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NAS CECIL FIELD, FL
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WORK PLAN REVISION FOR WORK PLAN ADDENDUM 23 MUNITIONS RESPONSE FOR
DISCARDED MILITARY MUNITIONS AT HANGAR 860 NAS CECIL FIELD FL
6/26/2006
CH2MHILL CONSTRUCTORS INC



WORK PLAN REVISION

REVISION NO: 01
CONTRACT NO: N62467-01-D-0331

PROJECT NAME: Former Naval Air Station Cecil Field, Jacksonville, Florida CTO NO: 0029
 SITE/TASK: Munitions Response Site, Hangar 860 WORK PLAN DATE: April 2006
 WORK PLAN NAME: Work Plan Addendum No. 23, Munitions Response for Discarded Military Munitions at Hangar 860 DATE OF REVISION: June 26, 2006
 REVISION PREPARED BY: Michael Halil

Modifications/Revisions:	
Item No.	Description of Modifications/Revisions
Purpose	The purpose of this Work Plan Revision is to revise Work Plan Addendum No. 23, Munitions Response for Discarded Military Munitions at Hangar 860 located at the former Naval Air Station Cecil Field, Jacksonville, Florida based on encountered site conditions and the necessity to include munitions and explosives of concern (MEC) impact to soil determination and pre- and post-MEC detonation site impact determination soil sampling and laboratory analyses.
001	<p>Section 7.0, Sampling and Analysis Plan</p> <p>Revise to include MEC impact to soil determination and pre- and post-MEC detonation site impact determination soil sampling and laboratory analyses.</p> <p>MEC impact to soil determination includes soil sampling and laboratory analyses for eight RCRA metals and explosives from three discrete locations where significant quantities of MEC were recovered to determine if MEC has caused an adverse impact to the surrounding soil. Soil samples will be collected from two locations where cartridge actuated initiators (CAIs) were recovered (one sediment sample from the open stormwater drainage ditch and one unsaturated soil sample) and one location where signal cartridges were recovered. Twenty-millimeter (mm) projectiles and cartridge actuated devices (CADs) were shown to not cause an adverse environmental impact based on analytical results from the Building 365 munitions response site, and therefore locations at the Hangar 860 site where these MEC types were recovered will not be sampled and laboratory analyzed.</p> <p>Pre- and post-MEC detonation site impact determination includes the soil sampling and laboratory analyses from the detonation sites (before and after MEC detonations) to ensure soil impacted by MEC detonations has been sufficiently removed. Five to six grab samples will be collected pre-MEC detonation from the five to six detonation sites and laboratory analyzed for eight RCRA metals and explosives. Four grab samples will be collected post-MEC detonation from each type of detonation site (one each for 20-mm projectile, CAD, CAI, and signal cartridge) and laboratory analyzed for eight RCRA metals and explosives. In addition, one composite sample will be collected from the five to six detonation sites and laboratory analyzed for eight RCRA metals and explosives. Post-MEC detonation samples will be collected following detonation residue and debris removal.</p> <p>Laboratory analysis for explosives has also been added to the soil/solids characterization sampling task.</p> <p>The additional sampling events, the sampling and analytical requirements, along with the required level of quality and data packages are provided on the attached Table 7-2, Revision No. 01.</p>

Reasons for the Modifications/Revisions:

Item No.	Reasons for the Modifications/Revisions
001	Revised to include soil sampling and analytical requirements to verify that the presence of MEC at the site and MEC detonation activities have not caused impacts to site soil.

<p>Michael Halil CTO Project Manager</p>	 <p>Signature</p>	<p>06/28/2006 Date</p>
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<p>Scott Smith Program Manager</p>	 <p>Signature</p>	<p>06/28/2006 Date</p>
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<p>U.S. Navy Responsible Authority</p>	<p>Signature</p>	<p>Date</p>
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TABLE 7-2 REVISION NO. 01 (R1)
Sampling and Analytical Summary

Sample Task	Sample Point	Matrix	Sampling Frequency	Approx No of Samples	Sampling Method	Sampling Equipment	TAT ¹	Data Package Reqmnt	Required Analysis	Analytical Method	Holding Time	Sample Preservtn	Containers
MEC Impact to Soil Determination	Locations of Large Quantity of Discrete MEC Recovery (CAI, signal cartridge)	Soil/ Sediment	Once	3 Samples (2 Soil/1 Sediment) + 1 DUP + 1 MS + 1 MSD = 6	Grab	SS spoon, SS bowl	14 day	CCI Level C	Nitroaromatic Explosives	8330	14 day extr; 40 day analysis	Cool to 4°C	(2) 8oz amber glass
									8 RCRA Metals	6010A/7471	6 month; Hg 28 days		
	Pre-Equipment Blank	Water	1 per 10 samples	1 per event	Prepared in Field	Analyte-free water, SS funnel	14 day	CCI Level C	Explosives	8330	7 days ext; 40 days analysis	Cool to 4°C	(4) 1L amber glass
									8 RCRA Metals	6010B/7470A	180 days; Hg = 28 days		
	Post-Equipment Blank	Water	1 per 10 samples	1 per event	Prepared in Field	Analyte-free water, SS funnel	14 day	CCI Level C	Explosives	8330	7 days ext; 40 days analysis	Cool to 4°C	(4) 1L amber glass
									8 RCRA Metals	6010B/7470A	180 days; Hg = 28 days		
Pre-/Post-MEC Detonation Site Impact Determination	Discrete MEC Detonation Locations/ Composite of all MEC Detonation Locations	Soil	Twice (Pre-/Post-)	Pre-Detonation Event: 5 to 6 Samples + 1 DUP + 1 MS + 1 MSD = 8 to 9; Post-Detonation Event: 4 Grab/1 Composite Samples + 1 DUP + 1 MS + 1 MSD = 8; Total for both events: 16 to 17	Grab/ Composite	Hand Auger, SS spoon, SS bowl	14 day	CCI Level C	Nitroaromatic Explosives	8330	14 day extr; 40 day analysis	Cool to 4°C	(2) 8oz amber glass
									8 RCRA Metals	6010A/7471	6 month; Hg 28 days		
	Pre-Equipment Blank	Water	1 per 10 samples	1 per event	Prepared in Field	Analyte-free water, SS funnel	14 day	CCI Level C	Explosives	8330	7 days ext; 40 days analysis	Cool to 4°C	(4) 1L amber glass
									8 RCRA Metals	6010B/7470A	180 days; Hg = 28 days		
	Post-Equipment Blank	Water	1 per 10 samples	1 per event	Prepared in Field	Analyte-free water, SS funnel	14 day	CCI Level C	Explosives	8330	7 days ext; 40 days analysis	Cool to 4°C	(4) 1L amber glass
									8 RCRA Metals	6010B/7470A	180 days; Hg = 28 days		

TABLE 7-2 REVISION NO. 01 (R1)
 Sampling and Analytical Summary

Sample Task	Sample Point	Matrix	Sampling Frequency	Approx No of Samples	Sampling Method	Sampling Equipment	TAT ¹	Data Package Reqmnt	Required Analysis	Analytical Method	Holding Time	Sample Preservtn	Containers
Soil/Solids Characterization Sampling	20cy roll-off container	Soil/Solids	Once	1	Composite 5 random grabs into 1 sample	SS spoon, SS bowl	7 day	CCI Level B	TCLP Volatiles	1311/8260B	14 day TCLP extr; 14 day analysis	Cool to 4°C	(1) 4 oz amber glass
									TCLP Semi-Volatiles	1311/8270C	14 day TCLP extr; 7 day extr; 40 day analysis		
									TCLP Metals	1311/6010A/7470	6 month TCLP extr; 6 month analysis Hg: 28 day TCLP extr; 28 day analysis		
									TCLP Pesticides	1311/8081A	14 day TCLP extr; 7 day extr; 40 day analysis		
									TCLP Herbicides	1311/8151A	14 day TCLP extr; 7 day extr; 40 day analysis		
									PCBs	8082	14 day extr; 40 day analysis		
									Nitroaromatic Explosives	8330	14 day extr; 40 day analysis		
									Corrosivity	9045a	ASAP		
Ignitability	1010/1020	ASAP	(5) 8 oz amber glass										

1. Calendar days
2. Equipment blanks will be collected once per day.