

LOG OF BORING

Project: Bolivar DMPA No. 36

Boring No.: PA 36-5

Groundwater during drilling: ---

Groundwater after drilling: ---

Date: 11/18/2009

Northing: 13,760,400.4

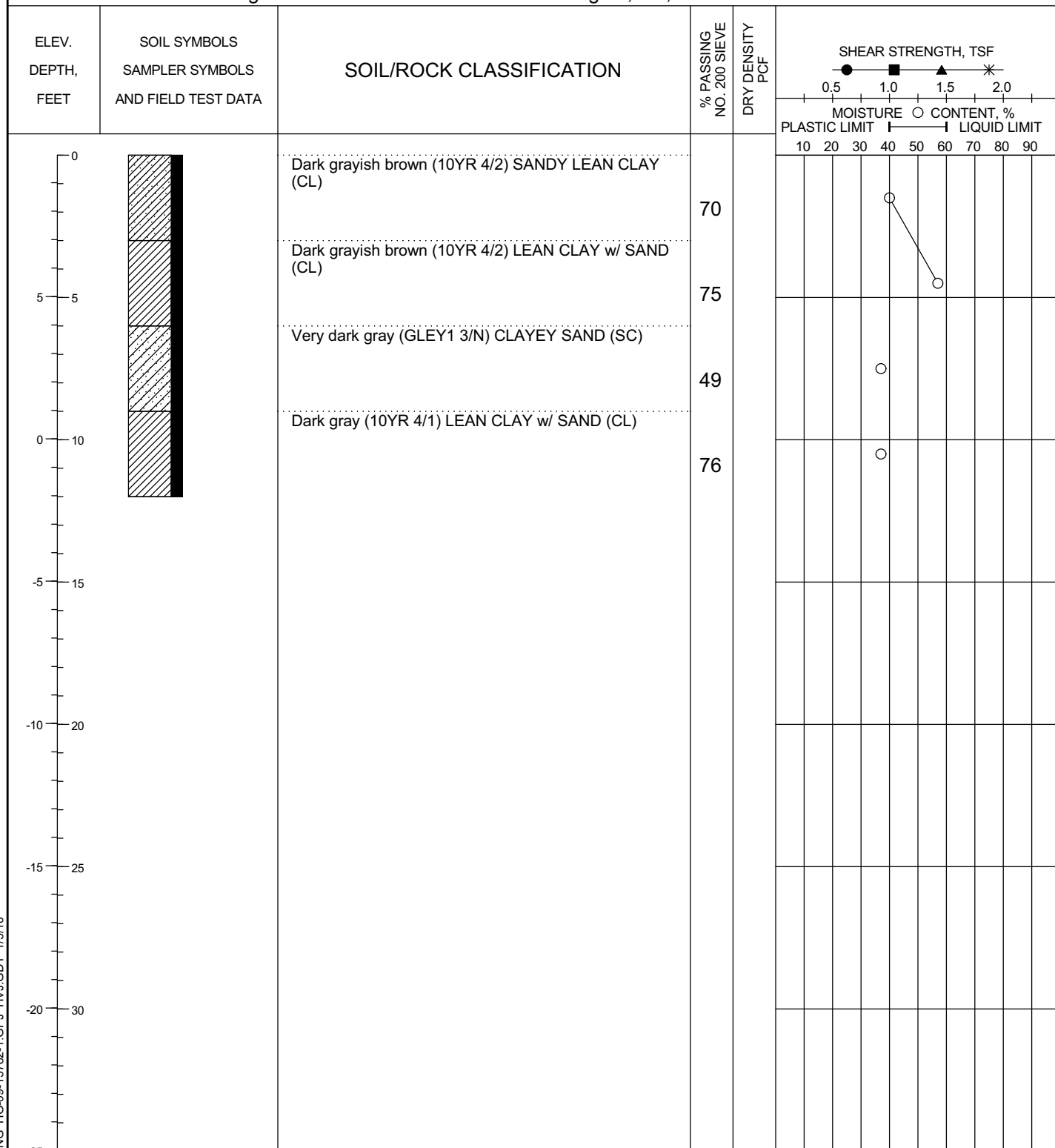
Easting: 3,388,817.8

Project No.: HG0915782

Elevation: 9.97 feet

Station: --

Offset: --



Shear Types:

● = Hand Penet.

■ = Torvane

▲ = Unconf. Comp.

* = UU Triaxial

PLATE A-5

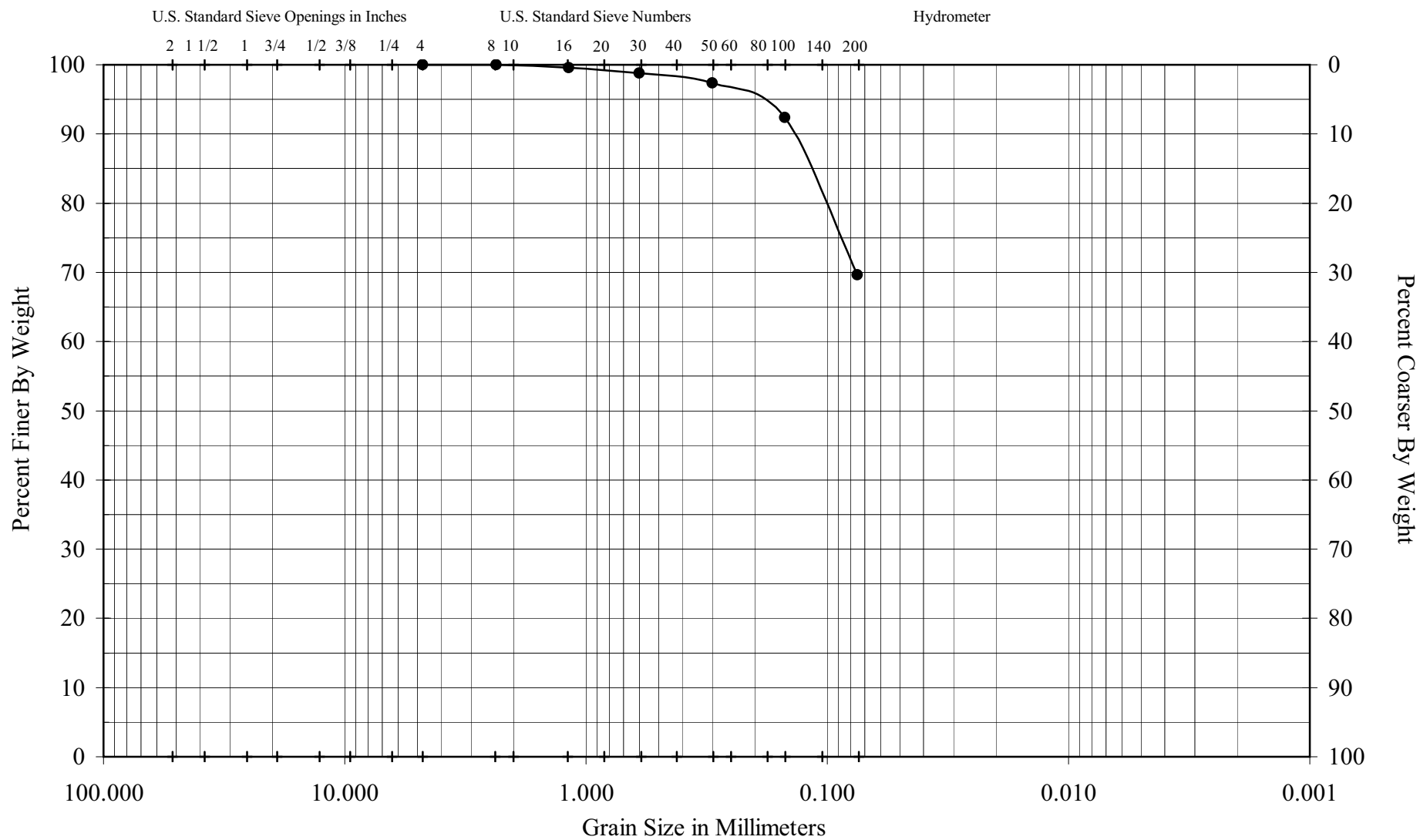
SIEVE ANALYSIS DATA

Project: Bolivar DMPA No. 36 Job No. HG09-15782 Date: December 10, 2009
Boring No. PA 36-5 Sample No. 1 Depth: 0'-3'
Matl Desc. Dark Grayish Brown Sandy Clay

Tare No.	53	Init Wt. - Tare	66.80	% Ret.	30.34
Tare Wt.	6.61	Dry Wt. after test	20.27	% Pass #200	69.66
Init. Dry Wt.	73.41	Wt. Ret. on #200	20.27		

Sieve Size/No.	Sieve Size (mm)	Weight Ret.	% Retained	% Passing
4	4.750	0.00	0.00	100.00
8	2.360	0.00	0.00	100.00
16	1.180	0.27	0.40	99.60
30	0.600	0.81	1.21	98.79
50	0.300	1.77	2.65	97.35
100	0.150	5.10	7.63	92.37
200	0.075	20.27	30.34	69.66

Tested by: LL Computed by: NL Check by: SV
Date: 12/9/09 Date: Date:



Boring No.
PA-36-5

Depth, Ft.
0'-3'

Classification
Dark Grayish Brown Sandy Clay

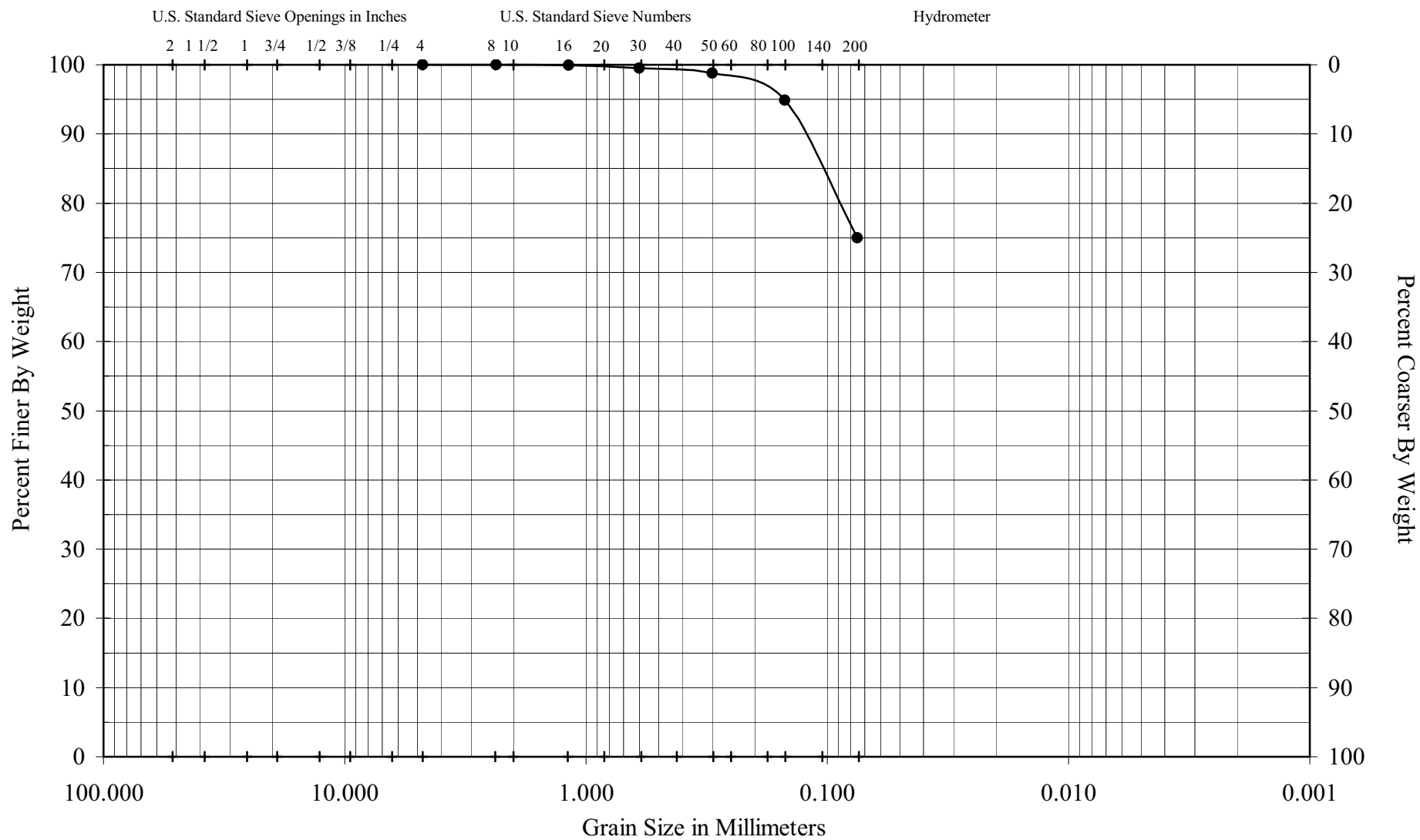
SIEVE ANALYSIS DATA

Project: Bolivar DMPA No. 36 Job No. HG09-15782 Date: December 10, 2009
Boring No. PA 36-5 Sample No. 2 Depth: 3'-6'
Matl Desc. Dark Grayish Brown Lean Clay w/ Sand

Tare No.	56	Init Wt. - Tare	66.90	% Ret.	25.04
Tare Wt.	6.61	Dry Wt. after test	16.75	% Pass #200	74.96
Init. Dry Wt.	73.51	Wt. Ret. on #200	16.75		

Sieve Size/No.	Sieve Size (mm)	Weight Ret.	% Retained	% Passing
4	4.750	0.00	0.00	100.00
8	2.360	0.00	0.00	100.00
16	1.180	0.07	0.10	99.90
30	0.600	0.31	0.46	99.54
50	0.300	0.80	1.20	98.80
100	0.150	3.43	5.13	94.87
200	0.075	16.75	25.04	74.96

Tested by: LL Computed by: NL Check by: SV
Date: 12/9/09 Date: Date:



Boring No.
PA-36-5

Depth, Ft.
3'-6'

Classification
Dark Grayish Brown Lean Clay with
Sand

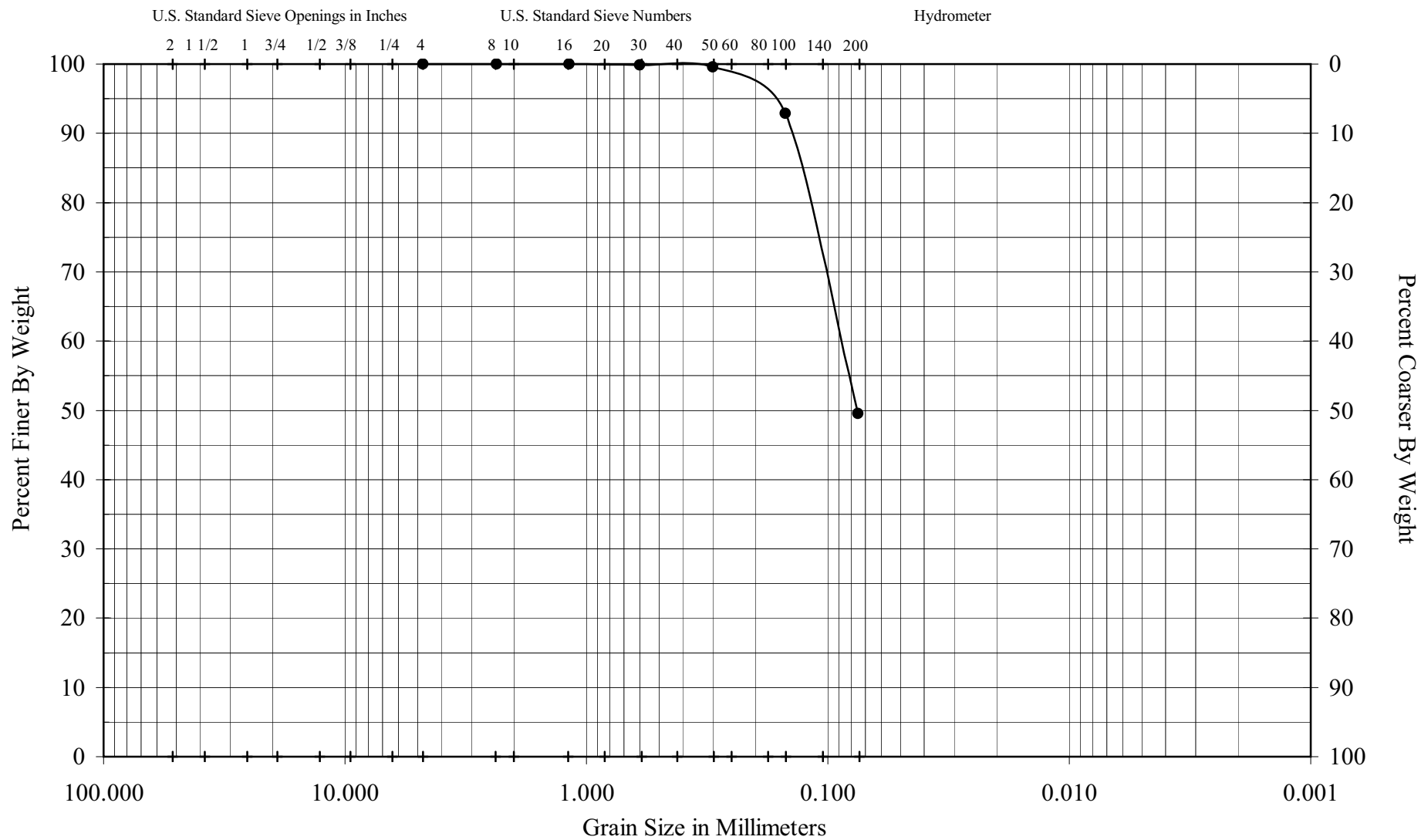
SIEVE ANALYSIS DATA

Project: Bolivar DMPA No. 36 Job No. HG09-15782 Date: December 10, 2009
Boring No. PA 36-5 Sample No. 3 Depth: 6'-9'
Matl Desc. Very Dark Gray Clayey Sand

Tare No.	73	Init Wt. - Tare	167.33	% Ret.	50.49
Tare Wt.	6.55	Dry Wt. after test	84.48	% Pass #200	49.51
Init. Dry Wt.	173.88	Wt. Ret. on #200	84.48		

Sieve Size/No.	Sieve Size (mm)	Weight Ret.	% Retained	% Passing
4	4.750	0.00	0.00	100.00
8	2.360	0.02	0.01	99.99
16	1.180	0.01	0.01	99.99
30	0.600	0.29	0.17	99.83
50	0.300	0.74	0.44	99.56
100	0.150	11.93	7.13	92.87
200	0.075	84.48	50.49	49.51

Tested by: KK Computed by: NL Check by: SV
Date: 12/10/09 Date: Date:



Boring No.
PA-36-5

Depth, Ft.
6'-9'

Classification
Very Dark Gray Clayey Sand

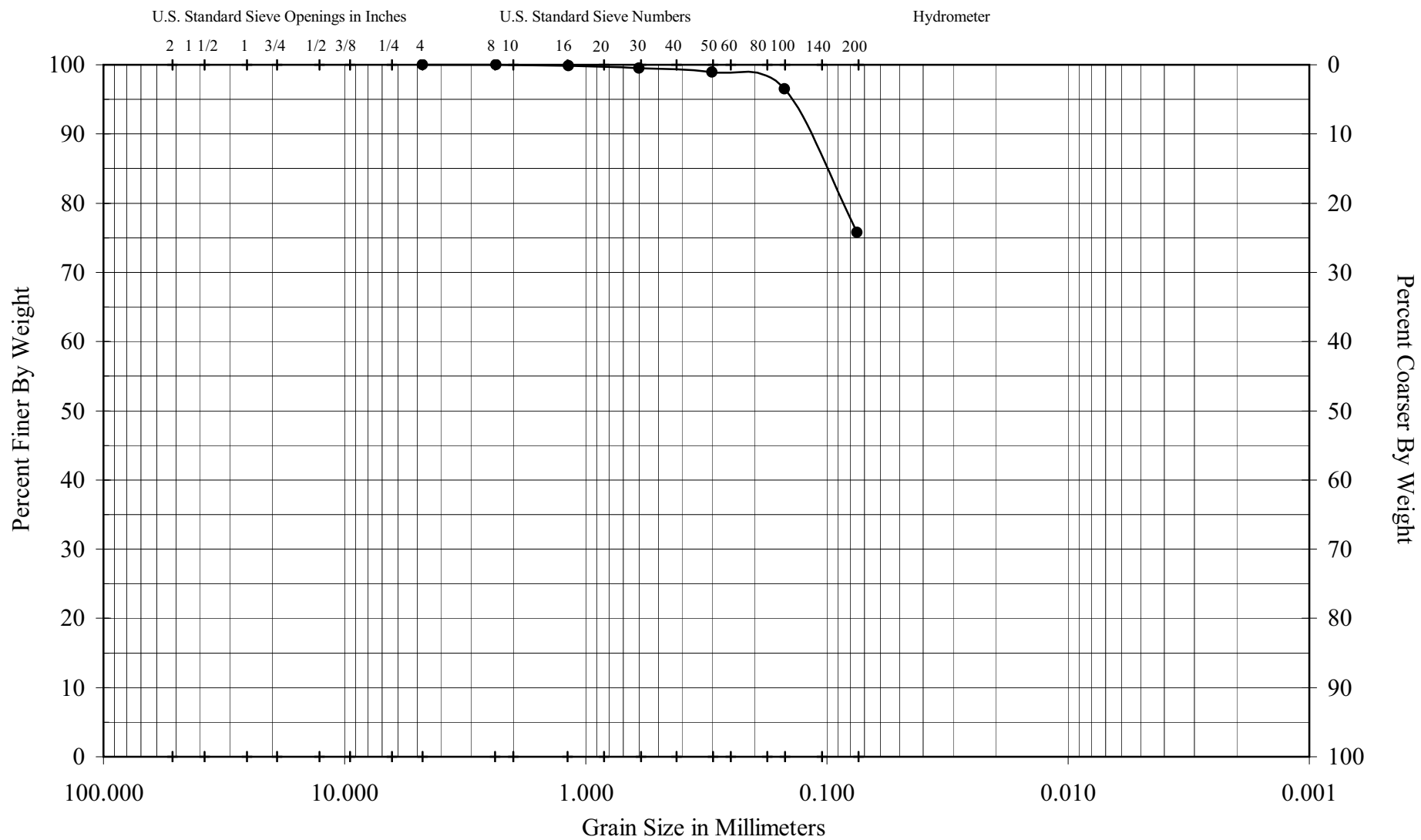
SIEVE ANALYSIS DATA

Project: Bolivar DMPA No. 36 Job No. HG09-15782 Date: December 10, 2009
Boring No. PA 36-5 Sample No. 4 Depth: 9'-12'
Matl Desc. Dark Gray Lean Clay w/ Sand

Tare No.	75	Init Wt. - Tare	89.05	% Ret.	24.20
Tare Wt.	6.59	Dry Wt. after test	21.55	% Pass #200	75.80
Init. Dry Wt.	95.64	Wt. Ret. on #200	21.55		

Sieve Size/No.	Sieve Size (mm)	Weight Ret.	% Retained	% Passing
4	4.750	0.00	0.00	100.00
8	2.360	0.03	0.03	99.97
16	1.180	0.10	0.11	99.89
30	0.600	0.42	0.47	99.53
50	0.300	0.95	1.07	98.93
100	0.150	3.14	3.53	96.47
200	0.075	21.55	24.20	75.80

Tested by: KK Computed by: NL Check by: SV
Date: 12/10/09 Date: Date:



Boring No.
PA-36-5

Depth, Ft.
9'-12'

Classification
Dark Gray Lean Clay with Sand

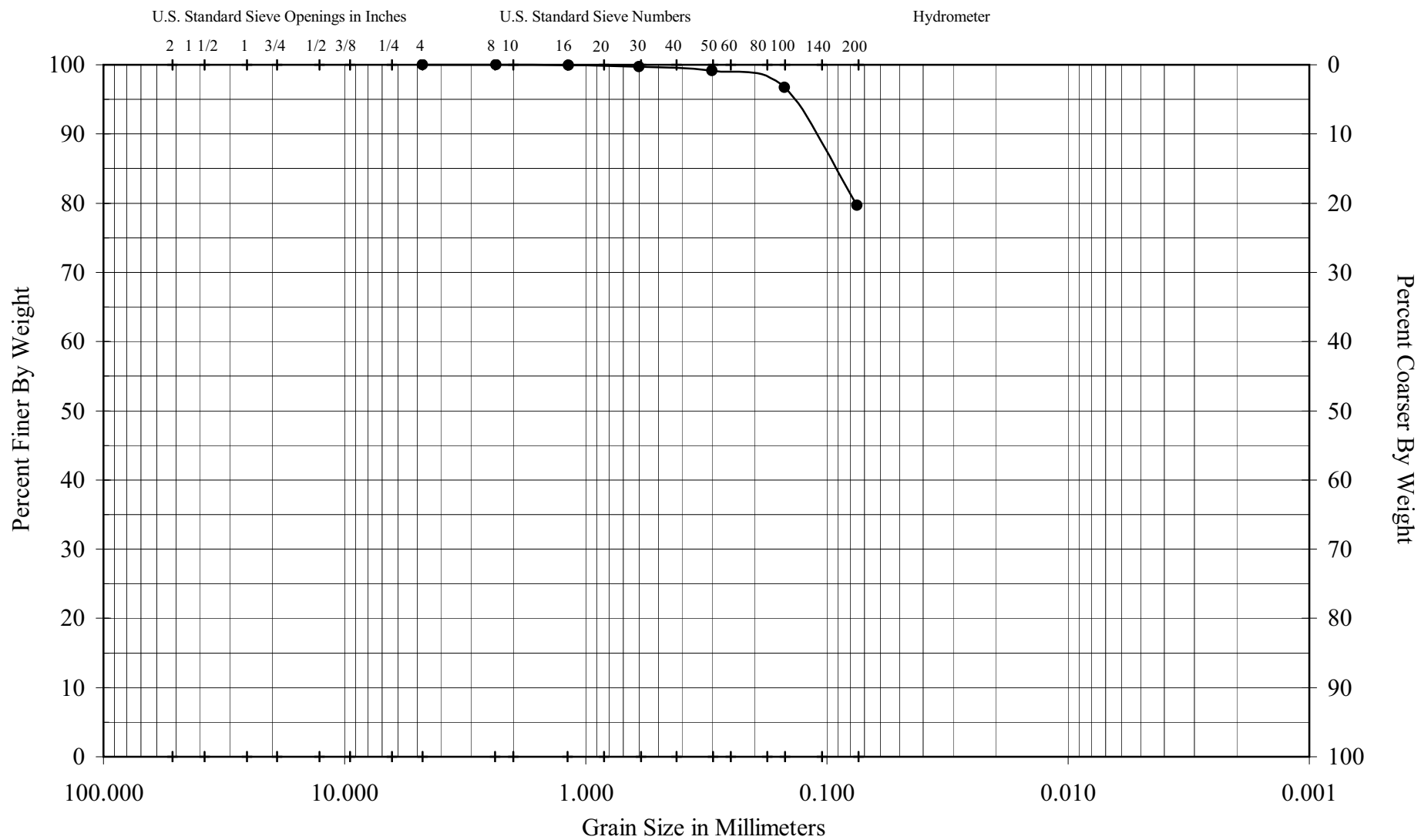
SIEVE ANALYSIS DATA

Project: Bolivar DMPA No. 36 Job No. HG09-15782 Date: December 10, 2009
Boring No. PA 36-6 Sample No. 1 Depth: 0'-3'
Matl Desc. Dark Gray Lean Clay w/ Sand

Tare No.	57	Init Wt. - Tare	77.46	% Ret.	20.33
Tare Wt.	6.57	Dry Wt. after test	15.75	% Pass #200	79.67
Init. Dry Wt.	84.03	Wt. Ret. on #200	15.75		

Sieve Size/No.	Sieve Size (mm)	Weight Ret.	% Retained	% Passing
4	4.750	0.00	0.00	100.00
8	2.360	0.00	0.00	100.00
16	1.180	0.03	0.04	99.96
30	0.600	0.20	0.26	99.74
50	0.300	0.66	0.85	99.15
100	0.150	2.54	3.28	96.72
200	0.075	15.75	20.33	79.67

Tested by: LL Computed by: NL Check by: SV
Date: 12/9/09 Date: Date:



Boring No.
PA-36-6

Depth, Ft.
0'-3'

Classification
Dark Gray Lean Clay with Sand