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NSA CRANE
5090.3a

LETTER REPORT FOR RESULTS OF ADDITIONAL SAMPLING AND ANALYSIS SOLID WASTE MANAGEMENT UNIT 17 (SWMU 17) BOGGS CREEK SEDIMENT 1 DITCH 3, SEDIMENTS 2 AND 6 AND NORTHWEST DITCH NSA CRANE IN
5/24/2011
TETRA TECH

Letter Report for Results of Additional Sampling and Analysis in SWMU 17 Boggs Creek [Segment 1, Ditch 3 (Segments 2 and 6), and Northwest Ditch]

DATE: May 24, 2011, Revision 0

TO: Mr. Howard Hickey, NAVFAC MW

FROM: Steve Ruffing, Tetra Tech, Pittsburgh, PA

Ralph Basinski, Tetra Tech, Pittsburgh, PA

cc: Mr. Tom Brent, NSA Crane

Mr. John Trepanowski, Tetra Tech

Project File – CTO 042

SUBJECT: NSA Crane – Results of Additional Sampling and Analysis for SWMU 17 Boggs Creek [Segment 1, Ditch 3 (Segments 2 and 6), and Northwest Ditch]

INTRODUCTION

The Naval Support Activity (NSA) Crane prepared a Quality Assurance Project Plan (QAPP) [Tetra Tech NUS, Inc. (Tetra Tech), 2001] for a Phase III Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) at Solid Waste Management Unit (SWMU) 17 to provide data regarding polychlorinated biphenyl (PCB) contamination in surface and subsurface soil at the PCB Capacitor Burial/Pole Yard. Following approval of the QAPP, Tetra Tech began site activities in March 2002.

In June 2005, the Navy prepared a QAPP Addendum (Tetra Tech, 2005) to address data gaps regarding PCB contamination in surface soil, subsurface soil, perched groundwater, surface water, and sediment at SWMU 17.

Based on the previous field investigations in which unacceptable risk was identified related to PCB contamination at SWMU 17, the Navy prepared QAPP Addendum No. 2 (Tetra Tech, 2006a) to identify the full extent of the contamination, specifically in ditches 1 through 10 leading into Boggs Creek, Boggs Creek headwaters, Boggs Creek plunge pool, and upper portion of Boggs Creek itself.

Due to PCB contamination found within the headwaters of Boggs Creek, the Navy prepared QAPP Addendum No. 3 (Tetra Tech, 2006b) to gather data that would allow the RFI report to be completed.

Data collection included the delineation of the nature and extent of PCB contamination, primarily in the area around Building 2721 and the tributary flowing west from Building 2721 to Boggs Creek.

In August 2008, the Navy prepared QAPP Addendum No. 4 (Tetra Tech, 2008) to determine the full extent of PCB contamination in the surface water and sediment associated with Boggs Creek to its termination into Lake Gallimore. Results from this sampling event demonstrated that PCBs were not migrating into Lake Gallimore via Boggs Creek surface water or sediment, which is documented in the Field Investigation Report for SWMU 17 – Boggs Creek (Tetra Tech, 2010).

Based on the results of the sampling events summarized above, removal actions were recommended for 569 cubic yards of soil and sediment from the channels and floodplain areas of the northwestern ditch, Boggs Creek Stream Segment 1, Ditch 3 Stream Segment 2, Ditch 3 Segment 6, spot removal of sediment from one location in Boggs Creek, and 440 cubic yards of soil adjacent to Buildings 357 and 2721. Figures 1 and 2 display the soil and sediment areas at the PCB Capacitor Burial/Pole Yard for which removal actions have been recommended to date. The PCB mass values displayed in Figure 1 were based on 2005 and 2006 sampling data.

It was determined that the extent of sediment contamination in Ditch 3 Segment 6 and the horizontal and vertical extent of soil contamination in the floodplain of Boggs Creek Segment 1, Ditch 3 (Segments 2 and 6), and the Northwest Ditch was not adequately delineated. A technical memorandum was prepared for additional sampling and analysis in accordance with QAPP Addendum No. 4 (Tetra Tech, 2008) to delineate the extent of sediment and soil contamination in these areas to obtain sufficient data to prepare the Interim Measures Work Plan (IMWP) in support of removal actions. This letter report summarizes the results of this additional sampling.

SITE BACKGROUND HISTORY

The PCB capacitor Burial/Pole Yard (SWMU 17) has been in use since before 1966. Historically, the site has been used for the following:

- Storage of capacitors, some of which contained PCBs.
- Storage of transformers, some of which contained PCBs.
- Reported burial of capacitors, some of which may have contained PCBs.
- Storage of creosote-impregnated utility poles, some of which may contain PCBs as a result of burst transformers.

Pure PCBs have never been found in transformers or capacitors at NSA Crane. The greatest concentrations of PCBs have been in the range of 10,000 parts per million (ppm). Therefore, any releases of capacitor or transformer oil at SWMU 17 would be expected to exhibit concentrations in the range of 10,000 ppm PCBs or less. Reportedly, capacitors were buried at SWMU 17 in the early to mid

1970s; however, it is not known whether any capacitors were buried prior to the early 1970s or after the mid 1970s.

METHODOLOGY

This work was performed in January 2011. Forty-seven locations (15 sediment and 32 soil locations) were sampled during the current investigation. Eighteen locations were in Ditch 3, Segment 6 (15 sediment and 3 soil locations), 17 soil locations were in Ditch 3, Segment 2, 11 soil locations were in the Boggs Creek, Segment 1, and one soil location was in the Northwest Ditch.

In general, soil samples were collected at two depths (0 to 6 and 6 to 12 inches). The sample collected at the 0 to 6 inch depth was analyzed (Round 1). The sample collected at the 6 to 12 inch depth was only analyzed if the 0 to 6 inch sample exceeded a concentration of 1 ppm (Round 2).

Tables 1 and 2 respectively summarize the results of the soil and sediment samples collected during this sampling event.

<u>Boggs Creek Segment 1, Ditch 3 Segment 2, and Northwest Ditch</u>

A total of 58 samples were collected from 29 locations within the floodplain area that surrounds Boggs Creek Segment 1, Ditch 3 Segment 2, and the Northwest Ditch (11 locations, 17 locations, and one location, respectively). Twenty-nine discrete surface soil samples were collected at a depth of 0 to 6 inches bgs (Round 1 samples) for analysis. Round 1 Sample ID numbers are as follows:

17SB900006	17SB980006	17SB1060006	17SB1170006
17SB910006	17SB990006	17SB1070006	17SB1180006
17SB920006	17SB1000006	17SB1110006	17SB1190006
17SB930006	17SB1010006	17SB1120006	17SB1200006
17SB940006	17SB1020006	17SB1130006	17SB1210006
17SB950006	17SB1030006	17SB1140006	
17SB960006	17SB1040006	17SB1150006	
17SB970006	17SB1050006	17SB1160006	

Twenty-nine discrete soil samples were collected at a depth of 6 to 12 inches bgs (Round 2 samples) for potential analysis. Round 2 Sample ID numbers are as follows:

17SB900612	17SB980612	17SB1060612	17SB1170612
17SB910612	17SB990612	17SB1070612	17SB1180612
17SB920612	17SB1000612	17SB1110612	17SB1190612
17SB930612	17SB1010612	17SB1120612	17SB1200612

17SB940612	17SB1020612	17SB1130612	17SB1210612
17SB950612	17SB1030612	17SB1140612	
17SB960612	17SB1040612	17SB1150612	
17SB970612	17SB1050612	17SB1160612	

The 6 to 12 inch bgs samples were sent to the laboratory and placed on hold and were only analyzed if the collocated 0 to 6 inch bgs sample had a concentration greater than 1 ppm. Each sample was collected via disposable plastic trowel. Figure 3 shows sample locations and results. Locations were selected based on results of previous sampling events and were spatially distributed across the estimated floodplain.

Ditch 3 Segment 6

A total of six soil samples were collected from three locations in the floodplain surrounding Ditch 3 Segment 6. Three surface soil samples were collected at a depth of 0 to 6 inches below ground surface (bgs) (Round 1 samples) for analysis. Round 1 sample ID Numbers are as follows:

17SB870006	17SB880006	17SB890006

Three soil samples were collected at a depth of 6 to 12 inches bgs (Round 2 samples) for potential analysis. The 6 to 12 inch bgs samples were sent to the laboratory and placed on hold and were only analyzed if the collocated 0 to 6 inch bgs sample had a PCB concentration greater than 1 ppm. Round 2 Sample ID numbers are as follows:

17SB870612	17SB880612	17SB890612

Each sample was collected using a disposable plastic trowel.

Additionally, 22 sediment samples were collected from 15 locations within the channel of Segment 6 to fill data gaps regarding PCB contamination and distribution within this stream channel, east of previous sample location 17SD61 to previous sample location 17SD58. The sediment Sample ID numbers are as follows:

17SD1060006	17SD1110006	17SD1160006	17SD1171224	17SD1200006
17SD1070006	17SD1120006	17SD1160612	17SD1180006	17SD1200612
17SD1080006	17SD1130006	17SD1161224	17SD1180612	
17SD1090006	17SD1140006	17SD1170006	17SD1190006	
17SD1100006	17SD1150006	17SD1170612	17SD1190612	

Prior to collection, the sediment depth and width of the channel was measured. One sample was collected if the depth did not exceed 8 inches bgs. If the sediment depth exceeded 8 inches, a second sample was collected from 6 to 12 inches bgs and for every 12 inch interval thereafter. Each sample was collected via disposable plastic trowel. Figure 4 shows the soil and sediment sample locations and results from this sampling event.

Additional information regarding quality assurance data can be found in Tables 1 and 2. A field duplicate was collected at a rate of one per every 20 samples per media. A global positioning system (GPS) was used to collect coordinates of all sampling locations. In addition, site photos were taken and a description for each photo was noted. Photographs included pictures of segments containing sample locations, as well as other portions of SWMU 17. Site photographs are included as Appendix A.

All samples were field documented in accordance with the procedures described in QAPP Addendum No. 4 (Tetra Tech, 2008). Field documentation is included as Appendix B.

RESULTS

Figures 3 and 4 display the soil and sediment results from the current investigation only. Figures 5 and 6 display the results of soil and sediment samples that exceeded the PCB cleanup goal of 1 ppm in this investigation and in previous investigations.

Forty-seven locations (15 sediment and 32 soil locations in floodplains) were sampled during the current investigation. Eighteen locations were in Ditch 3, Segment 6 (15 sediment and 3 soil locations), 17 soil locations were in Ditch 3, Segment 2, 11 soil locations were in the Boggs Creek, Segment 1, and one soil location was in the Northwest Ditch. Three more sample locations were planned for the floodplain of the Northwest ditch, however, no floodplain could be visually identified in these areas (17SB108, 17SB109, and 17SB110). A total of 64 soil samples were collected from the 32 soil locations and a total of 22 sediment samples were collected from the 15 sediment locations.

Of the 64 soil samples collected from the 32 soil locations, only 47 samples were analyzed (32 Round 1 and 15 Round 2 samples). All thirty-two 0 to 6 inch bgs soil samples (Round 1) were analyzed. Fifteen of these contained PCB concentrations greater than 1 ppm (eight from Ditch 3, Segment 2; one from the Northwest Ditch; six from Boggs Creek, Segment 1). Based on the results of the Round 1 soil samples, the laboratory was instructed to analyze the collocated 6 to 12 inch (Round 2) sample from these 15 locations. Thirteen of the 6 to 12 inch bgs soil samples contained PCB concentrations greater than 1 ppm (seven from Ditch 3, Segment 2; six from Boggs Creek, Segment 1).

A total of 22 sediment samples were collected from the 15 sediment sample locations. Ten of the 15 sediment sample locations contained only 6 inches of sediment depth; thus, only one sample was collected from these 10 locations. Of the five remaining sediment sample locations, three contained 12

inches of sediment depth and two contained 24 inches of sediment depth. Results from the two sediment samples collected from location 17SD120 contained PCB concentrations less than 1 ppm; the results of the remaining 20 sediment samples collected contained PCB concentrations greater than 1 ppm.

Validated data for all sample locations from the current investigation displayed in the figures is available in Appendix C of this Letter Report.

REFERENCES

Tetra Tech NUS, Inc. (Tetra Tech), 2001. Quality Assurance Project Plan for PCB Capacitor Burial/Pole Yard Solid Waste Management Unit (SWMU) 17, Resource Conservation and Recovery Act Facility Investigation and Verification. December.

Tetra Tech 2005. Quality Assurance Project Plan Addendum for PCB Capacitor Burial/Pole Yard Solid Waste Management Unit (SWMU) 17/04, Resource Conservation and Recovery Act Facility Investigation and Verification of Removal, Naval Surface Warfare Center Crane, Crane, Indiana. June.

Tetra Tech, 2006a. Quality Assurance Project Plan Addendum 2 for PCB Capacitor Burial/Pole Yard SWMU 17, Naval Surface Warfare Center Crane, Crane, Indiana. April.

Tetra Tech, 2006b. Quality Assurance Project Plan Addendum 3 for Building 2721 Investigation (Phase 4) PCB Capacitor Burial/Pole Yard SWMU 17, Naval Surface Warfare Center Crane, Crane, Indiana. September.

Tetra Tech, 2008. Quality Assurance Project Plan Addendum No. 4 for PCB Capacitor Burial/Pole Yard Building 2721 Investigation (Phase 5) SWMU 17, Naval Surface Warfare Center Crane, Crane, Indiana. August.

Tetra Tech, 2010. Field Investigation Report for SWMU 17 – Boggs Creek, Naval Support Activity Crane, Crane, Indiana. September.

Table 1

SWMU 17 Soil Sample Results (PCB Detections)
SWMU 17 Letter Report (2011)
NSA Crane
Crane, Indiana

		Round 1 Samples		Round 2 Samples [1]	
Sampling Area	Sample Location	Sample ID	Result (ppm)[3]	Sample ID	Result (ppm)[3]
Ditch 3 – Segment 6	17SB87	17SB870006	0.11	17SB870612	NA
	17SB88	17SB880006	0.04	17SB880612	NA
	17SB89	17SB890006	0.25	17SB890612	NA
Ditch 3 – Segment 2	17SB90	17SB900006	4.2	17SB900612	11.7
		17SB900006D	3.4	17SB900612D	8.2
	17SB91	17SB910006	0.2	17SB910612	NA
	17SB92	17SB920006	12.4	17SB920612	1.8
	17SB93	17SB930006	0.8	17SB930612	NA
	17SB94	17SB940006	2.3	17SB940612	3.1
	17SB95	17SB950006	1.5	17SB950612	0.5
	17SB96	17SB960006	0.82	17SB960612	NA
	17SB97	17SB970006	0.27	17SB970612	NA
	17SB98	17SB980006	0.046	17SB980612	NA
	17SB99	17SB990006	0.052	17SB990612	NA
		17SB990006D	0.037	NA	NA
	17SB100	17SB1000006	0.89	17SB1000612	NA
	17SB101	17SB1010006	2.0	17SB1010612	1.5
	17SB102	17SB1020006	0.35	17SB1020612	NA
	17SB103	17SB1030006	0.075	17SB1030612	NA
	17SB104	17SB1040006	5.3	17SB1040612	1.8
	17SB105	17SB1050006	9.3	17SB1050612	41.3
	17SB106	17SB1060006	24.5	17SB1060612	8.2
Northwest Ditch [2]	17SB107	17SB1070006	1.6	17SB1070612	0.38
	17SB108	17SB1080006	NA	17SB1080612	NA
	17SB109	17SB1090006	NA	17SB1090612	NA
	17SB110	17SB1100006	NA	17SB1100612	NA
Boggs Creek – Segment 1	17SB111	17SB1110006	0.088	17SB1110612	NA
	17SB112	17SB1120006	0.047	17SB1120612	NA
	17SB113	17SB1130006	0.12	17SB1130612	NA
	17SB114	17SB1140006	0.1	17SB1140612	NA
	17SB115	17SB1150006	1.8	17SB1150612	1.2
	17SB116	17SB1160006	5.3	17SB1160612	3.7
	17SB117	17SB1170006	1.8	17SB1170612	2.4
		17SB1170006D	1.9	NA	NA
	17SB118	17SB1180006	1.9	17SB1180612	3.7
	17SB119	17SB1190006	4.8	17SB1190612	4.4

Table 1

SWMU 17 Soil Sample Results (PCB Detections)
SWMU 17 Letter Report (2011)
NSA Crane
Crane, Indiana

		Round 1 Samples		Round 2 Samples [1]	
Sampling Area	Sample Location	Sample ID	Result (ppm)[3]	Sample ID	Result (ppm)[3]
Boggs Creek – Segment 1	17SB120	17SB1200006	8.2	17SB1200612	5.5
	17SB121	17SB1210006	0.053	17SB1210612	NA

Sample Nomenclature:
17SB900612D = (SWMU 17), (Soil Boring), (Location ID 90), (Depth Range 6" – 12"), ("D" indicates that the sample is a duplicate)

(1) Round 2 Samples were only analyzed if the PCB results from the associated Round 1 sample exceeded 1 ppm. "NA" indicates that the sample was not analyzed.
(2) Three locations in the Northwest Ditch (17SB108, 17SB109, and 17SB110) were not sampled because no floodplain was present.
(3) Shaded cells indicate that the sample result exceeds 1 ppm.

Table 2

SWMU 17 Sediment Sample Results (PCB Detections)
SWMU 17 Letter Report (2011)
NSA Crane
Crane, Indiana

Sampling Area	Sample Location	Sample ID	Result (ppm)[2]
Ditch 3 – Segment 6	17SD106	17SD1060006	34.7
	17SD107	17SD1070006	101
	17SD108	17SD1080006	4.9
	17SD109	17SD1090006	175
	17SD110	17SD1100006	26.5
	17SD111	17SD1110006	20.4
	17SD112	17SD1120006	14.5
	17SD113	17SD1130006	41.7
	17SD114	17SD1140006	14.9
	17SD115	17SD1150006	28.6
	17SD116	17SD1160006	23.0
		17SD1160006D	15.8
		17SD1160612	24.9
		17SD1161224	8.9
	17SD117	17SD1170006	30.0
		17SD1170006D	9.5
		17SD1170612	9.3
		17SD1171224	46.8
	17SD118	17SD1180006	4.7
		17SD1180612	100
	17SD119	17SD1190006	2.3
		17SD1190612	3.6
	17SD120	17SD1200006	0.1
		17SD1200612	0.77

Sample Nomenclature:
17SD1160006D = (SWMU 17), (Sediment), (Location ID 116), (Depth Range 0" – 6"), ("D" indicates that the sample is a duplicate)

(1) Measurement of sediment depth took place prior to sampling. Sediment samples were collected over the entire depth of the sediment; therefore, some samples exceeded a depth of 6 inches. One sample was collected for a depth up to 8 inches and the ID was changed to the depth at which it was collected. Another sediment sample was collected for each 12 inch depth interval present.
(2) Shaded cells indicate that the sample result exceeds 1 ppm.

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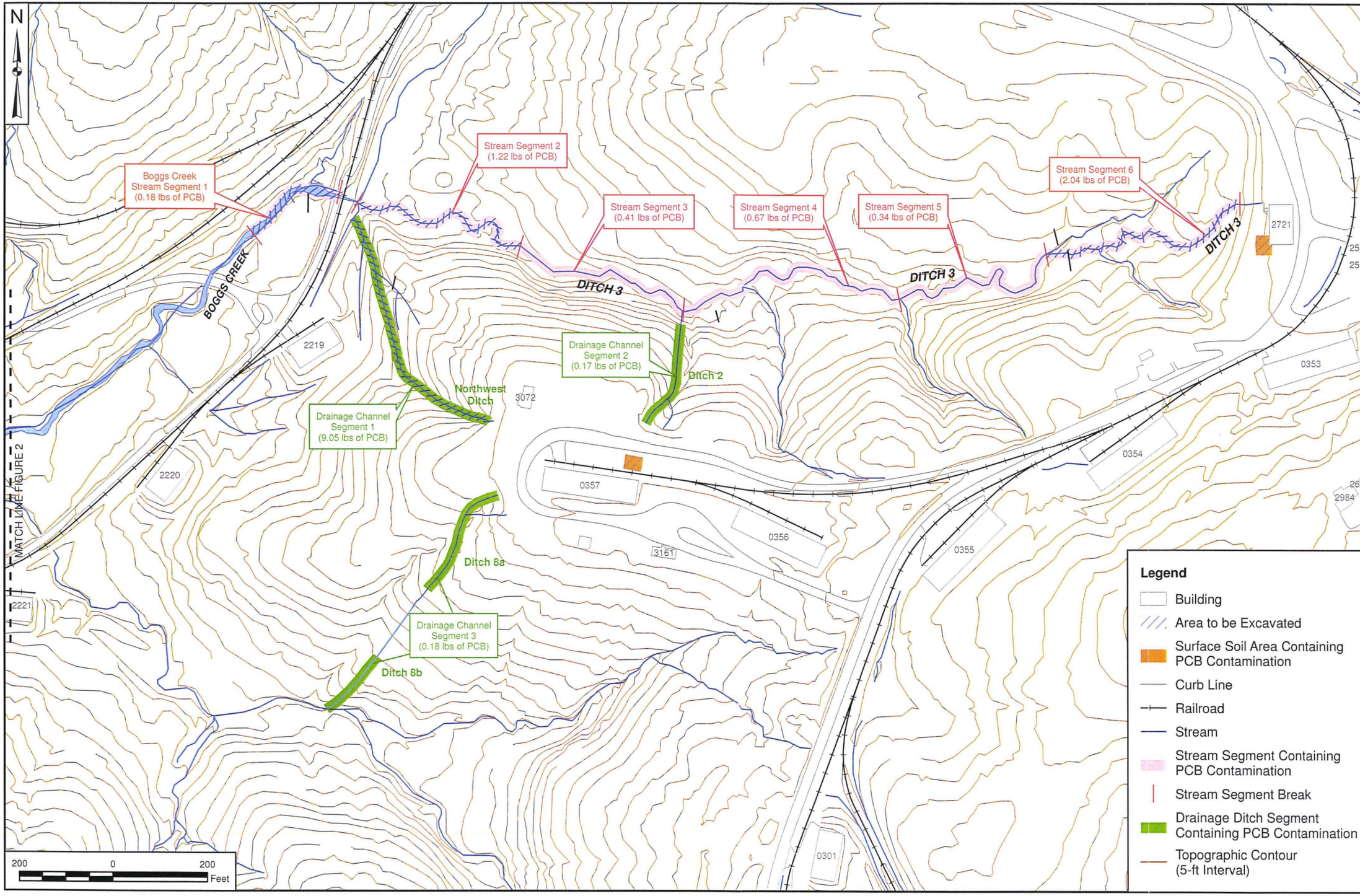

CONTRACT NUMBER CTO 42

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FIGURE NO. FIGURE 1 — REV 0

AREAS OF CONTAMINATION
SWMU 17 PCB CAPACITOR BURIAL/POLE YARD
NSA CRANE
CRANE, INDIANA

NAVFAC

DRAWN BY J. ENGLISH	DATE 04/29/10		
CHECKED BY A. FINLEY	DATE 5/20/11		
REVISED BY K. MOORE	DATE 5/20/11	SCALE AS NOTED	

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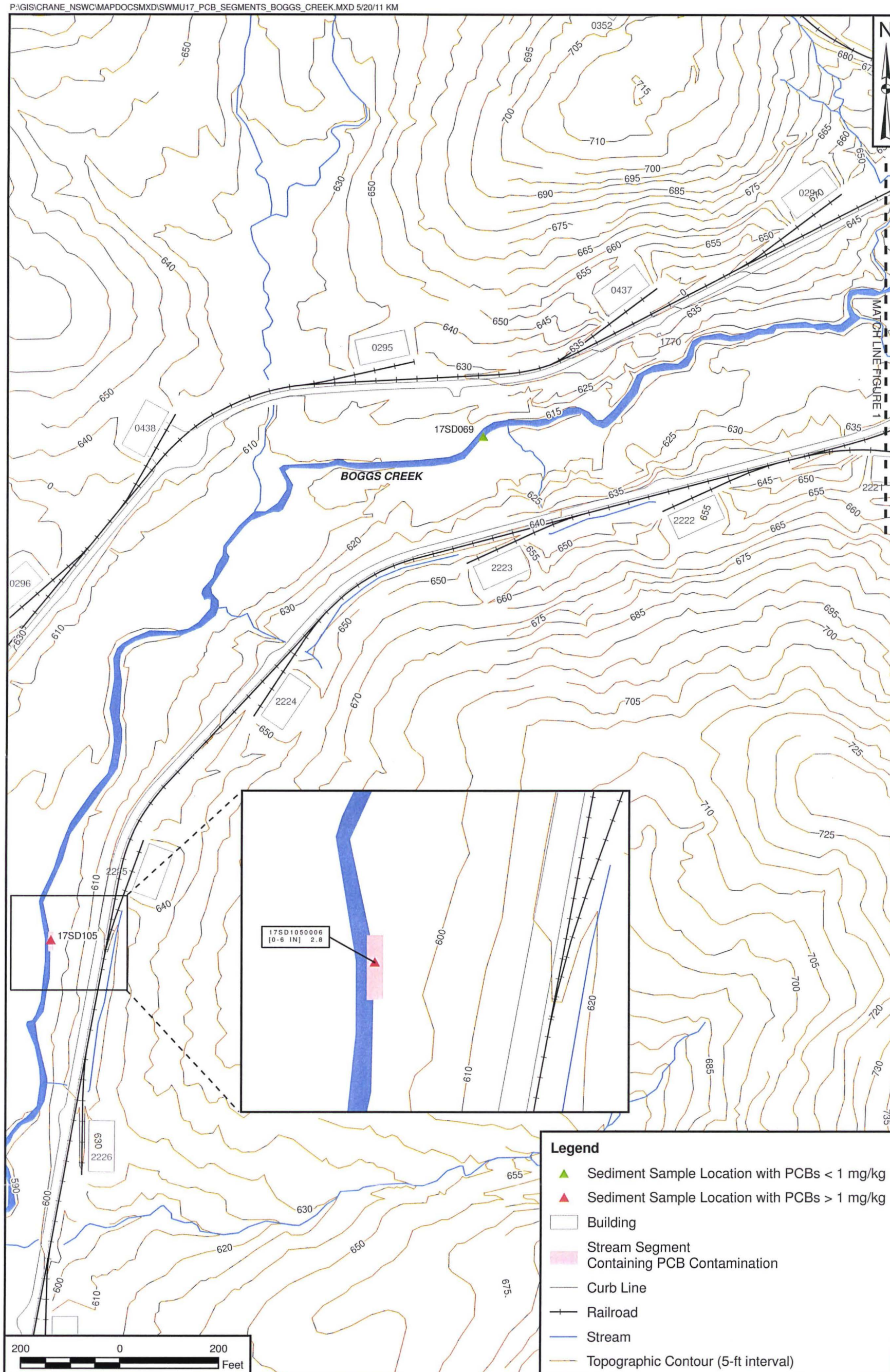

DRAWN BY	DATE
J. ENGLISH	06/18/10
CHECKED BY	DATE
B. COLLINS	5/20/11
REVISED BY	DATE
K. MOORE	5/20/11
SCALE	
AS NOTED	

NAVFAC

AREAS OF CONTAMINATION
SWMU 17 PCB BOGG CREEK
NSA CRANE
CRANE, INDIANA

CONTRACT NUMBER	
CTO 42	
APPROVED BY	DATE
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APPROVED BY	DATE
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FIGURE NO.	REV
FIGURE 2	0

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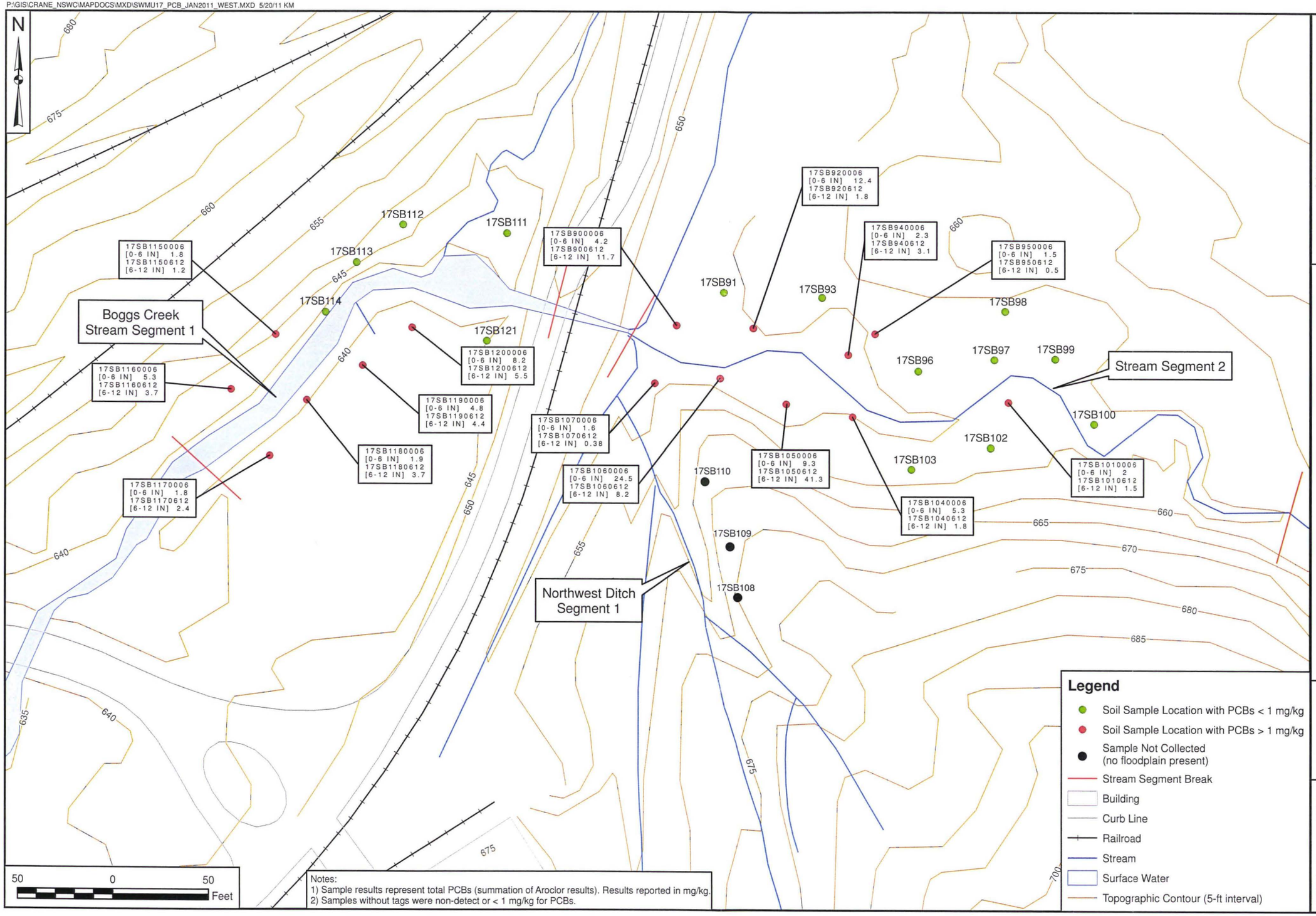

Notes:
1) Sample results represent total PCBs (summation of Aroclor results). Results reported in mg/kg.
2) Samples without tags were non-detect or < 1 mg/kg for PCBs.

CONTRACT NUMBER CTO 42

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FIGURE NO. FIGURE 3

REV 0

JANUARY 2011 SAMPLE RESULTS
SWMU 17 PCB CAPACITOR BURIAL/POLE YARD
NSA CRANE
CRANE, INDIANA

NAVFAC

DRAWN BY J. ENGLISH	DATE 02/04/11		
CHECKED BY A. FINLEY	DATE 5/23/11		
REVISED BY K. MOORE	DATE 5/20/11	SCALE AS NOTED	

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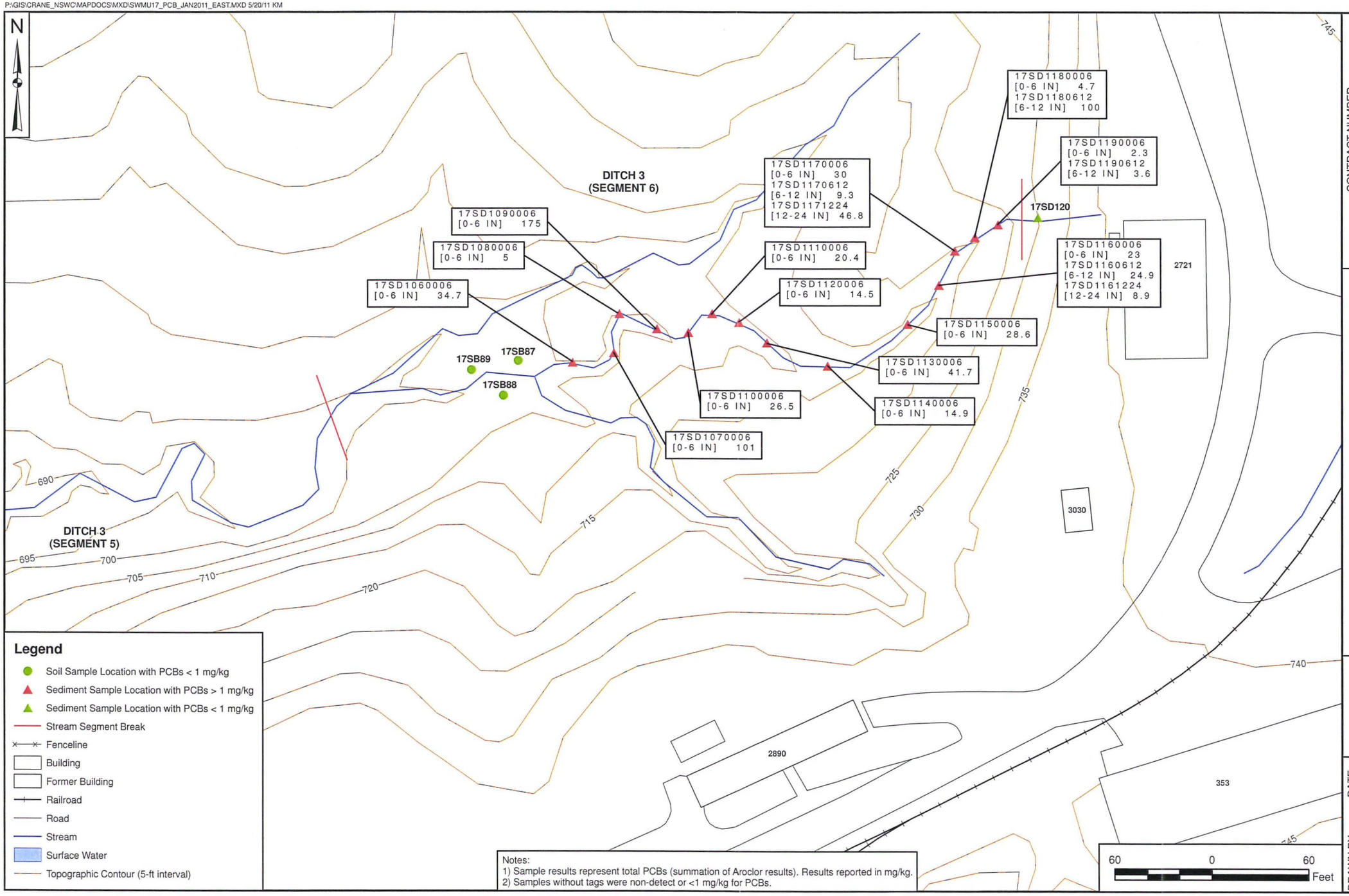

Notes:
1) Sample results represent total PCBs (summation of Aroclor results). Results reported in mg/kg.
2) Samples without tags were non-detect or <1 mg/kg for PCBs.

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FIGURE NO. FIGURE 4

REV 0

JANUARY 2011 SAMPLE RESULTS
SMWU 17 PCB CAPICITOR BURIAL/POLE YARD
NSA CRANE
CRANE, INDIANA

NAVFAC

DRAWN BY J. ENGLISH	DATE 02/04/11	
CHECKED BY A. FINLEY	DATE 5/20/11	
REVISED BY K. MOORE	DATE 5/20/11	SCALE AS NOTED

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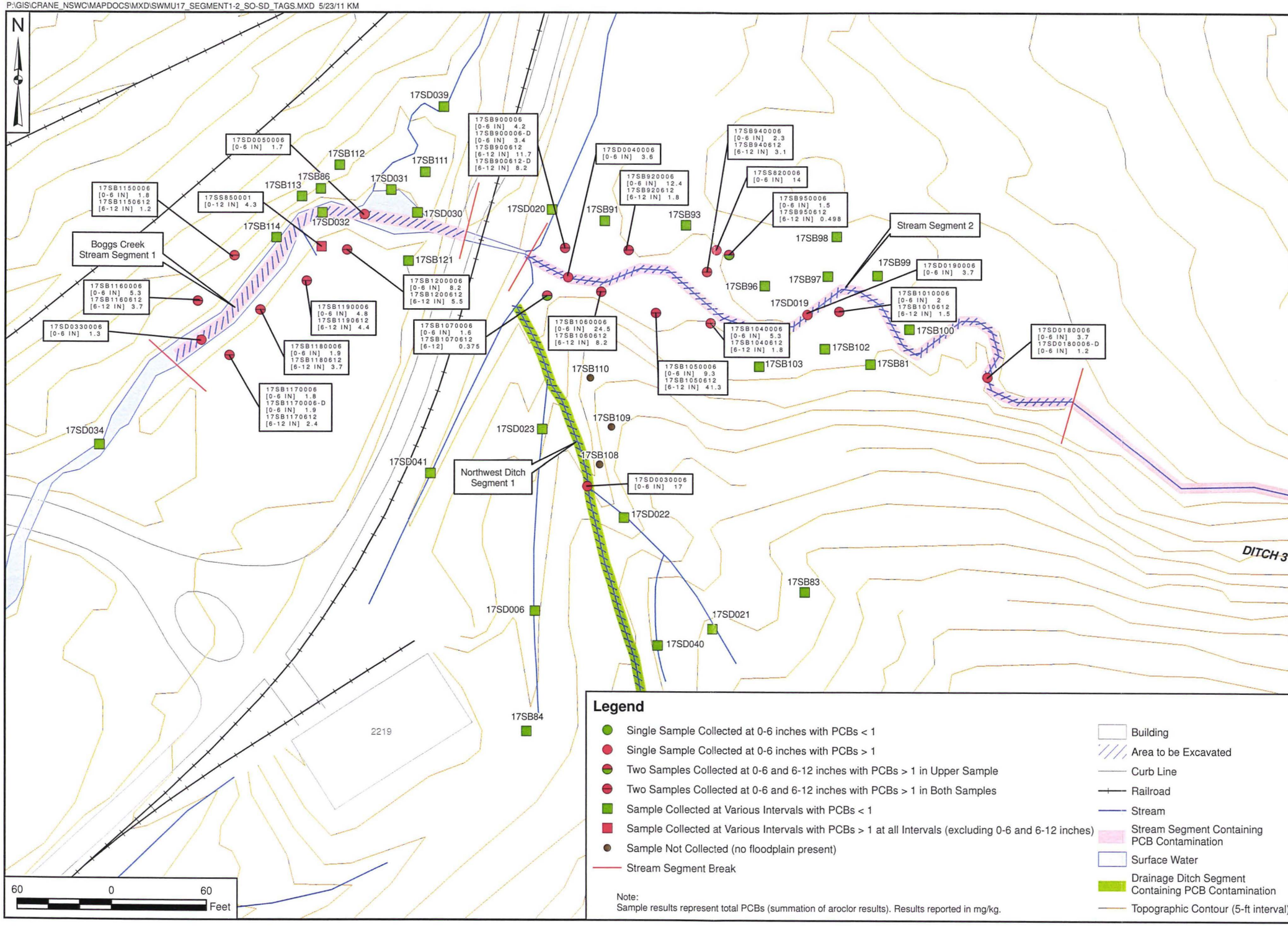

Legend

- Single Sample Collected at 0-6 inches with PCBs < 1
- Single Sample Collected at 0-6 inches with PCBs > 1
- Two Samples Collected at 0-6 and 6-12 inches with PCBs > 1 in Upper Sample
- Two Samples Collected at 0-6 and 6-12 inches with PCBs > 1 in Both Samples
- Sample Collected at Various Intervals with PCBs < 1
- Sample Collected at Various Intervals with PCBs > 1 at all Intervals (excluding 0-6 and 6-12 inches)
- Sample Not Collected (no floodplain present)
- Stream Segment Break
- Building
- Area to be Excavated
- Curb Line
- Railroad
- Stream
- Stream Segment Containing PCB Contamination
- Surface Water
- Drainage Ditch Segment Containing PCB Contamination
- Topographic Contour (5-ft interval)

Note:
Sample results represent total PCBs (summation of aroclor results). Results reported in mg/kg.

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FIGURE NO. FIGURE 5

REV 0

EXTENT OF CONTAMINATION IN SOIL AND SEDIMENT
FIGURE 1 OF 2
SWMU 17 PCB CAPACITOR BURIAL/POLE YARD
NSA CRANE
CRANE, INDIANA

NAVFAC

DRAWN BY J. ENGLISH	DATE 02/04/11	CHECKED BY A. FINLEY	DATE 5/20/11
REVISED BY K. MOORE	DATE 5/20/11	SCALE AS NOTED	

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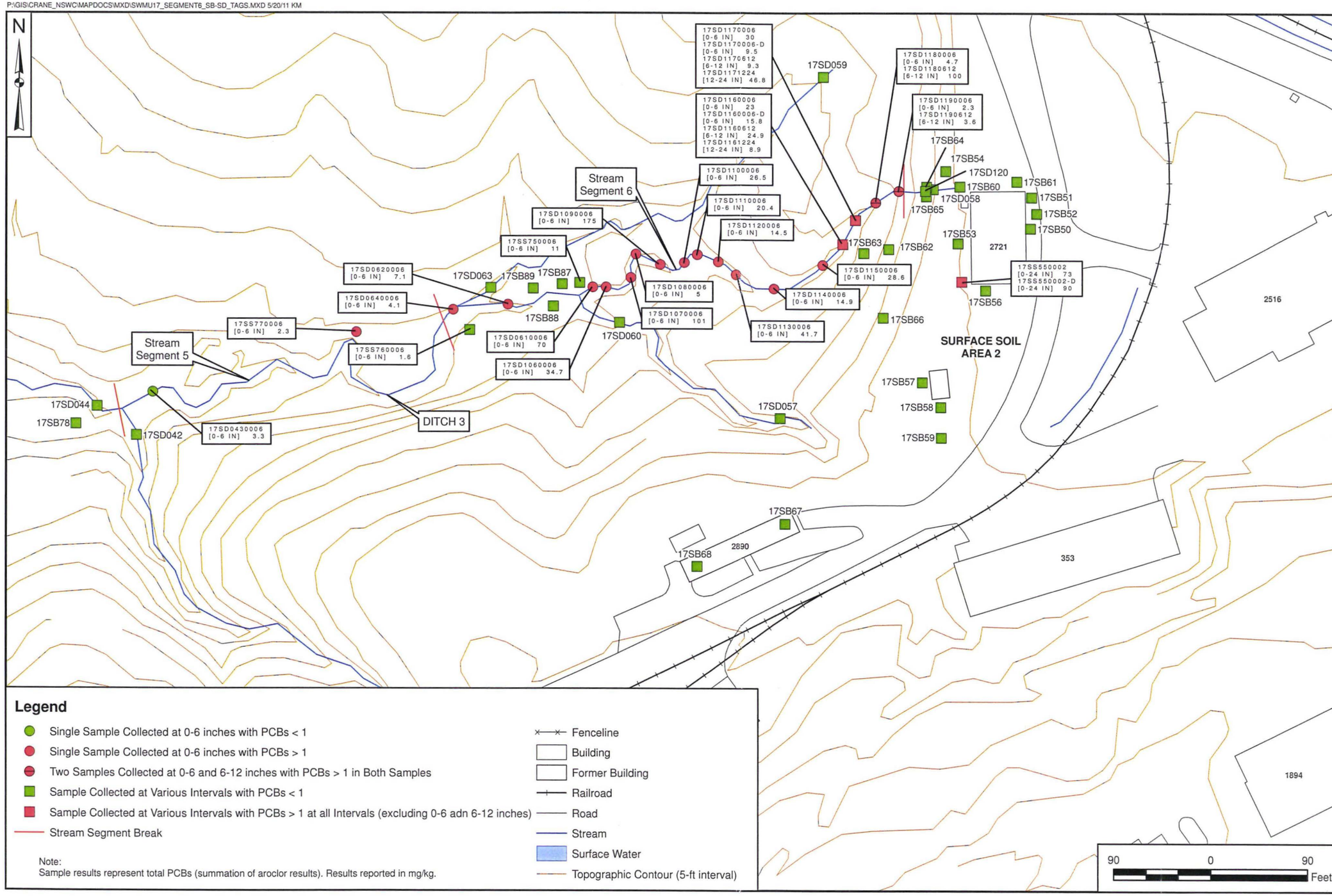

Legend

- Single Sample Collected at 0-6 inches with PCBs < 1
- Single Sample Collected at 0-6 inches with PCBs > 1
- Two Samples Collected at 0-6 and 6-12 inches with PCBs > 1 in Both Samples
- Sample Collected at Various Intervals with PCBs < 1
- Sample Collected at Various Intervals with PCBs > 1 at all Intervals (excluding 0-6 adn 6-12 inches)
- Stream Segment Break
- Fenceline
- Building
- Former Building
- Railroad
- Road
- Stream
- Surface Water
- Topographic Contour (5-ft interval)

Note:
Sample results represent total PCBs (summation of aroclor results). Results reported in mg/kg.

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FIGURE NO. FIGURE 6

REV 0

EXTENT OF CONTAMINATION IN SOIL AND SEDIMENT

FIGURE 2 OF 2

SMWU 17 - PCB CAPACITOR BURIAL/POLE YARD

NSA CRANE

CRANE, INDIANA

NAVFAC

DRAWN BY J. ENGLISH	DATE 02/04/11
CHECKED BY A. FINLEY	DATE 5/23/11
REVISED BY K. MOORE	DATE 5/20/11
SCALE AS NOTED	

APPENDIX A

INVESTIGATION PHOTOGRAPHS

SITE PHOTOGRAPHS
CRANE SWMU 17 ACCESS

Date:	View:	Site:
1/21/2011	NE	SWMU 17 / NSA Crane

View of west end of Stream Segment 2 access, east drainage culvert headwall left center. Field crew standing at sample location 17SB107.

Date:	View:	Site:
1/21/2011	SE	SWMU 17 / NSA Crane

View of NW end of Northwest Ditch, Segment 1. The 3 no sample locations (NS108, 109 & 110) are located on the left side of the drainage ditch.

Date:	View:	Site:
1/21/2011	SE	SWMU 17 / NSA Crane

Same as previous photo from gravel road. View of NW end of Northwest Ditch, Segment 1. The 3 no sample locations (NS108, 109 & 110) are located on the left side of the drainage ditch.

Date:	View:	Site:
1/21/2011	E	SWMU 17 / NSA Crane

View of NW end of Stream Segment 2. Taken from gravel road, head wall of culvert in foreground.

TETRA TECH

SITE PHOTOGRAPHS
CRANE SWMU 17 ACCESS

Date:	View:	Site:
1/21/2011	W	SWMU 17 / NSA Crane

View of E end of Boggs Creek, Stream Segment 1. Taken from gravel road, head wall of culvert in foreground. Note rail road tracks shown on figure 2 have been removed.

Date:	View:	Site:
1/21/2011	E	SWMU 17 / NSA Crane

View of access to center section of Stream Segment 2. Photo taken 150 feet north of west end of Stream Segment 2.

Date:	View:	Site:
1/21/2011	NE	SWMU 17 / NSA Crane

View of W end of Boggs Creek, Stream Segment 1. Taken from gravel road, head wall of west culvert in background. Sample locations 17SB117, 118, 119 were collected on right of creek.

Date:	View:	Site:
1/21/2011	W	SWMU 17 / NSA Crane

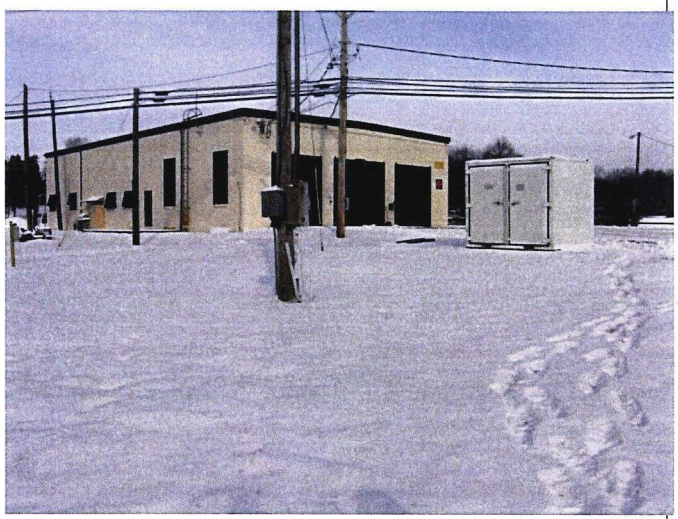
View of area to be excavated. Building 0356 in foreground & bld 0357 in background. Utility pole storage (area to be excavated) in center background.

TETRA TECH

SITE PHOTOGRAPHS
CRANE SWMU 17 ACCESS

Date:	View:	Site:
1/21/2011	W	SWMU 17 / NSA Crane

View of east side (top) of Northwest Ditch.



Date:	View:	Site:
1/21/2011	N	SWMU 17 / NSA Crane

Building 2721, area to be excavated SW corner of building. East end (top) of ditch 3 is out of view to the left.

Date:	View:	Site:
1/21/2011	NW	SWMU 17 / NSA Crane

East end (top) of ditch 3, stream segment 6, sample locations 17SD117, 118 & 119 were collected in small drainage at bottom of utility cut. Note gas line also runs under Ditch 3.

Date:	View:	Site:
1/21/2011	N to NE	SWMU 17 / NSA Crane

Panorama of access to Boggs Creek, Stream Segment 1(left), Northwest Ditch, Segment 1 (right) & Stream Segment 2 (right). Note rail road tracks shown on figure 2 have been removed.

TETRA TECH

APPENDIX B

SAMPLE LOGSHEETS AND OTHER FIELD FORMS

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD1CW00006
Sample Location: 17SD106
Sampled By: T. Rojahn / K. Simpson
C.O.C. No.: 027931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/20/2011 Time: 1010 Method: Plastic Trowel Monitor Reading (ppm): —	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
	0-6"	Brown	Clayey, V. Fine Sandy Silt (ML)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD10700006
Sample Location: 17SD107
Sampled By: T. Bolahn/K. Simpson
C.O.C. No.: 027931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/2011 Time: 1015 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Brown	Clayey Sand (SC) v. fine-coarse

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Taylor

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD10800006
Sample Location: 17SD108
Sampled By: T. Kojohn/K. Simpson
C.O.C. No.: 027931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/20/2011	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1020	0-6"	Brown	Wet, V.F-C. Sandy Clay (SC)
Method: Plastic Trail			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD10900006
Sample Location: 17SD109
Sampled By: T. Rojahn/K. Simpson
C.O.C. No.: 027921

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/20/2011
Time: 1025
Method: Plastic Trowel
Monitor Reading (ppm): —

Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
0-6"	Brown	Wet, Med-coarse sand/clay (SC)

COMPOSITE SAMPLE DATA:

Date:
Method:
Monitor Readings (Range in ppm):

Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Terry Rojahn

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD11000006
Sample Location: 17SD110
Sampled By: T. Roehn/K. Simpson
C.O.C. No.: 027913

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/2011 Time: 1045 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Brown	Wet Clayey Gravel (GC)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FZSD1110006
Sample Location: FZSD111
Sampled By: T. Roach/K. Simpson
C.O.C. No.: 027931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/2011 Time: 1055 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Brown	Wet, V.F-Coarse Sandy Clay (SC)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: FSD1120006
Sample Location: FSD112
Sampled By: T. Rodhn/K. Simpson
C.O.C. No.: 0237931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/20/2011	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1100	0-6"	Brown	Wet, Clayey Gravel (GC)
Method: Plastic Trowel			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): [signature]

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD113000L
Sample Location: 17SD113
Sampled By: K. Simpson / T. Roy
C.O.C. No.: 027932

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 11:03 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Brown	V. Fine Sandy, Clayey Silt (ML) (wet) with organics (OL) + rock fragments

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD1140006
Sample Location: 17SD114
Sampled By: K. Simpson / T. Rojahn
C.O.C. No.: 027932

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 11:08 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Brown	Wet, Clayey Gravel (GC)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~1~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rojahn

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD1150006
Sample Location: 17SD115
Sampled By: T. Bechtel / K. Simpson
C.O.C. No.: 029932

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 12:20 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Brown	V. Fine Sandy Silt (ML) with organics (OL) - wet

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): [signature]

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD1160006
Sample Location: 17SD116
Sampled By: T. Rogalski / K. Simpson
C.O.C. No.: 027932/4590

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 12:25 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Brown	Moist Fine sandy Silt (ML) with organics (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	~~1~~ 2 oz w/m glass, 4°C		
	2-4 oz		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.: 17SDDUP001

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD116061 2
Sample Location: 17SD116
Sampled By: K. Simpson/T. Rojalin
C.O.C. No.: 027932

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 12:27 Method: Plastic Trowel Monitor Reading (ppm): —	~~0-6"~~	Brown	Moist, V. Fine Sandy, Clayey Silt (ML) with organics (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Tony Rojal

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD11601224
Sample Location: 17SD116
Sampled By: T. Rojas-Luna / K. Simpson
C.O.C. No.: 027432

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/20/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1230	12-24"	Brown	Moist, Sandy, Silty Clay (CL) with organics (OL) and rock fragments
Method: ~~Plastic Trowel~~ Hand Core			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-4 oz w/m glass, 4°C		
	4		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD1170006
Sample Location: 17SD117
Sampled By: K. Simpson / T. Rojahn
C.O.C. No.: 027932/4590

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 12:35 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Brown	Moist, Sand (V.Fin-Med.)-Silt (SM) with organics

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	~~1-8~~ oz w/m glass, 4°C		
	2-4		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.: 17SD DUP002

Signature(s):

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 175D1170612
Sample Location: 175D117
Sampled By: K. Simpson/T. Rajahn
C.O.C. No.: 027932

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 12:50 Method: Plastic Trowel Monitor Reading (ppm): —	6-12"	Brown	Wet, Clayey Sand (V. Fine-Coarse) (SC) with gravel

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	~~1/2~~ oz w/m glass, 4°C		
	1-4		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Tony Rajahn

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD1171224
Sample Location: 17SD117
Sampled By: T. Rojahn / K. Simpson
C.O.C. No.: 027932

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 6/20/11 Time: 12:55 Method: Hand Core Monitor Reading (ppm): —	12-24"	Brown	Moist, Sandy-Silty Clay (CL) with gravel pieces

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Tony Rojahn

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD11800006
Sample Location: 17SD118
Sampled By: T. Rohn / K. Simpson
C.O.C. No.: 027932

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/2011 Time: 1300 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Tan-Brown	Wet, V.F.-Coarse Sand, with Silt (SM) and organics (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Tony Rohn

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD118Q612
Sample Location: 17SD118
Sampled By: T. Rojahn / K. Simpson
C.O.C. No.: 027932

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/2011 Time: 1303 Method: Plastic Trowel Monitor Reading (ppm): —	6-12"	Tan-Brown	Wet, Silty, V. Fine-Med Sand (SM)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): T. Rojahn

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD1190006
Sample Location: 17SD119
Sampled By: T. Rozahn/K. Simpson
C.O.C. No.: 027931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/2011 Time: 1306 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Tan-Brown	Wet, Clayey Gravel (GC) with Organics

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Terry Rozahn

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD119061 2
Sample Location: 17SD119
Sampled By: T. Roighn/K. Simpson
C.O.C. No.: 0279932

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/2011 Time: 1310 Method: Plastic Trowel Monitor Reading (ppm): —	6-12"	Brown	Wet, Clayey Gravel (GC)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rozal

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD120000 6
Sample Location: 17SD120
Sampled By: T. Roybin/K. Jimpson
C.O.C. No.: ~~0621982~~ 4590

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/20/2011	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 1315	0-6"	Brown	Gravel/clay (Moist) (GC)
Method: Plastic Trowel			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rogal

Tetra Tech NUS, Inc.

SEDIMENT SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[ ] Surface Soil
[ ] Subsurface Soil
[X] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SD120 0612
Sample Location: 17SD120
Sampled By: T. Rolahn / K. Simpson
C.O.C. No.: 02-7932 4590

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/2011 Time: 1318 Method: Plastic Trowel Monitor Reading (ppm): —	6-12"	Brown	Wet, gravel/clay (GC), rock pieces

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB87c006
Sample Location: 17SB87
Sampled By: T. Rogahn / K. Simpson
C.O.C. No.: 057931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 10:05 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Brown	Moist, Silt/V. Fine sand (ML) with some organics (topsoil) (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE Location PHOTO

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Tony Rogahn

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB870612
Sample Location: 17SB87
Sampled By: K. Simpson / T. Rai[illegible]
C.O.C. No.: 027931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 10:07 Method: Plastic Trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, Silt (ML) with rock fragments

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

[signature]

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB880006
Sample Location: 17SB88
Sampled By: K. Simpson / T. Royal
C.O.C. No.: 027931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/20/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 10:00	0-6"	Brown	Moist, Silt/Vi Fine Sand (ML) with organics (OL)
Method: Plastic Trowel			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

SEE Location PHOTO

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB88C012
Sample Location: 17SB88
Sampled By: T. Rajchan / K. Sjay
C.O.C. No.: 027931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 10:02 Method: Plastic Trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, Silt/V. Fine Sand (ML) with organics (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to Extract & Hold

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rajchan

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB890006
Sample Location: 17SB89
Sampled By: T. Rojicka / K. Simpson
C.O.C. No.: 027931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/20/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time: 0955 Method: Plastic Trowel Monitor Reading (ppm): —	0-6"	Brown	Moist, Silt/V.F. Sand (ML) with topsoil organics (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-8oz w/m glass, 4°C		
	4		

OBSERVATIONS / NOTES:

SEE LOCATION PHOTO

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Terry Rojicka

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB890612
Sample Location: 17SB89
Sampled By: K. Simpson / T. Rojas
C.O.C. No.: 027931

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/20/11 Time: 0957 Method: Plastic Trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, Silt with rock fragments (ML)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rojas

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB9000006
Sample Location: 17SB90
Sampled By: TR-LF
C.O.C. No.: 4589 E 4074

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1310 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

~~MS/MSD~~ —

* Duplicate ID No.: 17SBDUP002

Signature(s):

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 175B900612
Sample Location: 175B90
Sampled By: TR-LF
C.O.C. No.: 4589 & 4074

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1313 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, Organic Silt (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to Extract & HOLD

MAP:

Circle if Applicable:

MS/MSD: —

Duplicate ID No.: *175BDUP003

Signature(s):

Terry Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB910006
Sample Location: 17SB91
Sampled By: TR-LF
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1315 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL) Topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Lynch

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB910012
Sample Location: 17SB91
Sampled By: TR-LF
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1318 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, organic clayey silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to Extract & Hold

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Terry Rogers

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB9200006
Sample Location: 17SB92
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1320 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Tay Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB920012
Sample Location: 17SB92
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1323 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, Clayey Silt (ML) organics

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Terry Regal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB9300006
Sample Location: 17SB93
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1325 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Terry Rozell

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB930012
Sample Location: 17SB93
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1328 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Tan-Brown	Moist, Silty Clay (CL), some organics

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Troy Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB940006
Sample Location: 17SB94
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1330 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, organic clayey silts (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB94006/2
Sample Location: 17SB94
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1333 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Wet, Clayey Gravel (GV)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tony Rozak

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB9500006
Sample Location: 17SB95
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1335 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt(OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rosal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB950612
Sample Location: 17SB95
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1338 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, Organic Clayey Silt (OL)+topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Ty Rozel

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB960000
Sample Location: 17SB96
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1340 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- 8 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD yes

~~Duplicate ID No.:~~

Signature(s):

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB96002012
Sample Location: 17SB96
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1343 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, organic Silt (OL) slightly clayey

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB9700006
Sample Location: 17SB97
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1345 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL)+topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Tony Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB970612
Sample Location: 17SB97
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1348 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, organic silt (OL) + topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Tony Rojahn

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB980006
Sample Location: 17SB98
Sampled By: TR-LF
C.O.C. No.: 4072

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1350 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rogers

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB980612
Sample Location: 17SB98
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1353 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Terry Rogahi

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB9900006
Sample Location: 17SB99
Sampled By: TR-LF
C.O.C. No.: 4073 & 4074

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1355 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: 17SB0MP004

Signature(s): Terry Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SBCP0612
Sample Location: 17SB99
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1358 Method: PLASTIC MACHEL Monitor Reading (ppm): —	6-12"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tony Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB10000006
Sample Location: 17SB100
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1400 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Wet Well-graded Gravel (GW) little fines

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rogers

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB100006/2
Sample Location: 17SB100
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1405 Method: PLASTIC TRAVEL Monitor Reading (ppm): —	6-12"	Brown	Wet, Well-graded Gravel (GW) little fines

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & Hold

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB10100006
Sample Location: 17SB101
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1405 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, organic Silt (OL) + topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Tony Lopez

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB1010012
Sample Location: 17SB101
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1408 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to HOLD AFTER Extraction!

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rozell

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB10200006
Sample Location: 17SB102
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1410 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, organic silt (OL) + topsoil with rock fragments

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- 8 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD YES

Duplicate ID No.:

Signature(s): Terry Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB102012
Sample Location: 17SB102
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1413 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, Organic Silt (OL) topsoil with rock fragments.

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- 8 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD YES

Duplicate ID No.:

Signature(s): Ty Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB103000010
Sample Location: 17SB103
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/21/2011
Time: 1445
Method: PLASTIC TROWEL
Monitor Reading (ppm): —

Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
0-6"	Brown	Moist, organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:
Method:
Monitor Readings (Range in ppm):

Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Terry Lozal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB1030612
Sample Location: 17SB103
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1418 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, organic silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to Extract & HOLD

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Ted Kozak

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB104000b
Sample Location: 17SB104
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/21/2011
Time: 1420
Method: PLASTIC TROWEL
Monitor Reading (ppm): —

Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:
Method:
Monitor Readings (Range in ppm):

Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Terry Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB104Q012
Sample Location: 17SB104
Sampled By: TR-LF
C.O.C. No.: 4073

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/21/2011
Time: 1423
Method: PLASTIC TROWEL
Monitor Reading (ppm): —

Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
6-12"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to Extract & Hold

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Ty Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB1050000
Sample Location: 17SB105
Sampled By: TR-LF
C.O.C. No.: 4074

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1425 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Brown	Moist, organic silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB1050612
Sample Location: 17SB105
Sampled By: TR-LF
C.O.C. No.: 4074

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1428 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Ty Rogers

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB10000006
Sample Location: 17SB106
Sampled By: TR-LF
C.O.C. No.: 4074

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 01/21/2011
Time: 1430
Method: PLASTIC TROWEL
Monitor Reading (ppm): —

Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:
Method:
Monitor Readings (Range in ppm):

Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s): Terry Rogers

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB1060012
Sample Location: 17SB106
Sampled By: TR-LF
C.O.C. No.: 4074

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1433 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Brown	Moist, organic silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to Extract & Hold

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Terry Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB10700006
Sample Location: 17SB107
Sampled By: TR-LF
C.O.C. No.: 4074

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1438 Method: PLASTIC TROWEL Monitor Reading (ppm): —	0-6"	Tan	Gravel-V. Fine Sand-Clay Mixtures (GC) Moist

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Lozak

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB107060612
Sample Location: 17SB107
Sampled By: TR-LF
C.O.C. No.: 4074

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 01/21/2011 Time: 1438 Method: PLASTIC TROWEL Monitor Reading (ppm): —	6-12"	Tan	Moist Gravel - v. fine sand - clay mixture (GC)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- 8 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Terry Rock

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

~~[X] Surface Soil~~ TR
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB —
Sample Location: 17SB108
Sampled By: TR-LF
C.O.C. No.: —

Type of Sample:
~~[X] Low Concentration~~ TR
[] High Concentration

GRAB SAMPLE DATA:

Date: 1/21/11	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Time:	—	—	—
Method: PLASTIC TROWEL			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- 8 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

No SAMPLE Collected
Not IN Flood plAIN

MAP:

SEE PHOTO BY K.Simpson

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

~~[X] Surface Soil~~ (TR)
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB
Sample Location: 17SB109
Sampled By: TR-LF
C.O.C. No.: —

Type of Sample:
~~[X] Low Concentration~~ (TR)
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11			
Time: —	—	—	—
Method: PLASTIC TROWEL			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- 8 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

No SAMPLE Collected
Not Floodplain

MAP:

SEE PHOTO by K. SIMPSON

Circle if Applicable:

MS/MSD — Duplicate ID No.: —

Signature(s): Troy Legal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

~~[X] Surface Soil~~ (TR)
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB
Sample Location: 17SB 110
Sampled By: TR-LF
C.O.C. No.: —

Type of Sample:
~~[X] Low Concentration~~ (TR)
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11			
Time: —	—	—	—
Method: PLASTIC TROWEL			
Monitor Reading (ppm): —			

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- 8 oz w/m glass, 4°C	✓	

OBSERVATIONS / NOTES:

No SAMPLE Collected
Not IN Flood plain

MAP:

SEE PHOTO By K. Simpson

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Ty Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB111 0006
Sample Location: 17SB111
Sampled By: TR/LF
C.O.C. No.: 4588

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 0950 Method: Plastic travel Monitor Reading (ppm): —	0-6"	Brown	Moist, organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ oz w/m glass, 4°C 4		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rozahn

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB111 0612
Sample Location: 17SB111
Sampled By: TR/LF
C.O.C. No.: 4588

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 0953 Method: plastic trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, Gravel and Clay (GC)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD —

Duplicate ID No.: —

Signature(s):

Terry Rozal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB112 0006
Sample Location: 17SB112
Sampled By: TR/LF
C.O.C. No.: 4588

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1000 Method: Plastic trowel Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB1120612
Sample Location: 17SB112
Sampled By: TR/LF
C.O.C. No.: 4588

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1003 Method: Plastic trowel Monitor Reading (ppm): —	6-12"	Brown	Clay and Gravel (SC) Moist

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to Extract & Hold

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 175B1130006
Sample Location: 175B113
Sampled By: TR/LF
C.O.C. No.: 4588

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 1/21/11
Time: 1010
Method: Plastic trowel
Monitor Reading (ppm): —

Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
0-6"	Brown	Moist, organic silt (OL)

COMPOSITE SAMPLE DATA:

Date:
Method:
Monitor Readings (Range in ppm):

Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB113062
Sample Location: 17SB113
Sampled By: TR/LE
C.O.C. No.: 4598

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1013 Method: Plastic trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, organic Silty clay (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to Extract & Hold

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Terry Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB114-0006
Sample Location: 17SB114
Sampled By: TR/LF
C.O.C. No.: 4588

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1015 Method: Plastic trowel Monitor Reading (ppm): —	0-6"	Brown	Moist organic silt (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB114062
Sample Location: 17SB114
Sampled By: TR/LF
C.O.C. No.: 4588

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1014 Method: Plastic trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, gravel and clay (GC)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to EXTRACT AND HOLD

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Ropahr

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB115 0006
Sample Location: 17SB115
Sampled By: TR/LF
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1020 Method: Plastic trowel Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rogah

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB115 0612
Sample Location: 17SB115
Sampled By: TR/LF
C.O.C. No.: 4588

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1023 Method: Plastic trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, very fine sandy clay (CL), with gravel pieces

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Terry Rozak

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB116000b
Sample Location: 17SB116
Sampled By: TR/LF
C.O.C. No.: 4588

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1030 Method: Plastic trowel Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1-~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rozahn

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB116062
Sample Location: 17SB116
Sampled By: TR/LF
C.O.C. No.: 4588

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1133 Method: Plastic trowel Monitor Reading (ppm): —	6-12	Brown	Moist, silty clay (CL), gravel pieces

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Lopez

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 175B117D006
Sample Location: 175B117
Sampled By: TR/LF
C.O.C. No.: 4588 & 4074

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1035 Method: Plastic trowel Monitor Reading (ppm): —	0-6"	Brown	Moist, organic Silt (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	175B DUP 001

Signature(s): Troy Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB1170612
Sample Location: 17SB117
Sampled By: TR/LF
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/27/11 Time: 1036 Method: Plastic trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, organic Silt (OL)

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to Extract & Hold

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Terry Lozal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB118006
Sample Location: 17SB118
Sampled By: TR/LF
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/2/11 Time: 1040 Method: Plastic trowel Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Terry Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB118Ø612
Sample Location: 17SB118
Sampled By: TR/LF
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1042 Method: Plastic trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, Organic Silt (OL) Topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to Extract & Hold

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s):

Terry Royal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB1190006
Sample Location: 17SB119
Sampled By: TR/LF
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

Date: 1/21/11
Time: 1045
Method: Plastic trowel
Monitor Reading (ppm): —

Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:
Method:
Monitor Readings (Range in ppm):

Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- 8 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD YES

Duplicate ID No.: —

Signature(s): Terry Lopez

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB119042
Sample Location: 17SB119
Sampled By: TR/LF
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1048 Method: Plastic trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, organic silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB120006
Sample Location: 17SB120612
Sampled By: TR/LF
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1050 Method: Plastic trowel Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s):

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB120061 2
Sample Location: 17SB120
Sampled By: TR/LF
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1053 Method: Plastic trowel Monitor Reading (ppm): —	6-12	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to EXTRACT & HOLD

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:
—	—

Signature(s): Ty Rogal

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB121006
Sample Location: 17SB121012
Sampled By: TR/LF
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1058 Method: Plastic trowel Monitor Reading (ppm): —	0-6"	Brown	Moist, Organic Silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

MAP:

Circle if Applicable:

MS/MSD

Duplicate ID No.:

Signature(s): Terry Lozoit

Tetra Tech NUS, Inc.

SOIL SAMPLE LOG SHEET

Project Site Name: NSA Crane, SWMU 17
Project No.: 112G00477

[X] Surface Soil
[ ] Subsurface Soil
[] Sediment
[] Other:
[] QA Sample Type:

Sample ID No.: 17SB121061 2
Sample Location: 17SB121
Sampled By: TR/LE
C.O.C. No.: 4589

Type of Sample:
[X] Low Concentration
[] High Concentration

GRAB SAMPLE DATA:

	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Date: 1/21/11 Time: 1100 Method: Plastic trowel Monitor Reading (ppm): —	6-12"	Brown	Moist, organic silt (OL) topsoil

COMPOSITE SAMPLE DATA:

Date:	Time	Depth	Color	Description (Sand, Silt, Clay, Moisture, etc.)
Method:				
Monitor Readings (Range in ppm):				

SAMPLE COLLECTION INFORMATION:

Analysis	Container Requirements	Collected	Other
PCBs	1- ~~8~~ 4 oz w/m glass, 4°C		

OBSERVATIONS / NOTES:

LAB to Extract & HOLD

MAP:

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s): Terry Rogan

Tetra Tech NUS, Inc.

QA SAMPLE LOG SHEET

Project Site Name: NSA CRANE
Project Number: 112G00477
Sample Location: —
QA Sample Type:

Sample ID Number: 17RB01
Sampled By: K. SIMPSON
C.O.C. Number: 4074

[] Trip Blank
[] Source Water Blank
[■] Rinsate Blank
[] Other Blank

SAMPLING DATA:

Date: 1-21-11
Time: 1620
Method: POUR OVER EQUIPMENT

WATER SOURCE:

[] Laboratory Prepared
[■] Purchased
[] Other
[] Tap
[] Fire Hydrant

PURCHASED WATER INFORMATION (If Applicable as Source or Rinsate Water):

Product Name: NERL DI
Supplier: NERL
Manufacturer: NERL
Order Number: —
Lot Number: 963566
Expiration Date: 11/2011

RINSATE INFORMATION (If Applicable):

Media Type: SOIL
Equipment Used: HAND CORER (Stainless Steel)
Equipment Type:
[] Dedicated
[■] Reusable

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Container Requirements	Collected
Volatiles	Cool 4°C & HCl		YES / NO
Semivolatiles	Cool 4°C		YES / NO
~~Pesticide~~ PCB ONLY	Cool 4°C	(2) 1L AMBER GLASS	YES / NO
Metals	Cool 4°C & HNO_3		YES / NO
Cyanide	Cool 4°C & NaOH		YES / NO

OBSERVATIONS / NOTES:

Signature(s):

TITLE SWMU 17 PCB POLE YARD

PROJECT NO. 11260047

BOOK 2632

WED 1-19-11

Work continued from Page

WEATHER: Cloudy w/ Lt. Snow, TEMP. 30s

0810 Hrs - Meet w/ R. Basinski Discuss prioritizing SWMU 17 due to forecast of snow

0840 Hrs - Prep to recon and lay out SWMU 17 sampling locations at Segment 6, Ditch 3

0935 Hrs - Arrived @ SWMU 17 - Lay out & photograph 16 sediment & 3 surface soil locations and measure sediment depth & width (see page 81 for details)

1230 Hrs - Finish layout @ SWMU 17 with L. Foster & K. Smith

END

SCIENTIFICBINDERY88YRS.COM

Work continued to Page

SIGNATURE Terry Rogal DATE 1-19-11

WITNESS DATE

TITLE

PROJECT NO. 11260047

BOOK 2632

WED 1-19-11 Con't

Work continued from Page

SEDIMENT & SOIL LOG

LAY OUT LOCATION	SAMPLE ID	Width (SEDIMENT)	DEPTH	PHOTO ID
A	SD 120	5'	1.15'	614
B	SD 119	3.5	1.1	615
C	SD 118	3	1.0	616
D	SD 117	12	1.5	617
E	SD 116	5	0.8	618
F	SD 115	2	0.2	619
G	—	0	0	620
H	SD 114	4	0.45	621, 625, 62
I	SD 113	8	0.2	624
J	SD 112	10	0.4	622
K	SD 111	4	0.3	623
L	SD 110	4	0.5	627
M	SD 109	4	0.2	628
N	SD 108	3.5	0.5	629
O	SD 107	4	0.3	630
P	SD 106	12	0.4	631
1	SB 87	NA	NA	632 ON Rig
2	SB 88	↓	↓	KS@2
3	SB 89	↓	↓	LF@

END

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Work continued to Page

SIGNATURE Terry Rogal DATE 1-19-11

WITNESS DATE

TITLE ~~HAS~~ CRANE SWMU 17 PCB POLE YARD

PROJECT NO. 112G00477

BOOK 2632

THURS 1-20-11

Work continued from Page WEATHER - SNOW and 30s

0720 Hrs - ARRIVE @ FIELD TRAILER
- PREP to SAMPLE SEDIMENT & SOIL @ SEGMENT 6 Ditch 3 w/K. SIMPSON
- L. FOSTER & K. SMITH PREP to LAY OUT SOIL LOCATIONS IN Floodplain @ BOGGS CREEK STREAM SEGMENT 1 & 2 and DRAINAGE ~~Ditch~~ CHANNEL SEGMENT 1

0935 Hrs - TC & K. SIMPSON ARRIVE @ SWMU 17 SEGMENT 6 Ditch 3 Collect SOIL SAMPLES FROM LOCATIONS SB 87 - SB 89 & SEDIMENT SAMPLES FROM LOCATIONS 17SD 106 → 114

1120 Hrs - BREAK FOR LUNCH

1200 HRS - RETURN to SEGMENT 6 Ditch 3 Collect SEDIMENTS @ LOCATIONS 17SD 115 - 120

1345 Hrs - RETURN to FIELD TRAILER Complete COCs 027931, 027932 and 4590 & SAMPLE HANDLING

END

SCIENTIFICBINDERY88YRS.COM

Work continued to Page

SIGNATURE Terry Rogers

DATE 1-20-11

WITNESS

DATE

TITLE ~~HAS~~ CRANE SWMU 17 PCB POLE YARD

PROJECT NO. 112G00477

BOOK 2632

FRI 1-21-11

Work continued from Page WEATHER mostly SUNNY Low TEENS

0730 Hrs - ARRIVE @ FIELD TRAILER PREP to SAMPLE SOIL IN Floodplain @ SWMU 17 BOGG CREEK STREAM SEGMENT 1 & DRAINAGE CHANNEL SEGMENT 1 & STREAM SEGMENT 2

0930 Hrs - ARRIVE @ SWMU 17
- SAMPLE LOCATIONS 17SB111 - 121
- DETERMINED that 3 of the 4 sample locations IN the Northwest DRAINAGE CHANNEL WERE NOT in the Floodplain... SAMPLES NOT SAMPLED (17SB108 - 110)

1115 Hrs - BREAK FOR LUNCH DECON TROWELS AND PREP to SAMPLE SOIL

1250 Hrs - RETURN to SWMU 17, Collect SOIL SAMPLES @ LOCATIONS 17SB90 - 10[illegible]

1445 Hrs - COMPLETED SAMPLING @ SWMU 1[illegible] W/ L.F; THEN met w K. SIMPSON to TAKE PHOTOS OF ALL EXCAVATION SITES RELATED to the SWMU

1530 Hrs - FINISH TAKING PHOTOS @ SWMU 17 K. SIMPSON to PROCESS 15 PHOTOS RELATED to the SITE

1580 Hrs - RETURN to FIELD TRAILER - SAMPLE HANDLING

1730 Hrs - LEFT SITE FOR FEDEX (SHIP SWMU SAMPLES

SCIENTIFICBINDERY88YRS.COM

Work continued to Page

SIGNATURE Terry Rogers

DATE 1-21-11

WITNESS

DATE

TITLE Nov to Dec SUMMIT Cont

PROJECT NO. 11260477

BOOK 2632

Work continued from Page

SAT 1-22-11

- E. BERKLITE & K. Smith
  PROCESS SAMPLES

SUN 1-23-11

- L. FOSTER & K. Simpson
  GPS SAMPLE locations &
  PHYSICAL FEATURES
- T. ROJAHN - PAPERWORK

MON 1-24-11

- PACKAGE & SHIP SAMPLES
  ON COFCs 027931, 027932,
  4590, 4074, 40743, 40742,
  4588 & 4589 VIA FEDEX
  8747 4934 3509 to
  EMPIRICAL LABS.

END

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Work continued to Page

SIGNATURE

DATE

WITNESS

DATE

TITLE

PROJECT NO.

BOOK

Work continued from Page

SCIENTIFICBINDERY88YRS.COM

Work continued to Page

SIGNATURE

DATE

WITNESS

DATE

TETRA TECH NUS, INC. CHAIN OF CUSTODY NUMBER № 027931 PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
1126-00477	NSA CRANE	STEVE RUFFING	412 921 8989	EMPERICAL LAB / KIM KOSTZER
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		TERRY ROJAHN	412 921 8857	621 MAINSTREAM DRIVE
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FEDEX 8747 4934 3509		NASHVILLE, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 0°C

DATE YEAR 2011	TIME	SAMPLE ID (SWMU 17)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PCBs								COMMENTS
1/20	0955	17SB89 0006	SB89	0	0.5	SO	G	1	1								
1/20	0957	17SB89 0612	SB89	0.5	1	SO	G	1	1								*
1/20	1000	17SB88 0006	SB88	0	0.5	SO	G	1	1								
1/20	1002	17SB88 0612	SB88	0.5	1	SO	G	1	1								*
1/20	1005	17SB87 0006	SB87	0	0.5	SO	G	1	1								
1/20	1007	17SB87 0612	SB87	0.5	1	SO	G	1	1								*
1/20	1010	17SD106 0006	SD106	0	0.5	SD	G	1	1								
1/20	1015	17SD107 0006	SD107	0	0.5	SD	G	1	1								
1/20	1020	17SD108 0006	SD108	0	0.5	SD	G	1	1								
1/20	1025	17SD109 0006	SD109	0	0.5	SD	G	1	1								
1/20	1045	17SD110 0006	SD110	0	0.5	SD	G	1	1								
1/20	1055	17SD111 0006	SD111	0	0.5	SD	G	1	1								
1/20	1100	17SD112 0006	SD112	0	0.5	SD	G	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	1-24-11	1830	1. RECEIVED BY FEDEX	1-24-11	1830
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS * Extract and hold for Analysis - All SBS ENDING IN 0612. Analize All others

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER № 027932 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00477 (TR)	~~NAS~~ NSA CRANE	STEVE RUFFING	412 921-8989	EMPIRICAL LAB / KIM KOSTZER
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		TERRY ROJAHN	412 921-8857	621 MAINSTREAM DRIVE
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX AB# 8747 4934 3509		NASHVILLE, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: not k

DATE YEAR 2011	TIME	SAMPLE ID (SWMU 17)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PCBs								COMMENTS
1/20	1103	17SD113 0006 (TR)	SD113 ~~SD13~~	0	0.5	SD	G	1	1								
1/20	1108	17SD114 0006	SD114	0	0.5	SD	G	1	1								
1/20	1220	17SD115 0006	SD115	0	0.5	SD	G	1	1								
1/20	1225	17SD116 0006	SD116	0	0.5	SD	G	2	2								Do MS/MSD
1/20	1227	17SD116 0612	SD116	0.5	1	SD	G	1	1								
1/20	1230	17SD116 1224	SD116	1	2	SD	G	1	1								
1/20	1235	17SD117 0006	SD117	0	0.5	SD	G	2	2								Do MS/MSD
1/20	1250	17SD117 0612	SD117	0.5	1	SD	G	1	1								
1/20	1255	17SD117 1224	SD117	1	2	SD	G	1	1								
1/20	1300	17SD118 0006	SD118	0	0.5	SD	G	1	1								
1/20	1303	17SD118 0612	SD118	0.5	1	SD	G	1	1								
1/20	1306	17SD119 0006	SD119	0	0.5	SD	G	1	1								
1/20	1310	17SD119 0612	SD119	0.5	1	SD	G	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	1-24-11	1830	1. RECEIVED BY FED EX	1-24-11	1830
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TINUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 4590 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00477 (TA)	NSA ~~NAS~~ CRANE	Steve RUFFING	412 921 8989	EMPIRICAL LAB / KIM KOSTZER
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		TERRY ROJAHN	412 921 8857	621 MAINSTREAM DRIVE
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX AB # 8747 4934 3509		NASHVILLE, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: K°C

DATE YEAR 2011	TIME	SAMPLE ID (SWMU 17)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PCBs								COMMENTS
1/20	1315	17SD120 0006	SD 120	0	0.5	SD	G	1	1								
1/20	1318	17SD120 0612	SD 120	0.5	1	SD	G	1	1								
1/20	0000	17SD DUP00[illegible]	QC	–	–	SD	G	1	1								FROM 17SD116 0006
1/20	0000	17SD DUP 002	QC	–	–	SD	G	1	1								17SD 117 0006

1. RELINQUISHED BY	DATE 1-24-11	TIME 1830	1. RECEIVED BY FED EX	DATE 1-24-11	TIME 1830
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

FORM TNU

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 4588 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00477	NSA CRANE	STEVE RUFFING	412 921 8989	EMPIRICAL / KIM KOSTZER
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		T. ROJAHN	412 921 8857	621 MAINSTREAM DRIVE
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX AB # 8747 4934 3509		NASHVILLE, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 0C

DATE YEAR 2011	TIME	SAMPLE ID (SWMU 17)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PCBs								COMMENTS
1/21	0950	17SB111 0006	SB111	0	0.5	SO	G	1	1								
1/21	0953	17SB111 0612	SB111	0.5	1	SO	G	1	1								*
1/21	1000	17SB112 0006	SB112	0	0.5	SO	G	1	1								
1/21	1003	17SB112 0612	SB112	0.5	1	SO	G	1	1								*
1/21	1010	17SB113 0006	SB113	0	0.5	SO	G	1	1								
1/21	1013	17SB113 0612	SB113	0.5	1	SO	G	1	1								*
1/21	1015	17SB114 0006	SB114	0	0.5	SO	G	1	1								
1/21	1018	17SB114 0612	SB114	0.5	1	SO	G	1	1								*
1/21	1020	17SB115 0006	SB115	0	0.5	SO	G	1	1								
1/21	1023	17SB115 0612	SB115	0.5	1	SO	G	1	1								*
1/21	1030	17SB116 0006	SB116	0	0.5	SO	G	1	1								
1/21	1033	17SB116 0612	SB116	0.5	1	SO	G	1	1								*
1/21	1035	17SB117 0006	SB117	0	0.5	SO	G	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	1-24-11	1830	1. RECEIVED BY FED EX	1-24-11	
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: EXTRACT AND HOLD FOR ANALYSIS - ALL SBS ENDING IN 0612. ANALIZE ALL OTHERS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. CHAIN OF CUSTODY | NUMBER 4589 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00477	NSA CRANE	STEVE RUFFING	412 921 8989	EMPIRICAL / KIM KOSTZER
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		T. ROJAHN	412 921 8857	621 MAINSTREAM DRIVE
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX AB # 8747 4934 3509		NASHVILLE, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

TYPE OF ANALYSIS: PCBs

DATE YEAR 2011	TIME	SAMPLE ID (SWMU 17)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	PCBs								COMMENTS
1/21	1038	17SB117 0612	SB 117	0.5	1	SO	G	1	1								*
1/21	1040	17SB118 0006	SB 118	0	0.5	SO	G	1	1								
1/21	1042	17SB118 0612	SB 118	0.5	1	SO	G	1	1								*
1/21	1045	17SB119 0006	SB 119	0	0.5	SO	G	1	1								RUN MS/MSD
1/21	1048	17SB119 0612	SB 119	0.5	1	SO	G	1	1								*
1/21	1050	17SB120 0006	SB 120	0	0.5	SO	G	1	1								
1/21	1053	17SB120 0612	SB 120	0.5	1	SO	G	1	1								*
1/21	1058	17SB121 0006	SB 121	0	0.5	SO	G	1	1								
1/21	1100	17SB121 0612	SB 121	0.5	1	SO	G	1	1								*
1/21	1310	17SB90 0006	SB 90	0	0.5	SO	G	1	1								
1/21	1313	17SB90 0612	SB 90	0.5	1	SO	G	1	1								*
1/21	1315	17SB91 0006	SB 91	0	0.5	SO	G	1	1								
1/21	1318	17SB91 0612	SB 91	0.5	1	SO	G	1	1								*

1. RELINQUISHED BY	DATE 1-24-11	TIME 1830	1. RECEIVED BY FED EX	DATE 1-24-11	TIME 1830
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: * EXTRACT AND HOLD FOR ANALYSIS - ALL SBS ENDING IN 0612. ANALIZE ALL OTHERS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY) 4/02R

RM TNU

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 4072 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00477	NSA CRANE	STEVE RUFFING	412 921 8989	EMPIRICAL / KIM KOSTZER
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		T. ROJAHN	412 921 8857	621 MAINSTREAM DRIVE
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX AB # 8747 4934 3509		NASHVILLE, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PCBS								COMMENTS
		SWMU 17															
1/21	1320	175892 0006	SB92	0	0.5	SO	G	1	1								
1/21	1323	175892 0612	SB92	0.5	1	SO	G	1	1								*
1/21	1325	175893 0006	SB93	0	0.5	SO	G	1	1								
1/21	1328	175893 0612	SB93	0.5	1	SO	G	1	1								*
1/21	1330	175894 0006	SB94	0	0.5	SO	G	1	1								
1/21	1333	175894 0612	SB94	0.5	1	SO	G	1	1								*
1/21	1335	175895 0006	SB95	0	0.5	SO	G	1	1								
1/21	1338	175895 0612	SB95	0.5	1	SO	G	1	1								*
1/21	1340	175896 0006	SB96	0	0.5	SO	G	1	1								RUN MS/MSD
1/21	1343	175896 0612	SB96	0.5	1	SO	G	1	1								*
1/21	1345	175897 0006	SB97	0	0.5	SO	G	1	1								
1/21	1348	175897 0612	SB97	0.5	1	SO	G	1	1								*
1/21	1350	175898 0006	SB98	0	0.5	SO	G	1	1								

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY	1-24-11	1830	1. RECEIVED BY FED EX	1-24-11	1830
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS * EXTRACT AND HOLD FOR ANALYSIS ALL SBs ENDING IN 0612, ANALIZE ALL OTHERS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 4073 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112600477	NSA CRANE	STEVE RUFFING	412 921 8989	EMPIRICAL / KIM KOSTZER
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
Dawn Foster / Tony Rojahn		T. ROJAHN	412 921 8857	621 MAINSTREAM DRIVE
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX AB # 8747 4934 3509		NASHVILLE TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

DATE YEAR 2011	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PCBS								COMMENTS
		SWMU 17															
1/21	1353	17SB98 0612	SB98	0.5	1	SO	G	1	1								*
1/21	1355	17SB99 0006	SB99	0	0.5	SO	G	1	1								
1/21	1358	17SB99 0612	SB99	0.5	1	SO	G	1	1								*
1/21	1400	17SB100 0006	SB100	0	0.5	SO	G	1	1								
1/21	1403	17SB100 0612	SB100	0.5	1	SO	G	1	1								*
1/21	1405	17SB101 0006	SB101	0	0.5	SO	G	1	1								
1/21	1408	17SB101 0612	SB101	0.5	1	SO	G	1	1								*
1/21	1410	17SB102 0006	SB102	0	0.5	SO	G	1	1								RUN MS/MSD
1/21	1413	17SB102 0612	SB102	0.5	1	SO	G	1	1								* RUN MS/MSD
1/21	1415	17SB103 0006	SB103	0	0.5	SO	G	1	1								
1/21	1418	17SB103 0612	SB103	0.5	1	SO	G	1	1								*
1/21	1420	17SB104 0006	SB104	0	0.5	SO	G	1	1								
1/21	1423	17SB104 0612	SB104	0.5	1	SO	G	1	1								*

	DATE	TIME		DATE	TIME
1. RELINQUISHED BY: Tony Rojahn	1-24-11	1830	1. RECEIVED BY: FED EX	1-24-11	1830
2. RELINQUISHED BY			2. RECEIVED BY		
3. RELINQUISHED BY			3. RECEIVED BY		

COMMENTS: *EXTRACT AND HOLD FOR ANALYSIS - ALL SBS ENDING IN 0612. ANALIZE ALL OTHERS.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
RM NU

TETRA TECH NUS, INC. | CHAIN OF CUSTODY | NUMBER 4074 | PAGE 1 OF 1

PROJECT NO:	FACILITY:	PROJECT MANAGER	PHONE NUMBER	LABORATORY NAME AND CONTACT:
112G00477	NSA CRANE	STEVE RUFFING	412 921 8989	EMPIRICAL / KIM KOSTZER
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER	PHONE NUMBER	ADDRESS
		T. ROJAHN	412 921 8857	621 MAINSTREAM DRIVE
		CARRIER/WAYBILL NUMBER		CITY, STATE
		FED EX AB # 8747 4934 3509		NASHVILLE, TN 37228

STANDARD TAT ☒
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

CONTAINER TYPE PLASTIC (P) or GLASS (G): G
PRESERVATIVE USED: 4°C

DATE YEAR 2011	TIME	SAMPLE ID (SWMU 17)	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	TYPE OF ANALYSIS: PCBs								COMMENTS
1/21	1425	17SB105 0006	SB105	0	0.5	SO	G	1	1								
1/21	1428	17SB105 0612	SB105	0.5	1	SO	G	1	1								*
1/21	1430	17SB106 0006	SB106	0	0.5	SO	G	1	1								
1/21	1433	17SB106 0612	SB106	0.5	1	SO	G	1	1								*
1/21	1435	17SB107 0006	SB107	0	0.5	SO	G	1	1								
1/21	1438	17SB107 0612	SB107	0.5	1	SO	G	1	1								*
1/21	0000	17SB DUP 001	QC	–	–	SO	G	1	1								FROM 17SB117 0006
1/21	0000	17SB DUP 002	QC	–	–	SO	G	1	1								17SB90 0006
1/21	0000	17SB DUP 003	QC	–	–	SO	G	1	1								17SB90 0612
1/21	0000	17SB DUP 004	QC	–	–	SO	G	1	1								17SB99 0006
1/21	1620	17RB01	RB	–	–	AQ	G	2	2								

1. RELINQUISHED BY	DATE 1-24-11	TIME 1830	1. RECEIVED BY FEDEX	DATE 1-24-11	TIME 1830
2. RELINQUISHED BY	DATE	TIME	2. RECEIVED BY	DATE	TIME
3. RELINQUISHED BY	DATE	TIME	3. RECEIVED BY	DATE	TIME

COMMENTS: * EXTRACT AND HOLD FOR ANALYSIS - ALL SBs ENDING IN 0612. ANALIZE ALL OTHERS.

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

APPENDIX C

VALIDATED ANALYTICAL DATA

LOCATION	**17SW/SD003**	**17SW/SD004**
SAMPLE ID	**17SD0030006**	**17SD0040006**
SAMPLE DATE	**20051001**	**20051001**
SAMPLE CODE	**NORMAL**	**NORMAL**
MATRIX	**SD**	**SD**
SAMPLE TYPE	**NORMAL**	**NORMAL**
SUBMATRIX	**NA**	**NA**
TOP DEPTH	**0**	**0**
BOTTOM DEPTH	**0.5**	**0.5**
MISCELLANEOUS PARAMETERS (%)		
TOTAL ORGANIC CARBON	NA	NA
TOTAL SOLIDS	NA	NA
PESTICIDES/PCBS (UG/KG)		
AROCLOR-1016	135 U	255 U
AROCLOR-1221	135 U	255 U
AROCLOR-1232	135 U	255 U
AROCLOR-1242	135 U	255 U
AROCLOR-1248	135 U	255 U
AROCLOR-1254	135 U	255 U
AROCLOR-1260	17000	3600 J
AROCLOR-1262	NA	NA
AROCLOR-1268	NA	NA
TOTAL AROCLOR	17000	3600

17SW/SD005	17SW/SD006	17SW/SD018	
17SD0050006	17SD0060006	17SD0180006	17SD0180006-D
20051001	20051001	20060418	20060418
NORMAL	NORMAL	NORMAL	DUP
SD	SD	SD	SD
NORMAL	NORMAL	NORMAL	NORMAL
NA	NA	NA	NA
0	0	0	0
0.5	0.5	0.5	0.5
NA	NA	NA	NA
NA	NA	NA	NA
12 U	11.2 U	230 U	220 U
12 U	11.2 U	230 U	220 U
12 U	11.2 U	230 U	220 U
12 U	11.2 U	230 U	220 U
12 U	11.2 U	230 U	220 U
12 U	11.2 U	230 U	220 U
1700	13 J	3700 J	1200 J
NA	NA	230 U	220 U
NA	NA	230 U	220 U
1700	13	3700	1200

17SW/SD019 **17SD0190006** **20060418** **NORMAL** **SD** **NORMAL** **NA** **0** **0.5**	**17SW/SD020** **17SD0200006** **20060418** **NORMAL** **SD** **NORMAL** **NA** **0** **0.5**	**17SW/SD021** **17SD0210006** **20060418** **NORMAL** **SD** **NORMAL** **NA** **0** **0.5**	**17SW/SD022** **17SD0220006** **20060418** **NORMAL** **SD** **NORMAL** **NA** **0** **0.5**
0.45	NA	NA	NA
72	NA	NA	NA
220 U	21 U	28 U	28 U
220 U	21 U	28 U	28 U
220 U	21 U	28 U	28 U
220 U	21 U	28 U	28 U
220 U	21 U	28 U	28 U
220 U	21 U	28 U	28 U
3700	21 U	21 J	30
220 U	21 U	28 U	28 U
220 U	21 U	28 U	28 U
3700	0 U	21	30

17SW/SD023 17SD0230006 20060418 NORMAL SD NORMAL NA 0 0.5	17SW/SD030 17SD0300006 20060419 NORMAL SD NORMAL NA 0 0.5	17SW/SD031 17SD0310006 20060419 NORMAL SD NORMAL NA 0 0.5	17SW/SD032 17SD0320006 20060419 NORMAL SD NORMAL NA 0 0.5
NA	0.75	0.18	NA
NA	70	73	NA
23 UJ	24 U	23 U	22 U
23 UJ	24 U	23 U	22 U
23 UJ	24 U	23 U	22 U
23 UJ	24 U	23 U	22 U
23 UJ	24 U	23 U	22 U
23 UJ	24 U	23 U	22 U
25 J	89	110	200
23 UJ	24 U	23 U	22 U
23 UJ	24 U	23 U	22 U
25	89	110	200

17SW/SD033 17SD0330006 20060419 NORMAL SD NORMAL NA 0 0.5	17SW/SD034 17SD0340006 20060419 NORMAL SD NORMAL NA 0 0.5	17SW/SD039 17SD0390006 20060419 NORMAL SD NORMAL NA 0 0.5	17SW/SD040 17SD0400006 20060418 NORMAL SD NORMAL NA 0 0.5
0.91	NA	NA	NA
70	NA	NA	NA
23 UJ	22 UJ	25 UJ	30 U
23 UJ	22 UJ	25 UJ	30 U
23 UJ	22 UJ	25 UJ	30 U
23 UJ	22 UJ	25 UJ	30 U
23 UJ	22 UJ	25 UJ	30 U
23 UJ	22 UJ	25 UJ	30 U
1300	220 J	25 UJ	63
23 UJ	22 UJ	25 UJ	30 U
23 UJ	22 UJ	25 UJ	30 U
1300	220	0 U	63

17SW/SD041 17SD0410006 20060418 NORMAL SD NORMAL NA 0 0.5	17SW/SD042 17SD0420006 20060502 NORMAL SD NORMAL NA 0 0.5	17SW/SD043 17SD0430006 20060502 NORMAL SD NORMAL NA 0 0.5	17SW/SD044 17SD0440006 20060502 NORMAL SD NORMAL NA 0 0.5
NA	NA	0.77	NA
NA	NA	77	NA
280 U	23 U	22 UJ	25 UJ
280 U	23 U	22 UJ	25 UJ
280 U	23 U	22 UJ	25 UJ
280 U	23 U	22 UJ	25 UJ
280 U	23 U	22 UJ	25 UJ
280 U	23 U	22 UJ	25 UJ
500	23 U	3300	570
280 U	23 U	22 UJ	25 UJ
280 U	23 U	22 UJ	25 UJ
500	0 U	3300	570

17SW/SD056	**17SW/SD057**	**17SW/SD058**	**17SW/**
17SD0560006	**17SD0570006**	**17SD0580006**	**17SD0590006**
20060502	**20060502**	**20060502**	**20060502**
NORMAL	**NORMAL**	**NORMAL**	**NORMAL**
SD	**SD**	**SD**	**SD**
NORMAL	**NORMAL**	**NORMAL**	**NORMAL**
NA	**NA**	**NA**	**NA**
0	**0**	**0**	**0**
0.5	**0.5**	**0.5**	**0.5**
NA	NA	NA	NA
NA	NA	NA	NA
22 U	21 U	20 UR	24 U
22 U	21 U	20 UR	24 U
22 U	21 U	20 UR	24 U
22 U	21 U	20 UR	24 U
22 U	21 U	20 UR	24 U
22 U	21 U	20 UR	24 U
260	21 U	290 J	24 U
22 U	21 U	20 UR	24 U
22 U	21 U	20 UR	24 U
260	0 U	290	0 U

SD059	17SW/SD060	17SW/SD061	17SW/SD062
17SD0590006-D	17SD0600006	17SD0610006	17SD0620006
20060502	20060502	20060502	20060502
DUP	NORMAL	NORMAL	NORMAL
SD	SD	SD	SD
NORMAL	NORMAL	NORMAL	NORMAL
NA	NA	NA	NA
0	0	0	0
0.5	0.5	0.5	0.5
NA	NA	NA	NA
NA	NA	NA	NA
24 U	21 U	520 UR	25 U
24 U	21 U	520 UR	25 U
24 U	21 U	520 UR	25 U
24 U	21 U	520 UR	25 U
24 U	21 U	520 UR	25 U
24 U	21 U	520 UR	25 U
24 U	12 J	70000 J	7100
24 U	21 U	520 UR	25 U
24 U	21 U	520 UR	25 U
0 U	12	70000	7100

17SW/SD063 **17SD0630006** **20060502** **NORMAL** **SD** **NORMAL** **NA** **0** **0.5**	**17SW/SD064** **17SD0640006** **20060502** **NORMAL** **SD** **NORMAL** **NA** **0** **0.5**	**17SW/SD090** **17SD0900006** **20081216** **NORMAL** **SD** **NORMAL** **NA** **0** **6**	**17SW/SD106** **17SD1060006** **20110120** **NORMAL** **SD** **NORMAL** **SD** **0** **0.5**
NA	NA	NA	NA
NA	NA	NA	NA
26 U	540 UR	11 U	305 U
26 U	540 UR	11 U	305 U
26 U	540 UR	11 U	305 U
26 U	540 UR	11 U	305 U
26 U	540 UR	11 U	305 U
26 U	540 UR	11 U	3640
720	4100 J	35	31100
26 U	540 UR	NA	NA
26 U	540 UR	NA	NA
720	4100	35	34740

17SW/SD107 **17SD1070006** **20110120** **NORMAL** **SD** **NORMAL** **SD** **0** **0.5**	**17SW/SD108** **17SD1080006** **20110120** **NORMAL** **SD** **NORMAL** **SD** **0** **0.5**	**17SW/SD109** **17SD1090006** **20110120** **NORMAL** **SD** **NORMAL** **SD** **0** **0.5**	**17SW/SD110** **17SD1100006** **20110120** **NORMAL** **SD** **NORMAL** **SD** **0** **0.5**
NA	NA	NA	NA
NA	NA	NA	NA
1010 U	56.3 U	1060 U	269 U
1010 U	56.3 U	1060 U	269 U
1010 U	56.3 U	1060 U	269 U
1010 U	56.3 U	1060 U	269 U
1010 U	56.3 U	1060 U	269 U
1010 U	56.3 U	1060 U	269 U
101000	4990	175000	26500
NA	NA	NA	NA
NA	NA	NA	NA
101000	4990	175000	26500

17SW/SD111 **17SD1110006** **20110120** **NORMAL** **SD** **NORMAL** **SD** **0** **0.5**	**17SW/SD112** **17SD1120006** **20110120** **NORMAL** **SD** **NORMAL** **SD** **0** **0.5**	**17SW/SD113** **17SD1130006** **20110120** **NORMAL** **SD** **NORMAL** **SD** **0** **0.5**	**17SW/SD114** **17SD1140006** **20110120** **NORMAL** **SD** **NORMAL** **SD** **0** **0.5**
NA	NA	NA	NA
NA	NA	NA	NA
260 U	251 U	321 U	259 U
260 U	251 U	321 U	259 U
260 U	251 U	321 U	259 U
260 U	251 U	321 U	259 U
260 U	251 U	321 U	259 U
3210	1980	6100	1670
17200 J	12500	35600 J	13200 J
NA	NA	NA	NA
NA	NA	NA	NA
20410	14480	41700	14870

17SW/SD115 17SD1150006 20110120 NORMAL SD NORMAL SD 0 0.5	17SD1160006 20110120 ORIG SD NORMAL SD 0 0.5	17SD1160006-AVG 20110120 AVG SD NORMAL SD 0 0.5	17SW/SD116 17SD1160006-D 20110120 DUP SD NORMAL SD 0 0.5
NA	NA	NA	NA
NA	NA	NA	NA
239 U	279 U	193.5 U	108 UJ
239 U	279 U	193.5 U	108 UJ
239 U	279 U	193.5 U	108 UJ
239 U	279 U	193.5 U	108 UJ
239 U	279 U	193.5 U	108 UJ
4820	2550 J	2025	1500 J
23800 J	20400 J	17350	14300 J
NA	NA	NA	NA
NA	NA	NA	NA
28620	22950	19375	15800

17SD1160612 20110120 NORMAL SD NORMAL SD 0.5 1	17SD1161224 20110120 NORMAL SD NORMAL SD 1 2	17SD1170006 20110120 ORIG SD NORMAL SD 0 0.5	17SD1170006-AVG 20110120 AVG SD NORMAL SD 0 0.5
NA	NA	NA	NA
NA	NA	NA	NA
279 U	125 U	272 U	163.3 U
279 U	125 U	272 U	163.3 U
279 U	125 U	272 U	163.3 U
279 U	125 U	272 U	163.3 U
279 U	125 U	272 U	163.3 U
279 U	125 U	3380 J	2440
24900 J	8860 J	26600 J	17320
NA	NA	NA	NA
NA	NA	NA	NA
24900	8860	29980	19760

17SW/SD117 17SD1170006-D 20110120 DUP SD NORMAL SD 0 0.5	17SD1170612 20110120 NORMAL SD NORMAL SD 0.5 1	17SD1171224 20110120 NORMAL SD NORMAL SD 1 2	17SW/ 17SD1180006 20110120 NORMAL SD NORMAL SD 0 0.5
NA	NA	NA	NA
NA	NA	NA	NA
54.6 UJ	103 U	271 U	48.7 U
54.6 UJ	103 U	271 U	48.7 U
54.6 UJ	103 U	271 U	48.7 U
54.6 UJ	103 U	271 U	48.7 U
54.6 UJ	103 U	271 U	48.7 U
1500 J	1150	5620	650
8040 J	8150	41200	4080
NA	NA	NA	NA
NA	NA	NA	NA
9540	9300	46820	4730

SD118	17SW/SD119		17SW/
17SD1180612	17SD1190006	17SD1190612	17SD1200006
20110120	20110120	20110120	20110120
NORMAL	NORMAL	NORMAL	NORMAL
SD	SD	SD	SD
NORMAL	NORMAL	NORMAL	NORMAL
SD	SD	SD	SD
0.5	0	0.5	0
1	0.5	1	0.5
NA	NA	NA	NA
NA	NA	NA	NA
1050 U	18.7 U	49.4 U	5.62 UJ
1050 U	18.7 U	49.4 U	5.62 UJ
1050 U	18.7 U	49.4 U	5.62 UJ
1050 U	18.7 U	49.4 U	5.62 UJ
1050 U	18.7 U	49.4 U	5.62 UJ
1050 U	416	460	5.62 UJ
100000	1840	3090	95.2 J
NA	NA	NA	NA
NA	NA	NA	NA
100000	2256	3550	95.2

SD120
17SD1200612
20110120
NORMAL
SD
NORMAL
SD
0.5
1

NA
NA

5.89 UJ
5.89 UJ
5.89 UJ
5.89 UJ
5.89 UJ
5.89 UJ
77 J
NA
NA
77

LOCATION	17SB87	17SB88	17SB89	17SB90				
SAMPLE ID	17SB87000	17SB88000	17SB89000	17SB900006	17SB90000	17SB900006	17SB900612	17SB900
SAMPLE DATE	20110120	20110120	20110120	20110121	20110121	20110121	20110121	2011012
SAMPLE CODE	NORMAL	NORMAL	NORMAL	ORIG	AVG	DUP	ORIG	AVG
MATRIX	SO	SO	SO	SO	SO	SO	SO	SO
SAMPLE TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMA
SUBMATRIX	SS	SS	SS	SS	SS	SS	SS	SS
TOP DEPTH	0	0	0	0	0	0	0.5	0.5
BOTTOM DEPTH	0.5	0.5	0.5	0.5	0.5	0.5	1	1
GRO SPECIFIC VOLATILES (UG/KG)								
BENZENE	NA	NA	NA	NA	NA	NA	NA	NA
ETHYLBENZENE	NA	NA	NA	NA	NA	NA	NA	NA
M+P-XYLENES	NA	NA	NA	NA	NA	NA	NA	NA
METHYL TERT-BUTYL ETHER	NA	NA	NA	NA	NA	NA	NA	NA
O-XYLENE	NA	NA	NA	NA	NA	NA	NA	NA
TOLUENE	NA	NA	NA	NA	NA	NA	NA	NA
TOTAL XYLENES	NA	NA	NA	NA	NA	NA	NA	NA
PESTICIDES/PCBS (UG/KG)								
AROCLOR-1016	5.48 U	5.6 U	5.39 U	52.6 UJ	52.5 U	52.4 UJ	105 UJ	78.65
AROCLOR-1221	5.48 U	5.6 U	5.39 U	52.6 U	52.5 U	52.4 UJ	105 U	78.65
AROCLOR-1232	5.48 U	5.6 U	5.39 U	52.6 U	52.5 U	52.4 UJ	105 U	78.65
AROCLOR-1242	5.48 U	5.6 U	5.39 U	52.6 U	52.5 U	52.4 UJ	105 U	78.65
AROCLOR-1248	5.48 U	5.6 U	5.39 U	52.6 U	52.5 U	52.4 UJ	105 U	78.65
AROCLOR-1254	5.48 U	5.6 U	5.39 U	52.6 U	52.5 U	52.4 UJ	105 U	78.65
AROCLOR-1260	111	40 J	253	4190 J	3810	3430 J	11700	9940
TOTAL AROCLOR	111	40	253	4190	3810	3430	11700	9940

		17SB91	17SB92		17SB93	17SB94		17SB95		17SB96	17SB97
61	17SB900612	17SB910006	17SB92000	17SB92061	17SB930006	17SB940006	17SB940612	17SB950006	17SB95061	17SB960006	17SB97000
1	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121
	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
L	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
	0.5	0	0	0.5	0	0	0.5	0	0.5	0	0
	1	0.5	0.5	1	0.5	0.5	1	0.5	1	0.5	0.5
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
U	52.3 UJ	5.01 UJ	132 U	25.5 U	10.8 UJ	25.9 UJ	24.4 UJ	11.1 UJ	5.38 U	11.2 UJ	5.86 U
U	52.3 UJ	5.01 UJ	132 U	25.5 U	10.8 UJ	25.9 UJ	24.4 UJ	11.1 UJ	5.38 U	11.2 UJ	5.86 U
U	52.3 UJ	5.01 UJ	132 U	25.5 U	10.8 UJ	25.9 UJ	24.4 UJ	11.1 UJ	5.38 U	11.2 UJ	5.86 U
U	52.3 UJ	5.01 UJ	132 U	25.5 U	10.8 UJ	25.9 UJ	24.4 UJ	11.1 UJ	5.38 U	11.2 UJ	5.86 U
U	52.3 UJ	5.01 UJ	132 U	25.5 U	10.8 UJ	25.9 UJ	24.4 UJ	11.1 UJ	5.38 U	11.2 UJ	5.86 U
U	52.3 UJ	5.01 UJ	132 U	25.5 U	10.8 UJ	25.9 UJ	24.4 UJ	11.1 UJ	5.38 U	11.2 UJ	5.86 U
	8180 J	204 J	12400	1800	798 J	2280 J	3050 J	1510 J	498	818 J	265 J
	8180	204	12400	1800	798	2280	3050	1510	498	818	265

17SB98	17SB99			17SB100	17SB101		17SB102	17SB103	17SB104		17
17SB980006	17SB990006	17SB99000	17SB990006	17SB10000	17SB10100	17SB10106	17SB10200	17SB10300	17SB10400	17SB10406	17SB105
20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	2011012
NORMAL	ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMA
SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMA
SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
0	0	0	0	0	0	0.5	0	0	0	0.5	0
0.5	0.5	0.5	0.5	0.5	0.5	1	0.5	0.5	0.5	1	0.5
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
5.99 UJ	5.73 UJ	5.775 U	5.82 UJ	47.5 U	50.6 U	50.2 U	5.51 U	5.36 U	52.9 U	53.1 U	56.1
5.99 UJ	5.73 UJ	5.775 U	5.82 UJ	47.5 U	50.6 U	50.2 U	5.51 U	5.36 U	52.9 U	53.1 U	56.1
5.99 UJ	5.73 UJ	5.775 U	5.82 UJ	47.5 U	50.6 U	50.2 U	5.51 U	5.36 U	52.9 U	53.1 U	56.1
5.99 UJ	5.73 UJ	5.775 U	5.82 UJ	47.5 U	50.6 U	50.2 U	5.51 U	5.36 U	52.9 U	53.1 U	56.1
5.99 UJ	5.73 UJ	5.775 U	5.82 UJ	47.5 U	50.6 U	50.2 U	5.51 U	5.36 U	52.9 U	53.1 U	56.1
5.99 UJ	5.73 UJ	5.775 U	5.82 UJ	47.5 U	50.6 U	50.2 U	5.51 U	5.36 U	52.9 U	53.1 U	56.1
46.4 J	52.2 J	44.6	37 J	886 J	2040	1490	351	75	5270	1770	9270
46.4	52.2	44.6	37	886	2040	1490	351	75	5270	1770	9270

'SB105		17SB106		17SB107		17SB111	17SB112	17SB113	17SB114	17SB115	
00	17SB10506	17SB10600	17SB10606	17SB10700	17SB10706	17SB111000	17SB112000	17SB113000	17SB114000	17SB115000	17SB115061
1	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121
L	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
L	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
	0.5	0	0.5	0	0.5	0	0	0	0	0	0.5
	1	0.5	1	0.5	1	0.5	0.5	0.5	0.5	0.5	1
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
U	513 U	265 U	50.9 U	46.5 U	47.3 U	5.52 UJ	5.32 UJ	5.51 UJ	5.12 UJ	51.9 UJ	54.4 UJ
U	513 U	265 U	50.9 U	46.5 U	47.3 U	5.52 UJ	5.32 UJ	5.51 UJ	5.12 UJ	51.9 U	54.4 U
U	513 U	265 U	50.9 U	46.5 U	47.3 U	5.52 UJ	5.32 UJ	5.51 UJ	5.12 UJ	51.9 U	54.4 U
U	513 U	265 U	50.9 U	46.5 U	47.3 U	5.52 UJ	5.32 UJ	5.51 UJ	5.12 UJ	51.9 U	54.4 U
U	513 U	265 U	50.9 U	46.5 U	47.3 U	5.52 UJ	5.32 UJ	5.51 UJ	5.12 UJ	51.9 U	54.4 U
U	513 U	265 U	50.9 U	46.5 U	47.3 U	5.52 UJ	5.32 UJ	5.51 UJ	5.12 UJ	51.9 U	54.4 U
	41300	24500	8200	1630	375	87.7 J	47 J	121 J	104 J	1750 J	1190 J
	41300	24500	8200	1630	375	87.7	47	121	104	1750	1190

17SB116		17SB117				17SB118		17SB119		17SE
17SB116000	17SB116061	17SB117000	17SB11700	17SB11700	17SB117061	17SB118000	17SB118061	17SB119000	17SB119061	17SB120000
20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121	20110121
NORMAL	NORMAL	ORIG	AVG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SO	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
0	0.5	0	0	0	0.5	0	0.5	0	0.5	0
0.5	1	0.5	0.5	0.5	1	0.5	1	0.5	1	0.5
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
54.9 UJ	51.3 UJ	51.8 UJ	52.15 U	52.5 U	52.8 UJ	55.8 UJ	54.8 UJ	55.8 UJ	51.1 UJ	54.2 UJ
54.9 U	51.3 U	51.8 U	52.15 U	52.5 U	52.8 U	55.8 UJ	54.8 U	55.8 U	51.1 U	54.2 U
54.9 U	51.3 U	51.8 U	52.15 U	52.5 U	52.8 U	55.8 UJ	54.8 U	55.8 U	51.1 U	54.2 U
54.9 U	51.3 U	51.8 U	52.15 U	52.5 U	52.8 U	55.8 UJ	54.8 U	55.8 U	51.1 U	54.2 U
54.9 U	51.3 U	51.8 U	52.15 U	52.5 U	52.8 U	55.8 UJ	54.8 U	55.8 U	51.1 U	54.2 U
54.9 U	51.3 U	51.8 U	52.15 U	52.5 U	52.8 U	55.8 UJ	54.8 U	55.8 U	51.1 U	54.2 U
5270 J	3650 J	1820 J	1835	1850	2380 J	1850 J	3730 J	4830 J	4370 J	8190 J
5270	3650	1820	1835	1850	2380	1850	3730	4830	4370	8190

3120	17SB121
17SB120061	17SB121000
20110121	20110121
NORMAL	NORMAL
SO	SO
NORMAL	NORMAL
SS	SS
0.5	0
1	0.5

NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA
NA	NA

51.2 UJ	5.37 UJ
51.2 U	5.37 U
51.2 U	5.37 U
51.2 U	5.37 U
51.2 U	5.37 U
51.2 U	5.37 U
5510 J	52.7 J
5510	52.7