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NSA CRANE
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EMAIL REGARDING U S NAVY RESPONSES TO U S EPA REGION V COMMENTS ON THE DRAFT FINAL INTERIM MEASURES REPORT FOR SOLID WASTE MANAGEMENT UNIT 17 (SWMU 17) PCB CAPACITOR BURIAL POLE YARD NSA CRANE IN
2/22/2016
NAVFAC MID ATLANTIC

Cohen, Deborah

From: Brent, Thomas CIV NAVFAC MIDLANT, PWD Crane <thomas.brent@navy.mil>
Sent: Monday, February 22, 2016 9:17 AM
To: ramanauskas.peter@epamail.epa.gov
Cc: Cole, Linda L CIV NAVFAC MIDLANT, IPTNORTH; Johnston, Tom
Subject: FW: NSAC: IMR_SWMU17_Draft Final
Attachments: Rev'd Table 4-1_Ph 2_Samples Collected Analyzed.xlsx; 4-5.pdf; Rev'd Table 3-1 _Excavation Node Coordinates.xlsx
Signed By: thomas.brent@navy.mil

Pete,

Please see the responses to your comments from 2/18/16 on the April 2015 SWMU 17 IMR. Let us know if you have any further questions or comments,

Thanks,
Tom

-----Original Message-----
From: Johnston, Tom [mailto:Tom.Johnston@tetratech.com]
Sent: Tuesday, February 16, 2016 2:55 PM
To: Cole, Linda L CIV NAVFAC MIDLANT, IPTNORTH
Cc: Cohen, Deborah; Goerdt, James
Subject: [Non-DoD Source] RE: NSAC: IMR_SWMU17_Draft Final

Hello, Linda,

Responses to EPA's comments regarding the subject draft final interim Measures Report (IMR) for SWMU 17 are presented below.

EPA Comment #1:
What was the filter size used on the surface water samples referenced on page 4-12 of the report?

Navy Response #1:
The filter size actually, filter pore size) used to filter PCB surface water samples was 0.45 microns. Text has been added to IMR page 4-12, last paragraph, sentence 4 to document this filter pore size.

EPA Comment #2:
Referring to Table 4-1, can you better identify which sample results are delineation vs. confirmation samples as well as flagging which still remain in place at the site? There are also a few spelling errors in the table (e.g. on page 4, "souht" and in footnote 2).

Navy Response #2:
On IMR Table 4-1 additional detail has been added to indicate which samples were confirmation samples, which samples were delineation samples, and which samples represent post-IM conditions. Spelling errors in Table 4-1 also have been corrected. A revised Table 4-1 is attached.

EPA Comment #3:
Figure 4-5 contains a spelling error for sample 17SB247: "Rufusal".

Navy Response #3:
The referenced spelling error on IMR Figure 4-5 has been corrected and a revised Figure 4-5 is attached. In addition, the IM report has been double checked for typographical errors and, if found, typos were corrected. One error ("Corresponding" was misspelled) was found in the header of Table 3-1, second to right-most column; otherwise no other errors were found. A revised Table 3-1 is attached.

Additional Proposed Changes:
In addition to the above changes, the Navy has determined that an unapproved Interim Measures Work Plan (IMWP) is referenced in the IMR. Specifically, Tetra Tech, 2007a was never approved and is overtaken by events. There is a single citation of this reference in the IMR. Accordingly, the Navy proposes to delete that reference citation. Such a revision would require the following changes to the IMR:
1. Deletion of "(Tetra Tech, 2007a)" in IMR Section 2.3.3 (page 2-4, paragraph 1, end of sentence 1).
2. Changing the citation of "Tetra Tech, 2007b" to "Tetra Tech, 2007" on page 1-4, Bullet 2 because there would be a single 2007 reference citation instead of two 2007 citations.
3. Inserting the following new second sentence into paragraph 1 of page 2-4: "This plan was not approved."
4. Deletion of "However" from the beginning of what would become sentence three of page 2-4, paragraph 1.
5. Deletion of "Tetra Tech 2007a" from the References section (Section 6.0).
6. Changing "Tetra Tech, 2007b" to "Tetra Tech, 2007" in Section 6.0.

Please let me know if these comments are accepted by EPA or if you need anything additional information. If these comments are accepted, Tetra Tech will gladly prepare the final IMR to reflect the changes indicated above.

Thank you,

Tom Johnston | Project Manager | NUS Operating Unit Corporate, and NAVFAC Atlantic Contracts, QA Manager
Direct: 412.921.8615 | Main:412.921.7090 | Personal Fax:412.921.4040, tom.johnston@tetratech.com

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-----Original Message-----
From: Cole, Linda L CIV NAVFAC MIDLANT, IPTNORTH [mailto:linda.cole@navy.mil]
Sent: Monday, February 08, 2016 10:30 AM
To: Johnston, Tom <Tom.Johnston@tetratech.com>
Cc: Cohen, Deborah <Deborah.Cohen@tetratech.com>
Subject: FW: NSAC: IMR_SWMU17_Draft Final

FYA.

V/r,

Linda

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-----Original Message-----
From: Ramanauskas, Peter [mailto:ramanauskas.peter@epa.gov]
Sent: Monday, February 08, 2016 10:22 AM
To: Cole, Linda L CIV NAVFAC MIDLANT, IPTNORTH
Cc: Brent, Thomas CIV NAVFAC MIDLANT, PWD Crane
Subject: [Non-DoD Source] RE: NSAC: IMR_SWMU17_Draft Final

Hello Linda,

Thanks for checking in on the SWMU 17 Draft Final IMR review. Yes, looks like we'll be doing more work out there still. I look forward to working with you on that.

As for the Draft Final IMR, the only minor comments I've got for you are:

1) What was the filter size used on the surface water samples referenced on page 4-12 of the report?

2) Referring to Table 4-1, can you better identify which sample results are delineation vs. confirmation samples as well as flagging which still remain in place at the site? There are also a few spelling errors in the table (e.g. on page 4, "souht" and in footnote 2).

3) Figure 4-5 contains a spelling error for sample 17SB247: "Rufusal".

Thanks,

Peter

From: Cole, Linda L CIV NAVFAC MIDLANT, IPTNORTH [mailto:linda.cole@navy.mil]
Sent: Monday, February 08, 2016 5:49 AM
To: Ramanauskas, Peter <ramanauskas.peter@epa.gov>
Cc: Brent, Thomas CIV NAVFAC MIDLANT, PWD Crane <thomas.brent@navy.mil>
Subject: Task Status Report: NSAC: IMR_SWMU17_Draft Final

Good morning, Peter. I hope all is well and that you are recovering nicely from the Super Bowl mania! It wasn't the best game I've ever seen!!!

Hey, checking on the status of the IM Report for SWMU17 that was prepared by Tetra Tech on behalf of the EMAC's last IM. I'm not sure that there is too much that is controversial about the report documenting what was done in the field.

I'd appreciate an update on your review status. Thanks!

FYSA.we'll be trying to get back out-in-the-field soon (March/April) to do some pre-removal soil characterization in the flood plain area and another IM (Phase 4 at my least count) in May. So I'd like to get this IMR finalized before we start the next IM phase.

V/r,

Linda

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-----Original Task-----
Subject: NSAC: IMR_SWMU17_Draft Final
Priority: Normal

Start date: Wed 4/22/2015
Due date: Tue 6/23/2015

Status: Not Started
% Complete: 0%
Actual work: 0 hours

Requested by: Cole, Linda L CIV NAVFAC MIDLANT, IPTNE

Draft Final Submitted to USEPA on 4/22/2015 (LLC 5/1/2015)

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Draft Final submitted to NSA Crane RCRA CA Mgr on 4/8/2015.

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Comments submitted 1/29/2015. (LLC 1/29/2015)

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Document received 12/12/2014. Comments were due 1/16/2015. Requested comment extension to 1/29/2015. (LLC 1/15/2015)

TABLE 3-1

EXCAVATION NODE COORDINATES, INTERIM MEASURES PHASE 1 and PHASE 2 (1)
INTERIM MEASURES REPORT FOR SWMU 17 - PCB CAPACITOR BURIAL / POLE YARD
NAVAL SUPPORT ACTIVITY CRANE,
CRANE INDIANA

Excavation Node	Excavation Phase	Northing (Verified)	Easting (Verified)	Elevation (Verified)	IMWP Excavation Area	IMWP Figure	IMR Figure	Sampling Point Corresponding to Excavation Node	Comments
1	2	1318121.06	3021459.31	644.00	3A-1	3-1, 3-3	3-3	17SB280	
1a	2	1318092.22	3021450.59	637.55	3A-1	3-1, 3-3	3-3	NA	
2	2	1318181.79	3021539.89	641.66	3A-1, 3A-2	3-1, 3-3	3-3	NA	
2a	2	1318153.48	3021548.53	637.73	Boggs Cr., Segment 1	3-1, 3-3	3-3	17SW/SD128	
3	2	1318220.42	3021589.50	640.65	3A-2	3-1, 3-3	3-3	17SB458	
4	2	1318234.31	3021612.75	639.83	3A-2	3-1, 3-3	3-3	NA	
5	2	1318088.86	3021482.58	636.07	3B	3-1, 3-3	3-3	NA	
6	2	1318097.66	3021564.96	638.14	3B	3-1, 3-3	3-3	17SB257	
7	2	1318101.16	3021525.53	637.70	3B	3-1, 3-3	3-3	17SB256	
8	2	1318104.34	3021514.08	636.38	3B	3-1, 3-3	3-3	NA	
9	2	1318130.44	3021600.79	638.85	3B	3-1, 3-3	3-3	17SB123	
10	2	1318165.34	3021608.57	639.19	3B	3-1, 3-3	3-3	17SB307	
11	2	1318200.16	3021658.39	640.07	3B	3-1, 3-3	3-3	17SB128	
12	2	1318225.71	3021683.54	641.19	3B	3-1, 3-3	3-3	17SB130	
13	2	1318232.07	3021687.91	641.23	3B	3-1, 3-3	3-3	NA	
14	2	1318251.11	3021654.48	638.57	3B	3-1, 3-3	3-3	NA	
15	2	1318244.40	3021780.77	645.65	3E-1	3-1, 3-3	3-3	17SB283	
15a	2	1318248.11	3021830.97	645.99	3E-1	3-1, 3-3	3-3	17SB009	
16	2	1318245.83	3021877.81	647.83	3E-1	3-1, 3-3	3-3	17SB093	
17	2	1318230.14	3021907.53	647.52	3E-1	3-1, 3-3	3-3	17SB147	
17a	2	1318205.43	3021923.98	649.33	3E-1	3-1, 3-3	3-3	17SB096	
18	2	1318190.71	3021913.26	647.46	3E-1	3-1, 3-3	3-3	NA	
19	2	1318228.06	3021771.44	647.74	3E-1	3-1, 3-3	3-3	NA	
20	2	1318228.58	3021764.25	649.89	3E-1	3-1, 3-3	3-3	17SB282	
21	2	1318183.86	3021745.32	650.34	3E-1	3-1, 3-3	3-3	NA	
22	2	1318183.13	3021757.16	646.33	3E-1	3-1, 3-3	3-3	NA	
23	2	1318187.69	3021774.09	645.76	3E-1	3-1, 3-3	3-3	NA	
24	2	1318155.66	3021787.24	651.91	3E-1	3-1, 3-3	3-3	NA	
25	2	1318149.41	3021794.27	652.38	3E-1	3-1, 3-3	3-3	NA	
26	2	1318193.81	3021796.88	648.05	3E-1	3-1, 3-3	3-3	NA	
27	2	1318193.81	3021807.42	650.78	3E-1	3-1, 3-3	3-3	NA	
28	2	1318206.44	3021807.42	645.96	3E-1	3-1, 3-3	3-3	NA	
29	2	1318193.03	3021820.19	650.68	3E-1	3-1, 3-3	3-3	NA	
30	2	1318175.19	3021857.29	649.56	3E-1	3-1, 3-3	3-3	NA	
31	2	1318168.66	3021899.02	649.07	3E-1	3-1, 3-3	3-3	17SB140	
32	2	1318164.25	3021943.62	650.42	3E-1	3-1, 3-3	3-3	17SB141	
33	2	1318183.98	3021997.21	650.38	3E-1	3-1, 3-3	3-3	NA	
34	2	1318107.20	3022192.61	658.71	3F	3-1, 3-3	3-3	17SB259	
34a	2	1318121.38	3022170.88	NA	3F	NA	3-3	NA	Sample at this location was part of a virtual sidewall composite sample.
35	2	1318097.89	3022221.57	659.27	3F	3-1, 3-3	3-3	17SB288	
36	2	1318089.30	3022239.31	659.60	3F	3-1, 3-3	3-3	17SB289	
36a	2	1318082.10	3022279.50	NA	3F	NA	3-3	NA	Excavation node was added during Phase 2. Sample at this location was part of a virtual sidewall composite sample.
36b	2	1318090.18	3022297.24	NA	3F	NA	3-3	NA	Excavation node was added during Phase 2. Sample at this location was part of a virtual sidewall composite sample.
37	2	1318073.11	3022235.22	657.78	3F	3-1, 3-3	3-3	NA	Sample at this location was part of a virtual sidewall composite sample.
37b	2	1318070.62	3022295.67	NA	3F	NA	3-3	NA	Excavation node was added during Phase 2. Sample at this location was part of a virtual sidewall composite sample.
37a	2	1318065.39	3022277.00	NA	3F	NA	3-3	NA	Excavation node was added during Phase 2. Sample at this location was part of a virtual sidewall composite sample.
38	2	1318089.25	3022184.31	656.66	3F	3-1, 3-3	3-3	NA	Sample at this location was part of a virtual sidewall composite sample.
38a	2	1318105.11	3022162.53	NA	3F	NA	3-3	NA	Excavation node was added during Phase 2. Sample at this location was part of a virtual sidewall composite sample.
39	2	1318052.12	3022665.35	676.53	3F	3-4	3-2	NA	
40	2	1318032.82	3022693.29	682.28	3G	3-4	3-2	17SB290	

TABLE 3-1

EXCAVATION NODE COORDINATES, INTERIM MEASURES PHASE 1 and PHASE 2 (1)
INTERIM MEASURES REPORT FOR SWMU 17 - PCB CAPACITOR BURIAL / POLE YARD
NAVAL SUPPORT ACTIVITY CRANE,
CRANE INDIANA

Excavation Node	Excavation Phase	Northing (Verified)	Easting (Verified)	Elevation (Verified)	IMWP Excavation Area	IMWP Figure	IMR Figure	Sampling Point Corresponding to Excavation Node	Comments
41	2	1318075.19	3022761.06	676.49	3G	3-4	3-2	NA	
42	2	1318084.53	3022747.28	676.08	3H	3-4	3-2	NA	
43	2	1318093.31	3022751.16	680.04	3H	3-4	3-2	17SB263	
44	2	1318084.00	3022789.20	682.22	3H	3-4	3-2	17SB291	
45	2	1318060.55	3022850.90	682.97	3H, 3I	2-11, '3-4	3-2	17SB293	
46	2	1318044.27	3022830.18	680.04	3H, 3I	3-4	3-2	NA	
47	2	1318042.42	3022876.83	680.88	3I	3-4	3-2	NA	
48	2	1318050.17	3022875.32	683.75	3I	3-4	3-2	17SB294	
49	2	1318025.92	3023009.96	685.94	3J	3-4	3-2	NA	
50	2	1318081.90	3023021.17	686.98	3J	3-4	3-2	17SB243	
51	2	1318104.76	3023168.98	698.57	3J	3-4	3-2	17SB301	
52	2	1318099.82	3023226.17	694.48	3J	3-4	3-2	NA	
52A	2	1318080.57	3023210.81	696.08	3J	3-4	3-2	NA	
52B	2	1318085.12	3023188.50	695.74	3J	3-4	3-2	NA	
52C	2	1318087.68	3023170.47	695.04	3J	3-4	3-2	NA	
52D	2	1318088.94	3023120.29	695.26	3J	3-4	3-2	NA	
52E	2	1318066.52	3023111.07	691.89	3J	3-4	3-2	NA	
53	2	1318115.18	3023257.55	697.25	3N	3-4	3-2	NA	
54	2	1318132.24	3023268.36	697.57	3N	3-4	3-2	NA	
55	2	1318149.95	3023286.46	697.53	3N	3-4	3-2	NA	
56	2	1318127.43	3023312.30	699.52	3N	3-4	3-2	17SB089	
57	2	1318139.71	3023356.86	702.34	3N	3-4	3-2	17SB159	
58	2	1318133.15	3023361.20	701.13	3N	3-4	3-2	NA	
58a	2	1318132.70	3023379.00	701.09	Downstream TSCA, Ditch 3, Segment 6	3-4	3-2	NA	
58b	2	1318156.51	3023445.17	704.05	Downstream TSCA, Ditch 3, Segment 6	3-4	3-2	NA	
59	2	1318114.53	3023276.56	697.51	3M	3-4	3-2	NA	
60	2	1318108.02	3023277.09	697.62	3M	3-4	3-2	17SB161	
61	2	1318097.56	3023266.92	698.75	3M	3-4	3-2	17SB154	
62	2	1318100.32	3023247.82	697.59	3M	3-4	3-2	17SB163	
63	2	1318081.35	3023235.47	697.30	3M, 3L	3-4	3-2	17SB152	
64	2	1318090.31	3023221.61	695.77	3M, 3L	3-4	3-2	NA	
65	2	1318063.88	3023235.55	697.22	3L	3-4	3-2	NA	
66	2	1318029.51	3023207.03	702.42	3L	3-4	3-2	NA	
67	2	1318026.64	3023182.55	697.26	3L, 3K	3-4	3-2	NA	
68	2	1318035.10	3023181.64	691.82	3M, 3L	3-4	3-2	NA	
69	2	1318046.43	3023095.96	689.55	3K	3-4	3-2	NA	
70	2	1318015.96	3023096.22	696.31	3L, 3K	3-4	3-2	NA	
71	2	1318185.92	3023569.38	716.62	3O	3-4	3-2	17SB271	
72	2	1318230.98	3023621.78	721.06	3O	3-4	3-2	NA	
73	2	1318219.91	3023631.22	718.68	3O	3-4	3-2	NA	
73a	2	1318202.37	3023609.53	717.28	Upstream TSCA, Ditch 3, Segment 6	NA	3-2	NA	
74	2	1318215.68	3023635.45	719.48	3P	3-4	3-2	NA	
75	2	1318201.44	3023620.66	717.77	3P	3-4	3-2	17SB234	
76	2	1318161.32	3023604.85	717.66	3P	3-4	3-2	NA	
77	2	1318172.03	3023594.59	715.38	3P	3-4	3-2	NA	
78	1	1318141.92	3023689.12	736.41	4D	3-4	3-2	17SB168	
79	1	1318147.41	3023702.78	737.44	4D	3-4	3-2	17SB165	
80	1	1318131.18	3023710.33	738.30	4D	3-4	3-2	17SB170	
81	1	1318127.65	3023691.59	736.54	4D	3-4	3-2	17SB166	
82	1	1317776.36	3021981.83	698.96	4A-1	3-5, 3-6	3-1	NA	
83	1	1317815.93	3022011.50	708.48	4A-1	3-5, 3-6	3-1	17SB316	
84	1	1317816.20	3022017.99	710.16	4A-1, 4A-6	3-5, 3-6	3-1	NA	

TABLE 3-1

EXCAVATION NODE COORDINATES, INTERIM MEASURES PHASE 1 and PHASE 2 (1)
INTERIM MEASURES REPORT FOR SWMU 17 - PCB CAPACITOR BURIAL / POLE YARD
NAVAL SUPPORT ACTIVITY CRANE,
CRANE INDIANA

Excavation Node	Excavation Phase	Northing (Verified)	Easting (Verified)	Elevation (Verified)	IMWP Excavation Area	IMWP Figure	IMR Figure	Sampling Point Corresponding to Excavation Node	Comments
85	1	1317775.54	3022018.26	703.04	4A-1, 4A-6	3-5, 3-6	3-1	NA	
86	1	1317768.93	3022018.00	700.84	4A-1, 4A-6	3-5, 3-6	3-1	NA	
87	1	1317816.79	3022032.43	713.18	4A-6	3-5, 3-6	3-1	17SB317	
88	1	1317814.51	3022047.54	715.53	4A-6	3-5, 3-6	3-1	NA	
89	1	1317812.41	3022061.13	717.73	4A-6	3-5, 3-6	3-1	NA	
90	1	1317809.47	3022080.01	720.23	4A-6	3-5, 3-6	3-1	17SB325	
91	1	1317803.39	3022098.00	723.59	4A-5, 4A-6	3-5, 3-6	3-1	NA	
92	1	1317764.13	3022097.91	723.02	4A-5, 4A-6	3-5, 3-6	3-1	17SB347	
93	1	1317760.33	3022090.89	722.92	4A-3, 4A-5, 4A-6	3-5, 3-6	3-1	NA	
94	1	1317747.60	3022066.93	720.26	4A-2, 4A-6	3-5, 3-6	3-1	17SB345	
95	1	1317749.73	3022066.47	721.19	4A-2, 4A-6	3-5, 3-6	3-1	17SB368	
96	1	1317778.83	3022061.50	715.70	4A-6	3-5, 3-6	3-1	NA	
97	1	1317778.12	3022047.82	711.31	4A-6	3-5, 3-6	3-1	NA	
98	1	1317766.05	3022027.91	704.05	4A-2, 4A-6	3-5, 3-6	3-1	17SB452	
99	1	1317765.74	3022034.51	705.39	4A-6	3-5, 3-6	3-1	NA	
100	1	1317741.15	3022031.51	717.12	4A-2, 4A-3	3-5, 3-6	3-1	17SB367	
101	1	1317732.47	3022071.21	722.55	4A-2, 4A-3	3-5, 3-6	3-1	17SB349	
102	1	1317721.24	3022083.47	722.99	4A-3, 4A-4	3-5, 3-6	3-1	17SB037	
103	1	1317736.93	3022094.23	722.90	4A-3, 4A-4	3-5, 3-6	3-1	17SB358	
104	1	1317734.94	3022111.80	723.73	4A-3, 4A-4, 4A-5	3-5, 3-6	3-1	17FL-B-007	
105	1	1317717.88	3022112.97	723.79	4A-5, 4A-4, 4A-10	3-5, 3-6	3-1	17SB049	
106	1	1317715.21	3022123.51	724.17	4A-5, 4A-10	3-5, 3-6	3-1	17FL-B-004	
107	1	1317700.26	3022115.36	723.84	4A-5, 4A-10	3-5, 3-6	3-1	17FL-B-014	
108	1	1317700.66	3022105.15	723.62	4A-5, 4A-10	3-5, 3-6	3-1	17FL-B-020	
109	1	1317711.10	3022113.28	723.78	4A-4, 4A-10	3-5, 3-6	3-1	17SB 176	
110	1	1317674.04	3022098.13	723.36	4A-5	3-5, 3-6	3-1	17SB036	
111	1	1317663.16	3022090.04	723.21	4A-5	3-5, 3-6	3-1	17SB423	
112	1	1317654.54	3022088.17	723.06	4A-5, 4A-7	3-5, 3-6	3-1	17SB395	
113	1	1317657.34	3022095.10	723.33	4A-5, 4A-7	3-5, 3-6	3-1	17SB396	
114	1	1317656.15	3022108.78	723.98	4A-5, 4A-7	3-5, 3-6	3-1	17SB398	
115	1	1317644.33	3022108.62	724.00	4A-5, 4A-7	3-5, 3-6	3-1	17SB401	
116	1	1317634.28	3022116.93	724.57	4A-5, 4A-7	3-5, 3-6	3-1	NA	
117	1	1317634.33	3022118.21	724.67	4A-5	3-5, 3-6	3-1	17SB404	
118	1	1317671.82	3022123.78	724.74	4A-5	3-5, 3-6	3-1	NA	
119	1	1317700.50	3022134.90	724.79	4A-5	3-5, 3-6	3-1	NA	
120	1	1317720.76	3022152.14	724.92	4A-5	3-5, 3-6	3-1	NA	
121	1	1317732.84	3022167.98	725.29	4A-5	3-5, 3-6	3-1	NA	
122	1	1317742.30	3022144.32	724.75	4A-5	3-5, 3-6	3-1	17FL-B-001	
123	1	1317753.93	3022144.38	724.71	4A-5	3-5, 3-6	3-1	17SB369	
124	1	1317756.29	3022110.11	723.38	4A-5	3-5, 3-6	3-1	17SB172	
125	1	1317777.20	3022108.94	723.93	4A-5	3-5, 3-6	3-1	17SB356	
126	1	1317799.73	3022108.47	724.08	4A-5	3-5, 3-6	3-1	17SB357	
127	1	1317625.70	3022087.52	723.22	4A-7, 4A-9	3-5, 3-6	3-1	17SB415	
128	1	1317613.59	3022097.16	723.56	4A-7, 4A-9	3-5, 3-6	3-1	17SB406	
129	1	1317624.20	3022118.76	724.78	4A-7, 4A-9	3-5, 3-6	3-1	17SB446	
130	1	1317590.23	3022129.42	725.43	4A-7, 4A-8	3-5, 3-6	3-1	NA	This node is about 2 ft east of 17SB410 at the edge of the road.
131	1	1317593.36	3022097.35	723.74	4A-7, 4A-8	3-5, 3-6	3-1	17SB409	
132	1	1317605.19	3022080.81	720.15	4A-7, 4A-8	3-5, 3-6	3-1	17SB417	
133	1	1317616.23	3022069.98	721.83	4A-8, 4A-9	3-5, 3-6	3-1	17SB405	
134	1	1317599.43	3022063.30	716.44	4A-8	3-5, 3-6	3-1	17SB408	
135	1	1317579.98	3022049.66	713.84	4A-8	3-5, 3-6	3-1	NA	
136	1	1317581.93	3022048.09	713.73	4A-8	3-5, 3-6	3-1	NA	
137	1	1317573.93	3022069.07	720.20	4A-8	3-5, 3-6	3-1	17SB429	
138	1	1317573.21	3022091.68	723.78	4A-8	3-5, 3-6	3-1	17SB411	
139	1	1317581.68	3022100.18	723.91	4A-8	3-5, 3-6	3-1	17SB421	
140	1	1317666.09	3022176.62	722.53	4B-1	2-16, 3-5	3-1	NA	NW Corner of Building 357
141	1	1317684.11	3022175.21	723.36	4B-1	2-16, 3-5	3-1	17SB371	

TABLE 3-1

EXCAVATION NODE COORDINATES, INTERIM MEASURES PHASE 1 and PHASE 2 (1)
INTERIM MEASURES REPORT FOR SWMU 17 - PCB CAPACITOR BURIAL / POLE YARD
NAVAL SUPPORT ACTIVITY CRANE,
CRANE INDIANA

Excavation Node	Excavation Phase	Northing (Verified)	Easting (Verified)	Elevation (Verified)	IMWP Excavation Area	IMWP Figure	IMR Figure	Sampling Point Corresponding to Excavation Node	Comments
142	1	1317712.00	3022194.03	724.18	4B-1	2-16, 3-5	3-1	17SB181	
143	1	1317713.62	3022210.05	724.60	4B-1	2-16, 3-5	3-1	17SB182	
144	1	1317720.99	3022210.83	724.82	4B-1	2-16, 3-5	3-1	NA	Directly north of 17SB182 at edge of road.
145	1	1317719.28	3022231.28	725.00	4B-1	2-16, 3-5	3-1	17SB439	
146	1	1317715.33	3022261.62	724.92	4B-1, 4B-2	2-16, 3-5	3-1	NA	At edge of road about 2 ft north of 17SB382.
147	1	1317701.22	3022258.38	724.31	4B-1, 4B-2	2-16, 3-5	3-1	17FL-C-089	
148	1	1317691.00	3022270.56	723.66	4B-1, 4B-2	2-16, 3-5	3-1	17SB012	
149	1	1317695.08	3022288.14	723.96	4B-1, 4B-2	2-16, 3-5	3-1	17SB454	
150	1	1317711.16	3022289.80	724.71	4B-1, 4B-2	2-16, 3-5	3-1	NA	At edge of road about 2 ft north of 17FL-C-092.
151	1	1317703.91	3022332.40	724.30	4B-1, 4B-50	2-16, 3-5	3-1	NA	At edge of road about 2 ft north of 17SB047.
152	1	1317701.83	3022332.40	724.15	4B-1, 4B-50	2-16, 3-5	3-1	17SB047	
153	1	1317681.67	3022340.75	722.64	4B-1, 4B-50	2-16, 3-5	3-1	17SB187	
154	1	1317673.36	3022368.77	721.89	4B-1, 4B-50	2-16, 3-5	3-1	17SB192	
155	1	1317687.23	3022370.64	722.94	4B-3, 4B-50	2-16, 3-5	3-1	17SB190	
156	1	1317695.86	3022380.51	723.73	4B-3, 4B-50	2-16, 3-5	3-1	17SB430	
157	1	1317693.97	3022392.46	723.56	4B-3	2-16, 3-5	3-1	17SB211	
158	1	1317686.59	3022393.06	723.03	4B-3	2-16, 3-5	3-1	17SB081	
159	1	1317683.73	3022382.20	722.44	4B-3	2-16, 3-5	3-1	17SB191	
160	1	1317662.28	3022358.75	722.94	4B-1	2-16, 3-5	3-1	NA	
161	1	1317658.99	3022350.75	722.80	4B-1	2-16, 3-5	3-1	NA	
162	1	1317654.51	3022341.20	722.73	4B-1	2-16, 3-5	3-1	17FL-C-052	
163	1	1317660.25	3022312.22	723.03	4B-1	2-16, 3-5	3-1	17FL-C-054	
164	1	1317646.72	3022309.76	723.14	4B-1	2-16, 3-5	3-1	NA	At edge of building along perpendicular from 17FL-C-054 to building.
165	1	1317717.40	3022386.82	723.73	4C	2-17, 3-5	3-1	NA	At north edge of road about 2 ft south of node 166.
166	1	1317720.01	3022387.29	723.76	4C	2-17, 3-5	3-1	17SB015	
167	1	1317729.70	3022377.22	724.05	4C	2-17, 3-5	3-1	17FL-D-032	
168	1	1317724.86	3022353.74	724.69	4C	2-17, 3-5	3-1	NA	At north edge of road about 2 ft southeast of 17SB374.
169	1	1317747.56	3022345.73	724.64	4C	2-17, 3-5	3-1	17SB201	
170	1	1317757.72	3022347.86	724.31	4C	2-17, 3-5	3-1	17SB202	
171	1	1317762.99	3022359.63	723.42	4C	2-17, 3-5	3-1	17FL-D-038	
172	1	1317788.66	3022379.61	722.61	4C	2-17, 3-5	3-1	17FL-D-048	
172a	1	1317788.71 (2)	3022377.39 (2)	NA	NA	NA	3-1	NA	2 ft directly west of Excavation Node 172.
173	1	1317826.13	3022400.47	720.52	4C	2-17, 3-5	3-1	NA	Northwest corner of Excavation Area 4C.
173a	1	1317826.05 (2)	3022398.15 (2)	NA	NA	NA	3-1	NA	2 ft directly west of Excavation Node 173.
174	1	1317823.14	3022446.83	704.31	4C	2-17, 3-5	3-1	NA	At western bank of Ditch 2 (not in Ditch 2), located directly east of 17SB312.
175	1	1317800.08	3022437.57	707.87	4C	2-17, 3-5	3-1	NA	At western edge of Ditch 2 (not in ditch).
176	1	1317720.13	3022431.01	723.41	4C	2-17, 3-5	3-1	NA	At western edge of Ditch 2 (not in ditch).
177	1	1317714.90	3022412.48	723.51	4C	2-17, 3-5	3-1	17SB208	
178	1	1317711.47	3022411.84	723.68	4C	2-17, 3-5	3-1	NA	At north edge of road about 2 ft southeast of 17SB208. Don't cut into road.
179	2	1317569.05	3022035.34	711.26	8a	3-5	3-1	NA	Upstream edge of Ditch 8a excavation. In drainage channel and directly west of 17SB197.
179A	2	1317446.77	3021886.44	688.74	8a	NA	3-3	17SD134	Located 112.5 ft downstream of 17SW/SD127.
180	2	1317264.88	3021766.59	664.70	8b	3-1	3-3	17SW/SD048	
181	2	1317162.73	3021679.70	648.74	8b	3-1	3-3	17SW/SD049	
182	2	1317881.70	3021861.18	679.43	1A-1	NA	3-3	17SB471	
183	2	1317892.24	3021875.00	678.83	1A-2	NA	3-3	17SB468	
184	2	1317878.51	3021877.40	679.41	1A-2	NA	3-3	17SB479	
185	2	1317871.15	3021888.80	681.47	1A-2	NA	3-3	17SB466	
186	2	1317857.70	3021897.90	678.82	1A-2	NA	3-3	17SB464	
187	2	1317853.53	3021906.55	684.03	1A-2	NA	3-3	17SB462	

TABLE 3-1

EXCAVATION NODE COORDINATES, INTERIM MEASURES PHASE 1 and PHASE 2 (1)
INTERIM MEASURES REPORT FOR SWMU 17 - PCB CAPACITOR BURIAL / POLE YARD
NAVAL SUPPORT ACTIVITY CRANE,
CRANE INDIANA

Excavation Node	Excavation Phase	Northing (Verified)	Easting (Verified)	Elevation (Verified)	IMWP Excavation Area	IMWP Figure	IMR Figure	Sampling Point Corresponding to Excavation Node	Comments
188	2	1317836.55	3021924.87	685.90	1A-2	NA	3-3	17SB460	
189	2	1317813.34	3021952.48	689.90	1A-2	NA	3-3	NA	
190	2	1317806.60	3021947.32	688.94	1A-1	NA	3-3	NA	
191	2	1317812.30	3021936.59	689.86	1A-1	NA	3-3	17SB472	
192	2	1317821.80	3021922.01	687.49	1A-1	NA	3-3	17SB474	
193	2	1317829.49	3021907.91	685.89	1A-1	NA	3-3	17SB461	
194	2	1317837.26	3021893.33	683.19	1A-1	NA	3-3	17SB463	
195	2	1317844.28	3021878.26	681.47	1A-1	NA	3-3	17SB467	
196	2	1317871.18	3021861.40	679.61	1A-1	NA	3-3	17SB478	
197	2	1318228.66 (3)	3021797.73 (3)	644.96	3E-2	NA	3-3	17SB090	Circle centered on 17SB090.
198	2	1318183.35 (3)	3021893.68 (3)	647.73	3D-1	NA	3-3	17SB104	Circle centered on 17SB104.
199	2	1318183.61 (3)	3021977.55 (3)	650.19	3D-3	NA	3-3	17SB101	Circle centered on 17SB101.
200	2	1318121.38 (3)	3022114.87 (3)	654.93	3D-4	NA	3-3	17SB251	Circle centered on 17SB251.
201	2	1316425.19	3019307	591.21	SD105 Area	2-5	2-1	NA	NW corner of SD105 excavation area.
202	2	1316427.13	3019317.83	591.43	SD105 Area	2-5	2-1	NA	NE corner of SD105 excavation area.
203	2	1316396.37	3019323.35	591.43	SD105 Area	2-5	2-1	NA	SE corner of SD105 excavation area.
204	2	1316394.43	3019312.53	591.43	SD105 Area	2-5	2-1	NA	SW corner of SD105 excavation area.
205	2	1318183.80	3022021.85	NA	Area 3Q	NA	3-3	NA	Excavation node was added during IM Phase 2. Sample at this location was part of a virtual sidewall composite sample.
206	2	1318183.67	3022054.92	NA	Area 3Q	NA	3-3	NA	Excavation node was added during IM Phase 2. Sample at this location was part of a virtual sidewall composite sample.
207	2	1318151.12	3022083.31	NA	Area 3Q	NA	3-3	NA	Excavation node was added during IM Phase 2. Sample at this location was part of a virtual sidewall composite sample.
208	2	1318153.20	3022110.78	NA	Area 3Q	NA	3-3	NA	Excavation node was added during IM Phase 2. Sample at this location was part of a virtual sidewall composite sample.
209	2	1318136.60	3022110.52	NA	Area 3Q	NA	3-3	NA	Excavation node was added during IM Phase 2. Sample at this location was part of a virtual sidewall composite sample.
210	2	1318138.38	3022071.12	NA	Area 3Q	NA	3-3	NA	Excavation node was added during IM Phase 2. Sample at this location was part of a virtual sidewall composite sample.
211	2	1318168.42	3022047.85	NA	Area 3Q	NA	3-3	NA	Excavation node was added during IM Phase 2. Sample at this location was part of a virtual sidewall composite sample.
212	2	1318167.96	3022014.07	NA	Area 3Q	NA	3-3	NA	Excavation node was added during IM Phase 2. Sample at this location was part of a virtual sidewall composite sample.

IMWP = March 2013 Interim Measures Work Plan for Solid Waste Management Unit 17
NA = Not applicable
1 Surveying performed by Bledsoe, Riggert and Guerrataz, Inc (Matthew Cooper L.S.). Survey Datums are: Horizontal = North American Datum of 1983 (NAD 83); Vertical = North American Vertical Datum 1988 (NAVD 88).
2 Excavation node created during IM Phase 1 implementation
3 Excavation node number created at beginning of Phase 2 implementation.

TABLE 4-1

CONFIRMATION AND DELINEATION SAMPLE RESULTS, INTERIM MEASURES PHASE 2
SWMU 17 - PCB CAPACITOR BURIAL / POLE YARD INTERIM MEASURES REPORT
NAVAL SUPPORT ACTIVITY CRANE,
CRANE INDIANA

Area	New Grab Sample IDs (from FTMR)	New Composite IDs (Actual) (1)	FTMR Date	Notes	Analyzed?	Result (2)	Units	Sample Designation (D or C)(3)	Post-IM Sample Status (on-site or excavated)(4)
3D-1	173D1SWA1G0012	173D1SW01C0012	4/9/2014		Yes	0.039	mg/kg	D	On-site
3D-1	173D1SWB1G0012, 173D1SWB2G0012, 173D1SWB3G0012	173D1SW02C0012	4/9/2014		No	NA	NA	D	NA
3D-1	173D1SWC1G0012, 173D1SWC2G0012, 173D1SWC3G0012	173D1SW03C0012	4/9/2014		No	NA	NA	D	NA
3F West	173FWWA1G0012, 173FWWA2G0012	173FWW01C0012	4/9/2014		Yes	17	mg/kg	D	Excavated
3F West	173FWWB1G0012, 173FWWB2G0012, 173FWWB3G0012	173FWW02C0012	4/9/2014		Yes	7.9	mg/kg	D	Excavated
3F West	173FWWC1G0012, 173FWWC2G0012, 173FWWC3G0012	173FWW03C0012	4/9/2014		Yes	19	mg/kg	D	Excavated
3F East	173FEWA1G0012, 173FEWA2G0012	173FEW01C0012	4/9/2014		Yes	2.1	mg/kg	D	Excavated
3F East	173FEWB1G0012, 173FEWB2G0012, 173FEWB3G0012	173FEW02C0012	4/9/2014		Yes	2.7	mg/kg	D	Excavated
3F East	173FEWC1G0012, 173FEWC2G0012, 173FEWC3G0012	173FEW03C0012	4/9/2014		Yes	1.8	mg/kg	D	Excavated
3LA	173LAEWA1G0018	173LAEW01C0023	4/9/2014		Yes	0.1	mg/kg	C	On-site
3LA	173LAEWB1G0018, 173LAEWB2G0018, 173LAEWB3G0018	173LAEW02C0018	4/9/2014		No	NA	NA	C	NA
3LA	173LAEWC1G0018, 173LAEWC2G0018, 173LAEWC3G0018	173LAEW03C0018	4/9/2014		No	NA	NA	C	NA
3LB	173LBEWA1G0018, 173LBEWA2G0018,	173LBEW01C0004	4/9/2014		Yes	0.021	mg/kg	C	On-site
3LB	173LAEWB1G0018, 173LAEWB2G0018, 173LAEWB3G0018,	173LBEW02C0018	4/9/2014	Not Analyzed	No	NA	NA	C	NA
3LB	173LAEWC1G0018, 173LAEWC2G0018, 173LAEWC3G0018	173LBEW03C0018	4/9/2014	Not Analyzed	No	NA	NA	C	NA
3O West	173OWWA2G0024	173OWW01C0022	4/9/2014		Yes	0.028	mg/kg	C	On-site
3O West	173OWWB1G0024, 173OWWB2G0024, 173OWWB3G0024	173OWW02C0024	4/9/2014		No	NA	NA	C	NA
3O West	173OWWC1G0024, 173OWWC2G0024, 173OWWC3G0024	173OWW03C0024	4/9/2014		No	NA	NA	C	NA
3O North	173ONWA1G0012	NA	4/9/2014		No	NA	NA	C	NA
3O North	173ONWA2G0012	173ONW01C0024	4/9/2014		Yes	0.032	mg/kg	C	

TABLE 4-1

CONFIRMATION AND DELINEATION SAMPLE RESULTS, INTERIM MEASURES PHASE 2
SWMU 17 - PCB CAPACITOR BURIAL / POLE YARD INTERIM MEASURES REPORT
NAVAL SUPPORT ACTIVITY CRANE,
CRANE INDIANA

Area	New Grab Sample IDs (from FTMR)	New Composite IDs (Actual) [1]	FTMR Date	Notes	Analyzed?	Result [2]	Units	Sample Designation (D or C)[3]	Post-IM Sample Status (on-site or excavated)[4]
3O North	173ONWB1G0012, 173ONWB2G0012	173ONW02C0012	4/9/2014		No	NA	NA	C	NA
3O North	173ONWC1G0012, 173ONWC2G0012	173ONW03C0012	4/9/2014		No	NA	NA	C	NA
3P East	NA	NA	4/9/2014	No sample collected. Existing analysis results from 17SB234 (Excavation Node 75) were combined with the results from 173PEW01C0012 to determine that the excavation boundary at 3P had not been established in the first round of delineation sampling.	No	NA	NA	NA	NA
3P East	173PEWA1G0012	173PEW01C0012	4/9/2014		Yes	19	mg/kg	C	Excavated
3P East	173PEWB1G0012, 173PEWB2G0012	173PEW02C0014	4/9/2014		Yes	3.2	mg/kg	C	Excavated
3P East	173PEWC1G0012, 173PEWC2G0012	173PEW03C0012	4/9/2014		Yes	0.46	mg/kg	C	On-site
3F West	173FWWD1G00xx, 173FWWD2G00xx, 173FWWD3G00xx	173FWW04C0013	7/3/2014		Yes	0.4	mg/kg	D	On-site
3F West	173FWWE1G00xx, 173FWWE2G00xx, 173FWWE3G00xx	173FWW05C00xx	7/3/2014		No	NA	NA	D	NA
3F West	173FWWF1G00xx, 173FWWF2G00xx, 173FWWf3G00xx	173FWW06C0018	7/3/2014		Yes	0.038	mg/kg	D	On-site
3F West	173FWWG1G00xx, 173FWWG2G00xx, 173FWWG3G00xx	173FWW07C0016	7/3/2014		Yes	0.28	mg/kg	D	On-site
3F West	173FWWH1G00xx, 173FWWH2G00xx, 173FWWH3G00xx	173FWW08C0019	7/3/2014		Yes	20	mg/kg	D	Excavated
3F West	173FWWI1G00xx, 173FWWI2G00xx, 173FWWI3G00xx	173FWW09C0016	7/3/2014		Yes	8.1	mg/kg	D	Excavated
3F West	173FWWJ1G00xx, 173FWWJ2G00xx, 173FWWJ3G00xx	173FWW10C0013	7/3/2014		Yes	1.7	mg/kg	D	Excavated
3F West	173FWWK1G00xx, 173FWWK2G00xx, 173FWWK3G00xx	173FWW11C0015	7/3/2014		Yes	1.8	mg/kg	D	Excavated
3F West	173FWWL1G00xx, 173FWWL2G00xx, 173FWWL3G00xx	173FWW12C0013	7/3/2014		Yes	0.56	mg/kg	D	On-site
3F East	173FEWD1G00xx, 173FEWD2G00xx, 173FEWD3G00xx	173FEW04C00xx	7/3/2014		No	NA	NA	D	NA

TABLE 4-1

CONFIRMATION AND DELINEATION SAMPLE RESULTS, INTERIM MEASURES PHASE 2
SWMU 17 - PCB CAPACITOR BURIAL / POLE YARD INTERIM MEASURES REPORT
NAVAL SUPPORT ACTIVITY CRANE,
CRANE INDIANA

Area	New Grab Sample IDs (from FTMR)	New Composite IDs (Actual) [1]	FTMR Date	Notes	Analyzed?	Result [2]	Units	Sample Designation (D or C)[3]	Post-IM Sample Status (on-site or excavated)[4]
3F East	173FEWE1G00xx, 173FEWE2G00xx, 173FEWE3G00xx	173FEW05C0018	7/3/2014		Yes	1.2	mg/kg	D	Excavated
3F East	173FEWF1G00xx, 173FEWF2G00xx, 173FEWF3G00xx	173FEW06C0015	7/3/2014		Yes	4.6	mg/kg	D	Excavated
3F East	173FEWG1G00xx, 173FEWG2G00xx, 173FEWG3G00xx	173FEW07C0014	7/3/2014		Yes	2.9	mg/kg	D	Excavated
3O/3P	17SD1352224	17SD1352224	7/11/2014	Black Sludge Sample found in bedrock bedding plane under top 4 inches of bedrock.	Yes	6500	mg/kg	C	Excavated
3F East	173FEWH1G00xx, 173FEWH2G00xx, 173FEWH3G00xx	173FEW08C0024	7/28/2014		Yes	0	mg/kg	D	On-site
3F East	173FEWI1G00xx, 173FEWI2G00xx, 173FEWI3G00xx	173FEW09C00xx	7/28/2014		No	NA	NA	D	NA
3F East	173FEWJ1G00xx, 173FEWJ2G00xx, 173FEWJ3G00xx	173FEW10C00xx	7/28/2014		No	NA	NA	D	NA
3F East	173FWWG2G0018, 173FWWH2G0024, 173FWWI2G0024, 173FWWJ2G0008, 173FWWK2G0018, 173FWWL2G0014	173QNW02C0018	7/28/2014		Yes	1.1	mg/kg	D	Excavated
3Q	*173FWWG3G0018, 173FWWH3G0008, 173FWWI3G0018, 173FWWJ3G0012, 173FWWK3G0012, 173FWWL3G0012*	173QNW03C0013	7/28/2014		Yes	2.1	mg/kg	D	Excavated
3O North	173ONWWA1G00xx, 173ONWWA2G00xx	173ONWW01C0025	7/28/2014		Yes	1200	mg/kg	D	On-site
3O North	173ONWWB1G00xx, 173ONWWB2G00xx	173ONWW02C0014	7/28/2014		Yes	0.76	mg/kg	C	On-site
3O North	173ONWWC1G00xx, 173ONWWC2G00xx	173ONWW03C00xx	7/28/2014		No	NA	NA		NA
3P North	173PNEWA1G00xx, 173PNEWA2G00xx	173PNEW01C0021	7/28/2014		Yes	45	mg/kg	C	Excavated
3P North	173PNEWB1G00xx, 173PNEWB2G00xx	173PNEW02C0020	7/28/2014		Yes	2.5	mg/kg	C	Excavated
3P North	173PNEWC1G00xx, 173PNEWC2G00xx	173PNEW03C0021	7/28/2014		Yes	0.14	mg/kg	C	On-site

TABLE 4-1

CONFIRMATION AND DELINEATION SAMPLE RESULTS, INTERIM MEASURES PHASE 2
SWMU 17 - PCB CAPACITOR BURIAL / POLE YARD INTERIM MEASURES REPORT
NAVAL SUPPORT ACTIVITY CRANE,
CRANE INDIANA

Area	New Grab Sample IDs (from FTMR)	New Composite IDs (Actual) (1)	FTMR Date	Notes	Analyzed?	Result (2)	Units	Sample Designation (D or C)(3)	Post-IM Sample Status (on-site or excavated)(4)
3F West	173FWWG4G00xx, 173FWWH4G00xx, 173FWWI4G00xx	173QNW04AC0016	8/12/2014	Formed from grab samples collected in a row parallel to Ditch 3 but 8.5 feet further away than the next closest row of grab samples.	Yes	0.23	mg/kg	D	On-site
3F West	173FWWJ4G00xx, 173FWWK4G00xx, 173FWWL4G00xx	173QNW04BC0020	8/12/2014	Formed from grab samples collected in a row parallel to Ditch 3 but 8.5 feet further away than the next closest row of grab samples.	Yes	0.02	mg/kg	D	On-site
3F West	173FWWG5G00xx, 173FWWH5G00xx, 173FWWI5G00xx	173QNW05AC00xx	8/12/2014	Formed from grab samples collected in a row parallel to Ditch 3 but 8.5 feet further away than the next closest row of grab samples.	No	NA	NA	D	NA
3F West	173FWWJ5G00xx, 173FWWK5G00xx, 173FWWL5G00xx	173QNW05BC00xx	8/12/2014	Formed from grab samples collected in a row parallel to Ditch 3 but 8.5 feet further away than the next closest row of grab samples.	No	NA	NA	D	NA
3A-1	NA	173AWFA1C0006	NA	Collected at request of NSA Crane Environmental Site Manager, at the downstream end of 3A-1. Collected to verify whether removal of PCBs > 1 mg/kg was complete.	Yes	2.3	mg/kg	C	On-site, covered by clean fill
3F (after extending eastward)	173FEWE3E00xx, 173FEWE3F00xx 173FEWE3G00xx, 173FEWE3H00xx	173FENW03C0029	NA	Composite formed from grab samples stored in refrigerator. Grab samples were collected under FTMRs dated 7/3/2014 and 7/28/2014	Yes	0.0093	mg/kg	D	On-site
Culvert, North Side	NA	17CNEW01C0048	9/4/2014	Excavation wall north and perpendicular to the 6-ft long section of culvert that was replaced.	Yes	6.4	mg/kg	C	On-site, covered and abutted by clean fill
Culvert, North Side	NA	17CNNW01C0048	9/4/2014	Excavation wall north and perpendicular to the 6-ft long section of culvert that was replaced	Yes	2	mg/kg	C	On-site, covered and abutted by clean fill
Culvert, South Side	NA	17CSEW01C0048	9/4/2014	Excavation wall south and perpendicular to the 6-ft long section of culvert that was replaced.	Yes	0.086	mg/kg	C	On-site, covered and abutted by clean fill
Culvert, South Side	NA	17CSSW01C0048	9/4/2014	Excavation wall south and parallel to the 6-ft long section of culvert that was replaced.	Yes	3.7	mg/kg	C	On-site, covered and abutted by clean fill
Underneath TSCA Support Pad	NA	17SA03C0006	8/3/2014	TSCA Support Area, NE	Yes	ND	mg/kg	C	On-site
Underneath TSCA Support Pad	NA	17SA04C0006	8/3/2014	TSCA Support Area, SE	Yes	0.012	mg/kg	C	On-site
Underneath TSCA Support Pad	NA	17SA05C0006	8/3/2014	TSCA Support Area, SW	Yes	ND	mg/kg	C	On-site
Underneath TSCA Support Pad	NA	17SA06C0006	8/3/2014	TSCA Support Area, NW	Yes	0.028	mg/kg	C	On-site
Underneath Non-TSCA Support Pad	NA	17SA07C0006	NA	Non-TSCA Support Pad, Southern most composite sample.	Yes	0.079	mg/kg	C	On-site
Underneath Non-TSCA Support Pad	NA	17SA08C0006	NA	Non-TSCA Support Pad, adjacent to 17SA07C0006.	Yes	0.025	mg/kg	C	On-site
Underneath Non-TSCA Support Pad	NA	17SA09C0006	NA	Non-TSCA Support Pad, adjacent to and north of 17SA08C0006.	Yes	0.11	mg/kg	C	On-site

TABLE 4-1

CONFIRMATION AND DELINEATION SAMPLE RESULTS, INTERIM MEASURES PHASE 2
SWMU 17 - PCB CAPACITOR BURIAL / POLE YARD INTERIM MEASURES REPORT
NAVAL SUPPORT ACTIVITY CRANE,
CRANE INDIANA

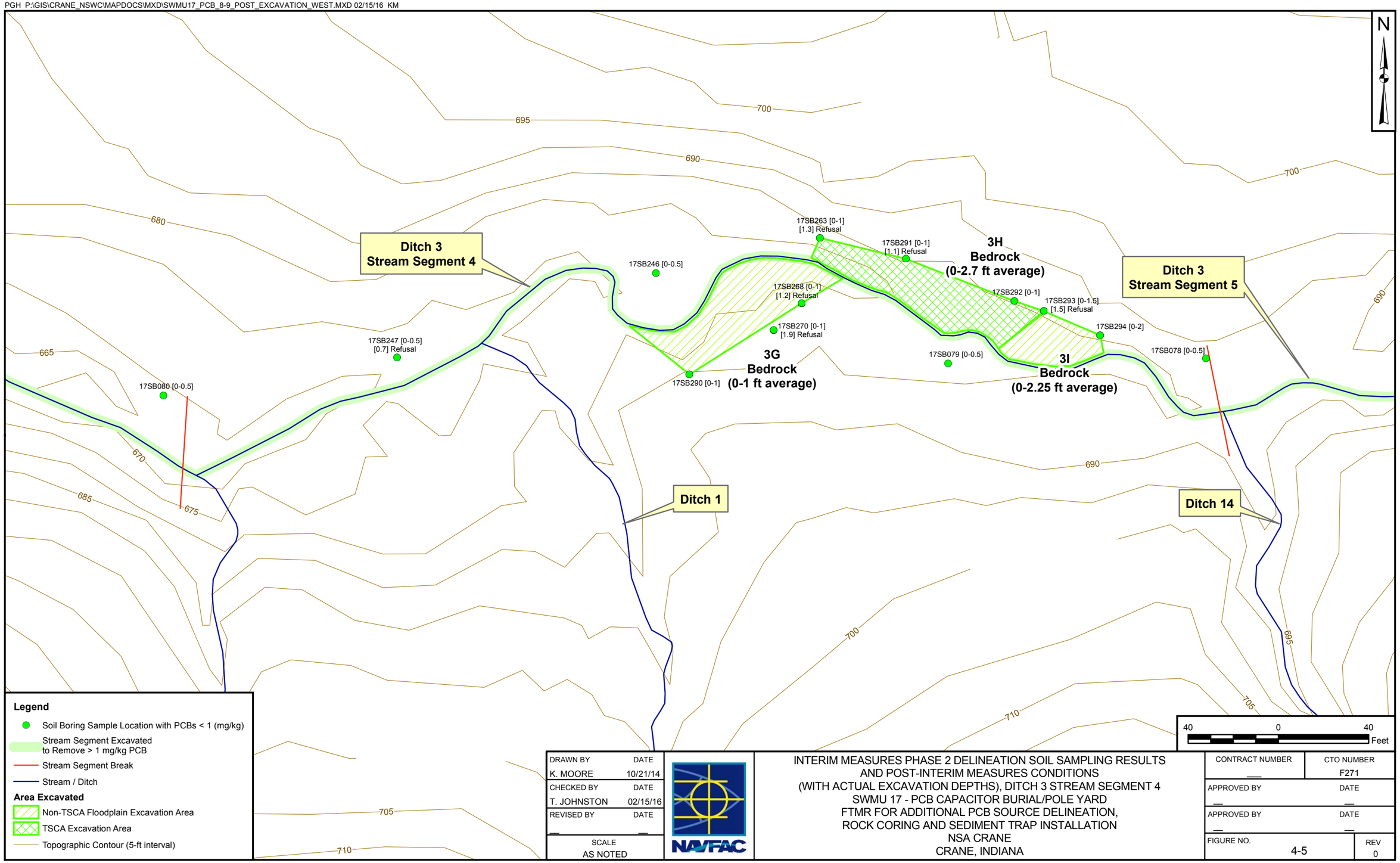
Area	New Grab Sample IDs (from FTMR)	New Composite IDs (Actual) (1)	FTMR Date	Notes	Analyzed?	Result (2)	Units	Sample Designation (D or C)(3)	Post-IM Sample Status (on-site or excavated)(4)
Underneath Non-TSCA Support Pad	NA	17SA10C0006	NA	Non-TSCA Support Pad, adjacent to and north of 17SA09C0006.	Yes	0.15	mg/kg	C	On-site
Underneath Non-TSCA Support Pad	NA	17SA11C0006	NA	Non-TSCA Support Pad, adjacent to and north of 17SA10C0006.	Yes	0.42	mg/kg	C	On-site
Underneath Non-TSCA Support Pad	NA	17SA12C0006	NA	Non-TSCA Support Pad, adjacent to and north of 17SA11C0006.	Yes	0.27	mg/kg	C	On-site
Underneath Non-TSCA Support Pad	NA	17SA13C0006	NA	Non-TSCA Support Pad, adjacent to and north of 17SA12C0006.	Yes	0.087	mg/kg	C	On-site
Underneath Non-TSCA Support Pad	NA	17SA14C0006	NA	Non-TSCA Support Pad, Northern most composite sample.	Yes	0.31	mg/kg	C	On-site
Post-IM Sample in Ditch 3	NA	17SD1360003	9/4/2014	Grab Sample	Yes	4.4	mg/kg	C	On-site
Post-IM Sample in Ditch 3	NA	17SD1370006	9/4/2014	Grab Sample	Yes	100	mg/kg	C	On-site
Post-IM Sample in Ditch 3	NA	17SD1380003	9/4/2014	Grab Sample	Yes	490	mg/kg	C	On-site
Post-IM Sample in Ditch 3	NA	17SD1400003	9/10/2014	Grab Sample	Yes	0.53	mg/kg	C	On-site
Post-IM Sample in Ditch 3	NA	17SW139091014	9/10/2014	Grab Sample	Yes	14	µg/L	C	NA
Post-IM Sample in Ditch 3	NA	17SW140091014	9/10/2014	Grab Sample	Yes	2.1	µg/L	C	NA
Post-IM Sample in Ditch 3	NA	17SW140100714	9/10/2014	Grab Sample	Yes	0.2	µg/L	C	NA
Post-IM Sample in Ditch 3	NA	17SW141100714	9/10/2014	Grab Sample	Yes	9.7	µg/L	C	NA
Post-IM Sample in Ditch 3	NA	17SW140091014-F	9/10/2014	Grab Sample	Yes	ND	µg/L	C	NA
Post-IM Sample in Ditch 3	NA	17SW140100714-F	9/10/2014	Grab Sample	Yes	ND	µg/L	C	NA
Post-IM Sample in Ditch 3	NA	17SW141100714-F	9/10/2014	Grab Sample	Yes	0.37	µg/L	C	NA

Shading indicates PCB concentrations are ≤1 mg/kg
Shading indicates PCB concentrations are between >1 mg/kg and ≤50 mg/kg
Shading indicates PCB concentrations are ≥50 mg/kg

83 Samples collected
65 samples analyzed

FTMR = Field Task Modification Request
ID = Identifier
mg/kg = milligram per kilogram
µg/L = microgram per liter
NA = Not applicable
ND = Not detected. Detection limits were less than 0.1 mg/kg
1 Corrections were made to some sample numbers that were assigned incorrectly upon collection. Numbers shown here are the correct numbers and in some cases may not match FTMR numbers.
2 There are no criteria for the aqueous samples, so no color shading was used for those results.
3 Sample designation signifies either a delineation sample (D) or a Confirmation Sample (C).
4 Indicates whether sample location was excavated during IM activities or remains on-site (not excavated).

PGH P:\GIS\CRANE_NSWC\MAPDOCS\MXD\SWMU17_PCB_8-9_POST_EXCAVATION_WEST.MXD 02/15/16 KM



DRAWN BY	DATE
K. MOORE	10/21/14
CHECKED BY	DATE
T. JOHNSTON	02/15/16
REVISED BY	DATE
—	—
SCALE	
AS NOTED	

NAVFAC

INTERIM MEASURES PHASE 2 DELINEATION SOIL SAMPLING RESULTS
AND POST-INTERIM MEASURES CONDITIONS
(WITH ACTUAL EXCAVATION DEPTHS), DITCH 3 STREAM SEGMENT 4
SWMU 17 - PCB CAPACITOR BURIAL/POLE YARD
FTMR FOR ADDITIONAL PCB SOURCE DELINEATION,
ROCK CORING AND SEDIMENT TRAP INSTALLATION
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	CTO NUMBER
—	F271
APPROVED BY	DATE
—	—
APPROVED BY	DATE
—	—
FIGURE NO. 4-5	REV 0