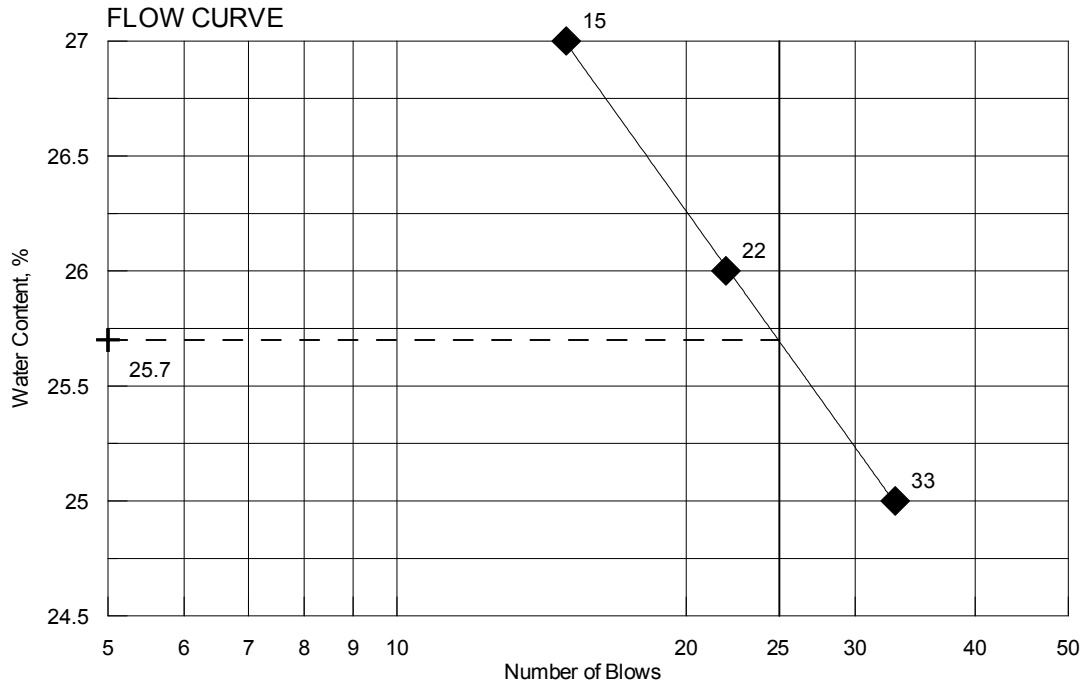


TOWN	Auburn	Reference No.	211432
PIN	016637.00	Water Content, %	35.5
Sampled	10/1/2008	Plastic Limit	21
Boring No./Sample No.	HB-AUB-102/8D	Liquid Limit	30
Station	24+15.4	Plasticity Index	9
Depth	40.0-42.0	Tested By	BBURR





TOWN	Auburn	Reference No.	205822
PIN	016637.20	Water Content, %	32.4
Sampled	9/8/2010	Plastic Limit	20
Boring No./Sample No.	HB-AUB-301/10D	Liquid Limit	26
Station		Plasticity Index	6
Depth	49.5-51.5	Tested By	BBURR







# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>205820</b>	<b>HB-AUB-301/11D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/8/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>54.5-56.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>36</b>	
<u>Plastic Limit (T 90), %</u>	
<b>24</b>	
<u>Plasticity Index (T 90), %</u>	
<b>12</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b> </b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<b> </b>	
<u>Water Content (T 265), %</u>	
<b>31.4</b>	

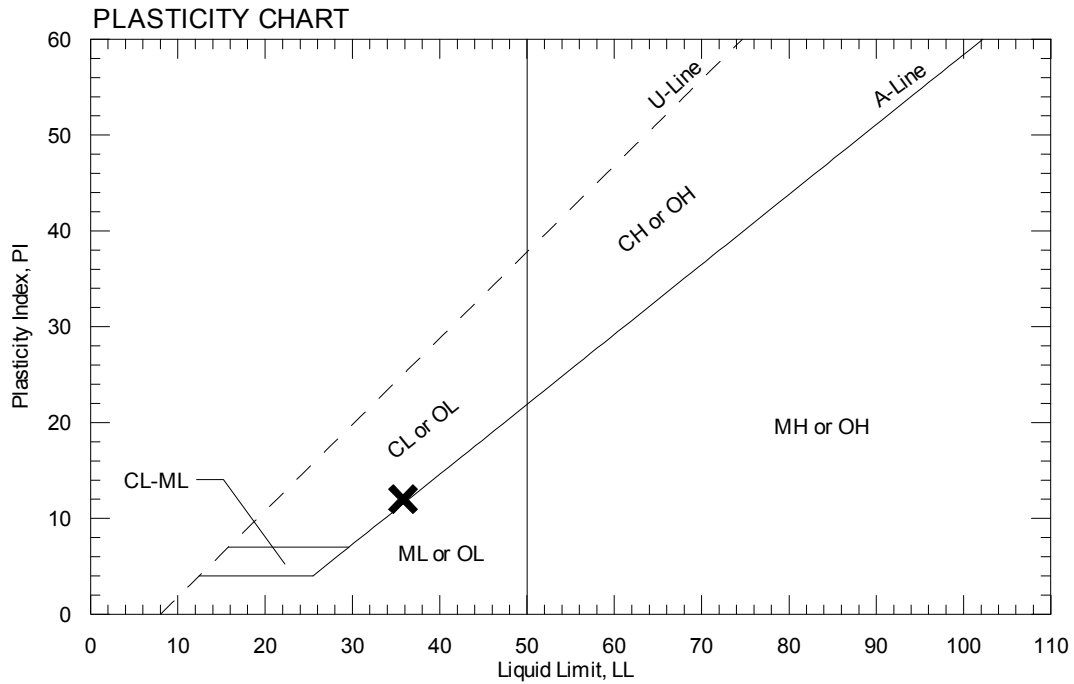
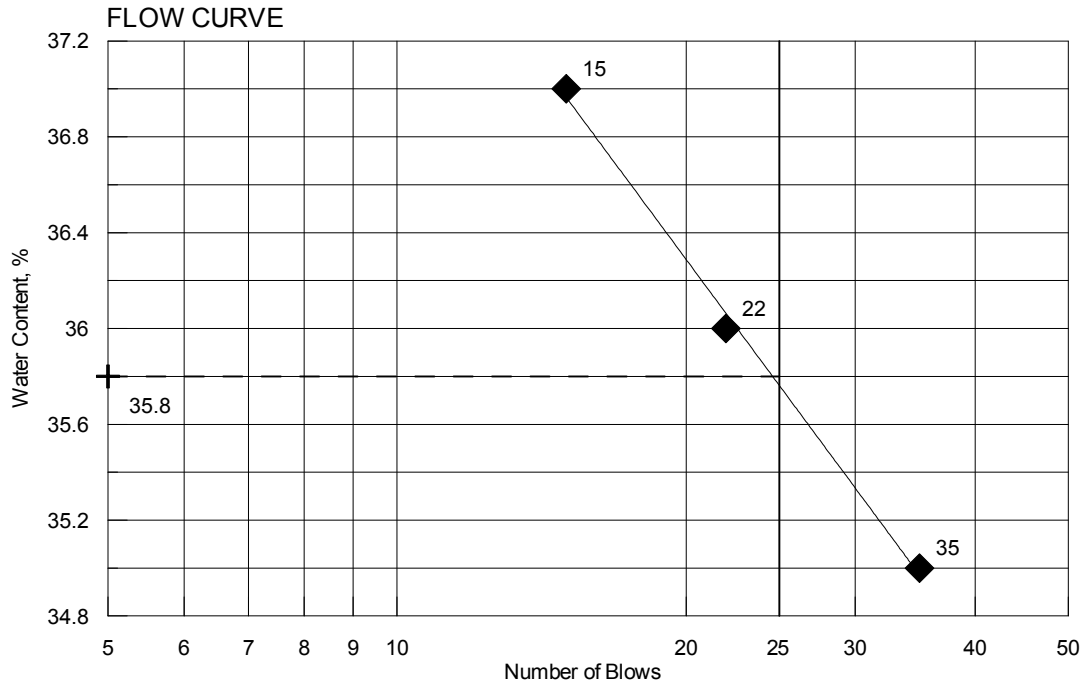
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/30/2010**

TOWN	Auburn	Reference No.	205820
PIN	016637.20	Water Content, %	31.4
Sampled	9/8/2010	Plastic Limit	24
Boring No./Sample No.	HB-AUB-301/11D	Liquid Limit	36
Station		Plasticity Index	12
Depth	54.5-56.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>239850</b>	<b>HB-AUB-301/12D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/8/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>64.5-66.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>35</b>	
<u>Plastic Limit (T 90), %</u>	
<b>21</b>	
<u>Plasticity Index (T 90), %</u>	
<b>14</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>19.2</b>	

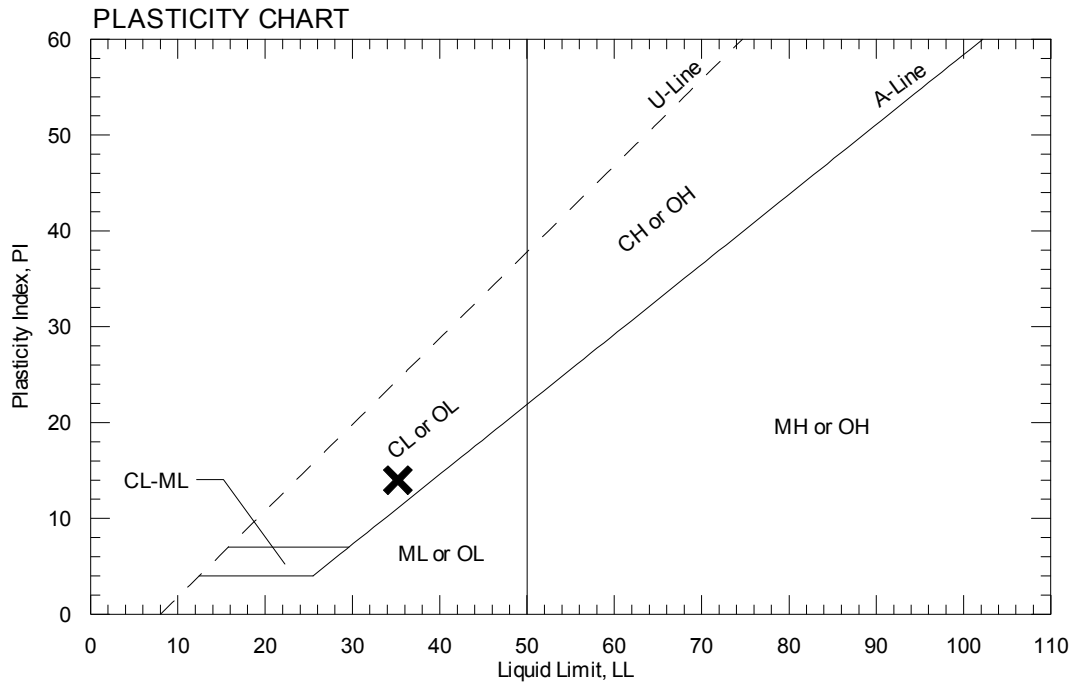
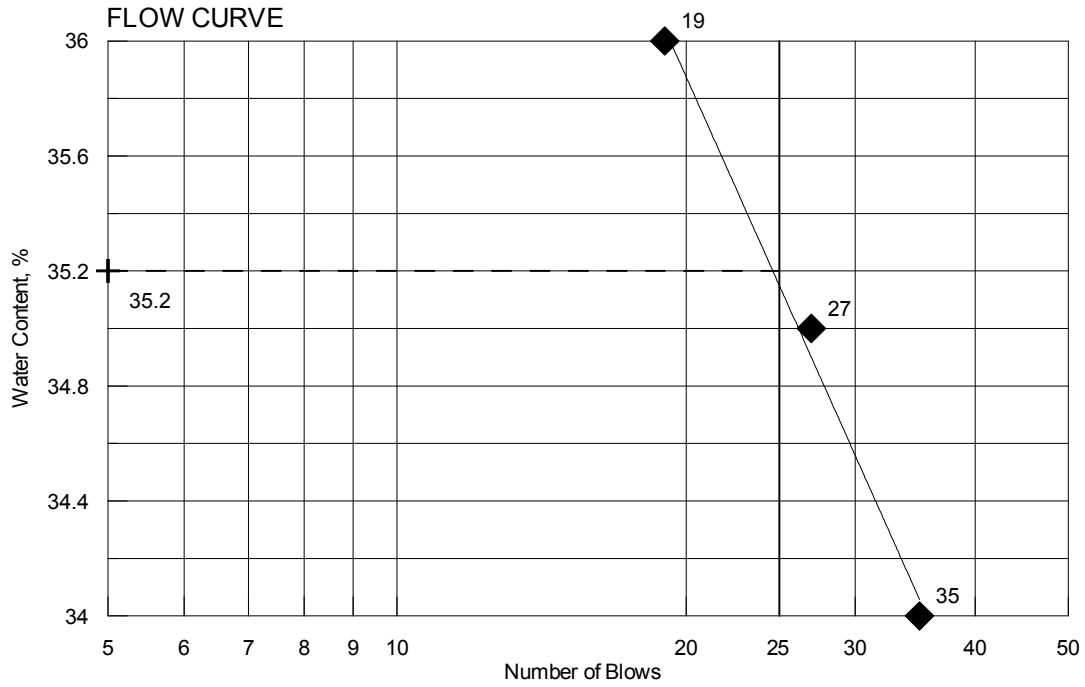
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/30/2010**

TOWN	Auburn	Reference No.	239850
PIN	016637.20	Water Content, %	19.2
Sampled	9/8/2010	Plastic Limit	21
Boring No./Sample No.	HB-AUB-301/12D	Liquid Limit	35
Station		Plasticity Index	14
Depth	64.5-66.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>212172</b>	<b>HB-AUB-301/13D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/8/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>64.5-66.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimblings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>32</b>	
<u>Plastic Limit (T 90), %</u>	
<b>20</b>	
<u>Plasticity Index (T 90), %</u>	
<b>12</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b>2.65</b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>23.8</b>	

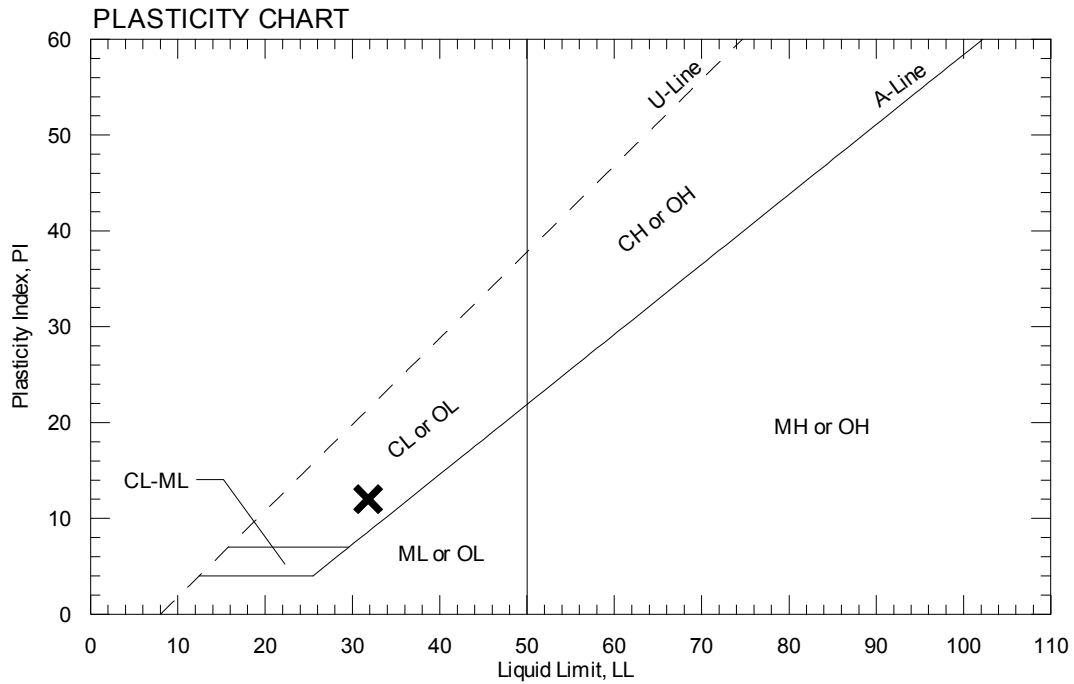
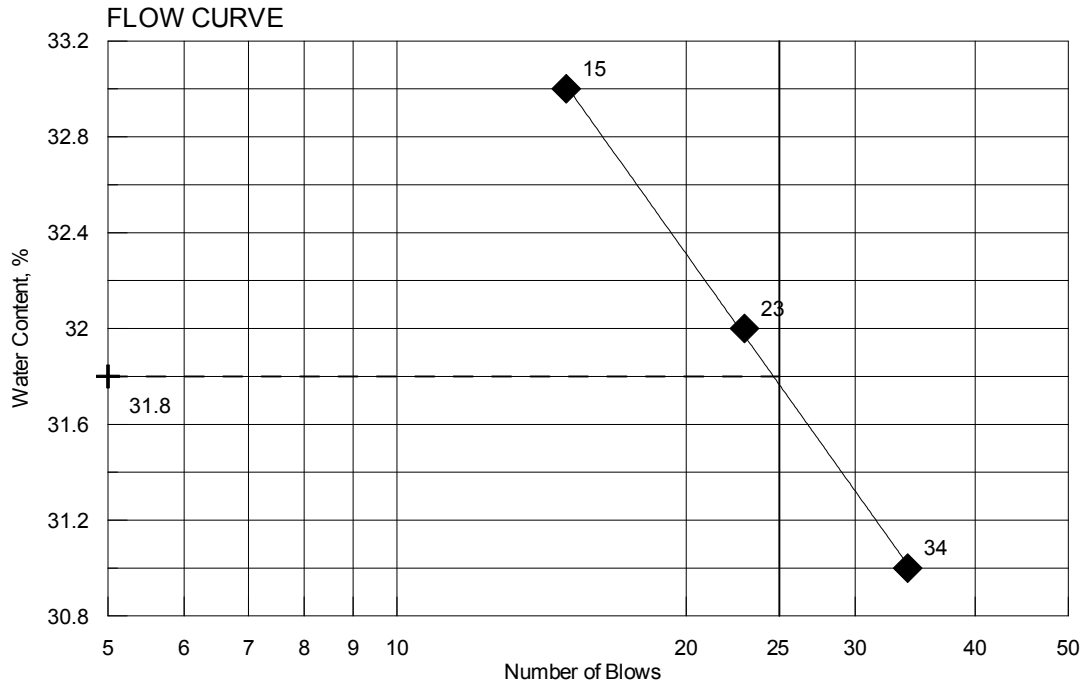
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/30/2010**

TOWN	Auburn	Reference No.	212172
PIN	016637.20	Water Content, %	23.8
Sampled	9/8/2010	Plastic Limit	20
Boring No./Sample No.	HB-AUB-301/13D	Liquid Limit	32
Station		Plasticity Index	12
Depth	64.5-66.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>236944</b>	<b>HB-AUB-301/14D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/8/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>69.5-71.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>29</b>	
<u>Plastic Limit (T 90), %</u>	
<b>19</b>	
<u>Plasticity Index (T 90), %</u>	
<b>10</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>31.8</b>	

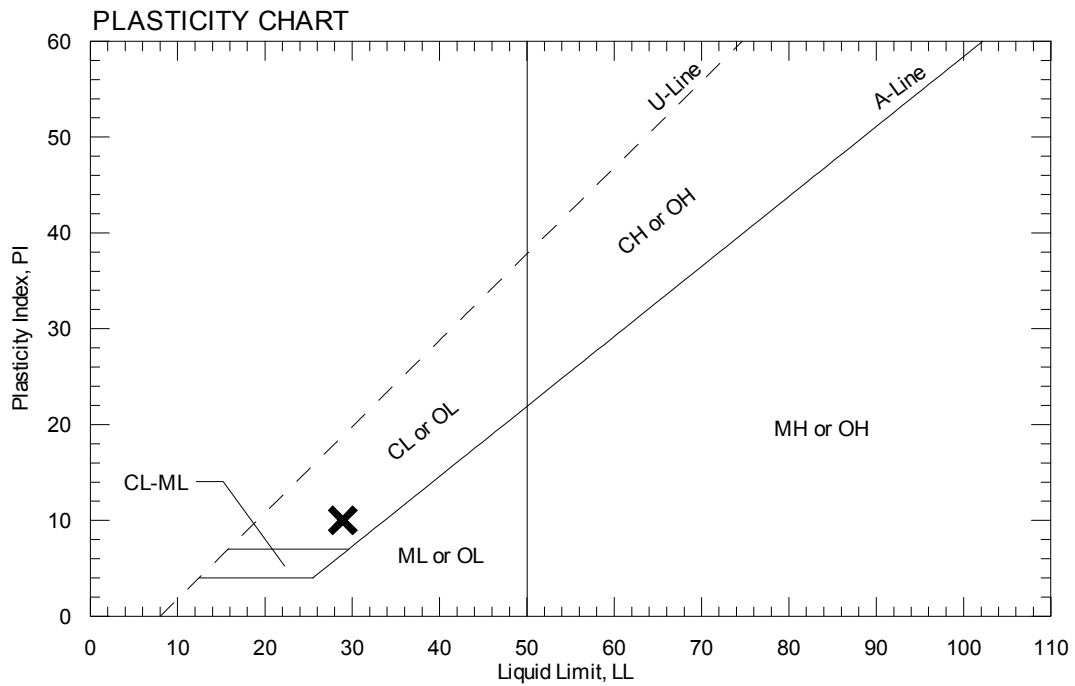
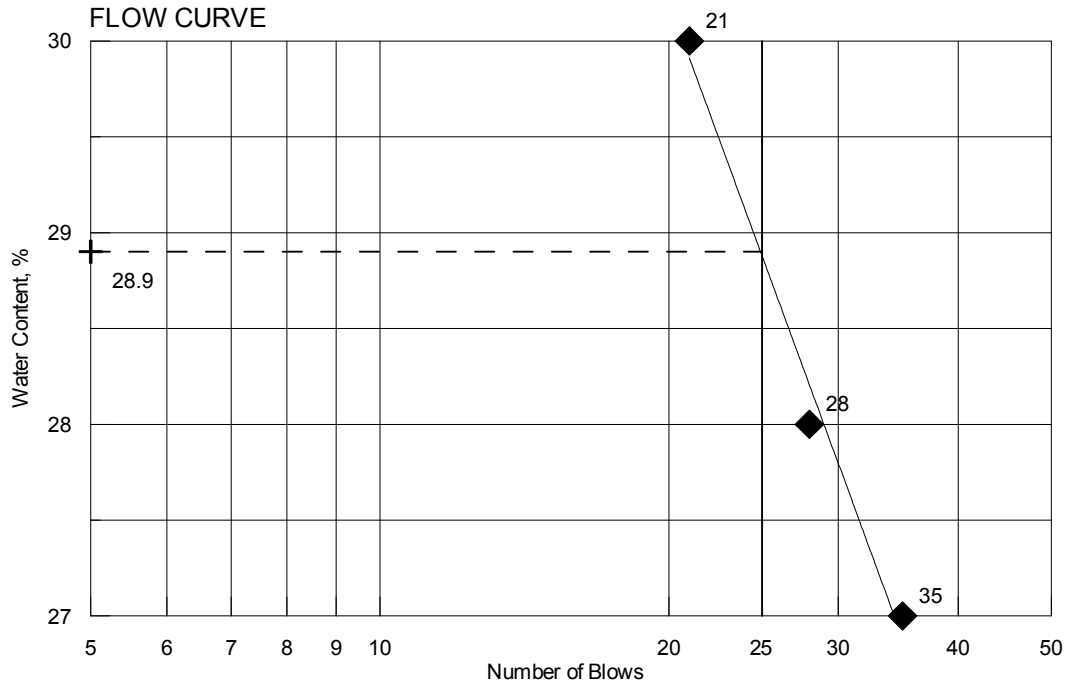
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/29/2010**

TOWN	Auburn	Reference No.	236944
PIN	016637.20	Water Content, %	31.8
Sampled	9/8/2010	Plastic Limit	19
Boring No./Sample No.	HB-AUB-301/14D	Liquid Limit	29
Station		Plasticity Index	10
Depth	69.5-71.5	Tested By	BBURR







# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240127</b>	<b>HB-AUB-301/16D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>79.5-81.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
<b>NP</b>	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition (T 267)	
Loss, %	H2O, %
Water Content (T 265), %	
<b>24.2</b>	

Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/29/2010**



# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>236947</b>	<b>HB-AUB-301/2D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/8/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>10.0-12.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

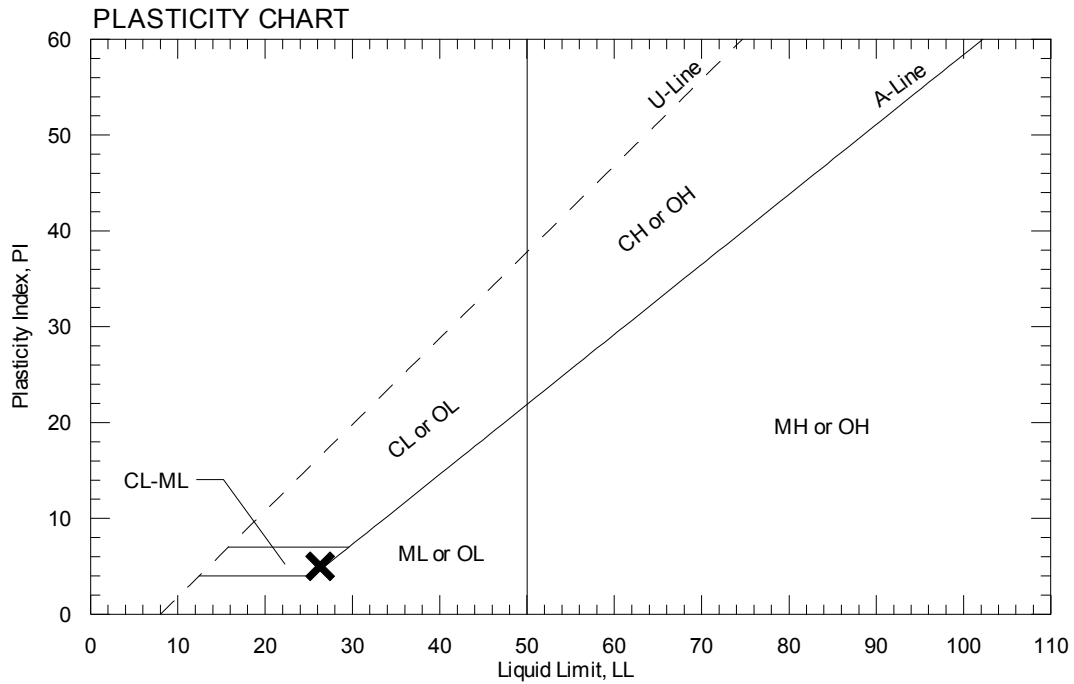
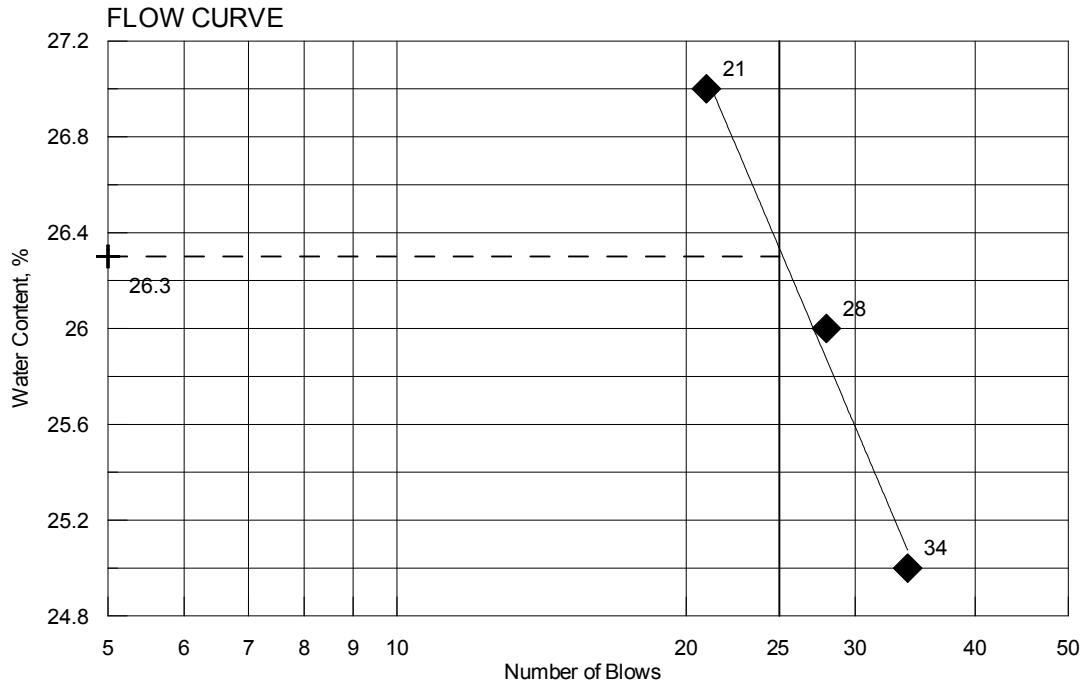
Sieve Analysis (T 27)	Direct Shear (T 236)	Miscellaneous Tests
Wash Method	Shear Angle, °	Liquid Limit @ 25 blows (T 89), %
	Initial Water Content, %	<b>26</b>
SIEVE SIZE U.S. [SI]	Normal Stress, psi	Plastic Limit (T 90), %
% Passing	Wet Density, lbs/ft <sup>3</sup>	<b>21</b>
3 in. [75.0 mm]	Dry Density, lbs/ft <sup>3</sup>	Plasticity Index (T 90), %
1 in. [25.0 mm]	Specimen Thickness, in	<b>5</b>
¾ in. [19.0 mm]	<b>Consolidation (T 216)</b>	
½ in. [12.5 mm]	Trimming, Water Content, %	
¼ in. [9.5 mm]		Specific Gravity, Corrected to 20°C (T 100)
¼ in. [6.3 mm]		
No. 4 [4.75 mm]		Loss on Ignition (T 267)
No. 10 [2.00 mm]		Loss, %
No. 20 [0.850 mm]		H <sub>2</sub> O, %
No. 40 [0.425 mm]		Water Content (T 265), %
No. 60 [0.250 mm]		<b>26.9</b>
No. 100 [0.150 mm]		
No. 200 [0.075 mm]		
	<b>Vane Shear Test on Shelby Tubes (Maine DOT)</b>	
	3 In.	6 In.
	U. Shear	Remold
	tons/ft <sup>2</sup>	tons/ft <sup>2</sup>
	U. Shear	Remold
	tons/ft <sup>2</sup>	tons/ft <sup>2</sup>
	Water Content, %	Description of Material Sampled at the Various Tube Depths

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/29/2010**

TOWN	Auburn	Reference No.	236947
PIN	016637.20	Water Content, %	26.9
Sampled	9/8/2010	Plastic Limit	21
Boring No./Sample No.	HB-AUB-301/2D	Liquid Limit	26
Station		Plasticity Index	5
Depth	10.0-12.0	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>236949</b>	<b>HB-AUB-301/3D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/8/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>15.0-17.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>31</b>	
<u>Plastic Limit (T 90), %</u>	
<b>22</b>	
<u>Plasticity Index (T 90), %</u>	
<b>9</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>24.4</b>	

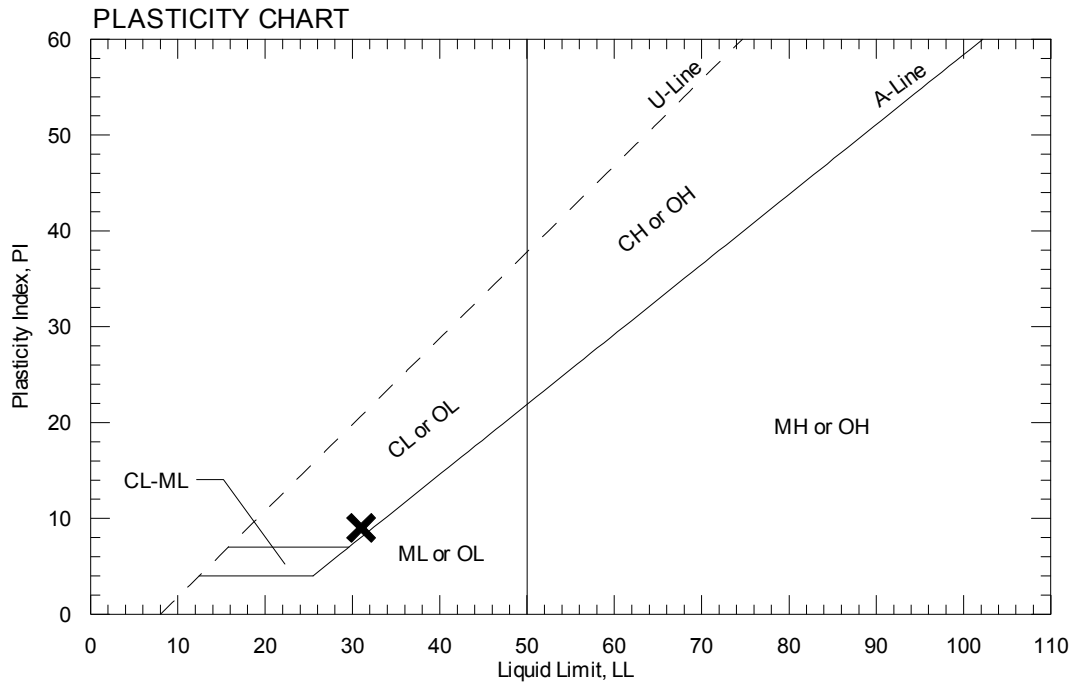
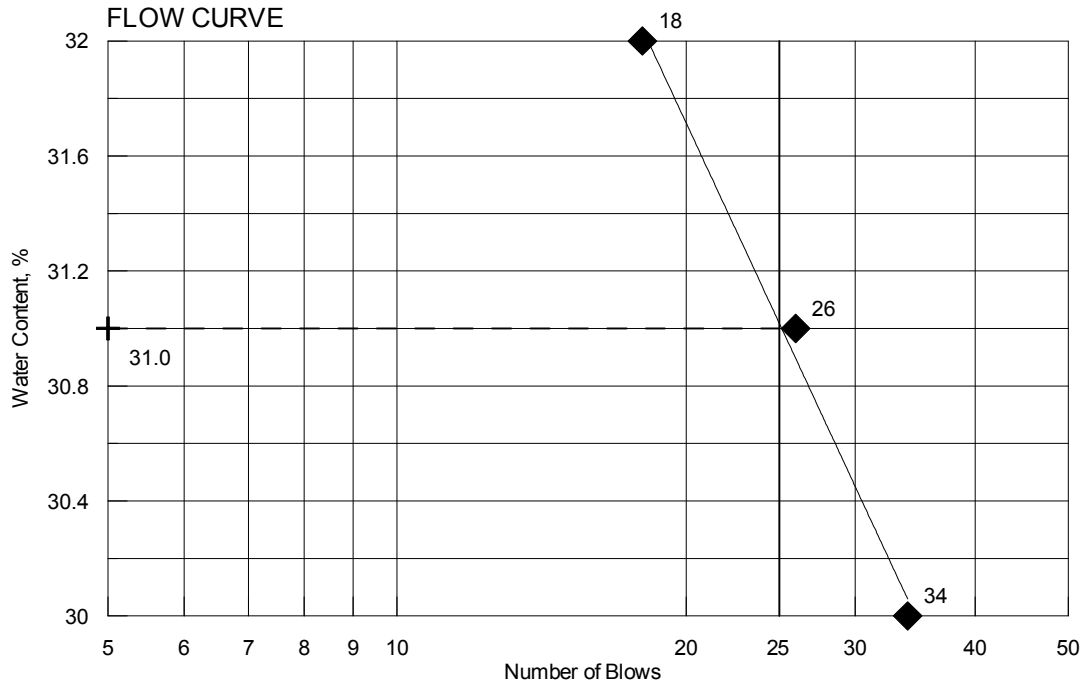
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/30/2010**

TOWN	Auburn	Reference No.	236949
PIN	016637.20	Water Content, %	24.4
Sampled	9/8/2010	Plastic Limit	22
Boring No./Sample No.	HB-AUB-301/3D	Liquid Limit	31
Station		Plasticity Index	9
Depth	15.0-17.0	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240177</b>	<b>HB-AUB-301/5D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/8/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>24.5-26.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>31</b>	
<u>Plastic Limit (T 90), %</u>	
<b>19</b>	
<u>Plasticity Index (T 90), %</u>	
<b>12</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b> </b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<b> </b>	
<u>Water Content (T 265), %</u>	
<b>33.5</b>	

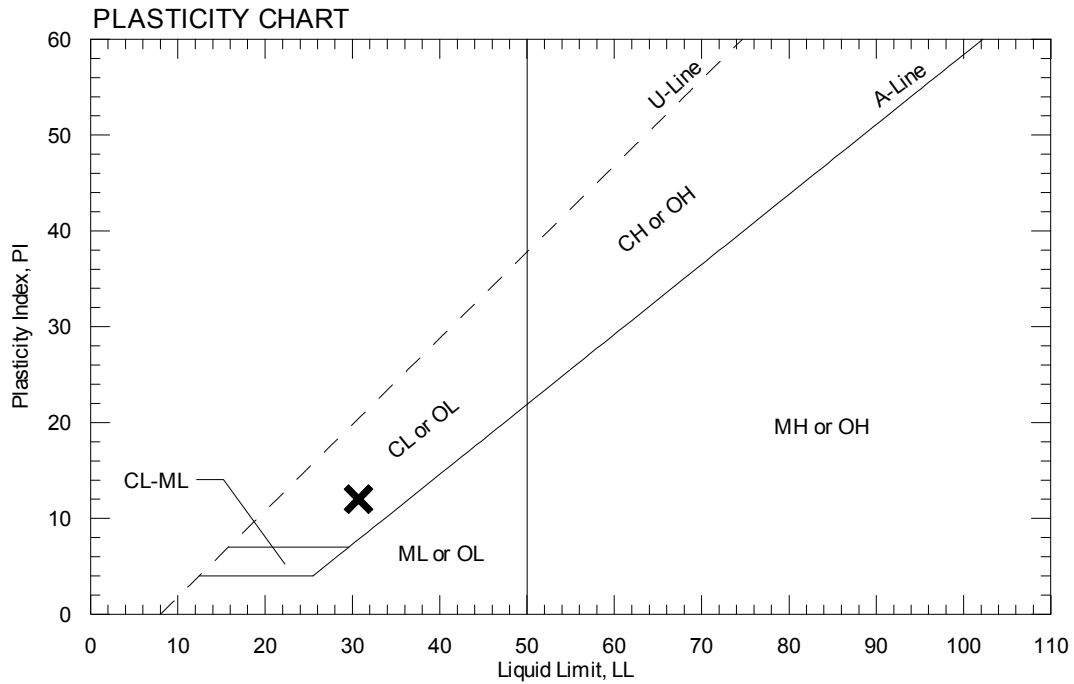
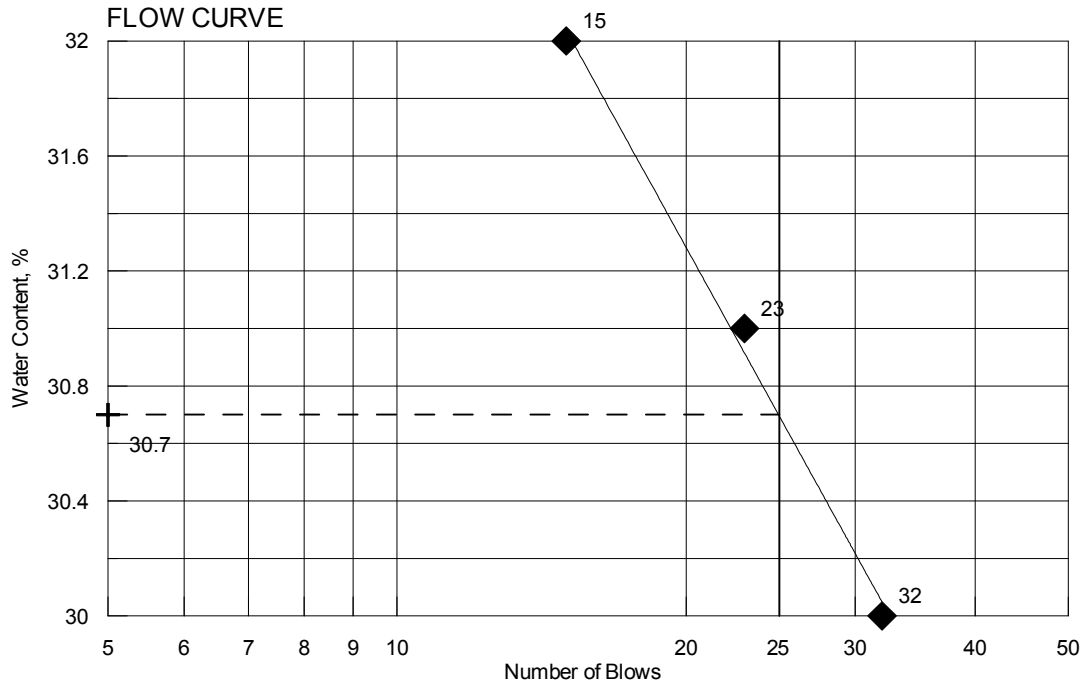
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/1/2010**

TOWN	Auburn	Reference No.	240177
PIN	016637.20	Water Content, %	33.5
Sampled	9/8/2010	Plastic Limit	19
Boring No./Sample No.	HB-AUB-301/5D	Liquid Limit	31
Station		Plasticity Index	12
Depth	24.5-26.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>236950</b>	<b>HB-AUB-301/6D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/8/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>29.5-31.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimblings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>30</b>	
<u>Plastic Limit (T 90), %</u>	
<b>19</b>	
<u>Plasticity Index (T 90), %</u>	
<b>11</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>30.9</b>	

Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

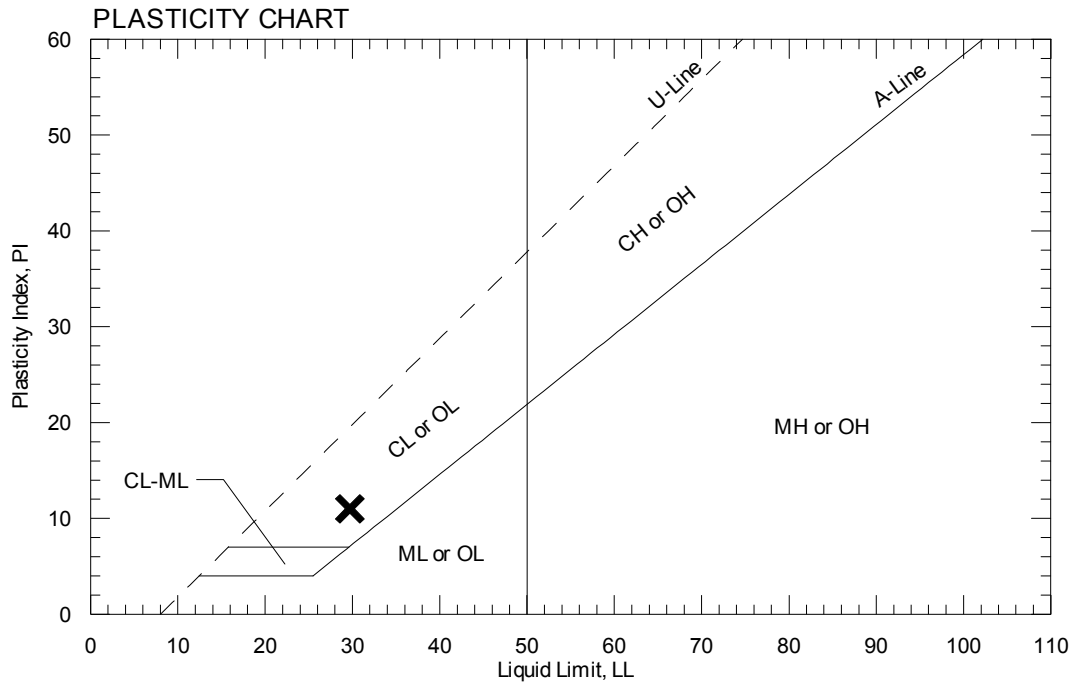
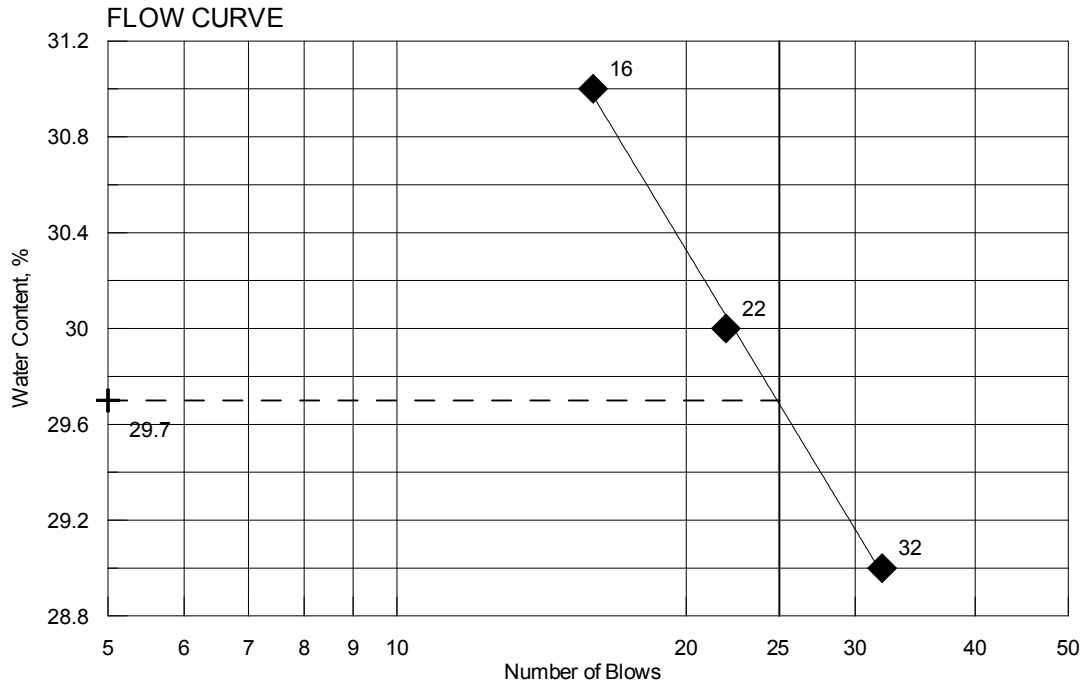
Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/29/2010**



TOWN	Auburn	Reference No.	236950
PIN	016637.20	Water Content, %	30.9
Sampled	9/8/2010	Plastic Limit	19
Boring No./Sample No.	HB-AUB-301/6D	Liquid Limit	30
Station		Plasticity Index	11
Depth	29.5-31.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>236945</b>	<b>HB-AUB-301/7D</b>	<u><b>GEOTECHNICAL (DISTURBED)</b></u>	<b>9/8/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>34.5-36.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>29</b>	
<u>Plastic Limit (T 90), %</u>	
<b>20</b>	
<u>Plasticity Index (T 90), %</u>	
<b>9</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b>2.65</b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>23.8</b>	

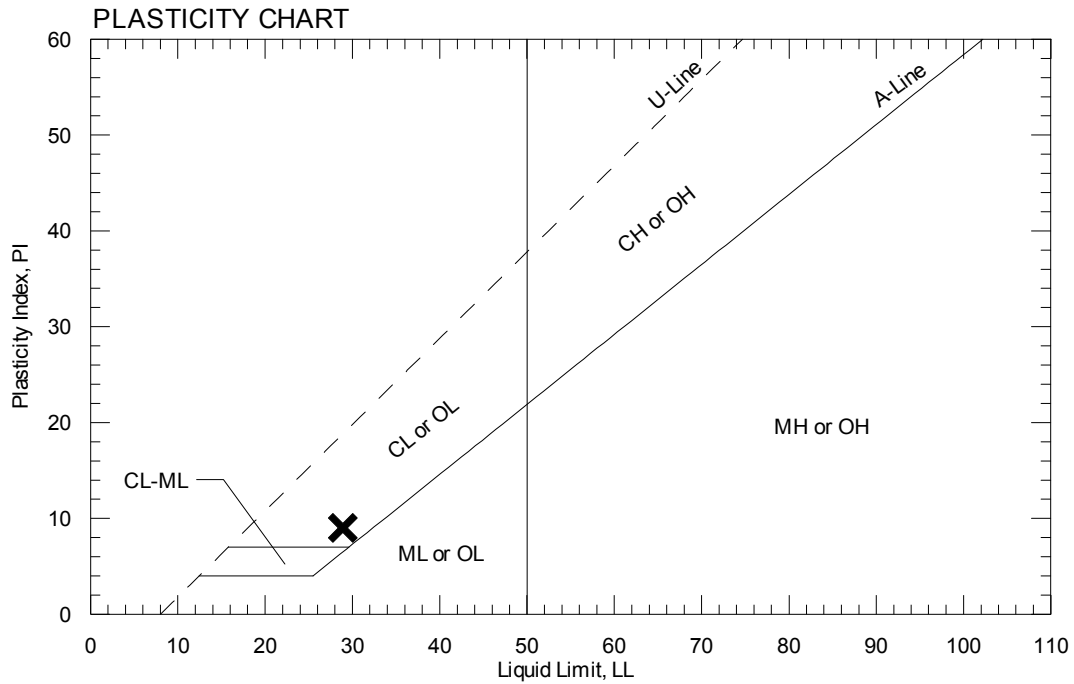
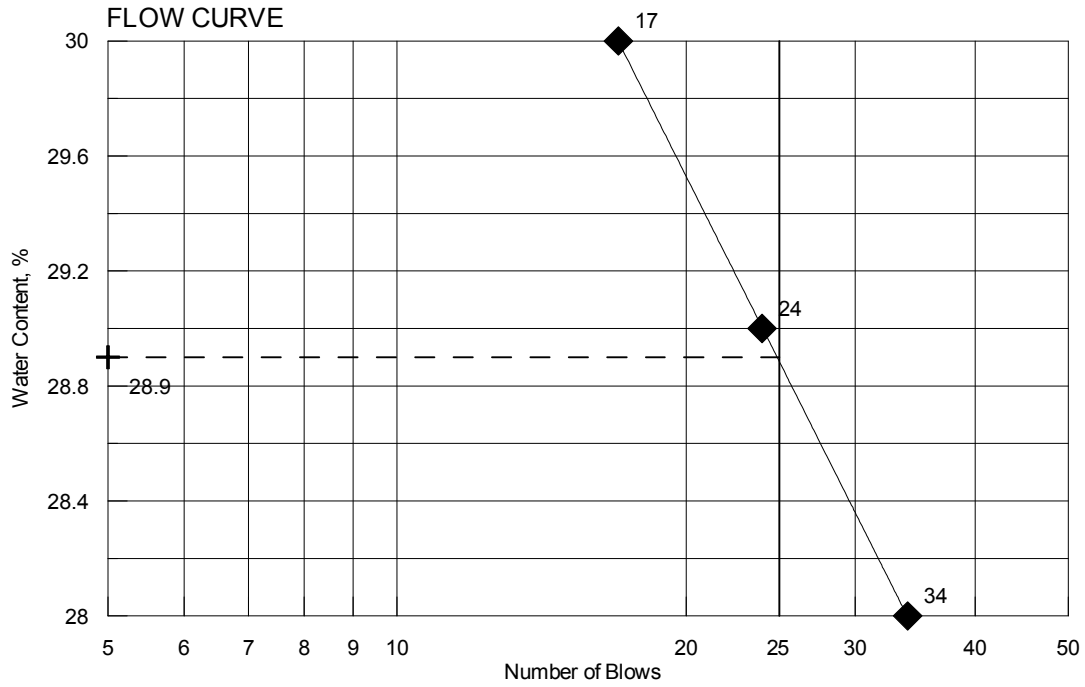
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/4/2010**

TOWN	Auburn	Reference No.	236945
PIN	016637.20	Water Content, %	23.8
Sampled	9/8/2010	Plastic Limit	20
Boring No./Sample No.	HB-AUB-301/7D	Liquid Limit	29
Station		Plasticity Index	9
Depth	34.5-36.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240128</b>	<b>HB-AUB-301/8D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>39.5-41.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimblings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>25</b>	
<u>Plastic Limit (T 90), %</u>	
<b>19</b>	
<u>Plasticity Index (T 90), %</u>	
<b>6</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>30.4</b>	

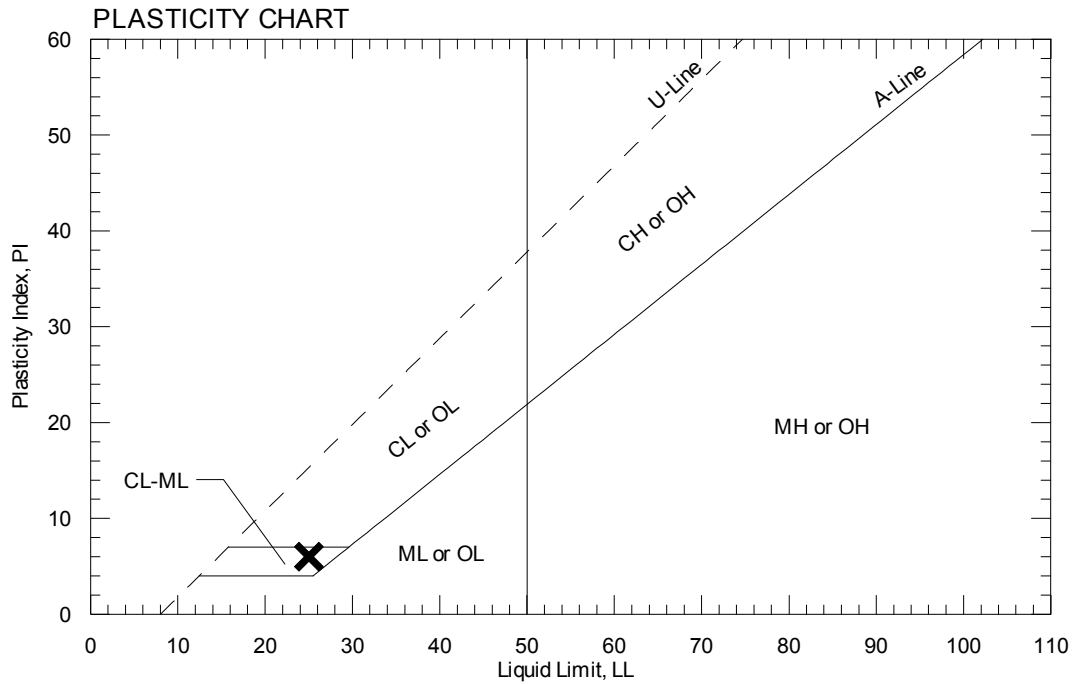
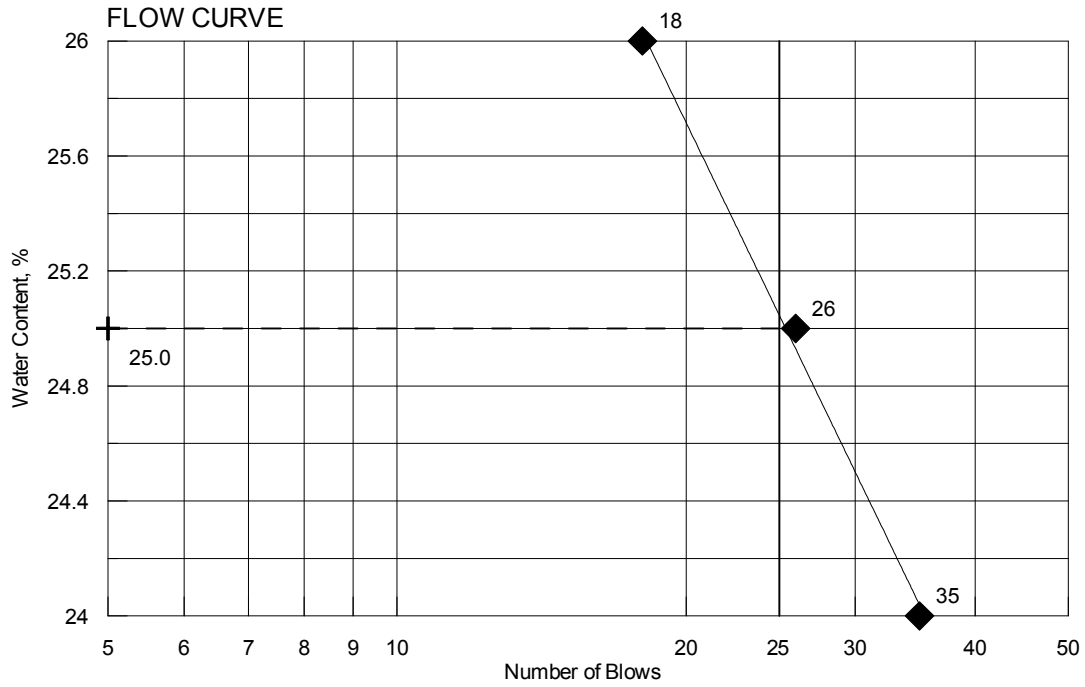
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/29/2010**

TOWN	Auburn	Reference No.	240128
PIN	016637.20	Water Content, %	30.4
Sampled	9/9/2010	Plastic Limit	19
Boring No./Sample No.	HB-AUB-301/8D	Liquid Limit	25
Station		Plasticity Index	6
Depth	39.5-41.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240178</b>	<b>HB-AUB-301/9D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>44.5-46.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>23</b>	
<u>Plastic Limit (T 90), %</u>	
<b>18</b>	
<u>Plasticity Index (T 90), %</u>	
<b>5</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>30.6</b>	

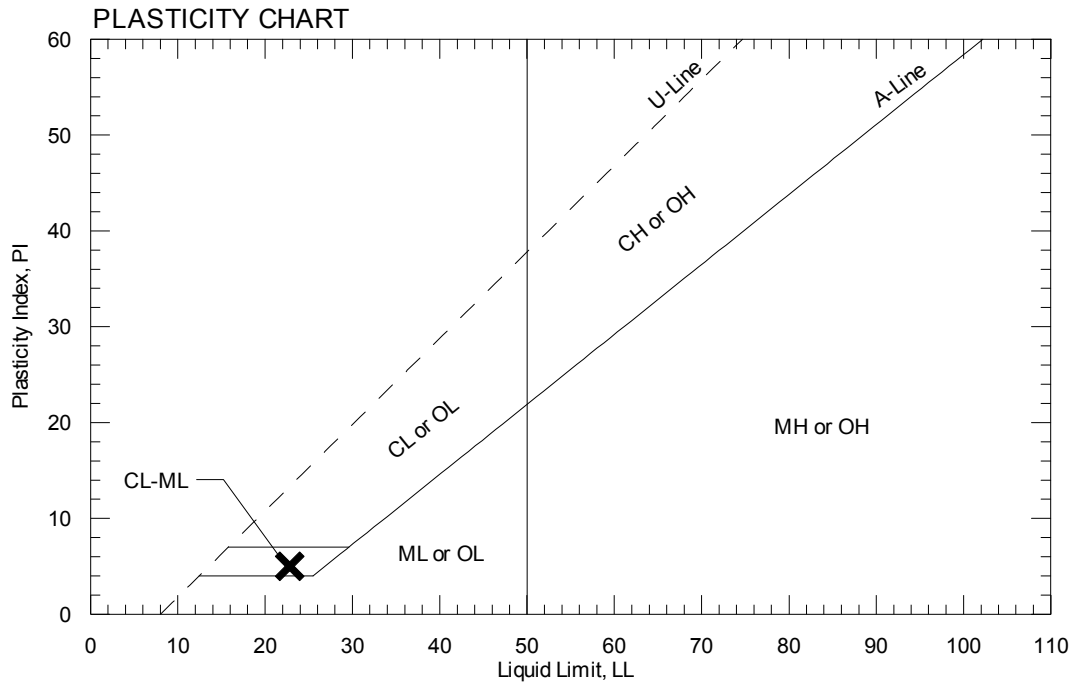
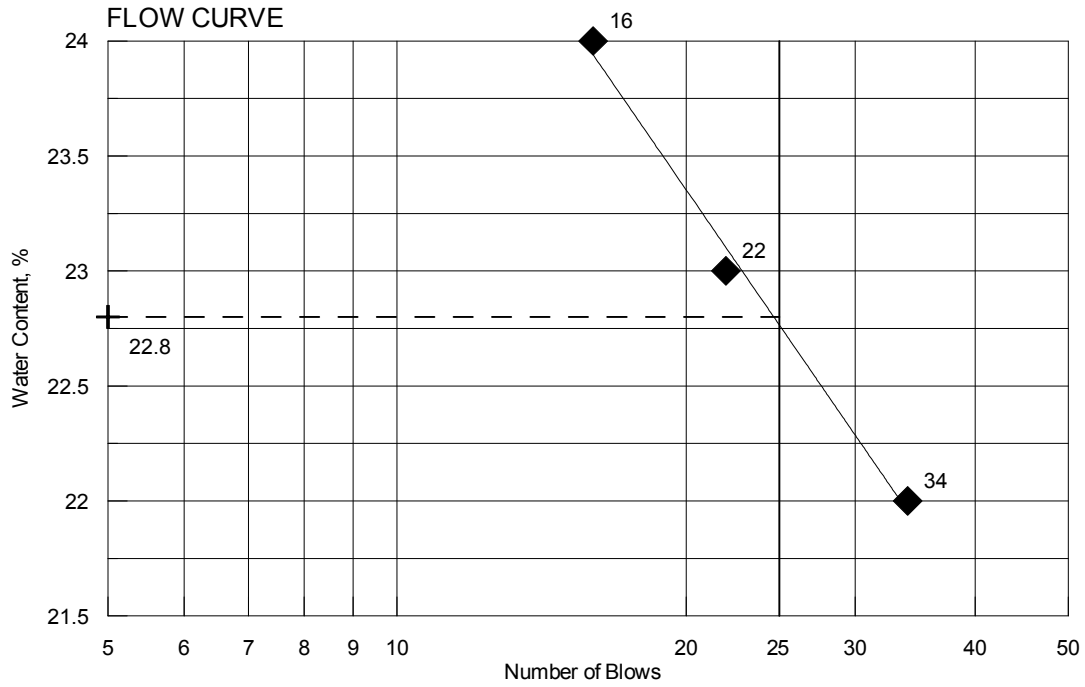
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/1/2010**

TOWN	Auburn	Reference No.	240178
PIN	016637.20	Water Content, %	30.6
Sampled	9/9/2010	Plastic Limit	18
Boring No./Sample No.	HB-AUB-301/9D	Liquid Limit	23
Station		Plasticity Index	5
Depth	44.5-46.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240176</b>	<b>HB-AUB-302/10D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>49.5-51.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>34</b>	
<u>Plastic Limit (T 90), %</u>	
<b>23</b>	
<u>Plasticity Index (T 90), %</u>	
<b>11</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b> </b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<b> </b>	
<u>Water Content (T 265), %</u>	
<b>37.7</b>	

Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

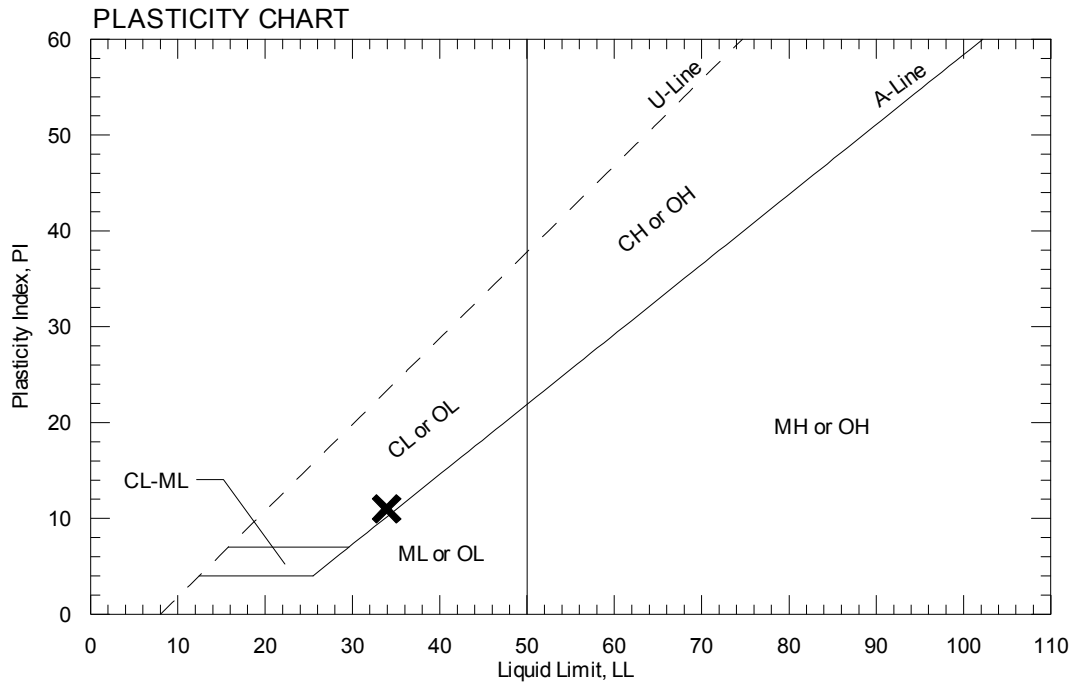
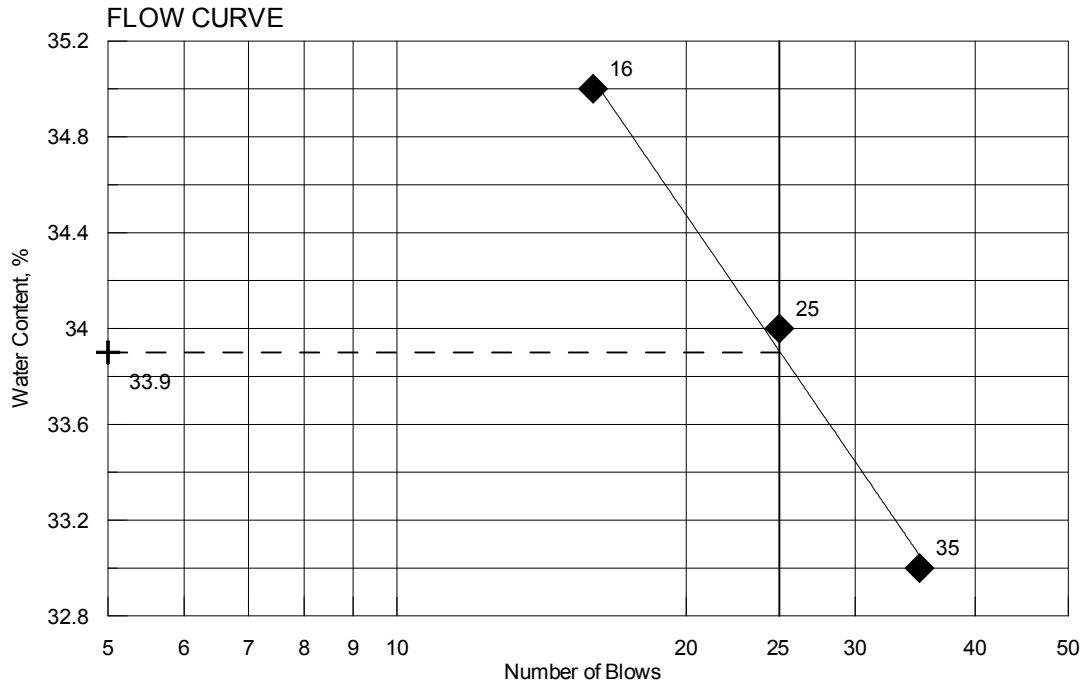
Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/1/2010**



TOWN	Auburn	Reference No.	240176
PIN	016637.20	Water Content, %	37.7
Sampled	9/9/2010	Plastic Limit	23
Boring No./Sample No.	HB-AUB-302/10D	Liquid Limit	34
Station		Plasticity Index	11
Depth	49.5-51.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>205825</b>	<b>HB-AUB-302/11D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>54.5-56.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>31</b>	
<u>Plastic Limit (T 90), %</u>	
<b>19</b>	
<u>Plasticity Index (T 90), %</u>	
<b>12</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b>2.65</b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>31.9</b>	

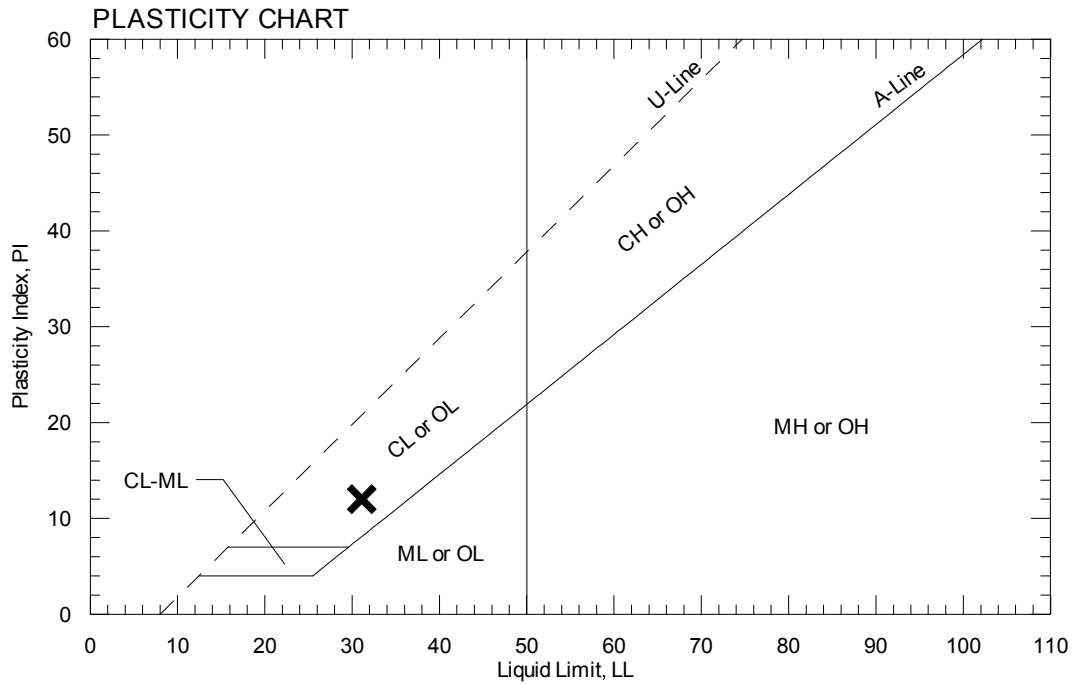
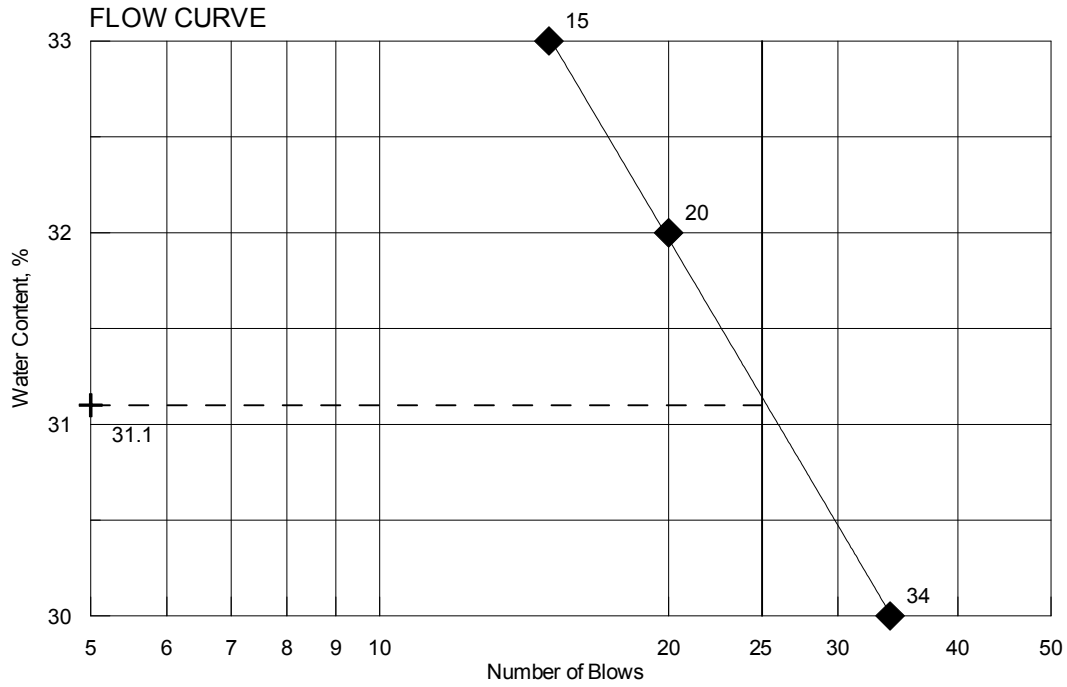
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/5/2010**

TOWN	Auburn	Reference No.	205825
PIN	016637.20	Water Content, %	31.9
Sampled	9/9/2010	Plastic Limit	19
Boring No./Sample No.	HB-AUB-302/11D	Liquid Limit	31
Station		Plasticity Index	12
Depth	54.5-56.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>236946</b>	<b>HB-AUB-302/12D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>59.5-61.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>26</b>	
<u>Plastic Limit (T 90), %</u>	
<b>18</b>	
<u>Plasticity Index (T 90), %</u>	
<b>8</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>30.9</b>	

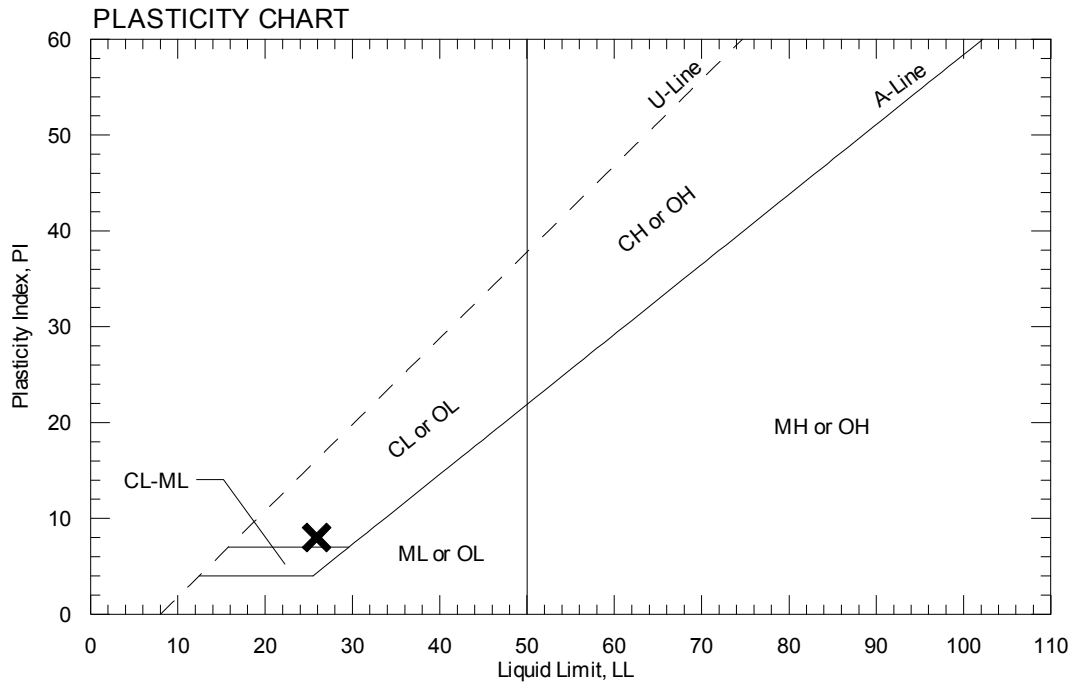
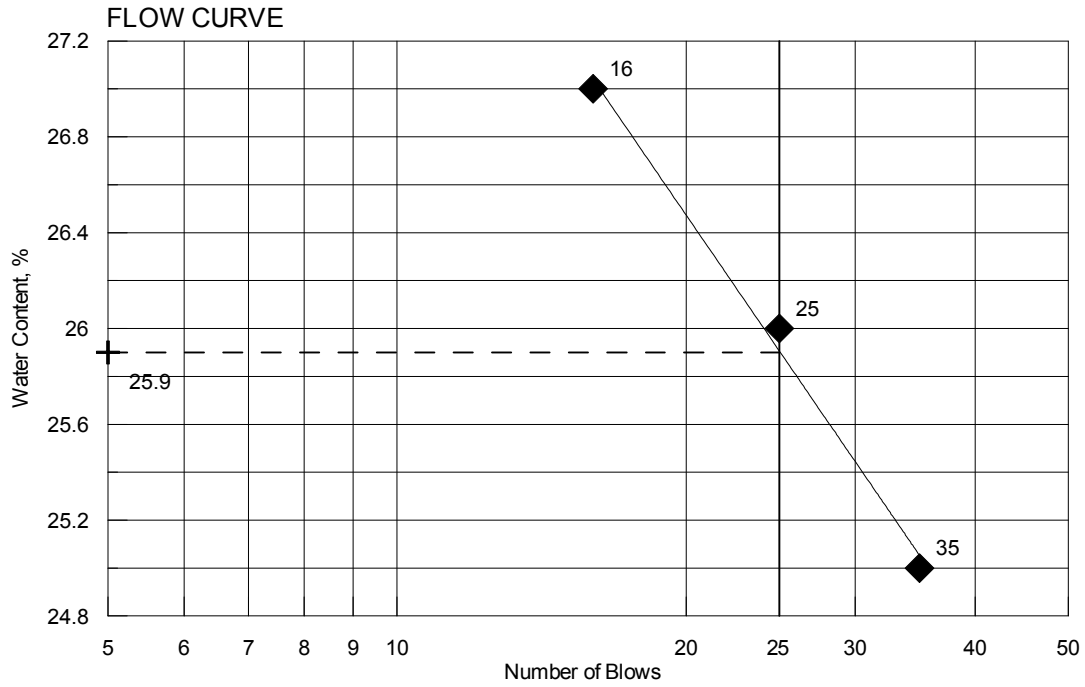
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/4/2010**

TOWN	Auburn	Reference No.	236946
PIN	016637.20	Water Content, %	30.9
Sampled	9/9/2010	Plastic Limit	18
Boring No./Sample No.	HB-AUB-302/12D	Liquid Limit	26
Station		Plasticity Index	8
Depth	59.5-61.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>212175</b>	<b>HB-AUB-302/13D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>64.5-66.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
<b>NP</b>	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition (T 267)	
Loss, %	H2O, %
Water Content (T 265), %	
<b>24.2</b>	

Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/29/2010**



# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240141</b>	<b>HB-AUB-302/14D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>69.5-71.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
<b>NP</b>	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition (T 267)	
Loss, %	H2O, %
Water Content (T 265), %	
<b>23.5</b>	

Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/29/2010**



# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>205824</b>	<b>HB-AUB-302/1D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>5.0-7.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

<b>Sieve Analysis (T 27, T 11)</b>  Wash Method <b>Procedure A</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">SIEVE SIZE U.S. [SI]</th> <th style="width: 30%;">% Passing</th> </tr> </thead> <tbody> <tr><td>3 in. [75.0 mm]</td><td></td></tr> <tr><td>1 in. [25.0 mm]</td><td><b>100.0</b></td></tr> <tr><td>¾ in. [19.0 mm]</td><td><b>90.3</b></td></tr> <tr><td>½ in. [12.5 mm]</td><td><b>84.2</b></td></tr> <tr><td>⅜ in. [9.5 mm]</td><td><b>80.3</b></td></tr> <tr><td>¼ in. [6.3 mm]</td><td><b>75.3</b></td></tr> <tr><td>No. 4 [4.75 mm]</td><td><b>72.2</b></td></tr> <tr><td>No. 10 [2.00 mm]</td><td><b>56.0</b></td></tr> <tr><td>No. 20 [0.850 mm]</td><td><b>38.7</b></td></tr> <tr><td>No. 40 [0.425 mm]</td><td><b>20.9</b></td></tr> <tr><td>No. 60 [0.250 mm]</td><td><b>13.0</b></td></tr> <tr><td>No. 100 [0.150 mm]</td><td><b>8.4</b></td></tr> <tr><td>No. 200 [0.075 mm]</td><td><b>5.0</b></td></tr> </tbody> </table>	SIEVE SIZE U.S. [SI]	% Passing	3 in. [75.0 mm]		1 in. [25.0 mm]	<b>100.0</b>	¾ in. [19.0 mm]	<b>90.3</b>	½ in. [12.5 mm]	<b>84.2</b>	⅜ in. [9.5 mm]	<b>80.3</b>	¼ in. [6.3 mm]	<b>75.3</b>	No. 4 [4.75 mm]	<b>72.2</b>	No. 10 [2.00 mm]	<b>56.0</b>	No. 20 [0.850 mm]	<b>38.7</b>	No. 40 [0.425 mm]	<b>20.9</b>	No. 60 [0.250 mm]	<b>13.0</b>	No. 100 [0.150 mm]	<b>8.4</b>	No. 200 [0.075 mm]	<b>5.0</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Direct Shear (T 236)</th> </tr> </thead> <tbody> <tr><td>Shear Angle, °</td><td></td><td></td><td></td></tr> <tr><td>Initial Water Content, %</td><td></td><td></td><td></td></tr> <tr><td>Normal Stress, psi</td><td></td><td></td><td></td></tr> <tr><td>Wet Density, lbs/ft³</td><td></td><td></td><td></td></tr> <tr><td>Dry Density, lbs/ft³</td><td></td><td></td><td></td></tr> <tr><td>Specimen Thickness, in</td><td></td><td></td><td></td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" style="text-align: center;">Consolidation (T 216)</th> </tr> </thead> <tbody> <tr> <td colspan="6" style="text-align: center;">Trimming, Water Content, %</td> </tr> <tr> <td></td> <td style="text-align: center;">Initial</td> <td style="text-align: center;">Final</td> <td></td> <td style="text-align: center;">Void Ratio</td> <td style="text-align: center;">% Strain</td> </tr> <tr> <td>Water Content, %</td> <td></td> <td></td> <td>Pmin</td> <td></td> <td></td> </tr> <tr> <td>Dry Density, lbs/ft³</td> <td></td> <td></td> <td>Pp</td> <td></td> <td></td> </tr> <tr> <td>Void Ratio</td> <td></td> <td></td> <td>Pmax</td> <td></td> <td></td> </tr> <tr> <td>Saturation, %</td> <td></td> <td></td> <td>Cc/C'c</td> <td></td> <td></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Vane Shear Test on Shelby Tubes (Maine DOT)</th> </tr> <tr> <th rowspan="3" style="width: 10%;">Depth taken in tube, ft</th> <th colspan="2" style="width: 15%;">3 In.</th> <th colspan="2" style="width: 15%;">6 In.</th> <th rowspan="3" style="width: 10%;">Water Content, %</th> <th rowspan="3" style="width: 40%;">Description of Material Sampled at the Various Tube Depths</th> </tr> <tr> <th style="width: 5%;">U. Shear</th> <th style="width: 10%;">Remold</th> <th style="width: 5%;">U. Shear</th> <th style="width: 10%;">Remold</th> </tr> <tr> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Direct Shear (T 236)				Shear Angle, °				Initial Water Content, %				Normal Stress, psi				Wet Density, lbs/ft³				Dry Density, lbs/ft³				Specimen Thickness, in				Consolidation (T 216)						Trimming, Water Content, %							Initial	Final		Void Ratio	% Strain	Water Content, %			Pmin			Dry Density, lbs/ft³			Pp			Void Ratio			Pmax			Saturation, %			Cc/C'c			Vane Shear Test on Shelby Tubes (Maine DOT)							Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths	U. Shear	Remold	U. Shear	Remold	tons/ft²	tons/ft²	tons/ft²	tons/ft²								<b>Miscellaneous Tests</b>  Liquid Limit @ 25 blows (T 89), %  Plastic Limit (T 90), %  Plasticity Index (T 90), %  Specific Gravity, Corrected to 20°C (T 100)  Loss on Ignition (T 267) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">Loss, %</td> <td style="width: 50%; text-align: center;">H2O, %</td> </tr> </table> Water Content (T 265), % <p style="text-align: center; font-weight: bold;">2.5</p>	Loss, %	H2O, %
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Loss, %	H2O, %																																																																																																																																		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/25/2010**





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>205821</b>	<b>HB-AUB-302/2D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>10.0-12.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	Direct Shear (T 236)	Miscellaneous Tests
Wash Method	Shear Angle, °	Liquid Limit @ 25 blows (T 89), %
	Initial Water Content, %	<b>41</b>
SIEVE SIZE U.S. [SI]	Normal Stress, psi	Plastic Limit (T 90), %
% Passing	Wet Density, lbs/ft <sup>3</sup>	<b>22</b>
3 in. [75.0 mm]	Dry Density, lbs/ft <sup>3</sup>	Plasticity Index (T 90), %
1 in. [25.0 mm]	Specimen Thickness, in	<b>19</b>
¾ in. [19.0 mm]		Specific Gravity, Corrected to 20°C (T 100)
½ in. [12.5 mm]		
¼ in. [9.5 mm]		Loss on Ignition (T 267)
¼ in. [6.3 mm]		Loss, %
No. 4 [4.75 mm]		H <sub>2</sub> O, %
No. 10 [2.00 mm]		Water Content (T 265), %
No. 20 [0.850 mm]		<b>38.4</b>
No. 40 [0.425 mm]		
No. 60 [0.250 mm]		
No. 100 [0.150 mm]		
No. 200 [0.075 mm]		

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			P <sub>min</sub>		
Dry Density, lbs/ft <sup>3</sup>			P <sub>p</sub>		
Void Ratio			P <sub>max</sub>		
Saturation, %			C <sub>c</sub> /C <sub>c'</sub>		

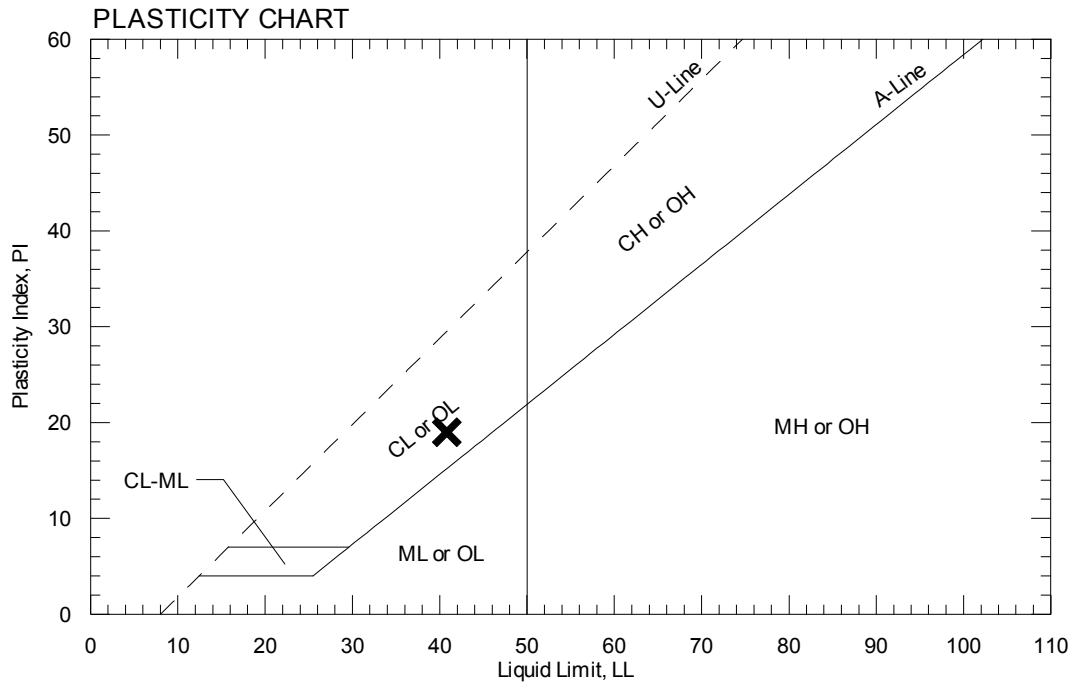
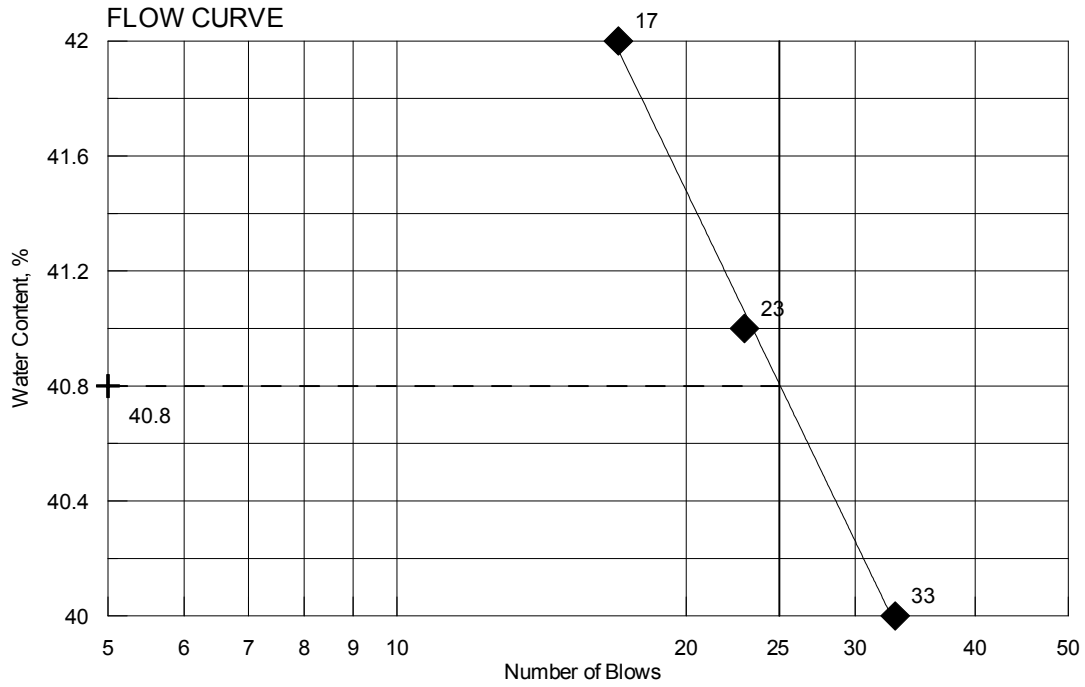
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft <sup>2</sup>	tons/ft <sup>2</sup>	tons/ft <sup>2</sup>	tons/ft <sup>2</sup>		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/29/2010**

TOWN	Auburn	Reference No.	205821
PIN	016637.20	Water Content, %	38.4
Sampled	9/9/2010	Plastic Limit	22
Boring No./Sample No.	HB-AUB-302/2D	Liquid Limit	41
Station		Plasticity Index	19
Depth	10.0-12.0	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>212171</b>	<b>HB-AUB-302/3D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>14.5-16.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>33</b>	
<u>Plastic Limit (T 90), %</u>	
<b>22</b>	
<u>Plasticity Index (T 90), %</u>	
<b>11</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b>2.65</b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>55.6</b>	

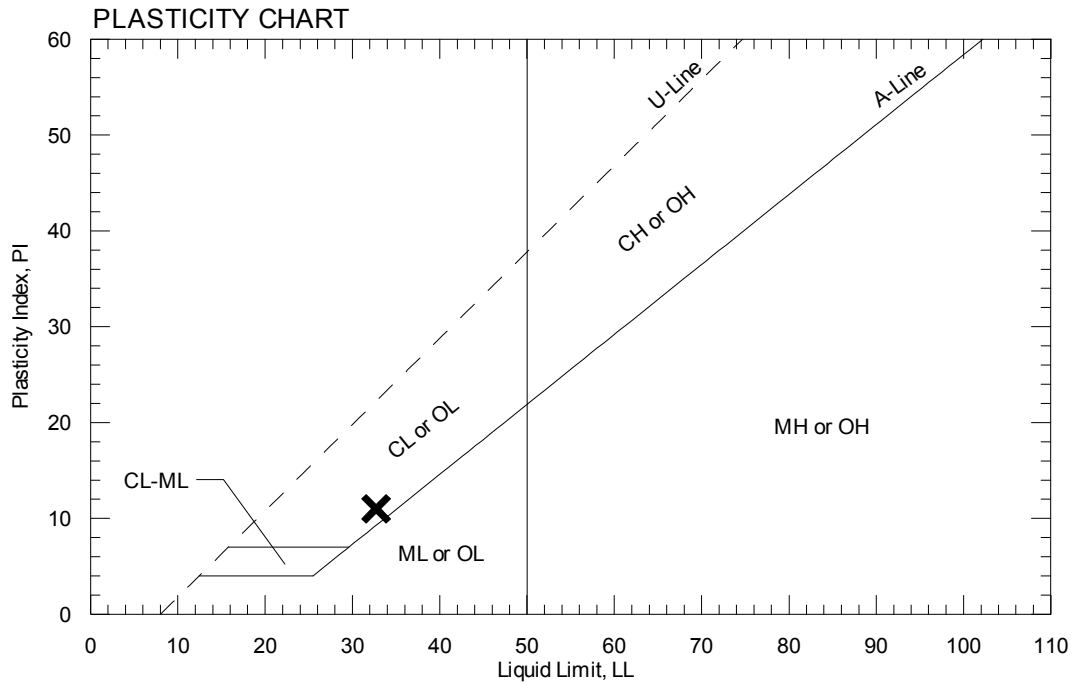
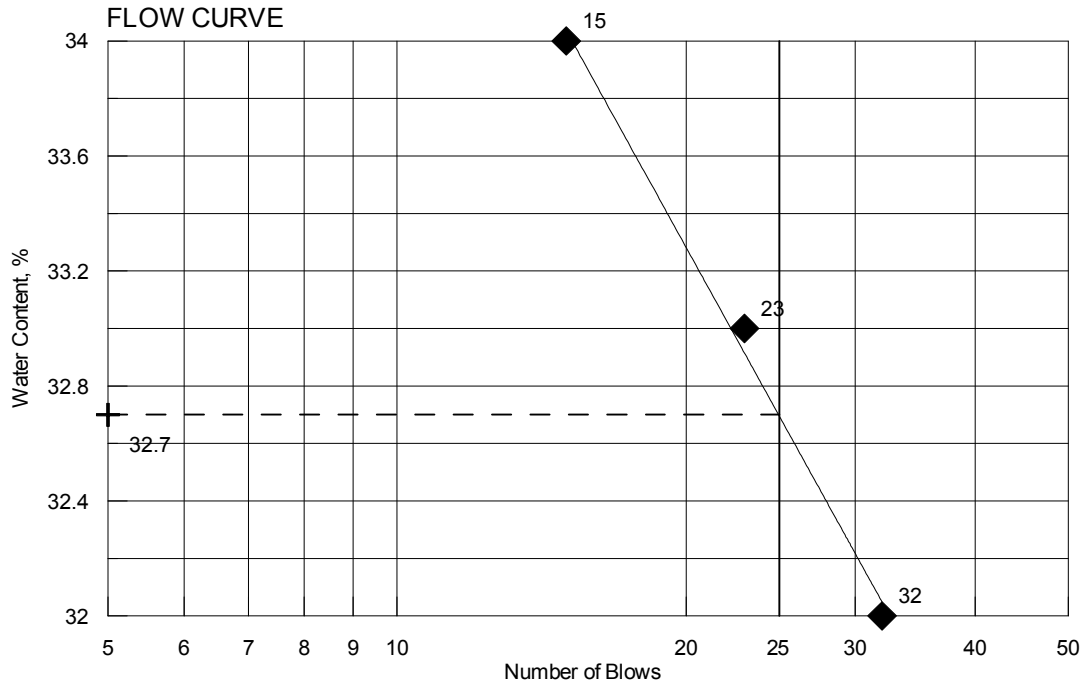
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/30/2010**

TOWN	Auburn	Reference No.	212171
PIN	016637.20	Water Content, %	55.6
Sampled	9/9/2010	Plastic Limit	22
Boring No./Sample No.	HB-AUB-302/3D	Liquid Limit	33
Station		Plasticity Index	11
Depth	14.5-16.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>205823</b>	<b>HB-AUB-302/4D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>19.5-21.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

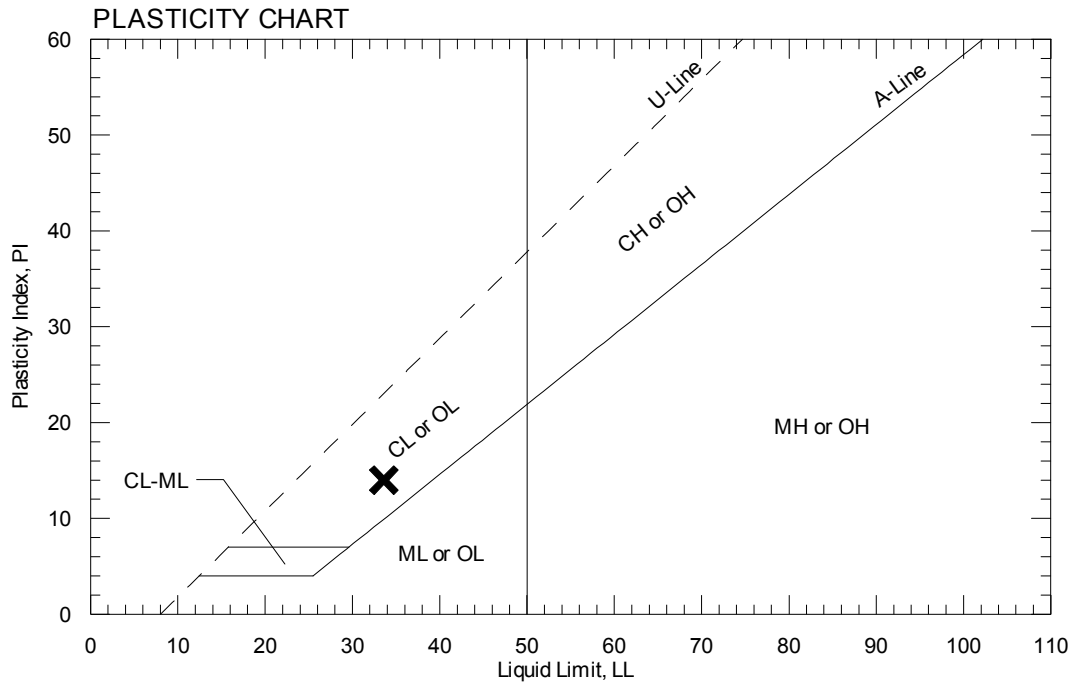
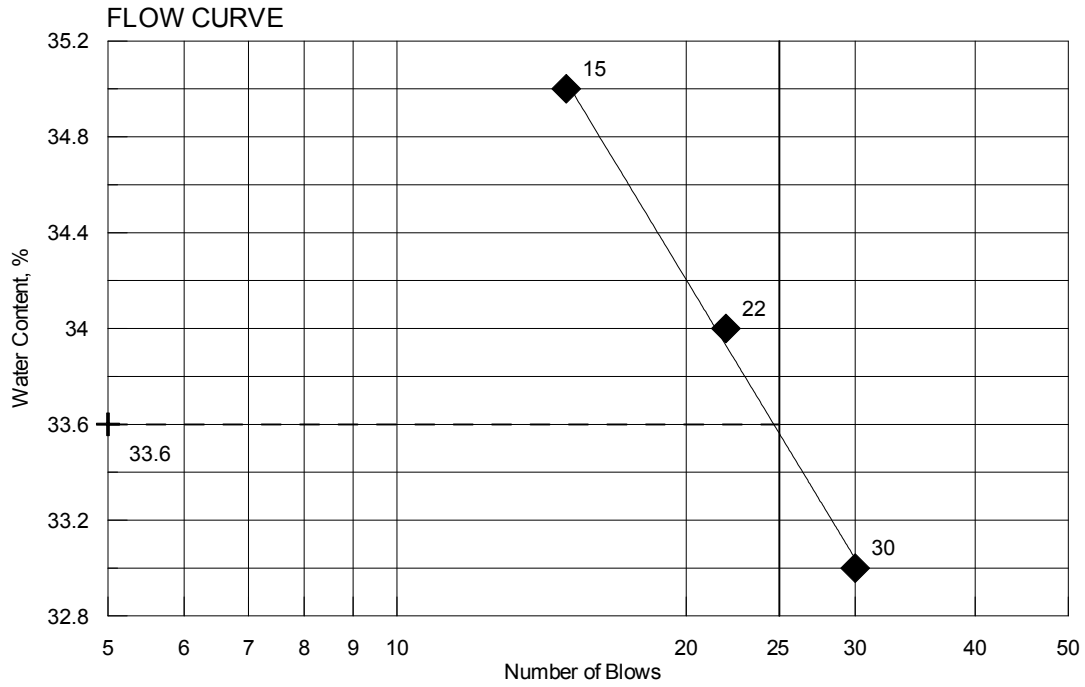
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Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/4/2010**

TOWN	Auburn	Reference No.	205823
PIN	016637.20	Water Content, %	44.7
Sampled	9/9/2010	Plastic Limit	20
Boring No./Sample No.	HB-AUB-302/4D	Liquid Limit	34
Station		Plasticity Index	14
Depth	19.5-21.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>212174</b>	<b>HB-AUB-302/5D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>24.5-26.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

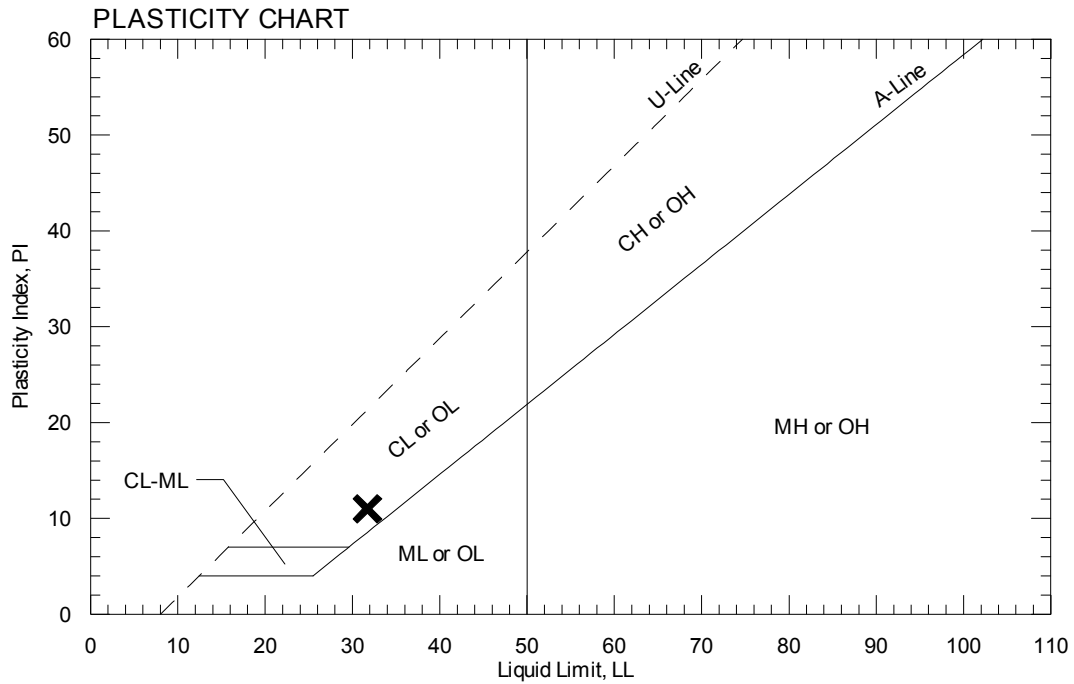
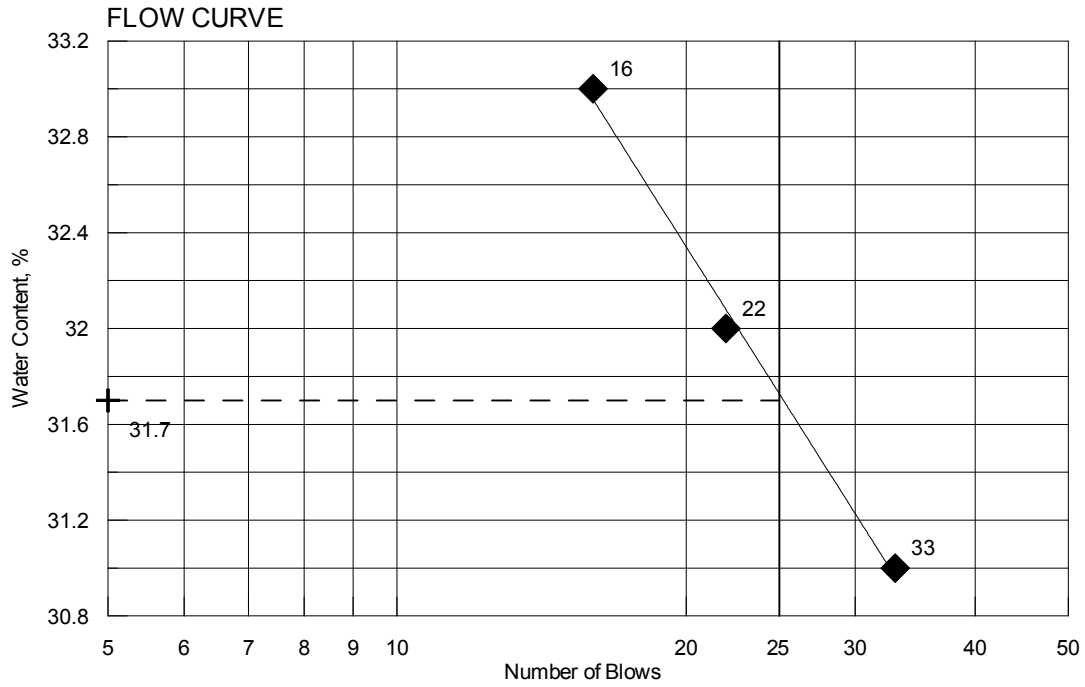
Sieve Analysis (T 27)	Direct Shear (T 236)	Miscellaneous Tests
Wash Method	Shear Angle, °	Liquid Limit @ 25 blows (T 89), %
	Initial Water Content, %	<b>32</b>
SIEVE SIZE U.S. [SI]	Normal Stress, psi	Plastic Limit (T 90), %
% Passing	Wet Density, lbs/ft <sup>3</sup>	<b>21</b>
3 in. [75.0 mm]	Dry Density, lbs/ft <sup>3</sup>	Plasticity Index (T 90), %
1 in. [25.0 mm]	Specimen Thickness, in	<b>11</b>
¾ in. [19.0 mm]		Specific Gravity, Corrected to 20°C (T 100)
½ in. [12.5 mm]		
¼ in. [9.5 mm]		
¼ in. [6.3 mm]		
No. 4 [4.75 mm]		
No. 10 [2.00 mm]		
No. 20 [0.850 mm]		
No. 40 [0.425 mm]		
No. 60 [0.250 mm]		
No. 100 [0.150 mm]		
No. 200 [0.075 mm]		
	Consolidation (T 216)	Loss on Ignition (T 267)
	Trimming, Water Content, %	Loss, %      H <sub>2</sub> O, %
	Initial      Final	
	Water Content, %      P <sub>min</sub>	
	Dry Density, lbs/ft <sup>3</sup> P <sub>p</sub>	
	Void Ratio      P <sub>max</sub>	
	Saturation, %      C <sub>c</sub> /C <sub>c'</sub>	
		Water Content (T 265), %
		<b>28.4</b>
	Vane Shear Test on Shelby Tubes (Maine DOT)	
	Depth taken in tube, ft	Description of Material Sampled at the Various Tube Depths
	3 In.      6 In.	
	U. Shear      Remold      U. Shear      Remold      Water Content, %	
	tons/ft <sup>2</sup> tons/ft <sup>2</sup> tons/ft <sup>2</sup> tons/ft <sup>2</sup> %	

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN**      Date Reported: **10/1/2010**

TOWN	Auburn	Reference No.	212174
PIN	016637.20	Water Content, %	28.4
Sampled	9/9/2010	Plastic Limit	21
Boring No./Sample No.	HB-AUB-302/5D	Liquid Limit	32
Station		Plasticity Index	11
Depth	24.5-26.5	Tested By	BBURR







# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>212173</b>	<b>HB-AUB-302/6D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>29.5-31.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>27</b>	
<u>Plastic Limit (T 90), %</u>	
<b>19</b>	
<u>Plasticity Index (T 90), %</u>	
<b>8</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>30.1</b>	

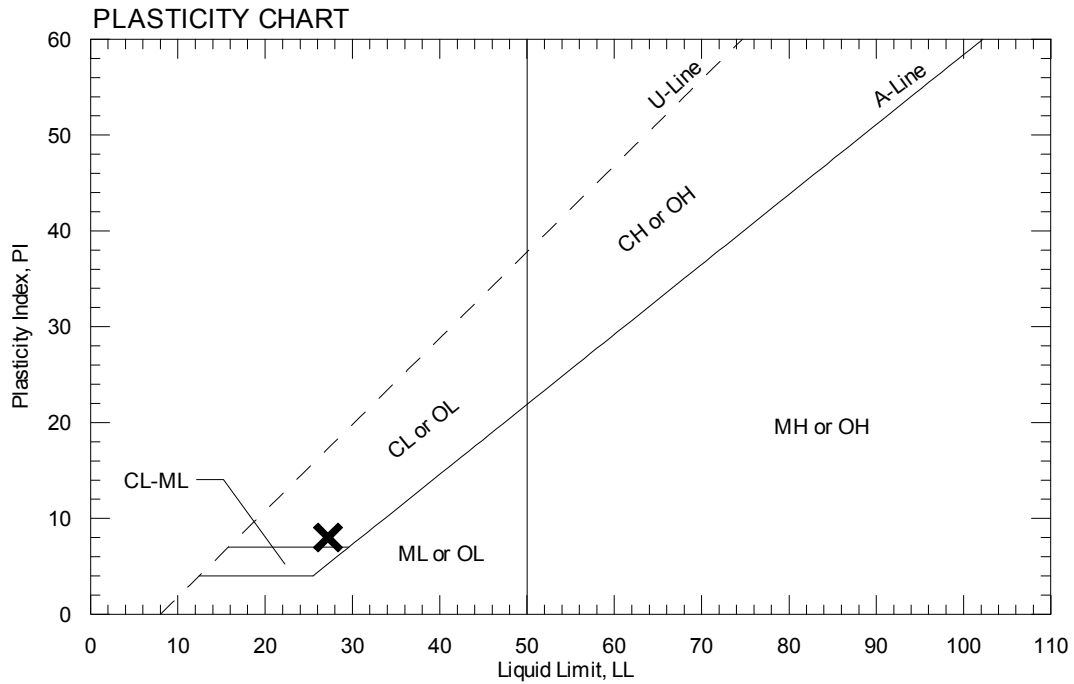
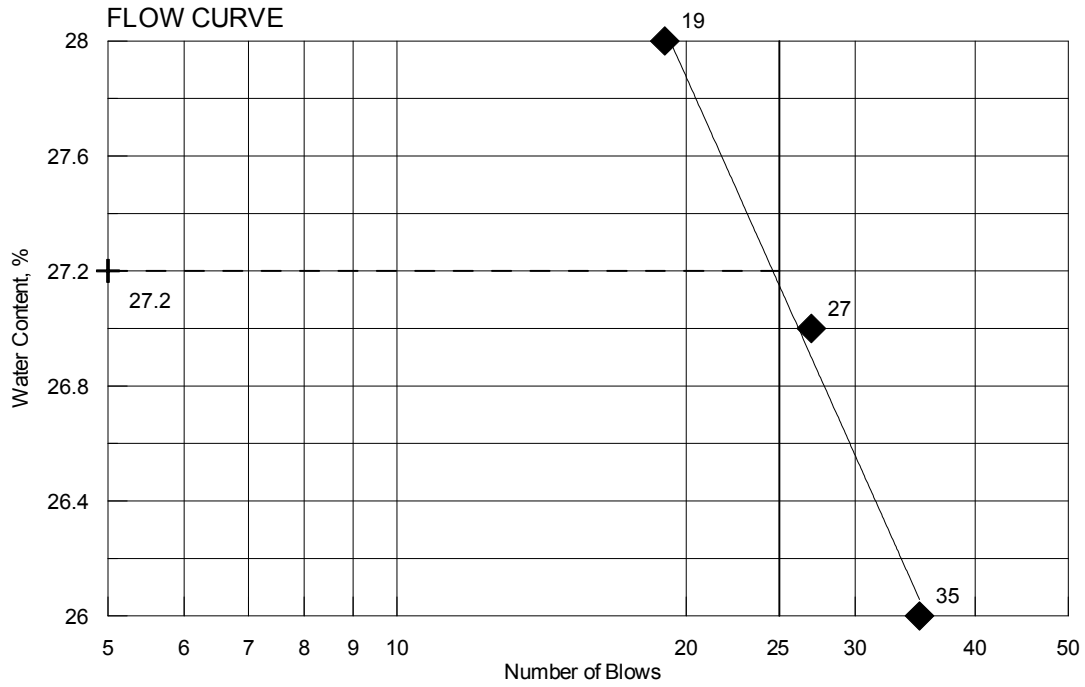
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/30/2010**

TOWN	Auburn	Reference No.	212173
PIN	016637.20	Water Content, %	30.1
Sampled	9/9/2010	Plastic Limit	19
Boring No./Sample No.	HB-AUB-302/6D	Liquid Limit	27
Station		Plasticity Index	8
Depth	29.5-31.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>239849</b>	<b>HB-AUB-302/7D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>34.5-36.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>27</b>	
<u>Plastic Limit (T 90), %</u>	
<b>19</b>	
<u>Plasticity Index (T 90), %</u>	
<b>8</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b></b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<b></b>	<b></b>
<u>Water Content (T 265), %</u>	
<b>27.7</b>	

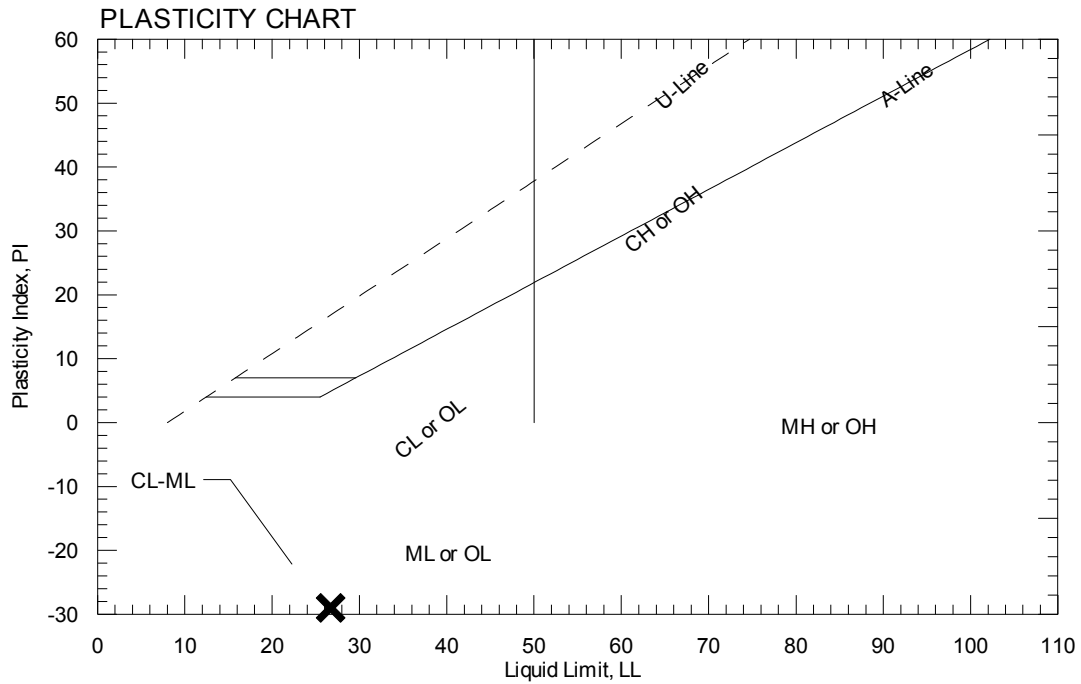
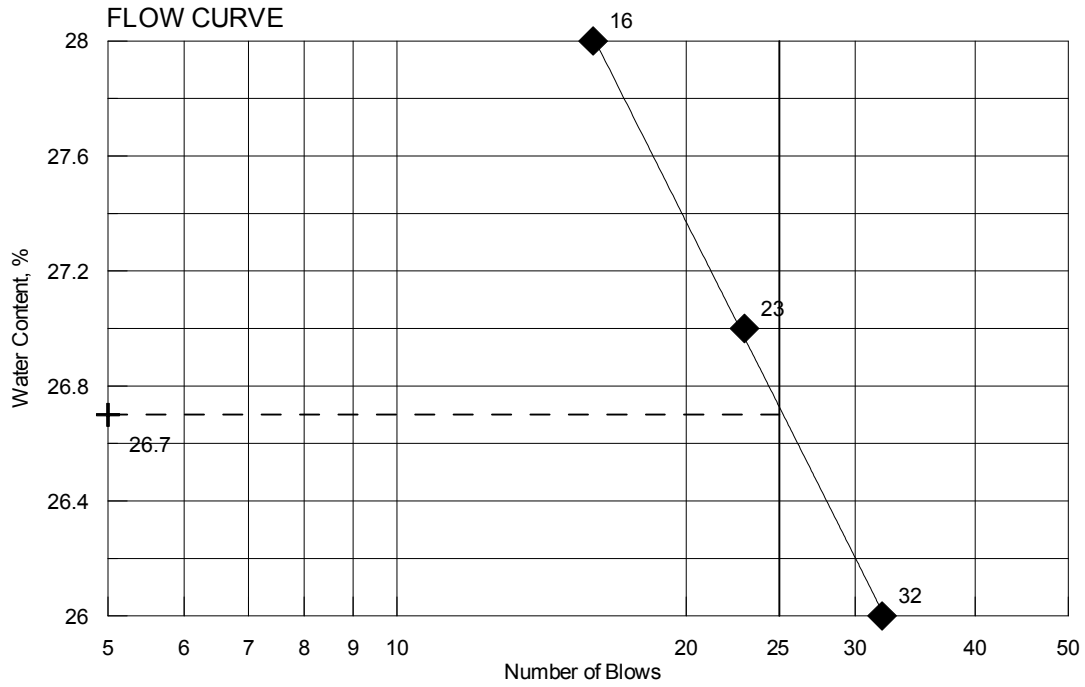
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/5/2010**

TOWN	Auburn	Reference No.	239849
PIN	016637.20	Water Content, %	27.7
Sampled	9/9/2010	Plastic Limit	19
Boring No./Sample No.	HB-AUB-302/7D	Liquid Limit	27
Station		Plasticity Index	8
Depth	34.5-36.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240126</b>	<b>HB-AUB-302/8D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>39.5-41.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>24</b>	
<u>Plastic Limit (T 90), %</u>	
<b>12</b>	
<u>Plasticity Index (T 90), %</u>	
<b>12</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>31.4</b>	

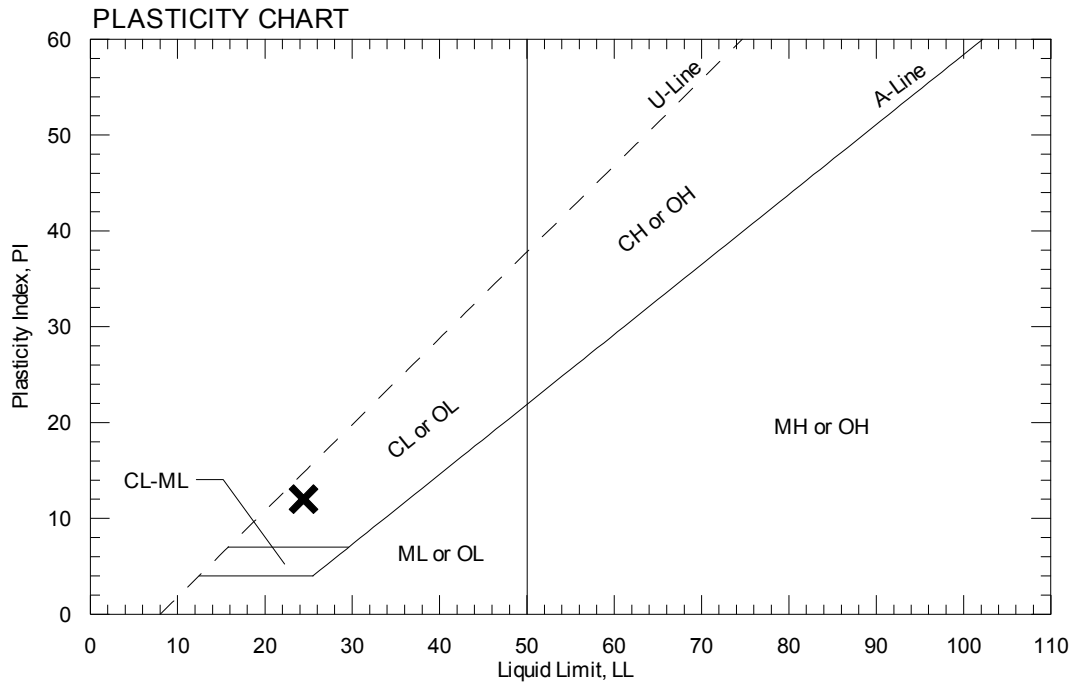
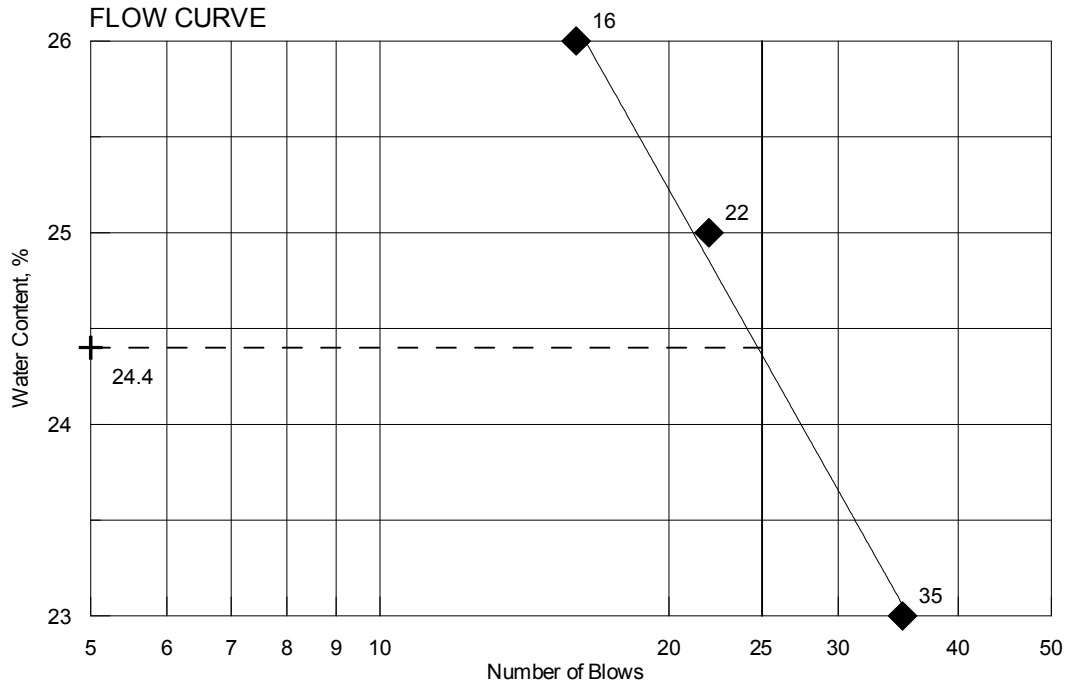
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/29/2010**

TOWN	Auburn	Reference No.	240126
PIN	016637.20	Water Content, %	31.4
Sampled	9/9/2010	Plastic Limit	12
Boring No./Sample No.	HB-AUB-302/8D	Liquid Limit	24
Station		Plasticity Index	12
Depth	39.5-41.5	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240129</b>	<b>HB-AUB-302/9D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/9/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>44.5-46.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimblings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>33</b>	
<u>Plastic Limit (T 90), %</u>	
<b>24</b>	
<u>Plasticity Index (T 90), %</u>	
<b>9</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b> </b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<b> </b>	
<u>Water Content (T 265), %</u>	
<b>30.6</b>	

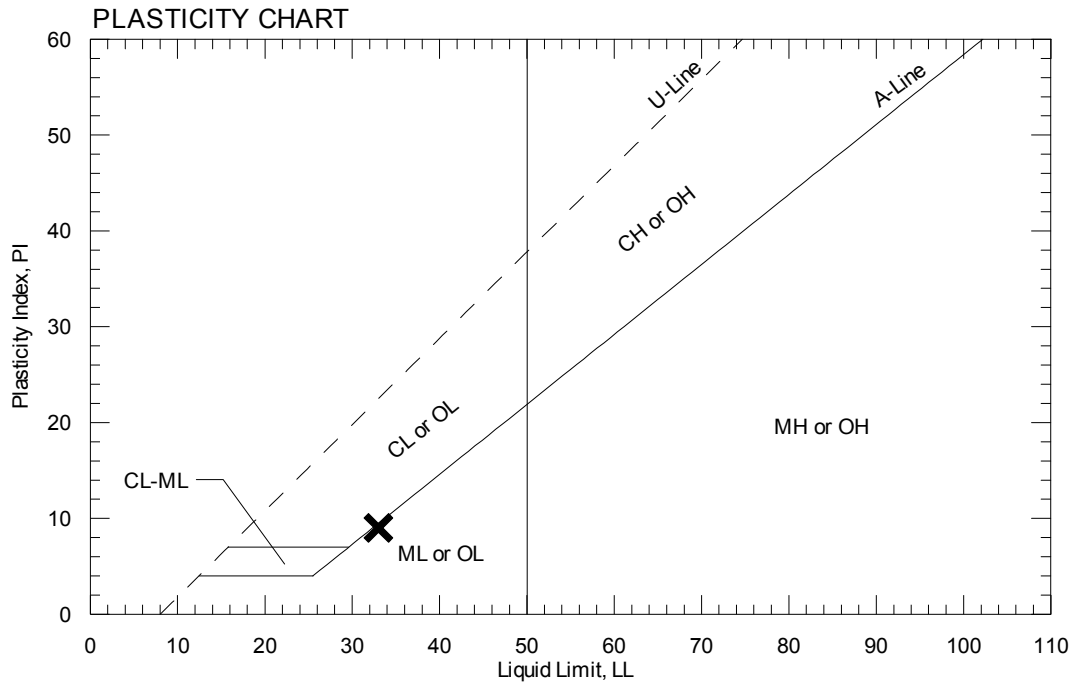
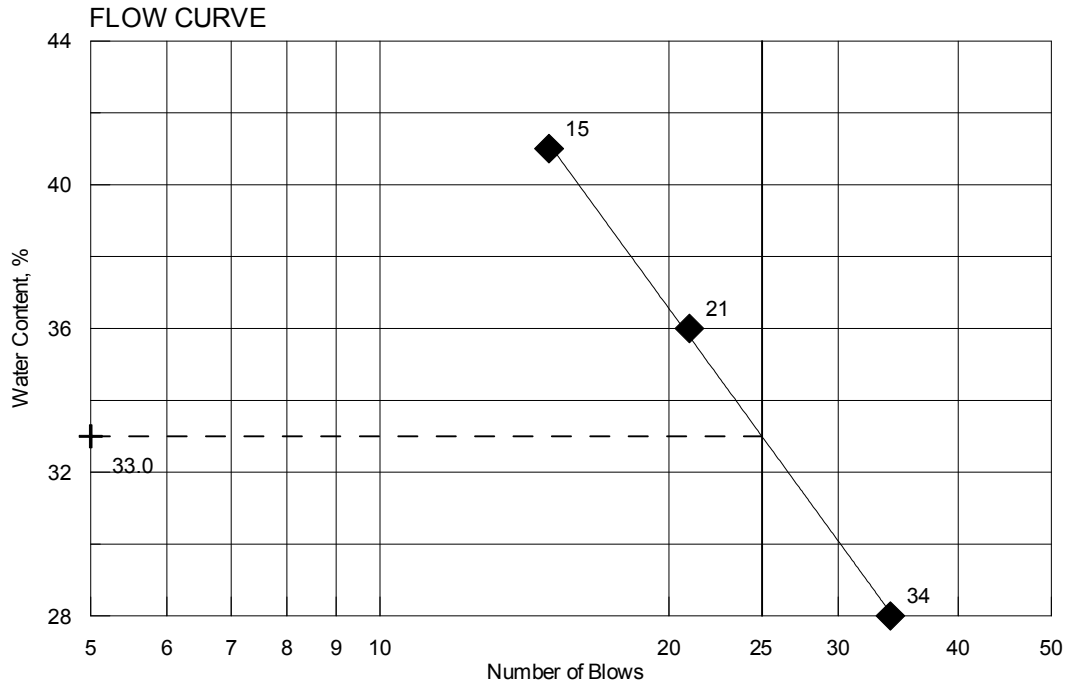
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/30/2010**

TOWN	Auburn	Reference No.	240129
PIN	016637.20	Water Content, %	30.6
Sampled	9/9/2010	Plastic Limit	24
Boring No./Sample No.	HB-AUB-302/9D	Liquid Limit	33
Station		Plasticity Index	9
Depth	44.5-46.5	Tested By	BBURR







# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240145</b>	<b>HB-AUB-303/13D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/15/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>63.0-65.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27, T 11)	
Wash Method	
Procedure A	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	<b>100.0</b>
No. 10 [2.00 mm]	<b>100.0</b>
No. 20 [0.850 mm]	<b>99.9</b>
No. 40 [0.425 mm]	<b>99.3</b>
No. 60 [0.250 mm]	<b>90.0</b>
No. 100 [0.150 mm]	<b>59.6</b>
No. 200 [0.075 mm]	<b>19.9</b>

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition (T 267)	
Loss, %	H2O, %
Water Content (T 265), %	
<b>20.9</b>	

Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/27/2010**



# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240132</b>	<b>HB-AUB-303/16D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/15/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>78.0-80.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27, T 11)	
Wash Method	
Procedure A	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	<b>100.0</b>
¾ in. [19.0 mm]	<b>97.7</b>
½ in. [12.5 mm]	<b>97.1</b>
⅜ in. [9.5 mm]	<b>96.1</b>
¼ in. [6.3 mm]	<b>94.6</b>
No. 4 [4.75 mm]	<b>93.6</b>
No. 10 [2.00 mm]	<b>90.2</b>
No. 20 [0.850 mm]	<b>85.1</b>
No. 40 [0.425 mm]	<b>71.7</b>
No. 60 [0.250 mm]	<b>42.2</b>
No. 100 [0.150 mm]	<b>18.4</b>
No. 200 [0.075 mm]	<b>8.7</b>

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimblings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition (T 267)	
Loss, %	H2O, %
Water Content (T 265), %	
<b>16.4</b>	

Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/29/2010**



# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240131</b>	<b>HB-AUB-303/18D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/16/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>98.0-98.1</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27, T 11)	
Wash Method	
Procedure A	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	<b>100.0</b>
No. 10 [2.00 mm]	<b>99.9</b>
No. 20 [0.850 mm]	<b>98.9</b>
No. 40 [0.425 mm]	<b>88.7</b>
No. 60 [0.250 mm]	<b>58.7</b>
No. 100 [0.150 mm]	<b>27.5</b>
No. 200 [0.075 mm]	<b>8.0</b>

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition (T 267)	
Loss, %	H2O, %
Water Content (T 265), %	
<b>20.8</b>	

Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/25/2010**



# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240148</b>	<b>HB-AUB-303/1D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/14/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>0.0-2.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

<b>Sieve Analysis (T 27, T 11)</b> Wash Method <b>Procedure A</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">SIEVE SIZE U.S. [SI]</th> <th style="width: 30%;">% Passing</th> </tr> </thead> <tbody> <tr><td>3 in. [75.0 mm]</td><td></td></tr> <tr><td>1 in. [25.0 mm]</td><td></td></tr> <tr><td>¾ in. [19.0 mm]</td><td></td></tr> <tr><td>½ in. [12.5 mm]</td><td></td></tr> <tr><td>⅜ in. [9.5 mm]</td><td><b>100.0</b></td></tr> <tr><td>¼ in. [6.3 mm]</td><td><b>99.7</b></td></tr> <tr><td>No. 4 [4.75 mm]</td><td><b>98.3</b></td></tr> <tr><td>No. 10 [2.00 mm]</td><td><b>94.1</b></td></tr> <tr><td>No. 20 [0.850 mm]</td><td><b>89.9</b></td></tr> <tr><td>No. 40 [0.425 mm]</td><td><b>83.9</b></td></tr> <tr><td>No. 60 [0.250 mm]</td><td><b>75.4</b></td></tr> <tr><td>No. 100 [0.150 mm]</td><td><b>60.9</b></td></tr> <tr><td>No. 200 [0.075 mm]</td><td><b>30.4</b></td></tr> </tbody> </table>	SIEVE SIZE U.S. [SI]	% Passing	3 in. [75.0 mm]		1 in. [25.0 mm]		¾ in. [19.0 mm]		½ in. [12.5 mm]		⅜ in. [9.5 mm]	<b>100.0</b>	¼ in. [6.3 mm]	<b>99.7</b>	No. 4 [4.75 mm]	<b>98.3</b>	No. 10 [2.00 mm]	<b>94.1</b>	No. 20 [0.850 mm]	<b>89.9</b>	No. 40 [0.425 mm]	<b>83.9</b>	No. 60 [0.250 mm]	<b>75.4</b>	No. 100 [0.150 mm]	<b>60.9</b>	No. 200 [0.075 mm]	<b>30.4</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Direct Shear (T 236)</th> </tr> </thead> <tbody> <tr><td>Shear Angle, °</td><td></td><td></td><td></td></tr> <tr><td>Initial Water Content, %</td><td></td><td></td><td></td></tr> <tr><td>Normal Stress, psi</td><td></td><td></td><td></td></tr> <tr><td>Wet Density, lbs/ft³</td><td></td><td></td><td></td></tr> <tr><td>Dry Density, lbs/ft³</td><td></td><td></td><td></td></tr> <tr><td>Specimen Thickness, in</td><td></td><td></td><td></td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" style="text-align: center;">Consolidation (T 216)</th> </tr> </thead> <tbody> <tr> <td colspan="6" style="text-align: center;">Trimmings, Water Content, %</td> </tr> <tr> <td></td> <td style="text-align: center;">Initial</td> <td style="text-align: center;">Final</td> <td></td> <td style="text-align: center;">Void Ratio</td> <td style="text-align: center;">% Strain</td> </tr> <tr> <td>Water Content, %</td> <td></td> <td></td> <td>Pmin</td> <td></td> <td></td> </tr> <tr> <td>Dry Density, lbs/ft³</td> <td></td> <td></td> <td>Pp</td> <td></td> <td></td> </tr> <tr> <td>Void Ratio</td> <td></td> <td></td> <td>Pmax</td> <td></td> <td></td> </tr> <tr> <td>Saturation, %</td> <td></td> <td></td> <td>Cc/C'c</td> <td></td> <td></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Vane Shear Test on Shelby Tubes (Maine DOT)</th> </tr> <tr> <th rowspan="3" style="text-align: center;">Depth taken in tube, ft</th> <th colspan="2" style="text-align: center;">3 In.</th> <th colspan="2" style="text-align: center;">6 In.</th> <th rowspan="3" style="text-align: center;">Water Content, %</th> <th rowspan="3" style="text-align: center;">Description of Material Sampled at the Various Tube Depths</th> </tr> <tr> <th style="text-align: center;">U. Shear</th> <th style="text-align: center;">Remold</th> <th style="text-align: center;">U. Shear</th> <th style="text-align: center;">Remold</th> </tr> <tr> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Direct Shear (T 236)				Shear Angle, °				Initial Water Content, %				Normal Stress, psi				Wet Density, lbs/ft³				Dry Density, lbs/ft³				Specimen Thickness, in				Consolidation (T 216)						Trimmings, Water Content, %							Initial	Final		Void Ratio	% Strain	Water Content, %			Pmin			Dry Density, lbs/ft³			Pp			Void Ratio			Pmax			Saturation, %			Cc/C'c			Vane Shear Test on Shelby Tubes (Maine DOT)							Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths	U. Shear	Remold	U. Shear	Remold	tons/ft²	tons/ft²	tons/ft²	tons/ft²								<b>Miscellaneous Tests</b> Liquid Limit @ 25 blows (T 89), %  Plastic Limit (T 90), %  Plasticity Index (T 90), %  Specific Gravity, Corrected to 20°C (T 100)  Loss on Ignition (T 267) Loss, %      H2O, %  Water Content (T 265), %  <p style="text-align: center;"><b>56.2</b></p>
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Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN**      Date Reported: **9/25/2010**



# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240143</b>	<b>HB-AUB-303/3D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/14/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>13.0-15.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>25</b>	
<u>Plastic Limit (T 90), %</u>	
<b>19</b>	
<u>Plasticity Index (T 90), %</u>	
<b>6</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>34.1</b>	

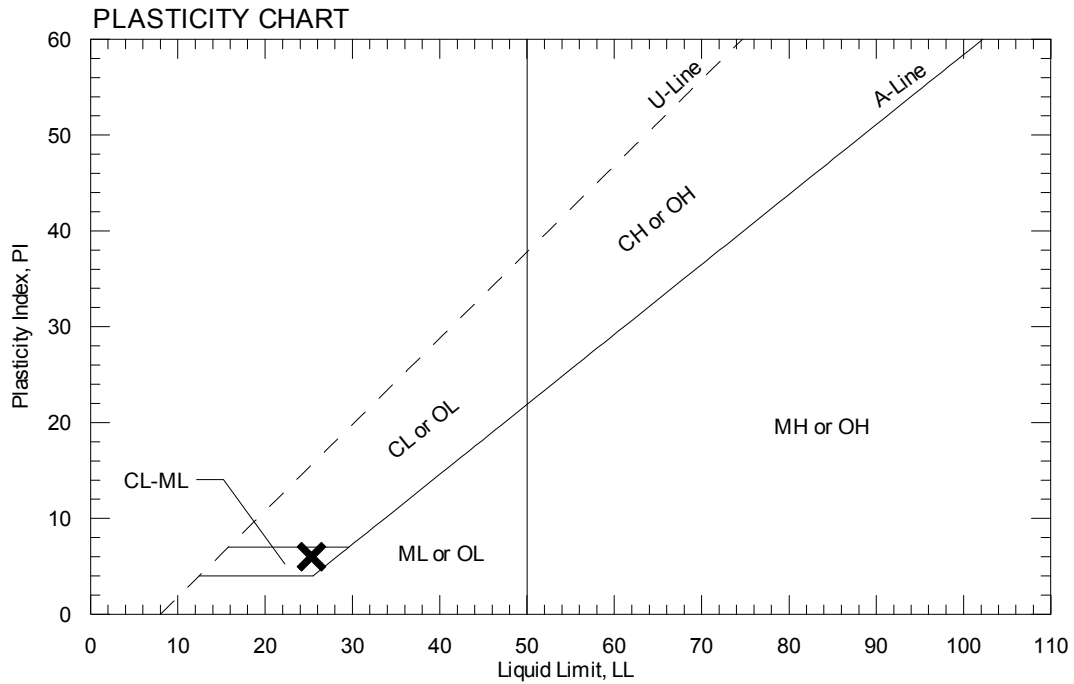
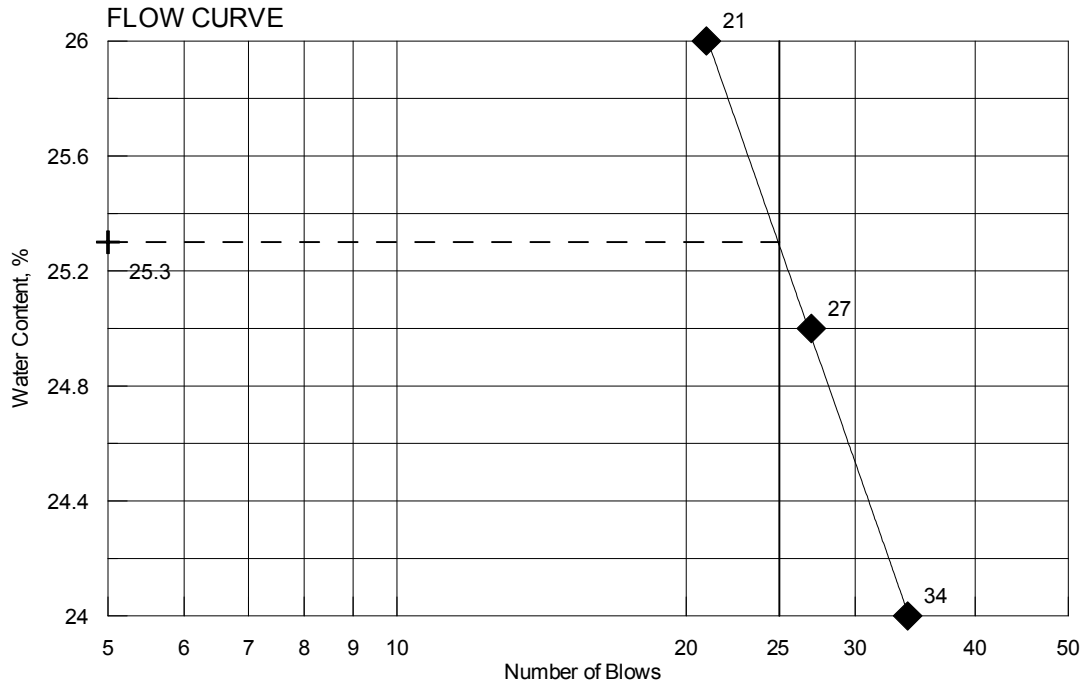
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/1/2010**

TOWN	Auburn	Reference No.	240143
PIN	016637.20	Water Content, %	34.1
Sampled	9/14/2010	Plastic Limit	19
Boring No./Sample No.	HB-AUB-303/3D	Liquid Limit	25
Station		Plasticity Index	6
Depth	13.0-15.0	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240147</b>	<b>HB-AUB-303/6D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/14/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>28.0-30.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>33</b>	
<u>Plastic Limit (T 90), %</u>	
<b>20</b>	
<u>Plasticity Index (T 90), %</u>	
<b>13</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b></b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>37.7</b>	

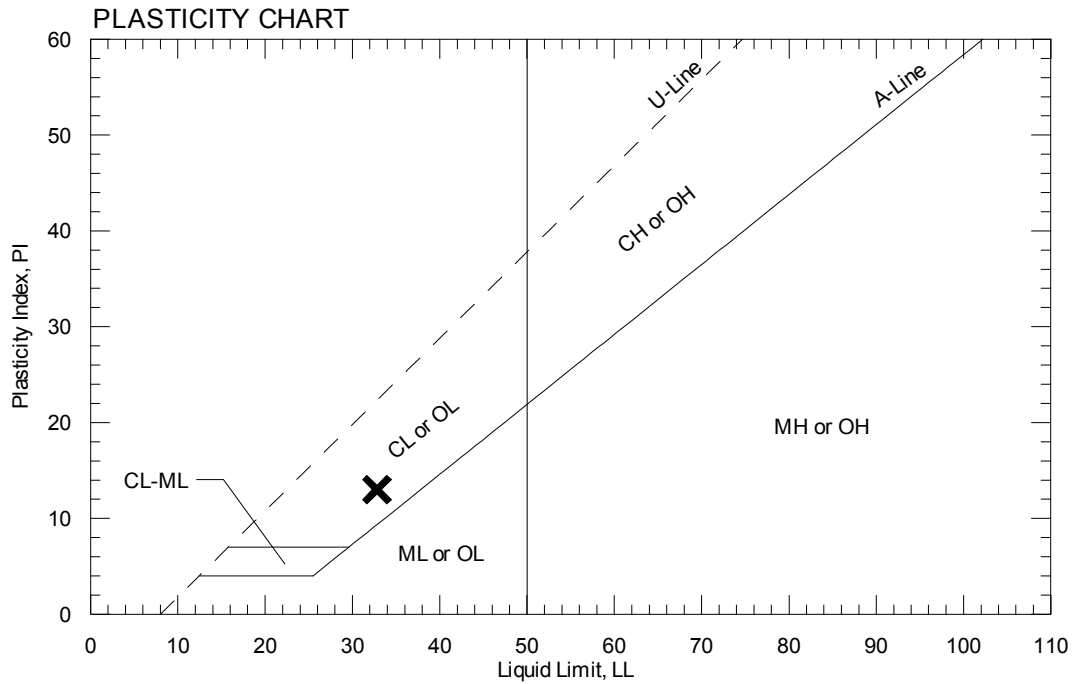
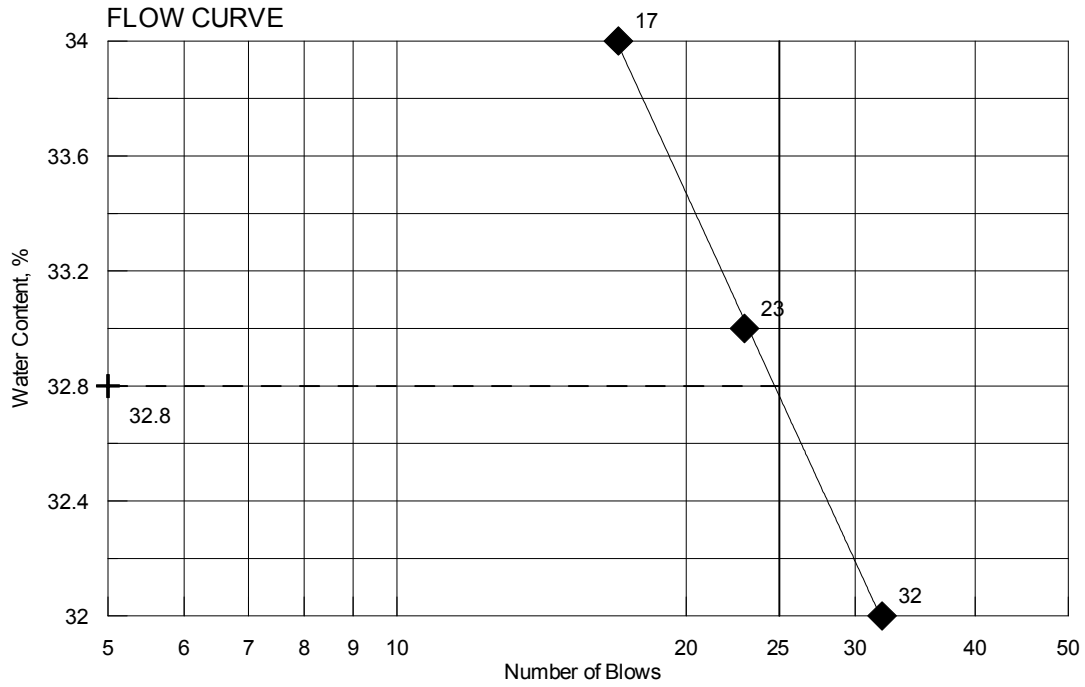
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/1/2010**

TOWN	Auburn	Reference No.	240147
PIN	016637.20	Water Content, %	37.7
Sampled	9/14/2010	Plastic Limit	20
Boring No./Sample No.	HB-AUB-303/6D	Liquid Limit	33
Station		Plasticity Index	13
Depth	28.0-30.0	Tested By	BBURR







# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240149</b>	<b>HB-AUB-303/7D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/14/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>33.0-35.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>30</b>	
<u>Plastic Limit (T 90), %</u>	
<b>18</b>	
<u>Plasticity Index (T 90), %</u>	
<b>12</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b>2.65</b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>33.8</b>	

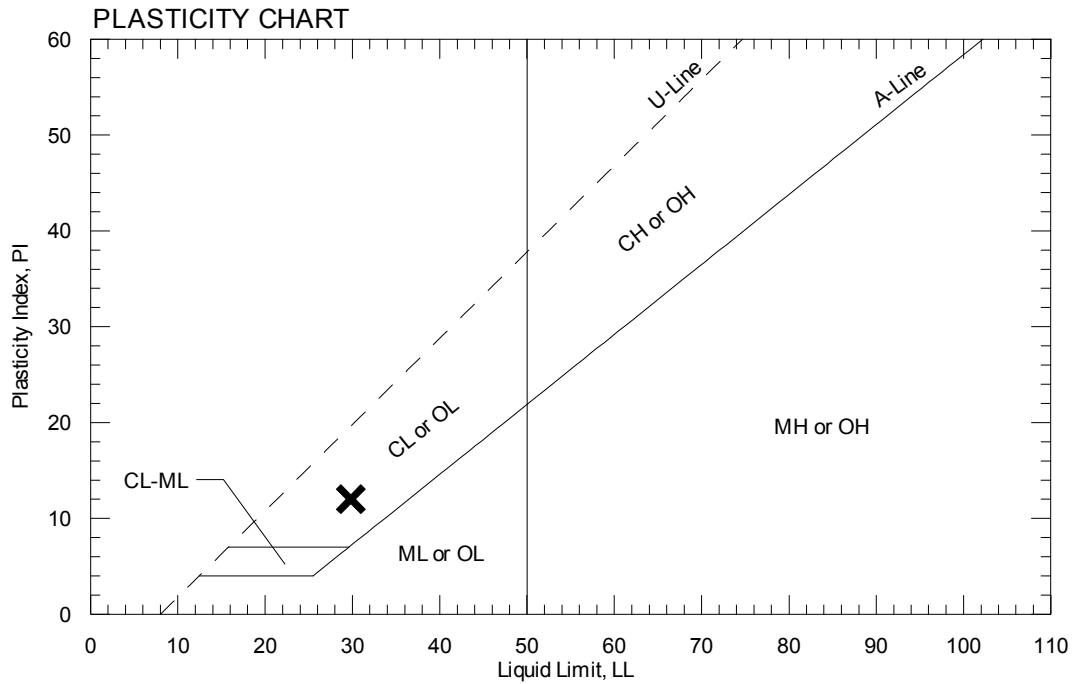
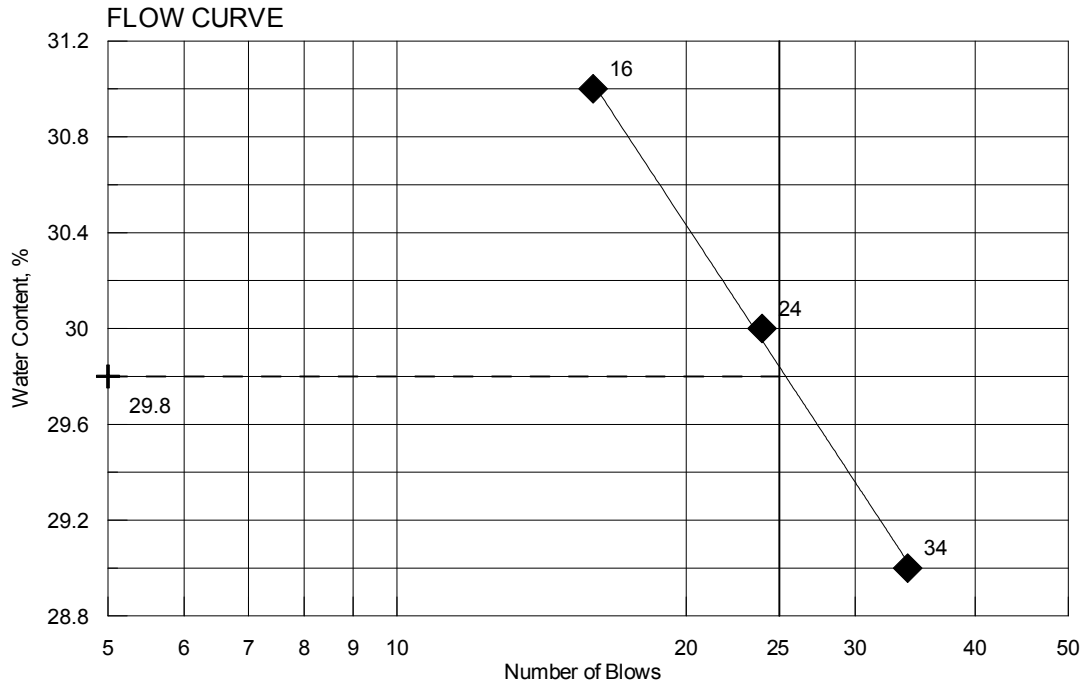
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/1/2010**

TOWN	Auburn	Reference No.	240149
PIN	016637.20	Water Content, %	33.8
Sampled	9/14/2010	Plastic Limit	18
Boring No./Sample No.	HB-AUB-303/7D	Liquid Limit	30
Station		Plasticity Index	12
Depth	33.0-35.0	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240144</b>	<b>HB-AUB-303/9D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/14/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>43.0-45.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27, T 11)	
Wash Method	
Procedure A	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	<b>100.0</b>
No. 20 [0.850 mm]	<b>99.9</b>
No. 40 [0.425 mm]	<b>99.8</b>
No. 60 [0.250 mm]	<b>99.7</b>
No. 100 [0.150 mm]	<b>99.0</b>
No. 200 [0.075 mm]	<b>82.8</b>

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
<b>NP</b>	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition (T 267)	
Loss, %	H2O, %
Water Content (T 265), %	
<b>22.4</b>	

Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/1/2010**



# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240135</b>	<b>HB-AUB-304/11D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/17/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>61.0-62.5</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

<b>Sieve Analysis (T 27, T 11)</b> Wash Method <b>Procedure A</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">SIEVE SIZE U.S. [SI]</th> <th style="width: 30%;">% Passing</th> </tr> </thead> <tbody> <tr><td>3 in. [75.0 mm]</td><td></td></tr> <tr><td>1 in. [25.0 mm]</td><td></td></tr> <tr><td>¾ in. [19.0 mm]</td><td></td></tr> <tr><td>½ in. [12.5 mm]</td><td></td></tr> <tr><td>⅜ in. [9.5 mm]</td><td style="text-align: center;"><b>100.0</b></td></tr> <tr><td>¼ in. [6.3 mm]</td><td style="text-align: center;"><b>99.9</b></td></tr> <tr><td>No. 4 [4.75 mm]</td><td style="text-align: center;"><b>99.7</b></td></tr> <tr><td>No. 10 [2.00 mm]</td><td style="text-align: center;"><b>97.3</b></td></tr> <tr><td>No. 20 [0.850 mm]</td><td style="text-align: center;"><b>88.1</b></td></tr> <tr><td>No. 40 [0.425 mm]</td><td style="text-align: center;"><b>62.0</b></td></tr> <tr><td>No. 60 [0.250 mm]</td><td style="text-align: center;"><b>29.8</b></td></tr> <tr><td>No. 100 [0.150 mm]</td><td style="text-align: center;"><b>9.5</b></td></tr> <tr><td>No. 200 [0.075 mm]</td><td style="text-align: center;"><b>2.8</b></td></tr> </tbody> </table>	SIEVE SIZE U.S. [SI]	% Passing	3 in. [75.0 mm]		1 in. [25.0 mm]		¾ in. [19.0 mm]		½ in. [12.5 mm]		⅜ in. [9.5 mm]	<b>100.0</b>	¼ in. [6.3 mm]	<b>99.9</b>	No. 4 [4.75 mm]	<b>99.7</b>	No. 10 [2.00 mm]	<b>97.3</b>	No. 20 [0.850 mm]	<b>88.1</b>	No. 40 [0.425 mm]	<b>62.0</b>	No. 60 [0.250 mm]	<b>29.8</b>	No. 100 [0.150 mm]	<b>9.5</b>	No. 200 [0.075 mm]	<b>2.8</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Direct Shear (T 236)</th> </tr> </thead> <tbody> <tr><td>Shear Angle, °</td><td></td><td></td><td></td></tr> <tr><td>Initial Water Content, %</td><td></td><td></td><td></td></tr> <tr><td>Normal Stress, psi</td><td></td><td></td><td></td></tr> <tr><td>Wet Density, lbs/ft³</td><td></td><td></td><td></td></tr> <tr><td>Dry Density, lbs/ft³</td><td></td><td></td><td></td></tr> <tr><td>Specimen Thickness, in</td><td></td><td></td><td></td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" style="text-align: center;">Consolidation (T 216)</th> </tr> </thead> <tbody> <tr> <td colspan="6" style="text-align: center;">Trimmings, Water Content, %</td> </tr> <tr> <td></td> <td style="text-align: center;">Initial</td> <td style="text-align: center;">Final</td> <td></td> <td style="text-align: center;">Void Ratio</td> <td style="text-align: center;">% Strain</td> </tr> <tr> <td>Water Content, %</td> <td></td> <td></td> <td>Pmin</td> <td></td> <td></td> </tr> <tr> <td>Dry Density, lbs/ft³</td> <td></td> <td></td> <td>Pp</td> <td></td> <td></td> </tr> <tr> <td>Void Ratio</td> <td></td> <td></td> <td>Pmax</td> <td></td> <td></td> </tr> <tr> <td>Saturation, %</td> <td></td> <td></td> <td>Cc/C'c</td> <td></td> <td></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Vane Shear Test on Shelby Tubes (Maine DOT)</th> </tr> <tr> <th rowspan="3" style="text-align: center;">Depth taken in tube, ft</th> <th colspan="2" style="text-align: center;">3 In.</th> <th colspan="2" style="text-align: center;">6 In.</th> <th rowspan="3" style="text-align: center;">Water Content, %</th> <th rowspan="3" style="text-align: center;">Description of Material Sampled at the Various Tube Depths</th> </tr> <tr> <th style="text-align: center;">U. Shear</th> <th style="text-align: center;">Remold</th> <th style="text-align: center;">U. Shear</th> <th style="text-align: center;">Remold</th> </tr> <tr> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> </tr> </thead> <tbody> <tr> <td style="height: 100px;"></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Direct Shear (T 236)				Shear Angle, °				Initial Water Content, %				Normal Stress, psi				Wet Density, lbs/ft³				Dry Density, lbs/ft³				Specimen Thickness, in				Consolidation (T 216)						Trimmings, Water Content, %							Initial	Final		Void Ratio	% Strain	Water Content, %			Pmin			Dry Density, lbs/ft³			Pp			Void Ratio			Pmax			Saturation, %			Cc/C'c			Vane Shear Test on Shelby Tubes (Maine DOT)							Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths	U. Shear	Remold	U. Shear	Remold	tons/ft²	tons/ft²	tons/ft²	tons/ft²								<b>Miscellaneous Tests</b> Liquid Limit @ 25 blows (T 89), %  Plastic Limit (T 90), %  Plasticity Index (T 90), %  Specific Gravity, Corrected to 20°C (T 100)  Loss on Ignition (T 267) Loss, %      H2O, %  Water Content (T 265), % <p style="text-align: center;"><b>20.5</b></p>
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Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN**      Date Reported: **9/27/2010**



# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240133</b>	<b>HB-AUB-304/2D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/16/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>6.0-8.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>35</b>	
<u>Plastic Limit (T 90), %</u>	
<b>27</b>	
<u>Plasticity Index (T 90), %</u>	
<b>8</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b></b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<b></b>	<b></b>
<u>Water Content (T 265), %</u>	
<b>27.9</b>	

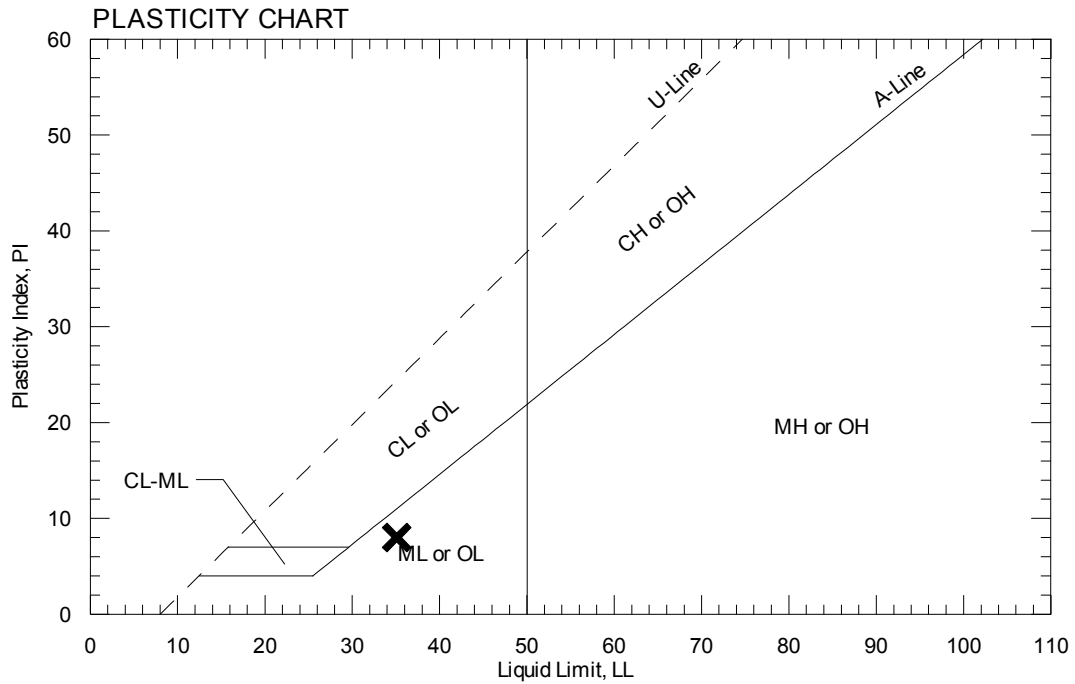
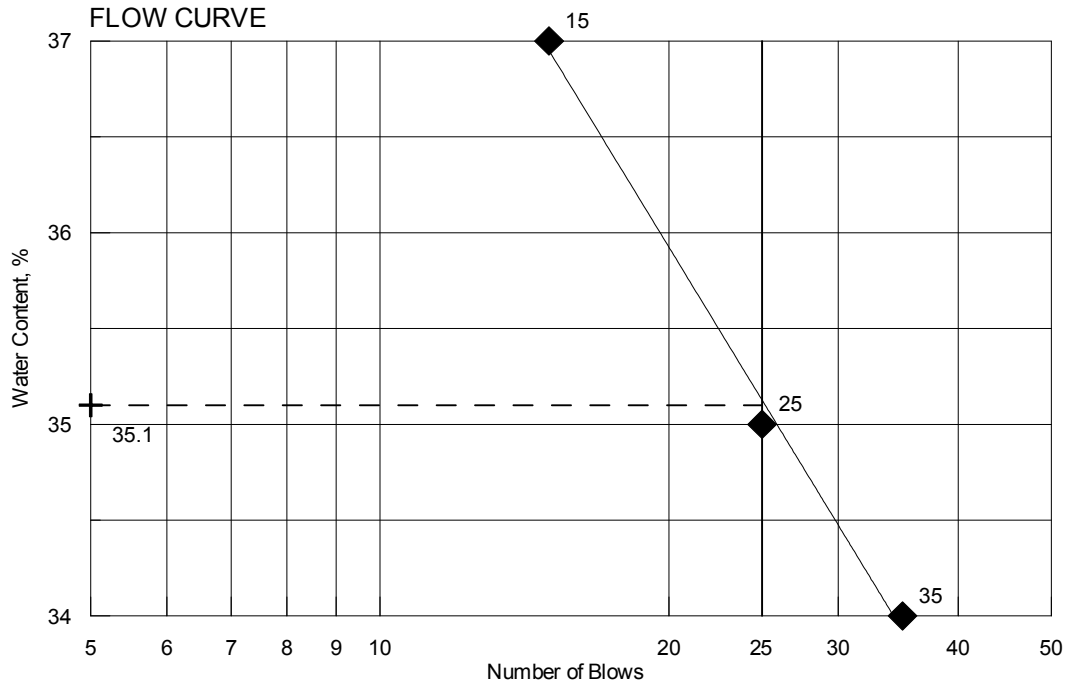
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/30/2010**

TOWN	Auburn	Reference No.	240133
PIN	016637.20	Water Content, %	27.9
Sampled	9/16/2010	Plastic Limit	27
Boring No./Sample No.	HB-AUB-304/2D	Liquid Limit	35
Station		Plasticity Index	8
Depth	6.0-8.0	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240134</b>	<b>HB-AUB-304/3D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/16/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>11.0-13.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
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No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimblings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>39</b>	
<u>Plastic Limit (T 90), %</u>	
<b>21</b>	
<u>Plasticity Index (T 90), %</u>	
<b>18</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b>2.65</b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>28.3</b>	

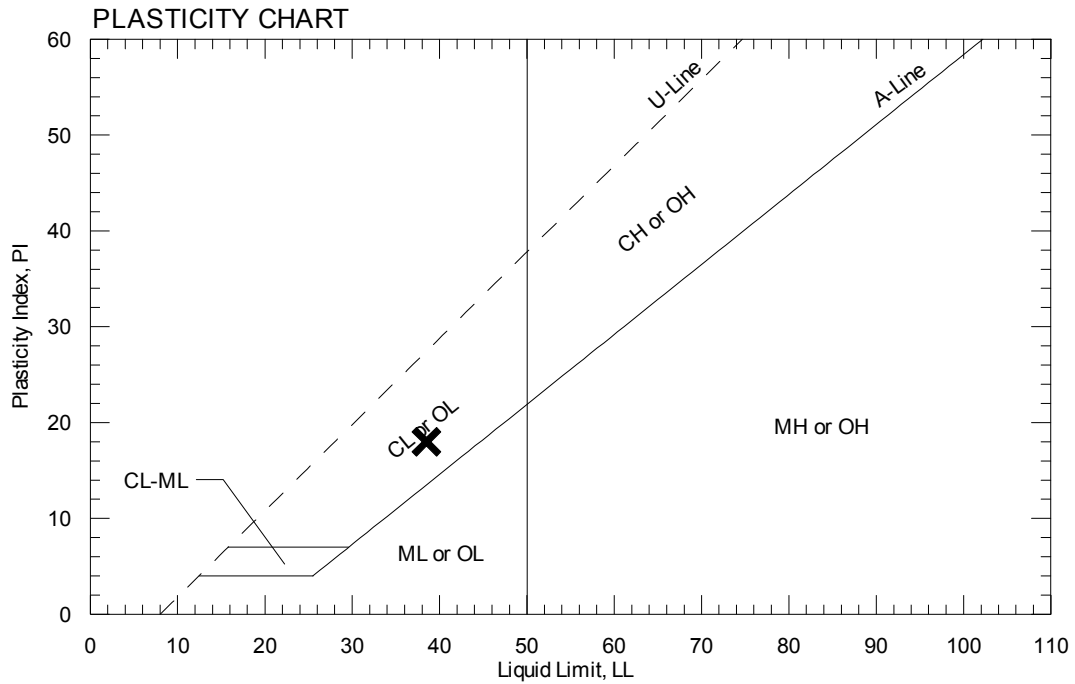
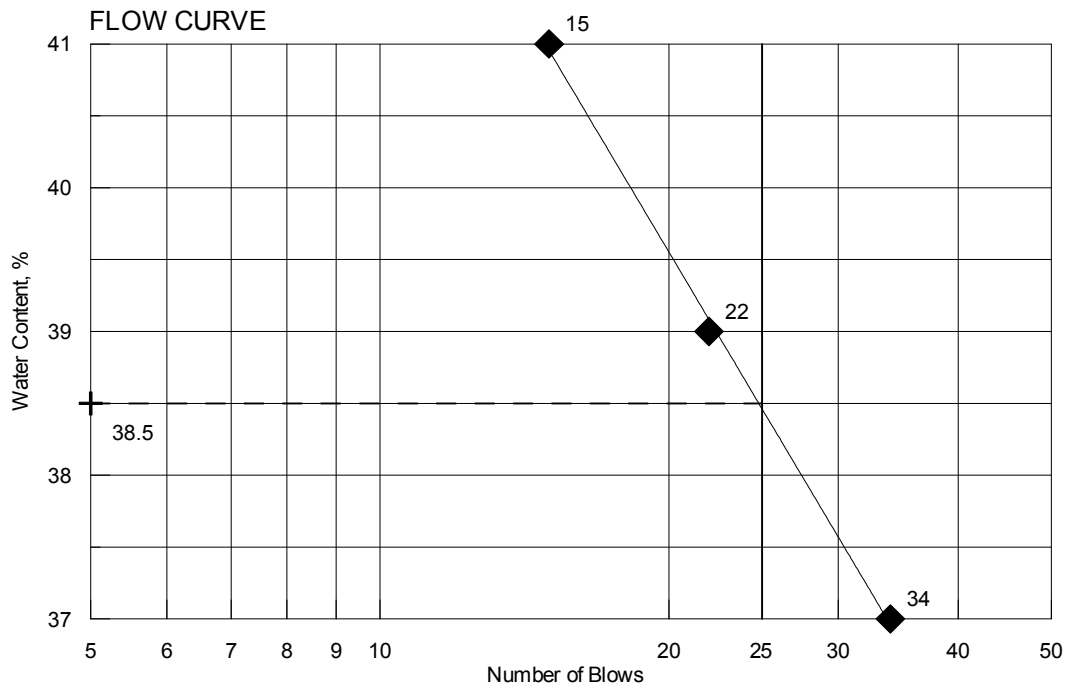
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **9/30/2010**

TOWN	Auburn	Reference No.	240134
PIN	016637.20	Water Content, %	28.3
Sampled	9/16/2010	Plastic Limit	21
Boring No./Sample No.	HB-AUB-304/3D	Liquid Limit	39
Station		Plasticity Index	18
Depth	11.0-13.0	Tested By	BBURR







# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240150</b>	<b>HB-AUB-304/5D</b>	<b>GEOTECHNICAL (DISTURBED)</b>	<b>9/16/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>21.0-23.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27)	
Wash Method	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	
No. 10 [2.00 mm]	
No. 20 [0.850 mm]	
No. 40 [0.425 mm]	
No. 60 [0.250 mm]	
No. 100 [0.150 mm]	
No. 200 [0.075 mm]	

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimming, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
<u>Liquid Limit @ 25 blows (T 89), %</u>	
<b>28</b>	
<u>Plastic Limit (T 90), %</u>	
<b>18</b>	
<u>Plasticity Index (T 90), %</u>	
<b>10</b>	
<u>Specific Gravity, Corrected to 20°C (T 100)</u>	
<b>2.65</b>	
<u>Loss on Ignition (T 267)</u>	
<u>Loss, %</u>	<u>H2O, %</u>
<u>Water Content (T 265), %</u>	
<b>28.5</b>	

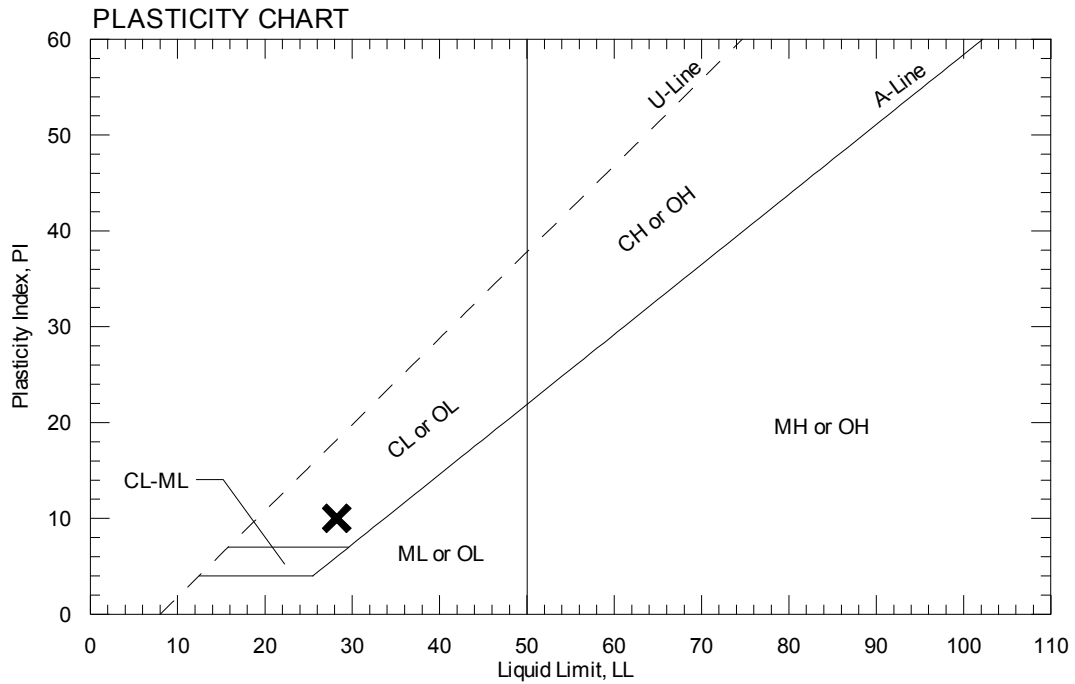
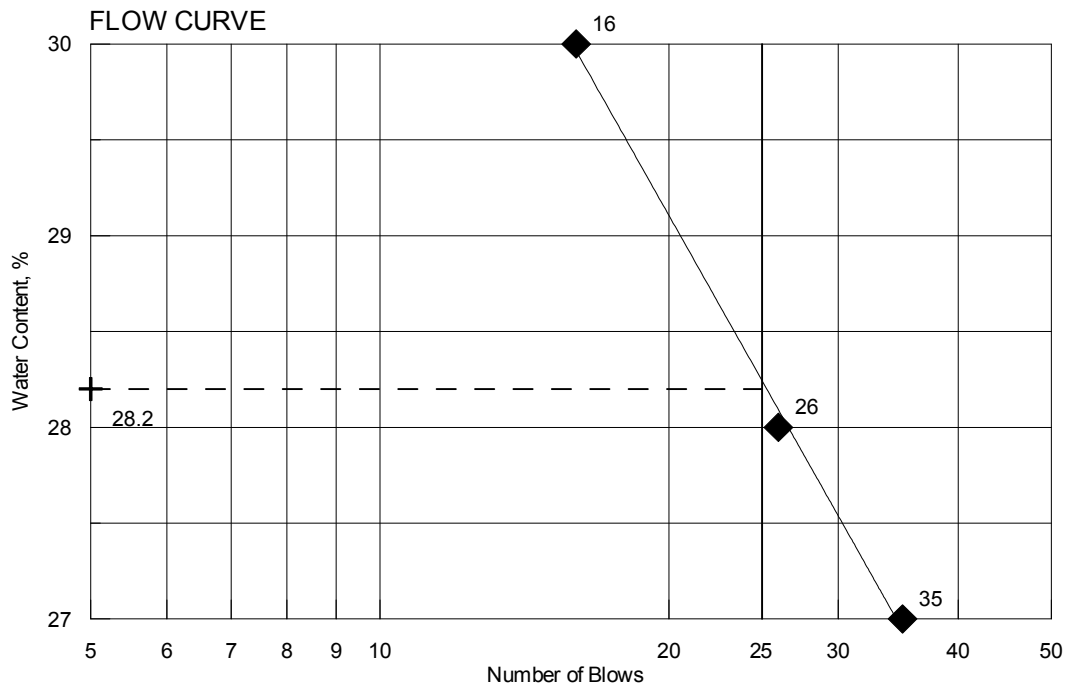
Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/5/2010**

TOWN	Auburn	Reference No.	240150
PIN	016637.20	Water Content, %	28.5
Sampled	9/16/2010	Plastic Limit	18
Boring No./Sample No.	HB-AUB-304/5D	Liquid Limit	28
Station		Plasticity Index	10
Depth	21.0-23.0	Tested By	BBURR





# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240136</b>	<b>HB-AUB-304/6D</b>	<u><b>GEOTECHNICAL (DISTURBED)</b></u>	<b>9/16/2010</b>	<b>9/20/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>26.0-28.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

Sieve Analysis (T 27, T 11)	
Wash Method	
Procedure A	
SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	<b>100.0</b>
No. 10 [2.00 mm]	<b>100.0</b>
No. 20 [0.850 mm]	<b>99.8</b>
No. 40 [0.425 mm]	<b>99.7</b>
No. 60 [0.250 mm]	<b>99.6</b>
No. 100 [0.150 mm]	<b>94.1</b>
No. 200 [0.075 mm]	<b>58.8</b>

Direct Shear (T 236)			
Shear Angle, °			
Initial Water Content, %			
Normal Stress, psi			
Wet Density, lbs/ft³			
Dry Density, lbs/ft³			
Specimen Thickness, in			

Consolidation (T 216)					
Trimblings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Miscellaneous Tests	
Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
<b>NP</b>	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition (T 267)	
Loss, %	H2O, %
Water Content (T 265), %	
<b>25.2</b>	

Vane Shear Test on Shelby Tubes (Maine DOT)						
Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN** Date Reported: **10/1/2010**



# GEOTECHNICAL TEST REPORT

## Central Laboratory

### SAMPLE INFORMATION

Reference No.	Boring No./Sample No.	Sample Description	Sampled	Received
<b>240185</b>	<b>HB-AUB-305/7D</b>	<b><u>GEOTECHNICAL (DISTURBED)</u></b>	<b>9/20/2010</b>	<b>9/24/2010</b>
Sample Type: <b>GEOTECHNICAL</b>	Location: <b>OTHER</b>	Station:	Offset, ft:	Dbfg, ft: <b>33.0-35.0</b>
PIN: <b>016637.20</b> Town: <b>Auburn</b>		Sampler: <b>WILDER, BRUCE H</b>		

### TEST RESULTS

<b>Sieve Analysis (T 27, T 11)</b> Wash Method <b>Procedure A</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">SIEVE SIZE U.S. [SI]</th> <th style="width: 30%;">% Passing</th> </tr> </thead> <tbody> <tr><td>3 in. [75.0 mm]</td><td></td></tr> <tr><td>1 in. [25.0 mm]</td><td></td></tr> <tr><td>¾ in. [19.0 mm]</td><td></td></tr> <tr><td>½ in. [12.5 mm]</td><td></td></tr> <tr><td>⅜ in. [9.5 mm]</td><td></td></tr> <tr><td>¼ in. [6.3 mm]</td><td></td></tr> <tr><td>No. 4 [4.75 mm]</td><td></td></tr> <tr><td>No. 10 [2.00 mm]</td><td style="text-align: center;"><b>100.0</b></td></tr> <tr><td>No. 20 [0.850 mm]</td><td style="text-align: center;"><b>100.0</b></td></tr> <tr><td>No. 40 [0.425 mm]</td><td style="text-align: center;"><b>99.8</b></td></tr> <tr><td>No. 60 [0.250 mm]</td><td style="text-align: center;"><b>97.0</b></td></tr> <tr><td>No. 100 [0.150 mm]</td><td style="text-align: center;"><b>67.3</b></td></tr> <tr><td>No. 200 [0.075 mm]</td><td style="text-align: center;"><b>9.3</b></td></tr> </tbody> </table>	SIEVE SIZE U.S. [SI]	% Passing	3 in. [75.0 mm]		1 in. [25.0 mm]		¾ in. [19.0 mm]		½ in. [12.5 mm]		⅜ in. [9.5 mm]		¼ in. [6.3 mm]		No. 4 [4.75 mm]		No. 10 [2.00 mm]	<b>100.0</b>	No. 20 [0.850 mm]	<b>100.0</b>	No. 40 [0.425 mm]	<b>99.8</b>	No. 60 [0.250 mm]	<b>97.0</b>	No. 100 [0.150 mm]	<b>67.3</b>	No. 200 [0.075 mm]	<b>9.3</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Direct Shear (T 236)</th> </tr> </thead> <tbody> <tr><td>Shear Angle, °</td><td></td><td></td><td></td></tr> <tr><td>Initial Water Content, %</td><td></td><td></td><td></td></tr> <tr><td>Normal Stress, psi</td><td></td><td></td><td></td></tr> <tr><td>Wet Density, lbs/ft³</td><td></td><td></td><td></td></tr> <tr><td>Dry Density, lbs/ft³</td><td></td><td></td><td></td></tr> <tr><td>Specimen Thickness, in</td><td></td><td></td><td></td></tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6" style="text-align: center;">Consolidation (T 216)</th> </tr> </thead> <tbody> <tr> <td colspan="6" style="text-align: center;">Trimblings, Water Content, %</td> </tr> <tr> <td></td> <td style="text-align: center;">Initial</td> <td style="text-align: center;">Final</td> <td></td> <td style="text-align: center;">Void Ratio</td> <td style="text-align: center;">% Strain</td> </tr> <tr> <td>Water Content, %</td> <td></td> <td></td> <td style="text-align: center;">Pmin</td> <td></td> <td></td> </tr> <tr> <td>Dry Density, lbs/ft³</td> <td></td> <td></td> <td style="text-align: center;">Pp</td> <td></td> <td></td> </tr> <tr> <td>Void Ratio</td> <td></td> <td></td> <td style="text-align: center;">Pmax</td> <td></td> <td></td> </tr> <tr> <td>Saturation, %</td> <td></td> <td></td> <td style="text-align: center;">Cc/C'c</td> <td></td> <td></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7" style="text-align: center;">Vane Shear Test on Shelby Tubes (Maine DOT)</th> </tr> <tr> <th rowspan="3" style="text-align: center;">Depth taken in tube, ft</th> <th colspan="2" style="text-align: center;">3 In.</th> <th colspan="2" style="text-align: center;">6 In.</th> <th rowspan="3" style="text-align: center;">Water Content, %</th> <th rowspan="3" style="text-align: center;">Description of Material Sampled at the Various Tube Depths</th> </tr> <tr> <th style="text-align: center;">U. Shear</th> <th style="text-align: center;">Remold</th> <th style="text-align: center;">U. Shear</th> <th style="text-align: center;">Remold</th> </tr> <tr> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> <th style="text-align: center;">tons/ft²</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	Direct Shear (T 236)				Shear Angle, °				Initial Water Content, %				Normal Stress, psi				Wet Density, lbs/ft³				Dry Density, lbs/ft³				Specimen Thickness, in				Consolidation (T 216)						Trimblings, Water Content, %							Initial	Final		Void Ratio	% Strain	Water Content, %			Pmin			Dry Density, lbs/ft³			Pp			Void Ratio			Pmax			Saturation, %			Cc/C'c			Vane Shear Test on Shelby Tubes (Maine DOT)							Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths	U. Shear	Remold	U. Shear	Remold	tons/ft²	tons/ft²	tons/ft²	tons/ft²								<b>Miscellaneous Tests</b> Liquid Limit @ 25 blows (T 89), %  Plastic Limit (T 90), %  Plasticity Index (T 90), %  Specific Gravity, Corrected to 20°C (T 100)  Loss on Ignition (T 267) Loss, %      H2O, %  Water Content (T 265), % <p style="text-align: center;"><b>25.2</b></p>
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Comments:

### AUTHORIZATION AND DISTRIBUTION

Reported by: **FOGG, BRIAN**      Date Reported: **10/4/2010**