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NAS CECIL FIELD, FL
5090.3a

TECHNICAL MEMORANDUM COMPLETION REPORT ON DISASSEMBLY AND DISPOSAL
OF BIOSPARGE/SOIL VAPOR EXTRACTION SYSTEM EQUIPMENT AT DAY TANK 1 SITE
NAS CECIL FIELD FL
10/14/2009
CH2MHILL CONSTRUCTORS INC

Completion Report, Disassembly and Disposal of Biosparge/Soil Vapor Extraction System Equipment Day Tank 1 Site, NAS Cecil Field, Jacksonville, FL

PREPARED FOR: NAS Cecil Field BRAC Cleanup Team
PREPARED BY: CH2M HILL Project Team
COPIES: Project File 271591
DATE: October 14, 2009

Introduction

CH2M HILL Constructors, Inc. (CH2M HILL) completed the disassembly and disposal of the biosparge/soil vapor extraction (BS/SVE) system equipment at the former Day Tank 1 site at the former Naval Air Station (NAS) Cecil Field, Jacksonville, Florida. This effort was conducted under Contract No. N62467-98-D-0995, Task Order 0086, with the U.S. Naval Facilities Engineering Command Southeast (NAVFAC SE) (the Navy).

The Day Tank 1 site is located at NAS Cecil Field, South of the "A" Avenue gate on the former Jet Road, North of Buildings 824 and 824A, and West of Building 846. The site formerly contained a 200,000-gallon aboveground storage tank (AST), piping, and associated equipment to supply jet fuel to the high-speed refuelers located on the flightline. Figure 1-1 shows the site location at NAS Cecil Field.

Previous investigations at this site indicated significant subsurface impacts resulting from leaks and operations associated with the AST. The AST was removed, and 24,000 tons of contaminated soil was excavated in November 1999 by CH2M HILL/J.A. Jones, LLC (CH2M HILL-Jones). A Remedial Action Plan, prepared to address subsurface contamination, proposed a BS/SVE system to be installed subsequent to the soil excavation. The remediation system was constructed by CH2M HILL-Jones between January and February 2000, and operated at the Day Tank 1 site from February 2000 to August 2003. The system was deactivated in 2003, based on evidence of groundwater cleanup from the groundwater monitoring data collected during routine operation and maintenance activities. The Florida Department of Environmental Protection (FDEP) directed that post-active remediation monitoring be commenced at the site in accordance with Chapter 62-770.750, Florida Administrative Code.

In October 2006, FDEP issued a Natural Attenuation Monitoring Plan Approval Order for the site. Groundwater monitoring is currently being conducted by other contractors for the Navy. The Navy directed CH2M HILL to disassemble and dispose of the BS/SVE system equipment and the canopy shed housing the equipment.

CH2M HILL prepared and submitted the *Work Plan Revision 2 [WPR]* to *Work Plan Addendum No. 12, Operation and Maintenance of the Remediation Systems at Day Tank 1, South Fuel Farm, and 103rd Street and A Avenue, RAC III CTO No. 0062* to the NAS Cecil Field Base

Realignment and Closure Cleanup Team during March 2009. Disassembly and disposal of the BS/SVE system equipment was conducted per the methodology described in the WPR.

System Disassembly and Disposal

Mobilization and Site Preparation

Prior to commencement of the field activities, CH2M HILL coordinated location of buried utilities and energized power lines with the Jacksonville Aviation Authority, who has the jurisdiction for utilities in this area of NAS Cecil Field. No buried utility lines were identified. Power lines to the system had been previously disconnected at the electrical pole, and no energized lines were identified at the site.

CH2M HILL procured the services of DNT Environmental Services, Inc. (DNT), to perform the disassembly and transportation and disposal of the BS/SVE system and the wooden canopy shed covering the system equipment.

DNT mobilized to the site on April 29, 2009. Appropriate safety meetings were held at the site by CH2M HILL prior to the commencement of the disassembly activities.

BS/SVE System Equipment Disassembly

DNT completed the disassembly of the BS/SVE system and the wooden canopy shed on April 29, 2009. The various parts of the BS/SVE system equipment were disassembled using small power tools and manual tools. The disassembled equipment parts were decontaminated at the site using a triple-rinse wash with water, and the liquids were contained in a 275-gallon polyvinyl tote provided by the Navy Public Works Department (PWD) from NAS Jacksonville, Florida. The decontaminated equipment parts were then transferred to a rolloff for transportation and offsite disposal.

Header pipes leading from the air compressor to the buried compressed air lines of the biosparge system, and the soil vapor collection lines connected to the blower, were disconnected aboveground and plugged with polyvinyl chloride (PVC) end caps in order to prevent infiltration of soil and rainwater into the buried sparge and SVE lines. No well abandonment was required by the Navy as part of the scope of this work. The existing concrete pad supporting the BS/SVE system remains in place as requested by the Navy.

The chain-link fence surrounding the site was disassembled by removing the bolts of the poles supporting the fence, and the fence parts were transferred to the rolloff using a front-end loader. The wooden canopy shed was pushed to its side and away from existing fencing after all the BS/SVE system equipment and the chain-link fence were removed. The metal roof of the shed and the four wooden posts and trusses were then dismantled manually using power tools and saws, and transferred to the rolloff using the front-end loader.

The concrete pad was cleared of all debris, and the debris was placed in the roll-off. Because project activities did not result in disturbance to soil and surrounding areas, no additional site restoration was required.

Transportation and Disposal Activities

On May 4, 2009, approximately 2.69 tons of solid waste accumulated from the disassembly of the BS/SVE system and the wooden canopy shed were transported to the Old Kings Road Landfill in Jacksonville, Florida, by Arwood Waste, Inc., under a contract with DNT. The weight ticket and certificate of disposal are included in Attachment 1.

Approximately 225 gallons of liquid waste were accumulated in the 275-gallon PVC tote, which was transported by the PWD on June 10, 2009. Analytical data from groundwater sampling activities at the site and a material safety data sheet for the cooling oil used in the abandoned air compressor at the site were provided by CH2M HILL to PWD prior to liquid waste transportation and disposal activities. These documents were used for waste profiling purposes by PWD. Liquid waste was disposed of by PWD at EWS Alabama, Inc., Glencoe, Alabama.

Attachment 1 includes copies of the construction waste disposal ticket and certificate of disposal, and a copy of the waste manifest for the liquid waste disposal.

Attachment 2 includes site photographs taken before and after disassembly of the BS/SVE system at the Day Tank 1 site.

Attachment 3 includes a copy of the waste storage and disposal log.

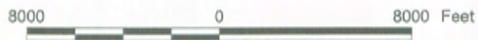
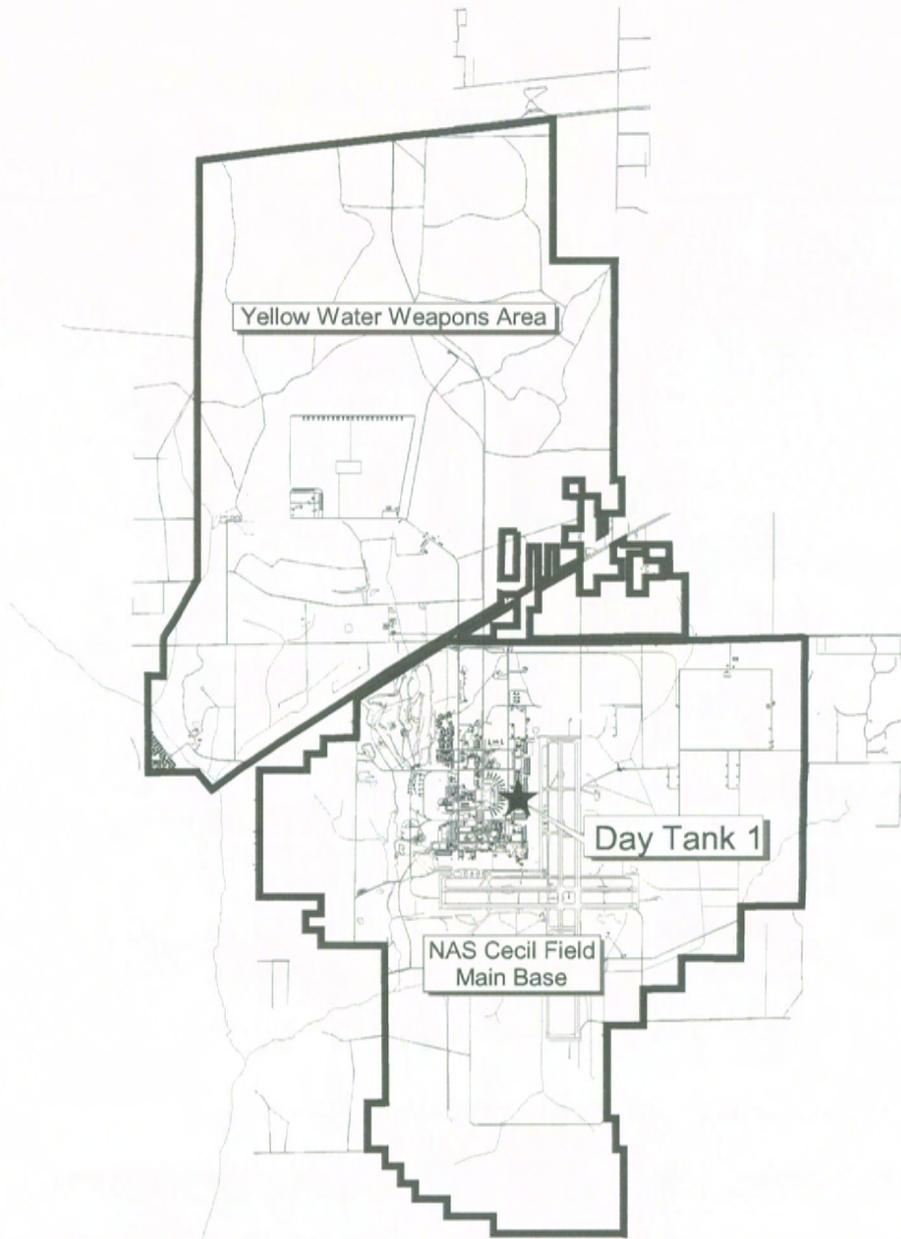
Attachment 4 includes a copy of the Submittal Register for documentation pertaining to the dismantling and disposal effort.

Health and Safety Compliance

All activities associated with the disassembly and disposal of the BS/SVE system equipment and wooden canopy shed were conducted per the approved Health and Safety Plan included in the WPR. No safety incidents or accidents occurred during the performance of these activities.

Conclusion

CH2M HILL successfully completed the dismantling and disposal of the equipment and wooden canopy shed associated with the Day Tank 1 site BS/SVE system. All activities were conducted as per the approved Health and Safety Plan and the methodology outlined in the WPR.



DRAWN BY	DATE
MJJ	15Jan03
CHECKED BY	DATE
COST/SCHEDULE-AREA	
SCALE AS NOTED	



SITE LOCATION MAP
DAY TANK 1 SARA No. 2
NAVAL AIR STATION CECIL FIELD
JACKSONVILLE, FLORIDA

CONTRACT NUMBER 0039	
APPROVED BY	DATE
<i>Jah</i>	1/19/06
APPROVED BY	DATE
DRAWING NO.	REV
FIGURE 1-1	0

Attachment 1
Copy of Waste Disposal Certificates



Old Kings Road Landfill
9540 Old Kings Road
Jacksonville, Florida 32219
(904) 768-5363

Customer Name:

DNT Environmental
1492 N Blair Bridge Rd.
Austell, GA 30168

Generator/Site Information:

Naval Facilities Engineering Command SE
NAS-Cecil Field Day Tank #1
CTO #0086

CERTIFICATE OF DISPOSAL

Old Kings Road Landfill has received 1 load and 2.69 tons of non-hazardous C&D waste material from:

NAS Cecil Field
Day Tank #1
CTO #0086

DNT Environmental certifies that all equipment, debris and general trash from the dismantling of an air sparge system at NAS Cecil Field Day Tank #1 was properly transported by Arwood, Inc. to Old Kings Road Landfill and disposed of as general construction debris.

John Teague

A handwritten signature in black ink that reads 'John Teague'.

DNT Environmental Services, Inc.
1492 N Blair Bridge Road
Austell, GA 30168

DNT Environment

300 Kings Road Landfill
3000 Old Kings Rd / PO Box 2087
Jacksonville, FL 32219
904-744-8333

Ticket: 200688 MEN. WT.
Date / Time: 4 May 2009 12:55 pm
4 May 2007 12:55 pm

00008

00000 IN

Contracts ANACED

Origin: DUVAL COUNTY
Reference:

Gross Weight 38,480.00 lb
Storage Tare Weight 33,360.00 lb
Net Weight 5,120.00 lb

2.42 TN Inbound - Ticket Invoice

Quantity	Unit	Description	Rate	Extension	Tax	Total
2.42	TN	CX EXHAUST Material				

By signing this I agree there is no hazardous waste, friable asbestos
NSW or other non-acceptable materials in this load. Net amount:
Driver: _____ ordered:



000000 00000

DAY TANK #1
CTO #0086

Rev 7/15/09

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number FL 5170022474	2. Page 1 of 1	3. Emergency Response Phone -800-424-9300	4. Manifest Tracking Number 005772802 -JKK
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5. Generator's Name and Mailing Address NAVFAC SE PWD JACKSONVILLE BOX 5, CODE PRJX41 NAVAL AIR STATION JACKSONVILLE, FL 32212-0005 ATTN: KENNY HENDL Generator's Phone: 904 542-5979	Generator's Site Address (if different than mailing address) NAVFAC SOUTHERN DIVISION 103RD AND NORMANDY BLVD JACKSONVILLE, FL 32215 KENNETH HENDL (DRMO JACKSONVILLE)
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6. Transporter 1 Company Name A.R. PAQUETTE	U.S. EPA ID Number FLD982105884
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7. Transporter 2 Company Name	U.S. EPA ID Number
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8. Designated Facility Name and Site Address EWS ALARAMA, INC. 402 WEBSTER CHAPEL RD GLENCOE, AL 35905 Facility's Phone: (800) 739-9156	U.S. EPA ID Number ALD981020894
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9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
		No.	Type					
1.	NON REGULATED LIQUID (OILY WATER)	001	TP	01876	P			
2.								
3.								
4.								

9. Special Handling Instructions and Additional Information 1: 92798-114 83 1X TOTE FL#: 005772802JJJ 2008 ERG#: 9-1: NA 9906 2: DC#: 476 3: TPO#: 12/45/068453 4: DPO#: 12/6/10/09 9-4: SP4500-07-D-0018

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offoror's Printed/Typed Name Kenneth H Hendl	Signature <i>Kenneth Hendl</i>	Month Day Year 06/10/09
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16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: Date leaving U.S.:
--	---

17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name David Bradley	Signature <i>David Bradley</i>	Month Day Year 06/10/09
Transporter 2 Printed/Typed Name	Signature	Month Day Year

18. Discrepancy 18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection

18b. Alternate Facility (or Generator)	U.S. EPA ID Number
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Facility's Phone:	18c. Signature of Alternate Facility (or Generator)	Month Day Year
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Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. #141	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name Dana Helms	Signature <i>Dana Helms</i>	Month Day Year 16/11/09
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Attachment 2
Site Photographs



Photograph 1 - View of Day Tank 1 Biosparge/Soil Vapor Extraction (BS/SVE) System Shed Prior to Disassembly



Photograph 2 - View of BS/SVE System Equipment Prior to Disassembly



Photograph 3 - View of Disconnected Power Lines at the Day Tank 1 Site (Previously Abandoned by the Utility Company)



Photograph 4 - View of Day Tank 1 Site Area After Disassembly of BS/SVE System Equipment, Canopy and Fence (Prior to Transportation and Disposal of Construction Debris)

Attachment 3
Waste Storage and Disposal Log

Waste Storage and Disposal Log, Day Tank 1 Site, NAS Cecil Field, Jacksonville, FL.

CTO No	Project No	Project Name	Site Description	Container Type	Container Desig.	Waste Profile Sample No	Contractor	Transporter	Date Transported	Transporter EPA ID	Load ID	Disposal Facility	Disp Fac EPA ID	Media	Waste Type (Haz, Nonhaz, TSCA)	Waste Code/ Haz Waste No	Disposal Date	Manifest Number	Disposal Treatment Method (Enter disposal quantity under appropriate method)					Certif of Disp/ Destruc Date	Comments/Notes	File Status (see note)
																			Incineration	Recycle	Landfill	Other	Unit			
0086	271591	Day Tank 1 Site, NAS Cecil Field	BS/SVE System	275-gallon plastic tote	101	MISDS from Air Compressor Equipment Co.	NAVFAC SE PWD	NAVFAC SE PWD	10-Jun-09	FL5170022474	n/a	Old Kings Road Landfill	ALD981020894	Water	Nonhaz	N/A	6/11/2009	005772802				x		N/A		
0086	271591	Day Tank 1 Site, NAS Cecil Field	BS/SVE System	Metal Rolloff	N/A	N/A; Non-haz. Construction Debris	DNT Environmental	Arwood Waste; NAVFAC SE PWD	4-May-09	Non-Haz. Waste; USDOT No. 928492	285688	Old Kings Road Landfill	N/A	Solid	Nonhaz	N/A	5/4/2009	Ticket No. 285688			x			5/4/2009		

Attachment 4
Submittal Register

Submittal Register

Contract Number: N62467-98-D-0995			CTO No.: 0086		CTO Title: Various Remedial Actions, NAS Cecil Field						Location: NAS Cecil Field, Jacksonville, FI			Contractor: CH2M HILL Constructors, Inc.				
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
Item Number	Spec Section	Item Description	Para. Number	Approving Authority	Other Reviewers	Submittal Number	Scheduled Submission Date	CH2MHILL Review Date	CH2MHILL Disposition	CH2MHILL Transmit Date	QC Admin Received Date	QC Disposition	QC Admin Transmit Date	Contracting Officer Received	Contracting Officer Disposition	Contracting Officer Return	Remarks	
		Day Tank 1Biosparge/SVE System																
	DIV 1	General Paragraphs																
		SD-09, Reports	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1	A	Work Plan Revision		CO			17-Mar-09	10-Mar-09	Approved	10-Mar-09	10-Mar-09	Approved	10-Mar-09	17-Mar-09	Approved	17-Mar-09	--	
2	B	Health & Safety Plan		CO			17-Mar-09	10-Mar-09	Approved	10-Mar-09	10-Mar-09	Approved	10-Mar-09	17-Mar-09	Approved	17-Mar-09	--	
		SD-18, Records			--	--	--	--	--	--	--	--	--	--	--	--	--	
3	B	Environmental Conditions Report		NTR			17-Mar-09	10-Mar-09	Approved	10-Mar-09	10-Mar-09	Approved	10-Mar-09	17-Mar-09	Approved	17-Mar-09	--	
4	D	Daily Production Reports		NTR			Daily	Daily	--	Daily	Daily	--	Daily	Daily	--	--	--	
5	E	QC Report		NTR			Daily	Daily	--	Daily	Daily	--	Daily	Daily	--	--	--	
6	H	Construction Documentation Report		CO			10/12/2009	--	--	--	--	--	--	--	--	--	--	
	DIV 2	Transportation and Disposal of Waste																
		SD-18, Records	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
7	A	Shipment Manifests		CH2MHILL													--	
8	B	Delivery Certificates		CH2MHILL			6-Oct-09	6-Oct-09	Approved	6-Oct-09	6-Oct-09	Approved	--	--	--	--	--	
9	E	Treatment and Disposal Certificate		CH2MHILL			6-Oct-09	6-Oct-09	Approved	6-Oct-09	6-Oct-09	Approved	--	--	--	--	--	