

Table 3-1

**Summary of Data Quality Objectives  
Site Investigation  
Artillery and Mortar Impact Areas South of Bains Gap Road,  
Parcels 138Q-X, 139Q-X, 140Q-X, 141Q-X, and 142Q-X  
Fort McClellan, Calhoun County, Alabama**

Potential Data Users	Available Data	Conceptual Site Model	Media of Concern	Data Uses and Objectives	Data Types	Analytical Level	Data Quantity		
EPA, ADEM USACE, DOD FTMC, IT Corporation, other contractors, and possible future land users	None available	<u>Contaminant Source</u> Artillery and Mortar Impact Areas South of Bains Gap Road (munitions, explosives, ordnance)  <u>Migration Pathways</u> Infiltration and leaching to subsurface soil, biotransfer to deer through browsing, dust emissions to ambient air, and runoff and erosion to surface water and sediment  <u>Potential Receptors</u> Recreational site user (current and future) and resident (future)  <u>PSSC</u> lead, nitroexplosives, perchlorate	<u>Surface soil</u>	SI to confirm the presence or absence of contamination in the site media	<u>Surface soil</u> TAL Metals, Nitroexplosives, Perchlorate	Definitive data in CESAS Level B data packages	14 direct-push soil samples + QC		
			<u>Subsurface Soil</u>		Definitive quality data for future decision- making			<u>Subsurface Soil</u> TAL Metals, Nitroexplosives, Perchlorate	Definitive data in CESAS Level B data packages
			<u>Seep Water</u>	<u>Seep Water</u> TAL Metals, Nitroexplosives, Perchlorate		Definitive data in CESAS Level B data packages			
			<u>Surface Water</u>	<u>Surface Water</u> TAL Metals, Nitroexplosives, Perchlorate				Definitive data in CESAS Level B data packages	
			<u>Sediment</u>	<u>Sediment</u> TAL Metals, Nitroexplosives, Perchlorate TOC, and Grain Size					

ADEM - Alabama Department of Environmental Management.  
 CESAS - Corps of Engineers South Atlantic Savannah.  
 DOD - U.S. Department of Defense.  
 EPA - U.S. Environmental Protection Agency.  
 FTMC - Fort McClellan.  
 PSSC - Potential Site-Specific Chemical

QC - Quality control.  
 SI - Site investigation.  
 TAL - Target analyte list.  
 TOC - Total organic carbon.  
 USACE - U.S. Army Corps of Engineers.

Table 4-1

**Sampling Locations and Rationale  
Artillery and Mortar Impact Areas South of Bains Gap Road, Parcels 138Q-X, 139Q-X, 140Q-X, 141Q-X, and 142Q-X  
Fort McClellan, Calhoun County, Alabama**

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Parcel Number	Sample Location	Sample Media	Sample Location Rationale
138Q-X	HR-138Q-GP01	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the upgradient southern section of Parcel 138Q-X. Sample data will indicate if contaminant releases into the environment have occurred from this area of the site and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-138Q-GP02	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the downgradient northeastern section of Parcel 138Q-X. Sample data will indicate if contaminant releases into the environment have occurred from this area of the site and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-138Q-GP03	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the central western area of Parcel 138Q(7). Sample data will indicate if contaminant releases into the environment have occurred in this area and if contaminated soil exists at this site. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-138Q-GP04	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the downgradient northern area of Parcel 138Q(7). Sample data will indicate if contaminant releases into the environment have occurred in this area and if contaminated soil exists at this site. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-138Q-SW/SD01	Surface water and sediment	Sample location is downgradient of Parcel 140Q-X and upstream of Parcel 138Q-X on an intermittent stream that flows northeast along the eastern border of the parcel. The sample location is prior to the convergence with the stream from Parcel 141Q-X. Sample data will indicate if contaminant releases have occurred from runoff from the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
	HR-138Q-SW/SD02	Surface water and sediment	Sample location is east of the central area of Parcel 138Q-X on an intermittent stream that flows north along the eastern border of the parcel. The sample location is prior to the convergence with the stream from the east side of Parcel 140Q-X. Sample data will indicate if contaminant releases have occurred from runoff from the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
	HR-138Q-SW/SD03	Surface water and sediment	Sample location is the northern tip of Parcel 138Q-X downstream of the parcel on an intermittent stream that flows northwest from the parcel. Sample data will indicate if contaminant releases have occurred from runoff from the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
	HR-138Q-SW/SD04	Surface water and sediment	Sample location is north of the central area of Parcel 138Q-X on an intermittent stream that flows northwest along the northeastern border of the parcel. Sample data will indicate if contaminant releases have occurred from runoff from the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
	HR-138Q-SW/SD05	Surface water and sediment	Sample location is northwest of the central area of Parcel 138Q-X on an intermittent stream that flows northwest from the parcel. Sample data will indicate if contaminant releases have occurred from runoff from the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
	HR-138Q-SEEP01	Seep water	Sample location is at the northwestern tip of Parcel 138Q-X and downgradient of the parcel in a seep area. Sample data will indicate if contaminant releases have occurred from runoff from the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the seep and other ecological receptors that may utilize that seep for food and/or habitat purposes.
HR-138Q-SEEP02	Seep water	Sample location is east of Parcel 138Q-X and downgradient of the parcel in a seep area. Sample data will indicate if contaminant releases have occurred from runoff from the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the seep and other ecological receptors that may utilize that seep for food and/or habitat purposes.	
139Q-X	HR-139Q-GP01	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the upgradient southern section of Parcel 139Q-X. Sample data will indicate if contaminant releases into the environment have occurred from this area of the site and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-139Q-GP02	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the southern downgradient area of Parcel 139Q(7). Sample data will indicate if contaminant releases into the environment have occurred in this area and if contaminated soil exists at this site. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-139Q-SW/SD01	Surface water and sediment	Sample location is just northeast of Parcel 139Q-X and downstream of the parcel on an intermittent stream that flows north along the eastern border of the parcel. Sample data will indicate if contaminant releases have occurred from runoff from the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.

Table 4-1

**Sampling Locations and Rationale  
Artillery and Mortar Impact Areas South of Bains Gap Road, Parcels 138Q-X, 139Q-X, 140Q-X, 141Q-X, and 142Q-X  
Fort McClellan, Calhoun County, Alabama**

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Parcel Number	Sample Location	Sample Media	Sample Location Rationale
140Q-X	HR-140Q-GP01	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the upgradient southern section of Parcel 140Q-X. Sample data will indicate if contaminant releases into the environment have occurred from this area of the site and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-140Q-GP02	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the southern section of the site, downgradient of the parcel. Sample data will indicate if contaminant releases into the environment have occurred in this area and if contaminated soil exists at this site. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
	HR-140Q-SW/SD01	Surface water and sediment	Sample location is north and downgradient of Parcel 140Q-X in the intermittent stream that flows north away from the parcel. Sample data will indicate if contaminant releases have occurred from runoff from activities at the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
141Q-X	HR-141Q-GP01	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the upgradient southern section of Parcel 141Q-X. Sample data will indicate if contaminant releases into the environment have occurred from this area of the site and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-141Q-GP02	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the center section of Parcel 141Q-X. Sample data will indicate if contaminant releases into the environment have occurred from this area of the site and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-141Q-GP03	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the eastern center section of Parcel 141Q-X. Sample data will indicate if contaminant releases into the environment have occurred in this impact area and if contaminated soil exists at this site. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-141Q-GP04	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the northern downgradient section of Parcel 141Q-X. Sample data will indicate if contaminant releases into the environment have occurred in this impact area and if contaminated soil exists at this site. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes. The monitoring well location will be used to establish a local groundwater flow direction and site-specific geology, and
	HR-141Q-SW/SD01	Surface water and sediment	Sample location is southeast of Parcel 141Q-X in the intermittent stream that flows north through the eastern side of the parcel. Sample data will indicate if contaminant releases have occurred from runoff from activities at the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
	HR-141Q-SW/SD02	Surface water and sediment	Sample location is east of Parcel 141Q-X in the intermittent stream that flows northeast from the eastern side of the parcel. Sample data will indicate if contaminant releases have occurred from runoff from activities at the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
	HR-141Q-SW/SD03	Surface water and sediment	Sample location is north of Parcel 141Q-X in the intermittent stream that flows northwest away from the parcel. Sample data will indicate if contaminant releases have occurred from runoff from activities at the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
142Q-X	HR-142Q-GP01	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the upgradient southern section of Parcel 142Q-X. Sample data will indicate if contaminant releases into the environment have occurred from this area of the site and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-142Q-GP02	Surface soil and subsurface soil	Soil boring for surface soil and subsurface soil samples to be placed in the northern section of Parcel 142Q-X. Sample data will indicate if contaminant releases into the environment have occurred in this impact area and if contaminated soil exists at this site. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-142Q-SW/SD01	Surface water and sediment	Sample location is north of Parcel 142Q-X in the intermittent stream that flows northwest away from the parcel. Sample data will indicate if contaminant releases have occurred from runoff from activities at the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.
	HR-142Q-SW/SD02	Surface water and sediment	Sample location is south of Parcel 142Q-X in the intermittent stream that flows north into the parcel. Sample data will indicate if contaminant releases have occurred from runoff from activities upgradient of the parcel. Sample data will also be used to assess potential impacts to aquatic biota in the stream and other ecological receptors that may utilize that stream for food and/or habitat purposes.

Table 4-2

Surface Soil and Subsurface Soil Sample Designations and QA/QC Sample Quantities  
 Parcels 138Q-X, 139Q-X, 140Q-X, 141Q-X, and 142Q-X  
 Fort McClellan, Calhoun County, Alabama

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Sample Location	Sample Designation	Sample Depth (ft)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
HR-138Q-GP01	HR-138Q-GP01-SS-YE0001-REG HR-138Q-GP01-DS-YE0002-REG	0-1 a	HR-138Q-GP01-DS-YE0003-FD	HR-138Q-GP01-DS-YE0004-FS	HR-138Q-GP01-SS-YE0001-MS/MSD	TAL Metals, Nitroexplosives, Perchlorate
HR-138Q-GP02	HR-138Q-GP02-SS-YE0005-REG HR-138Q-GP02-DS-YE0006-REG	0-1 a				TAL Metals, Nitroexplosives, Perchlorate
HR-138Q-GP03	HR-138Q-GP03-SS-YE0007-REG HR-138Q-GP03-DS-YE0008-REG	0-1 a				TAL Metals, Nitroexplosives, Perchlorate
HR-138Q-GP04	HR-138Q-GP04-SS-YE0009-REG HR-138Q-GP04-DS-YE0010-REG	0-1 a			HR-138Q-GP04-SS-YE0009-MS/MSD	TAL Metals, Nitroexplosives, Perchlorate
HR-139Q-GP01	HR-139Q-GP01-SS-YG0001-REG HR-139Q-GP01-DS-YG0002-REG	0-1 a				TAL Metals, Nitroexplosives, Perchlorate
HR-139Q-GP02	HR-139Q-GP02-SS-YG0003-REG HR-139Q-GP02-DS-YG0004-REG	0-1 a	HR-139Q-GP02-DS-YG0005-FD	HR-139Q-GP02-DS-YG0006-FS		TAL Metals, Nitroexplosives, Perchlorate
HR-140Q-GP01	HR-140Q-GP01-SS-YH0001-REG HR-140Q-GP01-DS-YH0002-REG	0-1 a				TAL Metals, Nitroexplosives, Perchlorate
HR-140Q-GP02	HR-140Q-GP02-SS-YH0003-REG HR-140Q-GP02-DS-YH0004-REG	0-1 a	HR-140Q-GP02-DS-YH0005-FD			TAL Metals, Nitroexplosives, Perchlorate
HR-141Q-GP01	HR-141Q-GP01-SS-YJ0001-REG HR-141Q-GP01-DS-YJ0002-REG	0-1 a				TAL Metals, Nitroexplosives, Perchlorate
HR-141Q-GP02	HR-141Q-GP02-SS-YJ0003-REG HR-141Q-GP02-DS-YJ0004-REG	0-1 a				TAL Metals, Nitroexplosives, Perchlorate
HR-141Q-GP03	HR-141Q-GP03-SS-YJ0005-REG HR-141Q-GP03-DS-YJ0006-REG	0-1 a				TAL Metals, Nitroexplosives, Perchlorate
HR-141Q-GP04	HR-141Q-GP04-SS-YJ0007-REG HR-141Q-GP04-DS-YJ0008-REG	0-1 a				TAL Metals, Nitroexplosives, Perchlorate

**Table 4-2**

**Surface Soil and Subsurface Soil Sample Designations and QA/QC Sample Quantities  
Parcels 138Q-X, 139Q-X, 140Q-X, 141Q-X, and 142Q-X  
Fort McClellan, Calhoun County, Alabama**

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Sample Location	Sample Designation	Sample Depth (ft)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
HR-142Q-GP01	HR-142Q-GP01-SS-YL0001-REG	0-1				TAL Metals, Nitroexplosives, Perchlorate
	HR-142Q-GP01-DS-YL0002-REG	a				
HR-142Q-GP02	HR-142Q-GP02-SS-YL0003-REG	0-1				TAL Metals, Nitroexplosives, Perchlorate
	HR-142Q-GP02-DS-YL0004-REG	a				

<sup>a</sup> Actual sample depth selected for analysis will be at the discretion of the site geologist and will be based on field observation.

REG - Field sample.  
FD - Field duplicate.  
FS - Field split.

MS/MSD - Matrix spike/matrix spike duplicate.  
QA/QC - Quality assurance/quality control.  
TAL - Target analyte list.

Table 4-3

**Surface Water, Sediment, and Seep Water Sample Designations and QA/QC Sample Quantities  
Artillery and Mortar Impact Areas South of Bains Gap Road, Parcels 138Q-X, 139Q-X, 140Q-X, 141Q-X, and 142Q-X  
Fort McClellan, Calhoun County, Alabama**

Sample Location	Sample Designation	Sample Matrix	Sample Depth (ft)	QA/QC Samples			Analytical Suite
				Field Duplicates	Field Splits	MS/MSD	
HR-138Q-SW/SD01	HR-138Q-SW/SD01-SW-YE2001-REG	Surface Water	N/A	HR-138Q-SW/SD01-SD-YE1002-FD			TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-138Q-SW/SD01-SD-YE1001-REG	Sediment	0-0.5				
HR-138Q-SW/SD02	HR-138Q-SW/SD02-SW-YE2002-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-138Q-SW/SD02-SD-YE1003-REG	Sediment	0-0.5				
HR-138Q-SW/SD03	HR-138Q-SW/SD03-SW-YE2003-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-138Q-SW/SD03-SD-YE1004-REG	Sediment	0-0.5				
HR-138Q-SW/SD04	HR-138Q-SW/SD04-SW-YE2004-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-138Q-SW/SD04-SD-YE1005-REG	Sediment	0-0.5				
HR-138Q-SW/SD05	HR-138Q-SW/SD05-SW-YE2005-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-138Q-SW/SD05-SD-YE1006-REG	Sediment	0-0.5				
HR-138Q-SEEP01	HR-138Q-SEEP01-SEP-YE2005-REG	Seep Water	N/A				TAL Metals, Nitroexplosives, Perchlorate
HR-138Q-SEEP02	HR-138Q-SEEP02-SEP-YE2006-REG	Seep Water	N/A				TAL Metals, Nitroexplosives, Perchlorate
HR-139Q-SW/SD01	HR-139Q-SW/SD01-SW-YG2001-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-139Q-SW/SD01-SD-YG1001-REG	Sediment	0-0.5				
HR-140Q-SW/SD01	HR-140Q-SW/SD01-SW-YH2001-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-140Q-SW/SD01-SD-YH1001-REG	Sediment	0-0.5				
HR-141Q-SW/SD01	HR-141Q-SW/SD01-SW-YJ2001-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-141Q-SW/SD01-SD-YJ1001-REG	Sediment	0-0.5				
HR-141Q-SW/SD02	HR-141Q-SW/SD02-SW-YJ2002-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-141Q-SW/SD02-SD-YJ1002-REG	Sediment	0-0.5				
HR-141Q-SW/SD03	HR-141Q-SW/SD03-SW-YJ2003-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-141Q-SW/SD03-SD-YJ1003-REG	Sediment	0-0.5				
HR-142Q-SW/SD01	HR-142Q-SW/SD01-SW-YL2001-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-142Q-SW/SD01-SD-YL1001-REG	Sediment	0-0.5				
HR-142Q-SW/SD02	HR-142Q-SW/SD02-SW-YL2002-REG	Surface Water	N/A				TAL Metals, Nitroexplosives, Perchlorate TOC, Grain Size (sediment only)
	HR-142Q-SW/SD02-SD-YL1002-REG	Sediment	0-0.5				

MS/MSD - Matrix spike/matrix spike duplicate.  
NA - Not applicable.  
QA/QC - Quality assurance/quality control.

REG - Field sample.  
TAL - Target analyte list.  
TOC - Total organic carbon.

Table 4-4

**Analytical Samples  
Artillery and Mortar Impact Areas South of Bains Gap Road, Parcels 138Q-X, 139Q-X, 140Q-X, 141Q-X, and 142Q-X  
Fort McClellan, Calhoun County, Alabama**

Parameters	Analysis Method	Sample Matrix	TAT Needed	Field Samples			QA/QC Samples <sup>(a)</sup>					EMAX	QA Lab	
				No. of Sample Points	No. of Events	No. of Field Samples	Field Dups (10%)	Splits w/ QA Lab (5%)	MS/MSD (5%)	Trip Blank (1/ship)	Eq. Rinse (1/wk/matrix)	Total No. Analysis	Total No. Analysis	
<b>Artillery and Mortar Impact Areas South of Bains Gap Road: 14 water matrix sample:</b> (2 seep water samples and 12 surface water samples) <b>40 soil matrix samples</b> (14 surface soil samples, 14 subsurface soil samples, 12 sediment samples )														
Tot TAL Metals	6010B/7000	water	normal	14	1	14	2	1	1		1	19	1	
Nitroexplosives	8330	water	normal	14	1	14	2	1	1		1	19	1	
Perchlorate	314	water	normal	14	1	14	2	1	1		1	19	1	
TAL Metals	6010B/7000	soil	normal	40	1	40	4	2	2		1	49	2	
Nitroexplosives	8330	soil	normal	40	1	40	4	2	2		1	49	2	
Perchlorate	314	soil	normal	40	1	40	4	2	2		1	49	2	
TOC	9060	sediment	normal	12	1	12						12	0	
Grain Size	ASTM D-421/D-422	sediment	normal	12	1	12						12	0	
<b>Artillery and Mortar Impact Areas South of Bains Gap Road:</b>							186	18	9	9	0	6	228	9

<sup>a</sup>Field duplicate, QA split, and MS/MSD samples were calculated as a percentage of the field samples collected per site and were rounded to the nearest whole number. Trip blank samples will be collected in association with water matrix samples for VOC analysis only. Assumed four field samples per day to estimate trip blanks. Equipment blank will be collected once per event whenever sampling equipment is field decontaminated and re-used. They will be repeated weekly for sampling events that are anticipated to last more than 1 week. Assumed 20 field samples will be collected per week to estimate number of equipment blank:

Ship samples to:

EMAX Laboratories, Inc.  
630 Maple Avenue  
Torrance California  
Attn: Elizabeth McIntyre  
Tel: 310-618-8889  
Fax: 310-618-0818

USACE Laboratory split samples are shipped to:

U.S. Army Engineer District, Savannah  
Environmental & Materials District  
Attn: Sample Receiving  
200 North Cobb Parkway  
Building 400, Suite 404  
Marietta, Georgia 30062  
Tel: 678-354-0310

MS/MSD - Matrix spike/matrix spike duplicate  
PCB - Polychlorinated biphenyl  
QA/QC - Quality assurance/quality control  
TCL - Target compound list.  
TOC - Total organic carbon