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NAVSTA ROOSEVELT ROADS CONFIRMATION STUDY SOIL BORING FIELD OBSERVATIONS AT SITE 12 TOW WAY ROAD FUELS FARM NAVAL ACTIVITY PUERTO RICO

3/6/1988

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Table 3-17. NAVSTA Roosevelt Roads Confirmation Study, Soil Boring Field Observations at Site 12, Tow Way Road Fuels Farm (Page 1 of 7)

Soil Boring Number	Total Depth of Soil Boring (Ft BLS)	Depth of Vertical Contamination (Ft BLS)	Comments
1	20	0 - 10	0-6 ft. petroleum odor 4-6 ft. black dried petroleum at fractures 8-10 ft. black dried petroleum at fractures, no petroleum odor
2	14	0 - 14	4-10 ft. black dried petroleum at fractures, petroleum odor
3	20	6 - 20	4-6 ft. petroleum odor 6-8 ft. petroleum odor, black dried petroleum at fractures 8-12 ft. petroleum odor 12-20 ft. black dried petroleum at fractures
4	7	2 - 8	2-6 ft. petroleum odor
5	16	4 - 16	4-8 ft. black dried petroleum specks throughout, no apparent petroleum odor 8-10 ft. petroleum odor 10-16 ft. black dried petroleum at fractures
6	8	2 - 8	2-8 ft. petroleum odor
7	8	4 - 6	4-6 ft. petroleum odor
8	4	None	Clean
9	16	0 - 16	0-2 ft. possible black dried petroleum at fractures, no petroleum odor 2-4 ft. black dried petroleum specks throughout, petroleum odor 4-12 ft. petroleum odor 12-16 ft. black dried petroleum specks throughout, petroleum odor
10	8	None	Clean
11	17	4 - 16	4-6 ft. petroleum odor 6-14 ft. petroleum saturation, petroleum sheen 14-16 ft. petroleum odor
12	7	None	Clean

Table 3-17. NAVSTA Roosevelt Roads Confirmation Study, Soil Boring Field Observations at Site 12, Tow Way Road Fuels Farm (Page 2 of 7)

Soil Boring Number	Total Depth of Soil Boring (Ft BLS)	Depth of Vertical Contamination (Ft BLS)	Comments
13	20	2 - 20	2-4 ft. black dried petroleum at fractures, no petroleum odor 8-12 ft. black dried petroleum of fractures, no petroleum odor 14-16 ft. black dried petroleum at fractures, strong petroleum odor at fractures 18-20 ft. black dried petroleum specks, no petroleum odor
14	10	0 - 10	0-2 ft. petroleum odor 2-4 ft. black dried petroleum fractures, petroleum odor 4-6 ft. petroleum odor 6-8 ft. no petroleum odor 8-10 ft. black greasy petroleum on rock fragments, no petroleum odor
15	14	0 - 14	0-4 ft. petroleum odor 6-10 ft. black dried petroleum at fractures, petroleum odor 10-14 ft. black dried petroleum at fractures, no petroleum odor
16	18	0 - 18	0-4 ft. petroleum odor 4-18 ft. black dried petroleum at fractures, petroleum odor
17	12	0 - 8	0-2 ft. pesticide odor 2-4 ft. black dried petroleum at fractures, petroleum odor 6-8 ft. slight petroleum odor
18	12	2 - 6	2-6 ft. petroleum odor
19	10	4 - 8	4-6 ft. saturated with petroleum, petroleum odor 6-8 ft. black dried petroleum at fractures, no petroleum odor
20	14	None	Clean
21	6	2 - 4	2-4 ft. petroleum odor

Table 3-17. NAVSTA Roosevelt Roads Confirmation Study, Soil Boring Field Observations at Site 12, Tow Way Road Fuels Farm (Page 3 of 7)

Soil Boring Number	Total Depth of Soil Boring (Ft BLS)	Depth of Vertical Contamination (Ft BLS)	Comments
22	8	4 - 6	4-6 ft. soil discoloration, petroleum odor
23	4	None	Clean. Hit electric line at 4 ft. BLS. Hole abandoned
24	14	12 - 14	12-14 ft. sulfur odor
25	20	8 - 14	8-14 ft. free product, petroleum odor
26	20	0 - 20	0-4 ft. petroleum odor 18-20 ft. black dried petroleum staining at fractures, no petroleum odor
27	20	6 - 10	0-6 ft. strong petroleum odor
28	16	0 - 16	0-5 ft. petroleum odor 5-12 ft. no petroleum odor to possible petroleum odor 12-16 ft. black dried petroleum staining at fractures
29	20	6 - 18	6-10 ft. petroleum odor 16-18 ft. black dried petroleum staining at fractures
30	20	4 - 20	4-12 ft. petroleum odor 14-16 ft. no apparent petroleum odor 18-20 ft. no apparent petroleum odor
31	26	8 - 20	8-10 ft. no petroleum odor 10-20 ft. visible free product, petroleum odor
32	20	8 - 16	8-16 ft. visible free product, petrolem odor
33	20	4 - 16	4-6 ft. visible free product, petroleum odor
34	20	8 - 14	8-14 ft. turpentine-like odor

Table 3-17. NAVSTA Roosevelt Roads Confirmation Study, Soil Boring Field Observations at Site 12, Tow Way Road Fuels Farm (Page 4 of 7)

Soil Boring Number	Total Depth of Soil Boring (Ft BLS)	Depth of Vertical Contamination (Ft BLS)	Comments
35	22	8 - 18	8-10 ft. petroleum discoloration, petroleum odor 10-12 ft. petroleum sheen, petroleum odor 12-18 ft. slight petroleum odor
36	18	4 - 8	4-6 ft. petroleum discoloration, petroleum odor 6-8 ft. slight petroleum odor
37	18	8 - 12	8-10 ft. black discoloration, petroleum odor 10-12 ft. petroleum odor.
38	20	18 - 20	18-20 ft. sulfur odor
39	12	6 - 10	6-10 ft. petroleum odor
40	18	4 - 10	4-10 ft. petroleum odor
41	20	0 - 20	0-18 ft. petroleum odor 18-20 ft. no apprent petroleum odor, but high PID
42	13	0 - 13	0-2 ft. petroleum odor 2-6 ft. petroleum odor discoloration 6-8 ft. petroleum 10-12 ft. petroleum odor and discoloration
43	20	4 - 14	4-14 ft. non-visual contamination, no petroleum staining
44	14	0 - 14	8-10 ft. organic odor 10-12 ft. possible slight petroleum odor near bottom sample sulfur odor
45	24	6 - 10	6-10 ft. petroluem odor
46	24	4 - 16	4-6 ft. petroleum odor 6-12 ft. free product 14-16 ft. free product on outside of spoon, petroleum odor

-17. NAVSTA Roosevelt Roads Confirmation Study, Soil Boring Field Observations at Site 12, Tow Way Road Fuels Farm (Page 5 of 7)

Soil Boring Number	Total Depth of Soil Boring (Ft BLS)	Depth of Vertical Contamination (Ft BLS)	Comments
47	18	6 - 12	6-12 ft. petroleum odor
48a	8	0 - 8	0-8 ft. non-visual contamiantion, no petroleum odor
48b	2	0 - 2	0-2 ft. non-visual contamination, no petroleum odor
48c	24	8 - 20	8-10 ft. free product strong petroleum odor 10-14 ft. petroleum film throughout samples, strong petroleum odor 14-18 ft. petroleum film on spoon
49	20	2 - 16	2-4 ft. petroleum odor 4-16 ft. free product in samples
50	20	0 - 6	0-6 ft. non-visual contamination, no petroleum odor
51	16	None	Clean
52	18	12 - 16	12-14 ft. strong sulfur odor
53	20	6 - 10	6-10 ft. petroleum odor 6-8 ft. approximate water table
54	20	None	Clean
55	20	16 - 20	16-20 ft. strong sulfur odor
56	20	2 - 20	2-4 ft. non-visual contamination 6-10 ft. petroleum odor 10-14 ft. petroleum odor, visible petroleum staining at fractures 14-16 ft. petroleum odor 18-20 ft. black streaks, possible petroleum staining

Table 3-17. NAVSTA Roosevelt Roads Confirmation Study, Soil Boring Field Observations at Site 12, Tow Way Road Fuels Farm (Page 7 of 7)

Soil Boring Number	Total Depth of Soil Boring (Ft BLS)	Depth of Vertical Contamination (Ft BLS)	Comments
67	20	12 - 14	12-14 ft. non-visual contamination, no petroleum odor
68	20	8 - 20	6-8 ft. approximate water level 8-10 ft. non-visual contaminant, no petroleum odor 18-20 ft non-visual contamination, no petroleum odor
69	20	12 - 14	12-14 ft. non visual contamination, no petroleum odor
70	20	14 - 20	14-16 ft. approximate water level 14-16 ft. non-visual contamination, no petroleum odor 16-18 ft. possible petroleum odor 18-20 ft. non-visual contamination, no apprarent petroleum odor
71	20	0 - 4	0-4 ft. non-visual contamination, no petroleum odor
72	20	12 - 20	12-20 ft. sulfur odor 8-10 ft. approximate water table
73A	20	14 - 16	14-16 ft. possible petroleum odor, non-visual contamination
74	20	2 - 4	2-4 ft. black dry petroleum staining
75	20	None	Clean
76	14	None	Clean
77	26	8 - 26	8-10 ft. non-visual contamination 14-16 ft. non-visual contamination 16-18 ft. possible petroleum odor 18-26 ft. strong petroleum odor

Source: ESE, 1988