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NAS CECIL FIELD, FL
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WORK PLAN REVISION 2 FOR WORK PLAN ADDENDUM 18 INSTALLATION OF AIR
SPARGING SYSTEMS AT JET ENGINE TEST CELL AND BUILDING 271 NAS CECIL FIELD
FL
12/5/2006
CH2MHILL CONSTRUCTORS INC



PROJECT NAME: Former Naval Air Station (NAS) Cecil Field,
Jacksonville, Florida CTO NO: RAC III 0086

SITE/TASK: Soil Sampling at Bldg 46 Site WORK PLAN DATE: August 2003

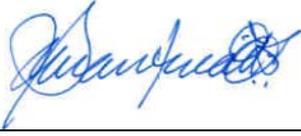
WORK PLAN NAME: Work Plan Addendum No. 18 – Installation of Air
Sparging Systems at the Jet Engine Test Cell (JETC) and
Building 271 DATE OF REVISION: December 5, 2006

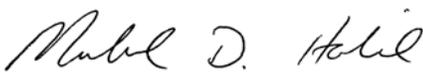
REVISION PREPARED BY: Sam Naik

Modifications/Revisions:	
Item No.	Description of Modifications/Revisions
Purpose	<p>The purpose of this Work Plan Revision is to supplement the RAC III CTO No. 0086 Work Plan Addendum No. 18 with detailed information for soil sampling at Bldg. 46 sites at the former NAS Cecil Field, Jacksonville, Florida. The site location is shown in Figure 1. Soil samples from three locations (SB-1, SB-2 and SB-14) shown in Figure 2 will be obtained using a hand auger by Terraine, Inc., (Terraine), who is the Navy’s contractor conducting quarterly soil and groundwater sampling at this site.</p> <p>CH2MHILL will obtain split samples from the soil sample volume collected by Terraine, in bottles obtained by CH2MHILL from its offsite laboratory subcontractor. Split samples will be collected from approximate depth of 6 feet below ground surface (or existing capillary fringe area just above the current water table depth at the site). CH2MHILL will prepare the samples for shipment and ship the samples to be analyzed at CH2MHILL’s subcontracted offsite laboratory for volatile organic compounds (VOCs) and polyaromatic hydrocarbons (PAHs), including 1-methylnaphthalene and 2-methylnaphthalene using the Synthetic Precipitation Leaching Procedure (SPLP), to determine leachability of soil contamination into groundwater at this site.</p> <p>This revision provides the supplemental details necessary to conduct soil sampling such as sampling parameters and analytical requirements, the updated role assignments for the primary and alternate Project Quality Control (QC) Managers, and the updated Activity Hazard Analysis forms.</p> <p>Following are the specific modifications/revisions:</p>
001	Site map and sampling location figures - Figures 1 and 2.

002	<p>Table 3-2, Sampling and Analysis Summary Table</p> <p>Includes soil boring IDs, sample quantities and collection frequency, and the required laboratory methods for the analysis of these samples. Additionally, the sampling and analytical requirements, along with the required level of quality and data packages are those provided in the NAS Cecil Field Basewide Work Plan (CH2MHILL, 1998).</p> <hr/> <p>Although CH2MHILL will not collect samples from the ground, the following sampling procedure is included as reference. Terrain is an independent subcontractor to the Navy and will collect these soil samples.</p> <p><i>Procedure for Collecting Soil Samples for Volatile Fractions</i></p> <ol style="list-style-type: none"> 1. Using a split spoon, or other device retrieve a core from the location and depth to be sampled. (Note: A hand auger will not maintain core integrity and should not be used for volatile sampling. The hand auger can be used to advance the boring to just above the depth to be sampled.) 2. Remove the core from split spoon, or other device. 3. Open one of the disposable syringes. 4. Push the syringe directly into the center of the core, and fill to the 5 cc mark. 5. Take the syringe and push the contents into one of the three vials received from the laboratory. 6. Immediately cap the vial (note: ideally the entire operation; filling the syringe, pushing it into the vial, and capping the vial should not take more than 1 minute). 7. Repeat the process for the other two vials. 8. Label the vials. 9. Place in cooler for shipment to the laboratory. <p><i>Procedure for Collecting Non-Volatile Samples</i></p> <ol style="list-style-type: none"> 1. Using a split spoon, or other device retrieve a core from the location and depth to be sampled. 2. Collect several spoonfuls of the soil into a stainless steel bowl. 3. Homogenize the grab samples by the quartering techniques using the stainless steel spoon. 4. Fill the appropriate sample jars full with the homogenized sample. 5. Close the jar, label, and package the sample for shipment to the laboratory.
003	<p>Section 6.1; Project Quality Control Manager</p> <p>The primary Project QC Manager will be Mr. Craig Haas, CH2MHILL. Mr. Haas will also serve as the Site Superintendent and Site Health and Safety Specialist. The Alternate Project QC Manager will be Mr. Randy Dumaop. The Project QC Manager appointment letters for Mr. Haas and Mr. Dumaop are attached.</p>

Reasons for the Modifications/Revisions:	
Item No.	Reasons for the Modifications/Revisions
All	This revision is being prepared to facilitate soil sampling at the Bldg 46 site to obtain data regarding leachability of soil contamination into groundwater at this site. This supplemental sampling and analytical results will aid in determining the path forward for additional remedial activities at this site originally proposed under Statement of Work No. 085, dated 21 March, 2002.

_____ Sam Naik CTO Project Manager	 _____ Signature	_____ 12/05/2006 Date
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_____ Michael Halil Deputy Program Manager	 _____ Signature	_____ 12/05/2006 Date
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_____ U.S. Navy Responsible Authority	_____ Signature	_____ Date
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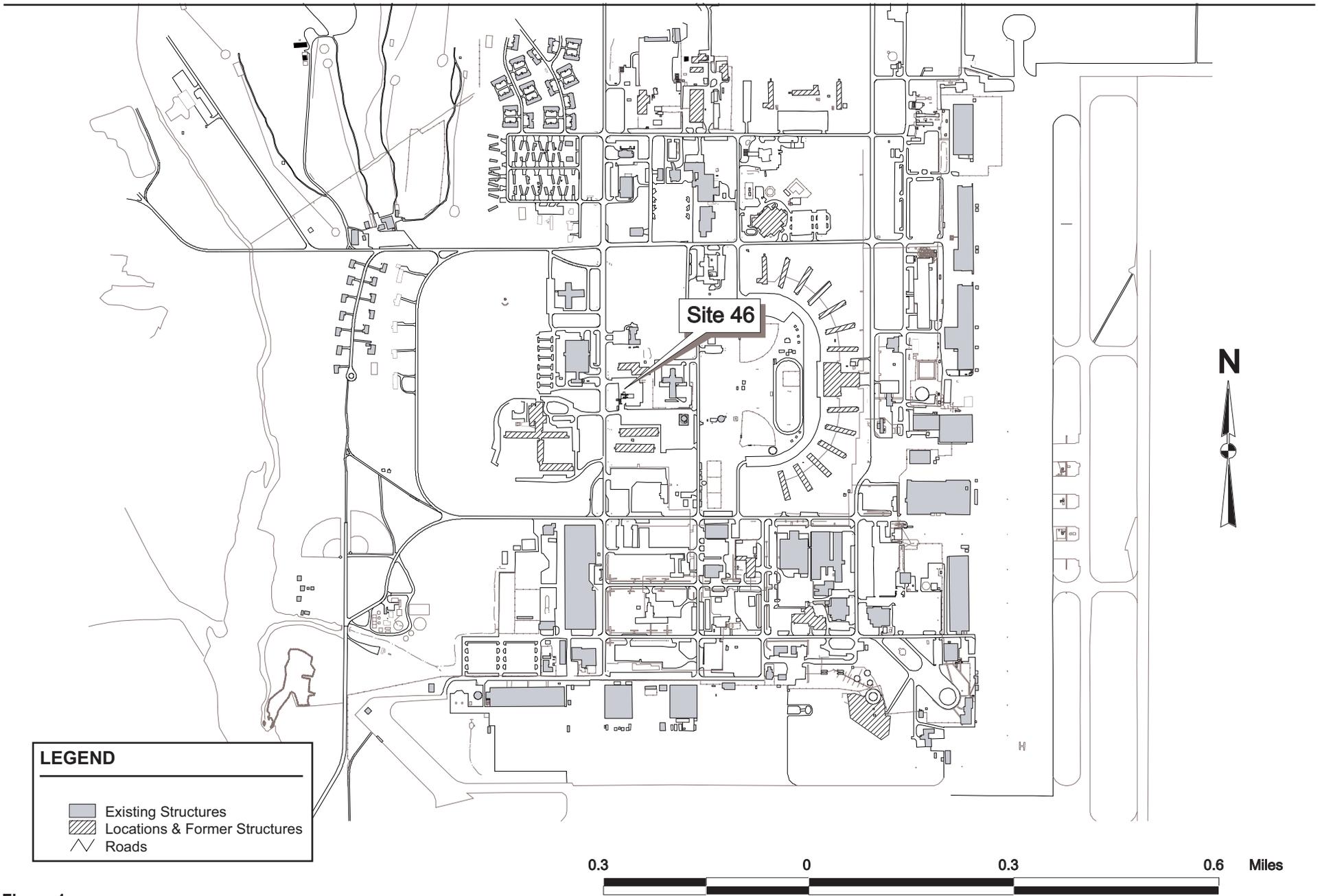
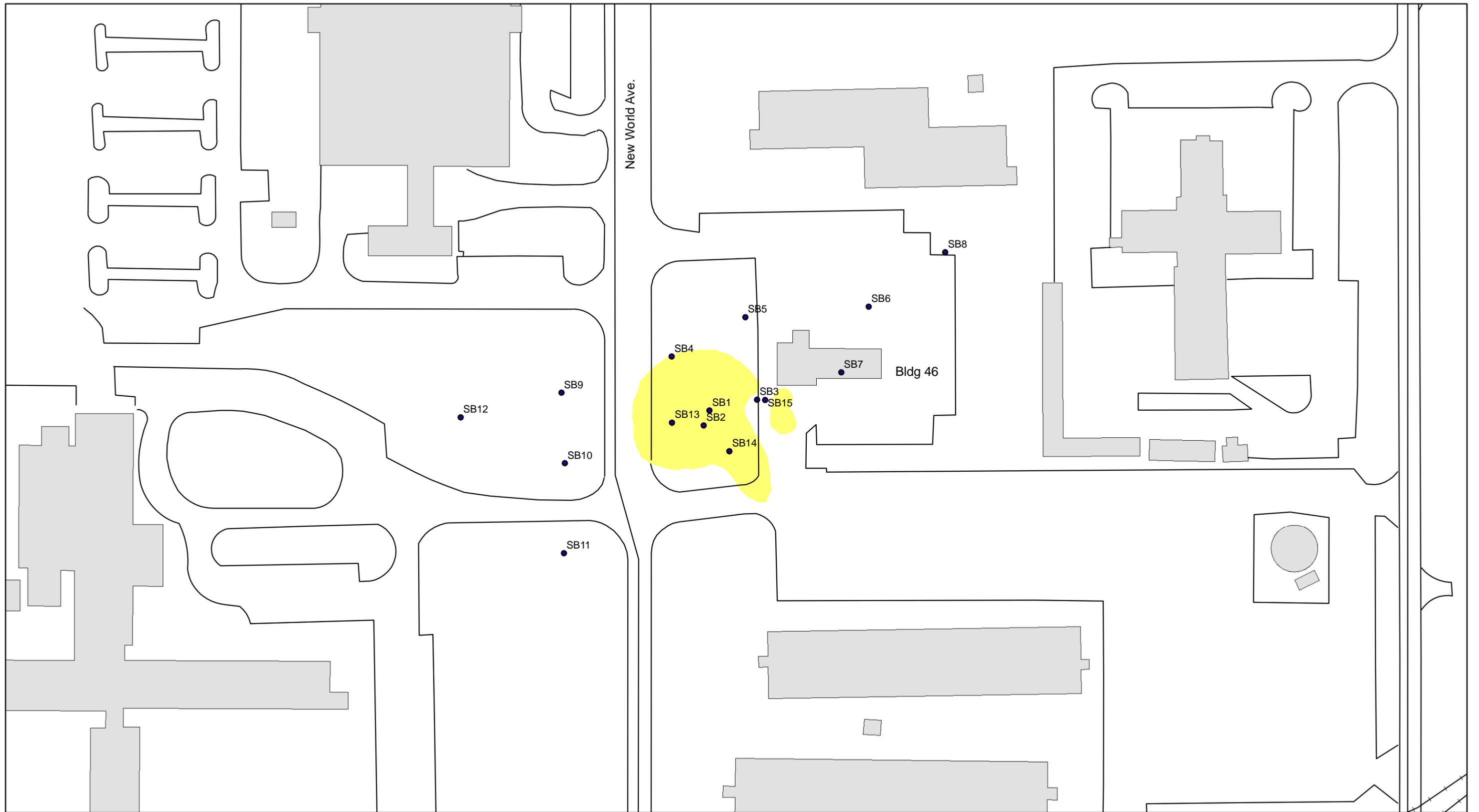


Figure 1
 Site Location Map
 Building 46, Naval Air Station, Cecil Field, Jacksonville, Florida



- Road
- Building
- Contaminated Soil
- Soil Boring

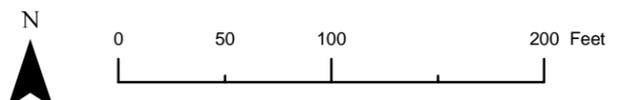


Figure 2
 Soil Boring Locations- Bldg 46 Site
 Cecil Field NAS
 Jacksonville, Florida

TABLE 3-2
Sampling and Analytical Summary

Table 3-2 Soil Characterization Sampling, Building 46 Stie, Former NAS Cecil Field, Jacksonville, FL (CTO 86, RACIII).

	Sample Point	Matrix	Sampling Frequency	Approx Sample No	Sampling Method	Sampling Equipment	TAT ¹	Data Package Reqmnt	Required Analysis	Analytical Method	Holding Time	Sample Preservtn	Containers
Soil Characterization using SPLP Analysis	Three existing soil sample locations ² - SB-1, SB-2 and SB-14	Soil	1 sample at each boring	3	VOCs collected from a single grab using a split spoon; Split sample obtained from Terraine Inc's sampling location.	Hand Auger SS spoon, SS bowl	7 day	CCI Level B	SPLP Volatiles	1312/8260B	14 day SPLP extr; 14 day analysis	Cool to 4°C	(1) 4 oz amber glass
									SPLP PAHs including 1-methylnaphthalene and 2-methylnaphthalene.	1312/8310	14 day SPLP extr; 7 day extr; 40 day analysis	Cool to 4°C	(4) 8 oz amber glass

Notes:

1. Calendar days

2. Sample locations SB-1, SB-2, and SB-14 will be located in the field by Terraine, Inc.

ATLWPINAVY RACINAS CECIL FIELDVADD18CTO 86 Bldg 46 SAP Table 3-2_sn_kw.xls



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November 1, 2006

Mr. Craig Haas
CH2M HILL Constructors, Inc.
225 East Robinson Street Suite 505
Orlando, Florida 32801-4321

RE: Contract No. N62467-98-D-0995
Contract Task Order No. 0086
Naval Air Station (NAS) Cecil Field – Jacksonville, Florida
Project Quality Control Manager Letter of Appointment

Dear Mr. Haas:

Herein describes the responsibilities and authority delegated to you in your capacity as the Project QC Manager on the NAS Cecil Field site, Contract Task Order (CTO) 0086 under RAC III Contract No. N62467-98-D-0995.

In this position, you assist and represent the Program QC Manager in continued implementation and enforcement of the Project QC Plans. Your primary role is to ensure all requirements of the contract are met. Consistent with this responsibility, you will: (i) implement the QC program as described in the Navy RAC contract; (ii) manage the site-specific QC requirements in accordance with the Project QC Plans; (iii) attend the coordination and mutual understanding meeting; (iv) conduct QC meetings; (v) oversee implementation of the three phases of control; (vi) perform submittal review and approval; (vii) ensure testing is performed; (viii) prepare QC certifications and documentation required in the Navy RAC Contract; and, (ix) furnish a Completion Certificate to the Contracting Officer or designated representative, upon completion of work under a contract task order, attesting that "the work has been completed, inspected, and tested, and is in compliance with the contract."

Your responsibilities further include identifying and reporting quality problems, rejecting nonconforming materials, initiating corrective actions, and recommending solutions for nonconforming activities.

You have the authority to control or stop further processing, delivery, or installation activities until satisfactory disposition and implementation of corrective actions are achieved. You have the authority to direct the correction of non-conforming work. All work requiring corrective action will be documented on daily reports, and, in the event non-conforming work is not immediately corrected you are required to submit a non-conformance report to the PM and copy the Program QC Manager. A status log will be kept of all non-conforming work. You shall immediately notify the Program QC Manager in the event of any stop work order.

It is imperative that you comply with all terms of the basic contract. In particular, Section C, Paragraph 6.5.2, which states:

"No work or testing may be performed unless the QC Program Manager or Project QC Manager is on the work site."

In the event that you are not able to be at the work site when work or testing is to be performed, it is your responsibility to inform the Program QC Manager and Project Manager, in advance, so that other arrangements can be made.

Further, if you are requested to perform the duties of the Site Supervisor, it is your responsibility to inform the Program QC Manager so that approval can be obtained in advance from the Contracting Officer or designated representative, in accordance with Section C Paragraph.6.2.1of the contract.

You are a key member of the Project Manager's team. You ensure that work meets the specific requirements and intent of the work plan, the Navy's scope of work and the basic contract. Should you have any questions regarding this role, you should immediately contact the Program QC Manager, Theresa Rojas. Your day-to-day activities on the site should be coordinated with all site personnel and the Project Manager. In event of any deficient items, the Superintendent and Project Manager should be advised immediately so they have opportunity to remedy the situation.

Sincerely,

CH2M HILL Constructors, Inc.



Michael Halil
Deputy Program Manager

cc: Eric Burrell/ATL
Theresa Rojas/ATL
Project File No. 271591



CH2M HILL
115 Perimeter Center Place, N.E.
Suite 700
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November 1, 2006

Mr. Randy Dumaop
AGVIQ Environmental Services
6219 Authority Avenue
Jacksonville, Florida 32221

RE: Contract No. N62467-98-D-0995
Contract Task Order No. 0086
Naval Air Station (NAS) Cecil Field - Jacksonville, Florida
Alternate Project Quality Control Manager Letter of Appointment

Dear Mr. Dumaop:

Herein describes the responsibilities and authority delegated to you in your capacity as the alternate Project QC Manager on the NAS Cecil Field, Contract Task Order (CTO) 0086 under RAC Contract No. N62467-98-D-0995.

In this position, you assist and represent the Project QC Manager in the event that he is not on the project site and the Program QC Manager in continued implementation and enforcement of the Project QC Plans. Your primary role is to ensure all requirements of the contract are met. Consistent with this responsibility, you will: (i) implement the QC program as described in the Navy RAC contract; (ii) manage the site-specific QC requirements in accordance with the Project QC Plans; (iii) attend the coordination and mutual understanding meeting; (iv) conduct QC meetings; (v) oversee implementation of the three phases of control; (vi) perform submittal review and approval; (vii) ensure testing is performed; , (viii) prepare QC certifications and documentation required in the Navy RAC Contract; and, (ix) furnish a Completion Certificate to the Contracting Officer or designated representative, upon completion of work under a contract task order , attesting that "the work has been completed, inspected, and tested, and is in compliance with the contract."

Your responsibilities further include identifying and reporting quality problems, rejecting nonconforming materials, initiating corrective actions, and recommending solutions for nonconforming activities.

You have the authority to control or stop further processing, delivery, or installation activities until satisfactory disposition and implementation of corrective actions are achieved. You have the authority to direct the correction of non-conforming work. All work requiring corrective action will be documented on daily reports, and, in the event non-conforming work is not immediately corrected you are required to submit a non-conformance report to the PM and copy the Program QC Manager. A status log will be kept of all non-conforming work. You shall immediately notify the Program QC Manager in the event of any stop work order.

It is imperative that you comply with all terms of the basic contract. In particular, Section C, Paragraph 6.5.2, which states:

"No work or testing may be performed unless the QC Program Manager or Project QC Manager is on the work site."

In the event that you are not able to be at the work site when work or testing is to be performed, it is your responsibility to inform the Program QC Manager and Project Manager, in advance, so that other arrangements can be made.

Further, if you are requested to perform the duties of the Site Supervisor, it is your responsibility to inform the Program QC Manager so that approval can be obtained in advance from the Contracting Officer or designated representative, in accordance with Section C Paragraph.6.2.1of the contract.

You are a key member of the Project Manager's team and ensure that work meets the specific requirements and intent of the work plan, the Navy's scope of work and the basic contract. Should you have any questions regarding this role, you should immediately contact the Program QC Manager, Theresa Rojas. Your day-to-day activities on the site should be coordinated with all site personnel and the Project Manager. In event of any deficient items, the Superintendent and Project Manager should be advised immediately so they have opportunity to remedy the situation.

You may be assigned other responsibilities concurrent with this assignment. Regardless of other responsibilities assigned, you shall take your QC and safety responsibilities as primary. Any other assigned responsibilities shall be secondary to your QC and safety responsibilities.

Sincerely,

CH2M HILL Constructors, Inc.



Michael Halil
Deputy Program Manager

cc: Eric Burrell/ATL
Theresa Rojas/ATL
Project File No. 271591