



MWH Americas, Inc.
335 Phoenixville Pike
Malvern, Pennsylvania 19355

Boring ID: SB6

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ECLB-107

Project Name: Valero
Location: Delaware City, DE
Project Number:
Date Started: 5/31/2007
Date Finished: 5/31/2007
Drilling Method: Geoprobe
Sampling Method:
State Permit Number: NA

Boring Location: Delaware City Refinery
Drilling Company: BL Myers (J. Long)
Ground Elevation (ft/msl):
Total Depth (ft): 55.0'
Boring Diameter (in): "
Water Level During Drilling (ft/bgs):
Weather Conditions:
Logged By: A. Clark

Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
0			0			SW-SM ML		0' - 0.4' Brown fine-medium-grained SAND and SILT, little coarse-grained sand, roots and grass, dry	
1						CL SW-SM		0.4' - 1' Yellowish brown (10YR 5/6) SILT and fine-grained SAND, little fine-grained angular to subrounded gravel and medium-coarse-grained sand, dry	
2		34.8				CL CL		1' - 1.3' Reddish brown (5Y 4/4) CLAY, dry 1.3' - 2' Yellowish brown fine-grained SAND, some silt (decreasing silt with depth), little fine-grained angular to subrounded gravel and medium-coarse-grained sand, trace coarse-grained subrounded, dry	
3								2' - 2.15' Brown (5YR 4/3) silty CLAY 2.1' fine-grained sand seam	
4								2.15' - 2.29' Brown to dark gray (10YR 2/1) CLAY, medium-coarse-grained sand lenses 2.29' - 5' No Lithology	
5			0			ML		5' - 6.8' Brown and very dark grayish brown (10YR 3/2) clayey SILT with fine-grained SAND, slightly micaceous, trace rootlets, trace medium-coarse-grained sand, moist	
6								6' interbedded with dark greenish gray micaceous silty clay, and dark reddish brown peat layers, moist	
7		45.6				CL PT ML SP-SM SP-SM		6.8' - 7' Very dark gray silty CLAY, trace rootlets, slightly micaceous, moist	Sampled SB6(7-7.2) for CH analyses 6/27/07
8								7.2' - 7.4' Brown and very dark grayish brown (10YR 3/2) clayey SILT with fine-grained SAND, slightly micaceous, trace rootlets, trace medium-coarse-grained sand, interbedded with dark greenish gray micaceous silty clay, and dark reddish brown peat layer, moist	
9								7.4' - 7.6' Greenish gray to olive brown fine-grained sandy SILT, trace clay, various shades of green	
10			0			SP-SM		7.6' - 7.9' Dark yellowish brown (10YR 4/6) very fine-grained SAND and SILT, micaceous	
11						SP-SM		7.9' - 8.8' Light olive brown (2.5Y 5/4) grading to yellowish brown (10YR 5/6) very fine-grained SAND and SILT	
12		34.8						8.8' - 10' No Lithology	
13								10' - 10.6' Brown very fine-grained SAND, some silt, very moist, trace mica, light gray clay laminations 10.6' - 12.9' Dark yellowish brown (10YR 4/6) very fine-grained SAND and SILT, trace mica 12.8' - 12.9' bgs brown very fine-grained sand, little silt	
14								12.9' - 15' No Lithology	
15									

Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
15			0			SP-SM		15' - 17.2' Dark yellowish brown, brown and grayish brown very fine-grained SAND and SILT, wet	
16								16.5' dark yellowish brown	
17		43.2				ML		17.2' - 17.3' Dark yellowish brown and brown clayey SILT	
18						SP-SM		17.3' - 17.5' Very dark gray silty CLAY, micaceous, soft	
19						ML		17.5' - 17.7' Olive gray very fine-grained SAND and SILT, micaceous	
20			0					17.7' - 27.8' Very dark gray very fine-grained sandy SILT, micaceous	
21								20' wet 20'-20.7' bgs moist 20.7'-22.2' bgs	
22		26.4							
23									
24									
25			0						
26									
27		33.6						27.4' bgs clayey silt to silty clay	
28								27.8' - 30' No Lithology	
29									
30			0			ML		30' - 37.4' Very dark gray SILT, trace clay and grayish brown silt lenses, very micaceous,	
31									
32		33.6							
33									



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33									
34									
35			0					35' little clay, increasing with depth, no silt lenses, trace light gray silt lenses, stiff	
36									
37		28.8							
38								37.4' - 40' No Lithology	
39									
40			0			CL		40' - 52.1' Very dark gray silty CLAY, trace light gray silty laminations, micaceous, stiff	
41									
42		36							
43									
44									
45			0					45' 0.1' micaceous silt, light gray to dark gray bands at 46.9'-47' bgs	
46									
47		33.6							
48									
49									
50			0						
51									



Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	USCS	Lithology	Lithologic Description	Remarks
52		25.2							
53								52.1' - 55' No Lithology	
54									
55								55' End of Boring	
56									
57									
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