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Public Works Department
NAS Whiting Field**

7183 Langley St, Building 1416
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Whiting Field Progress Report

Installation Restoration Program

Public Works Department

Volume 11, Number 1

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NAS Whiting Field, 7183 Langley St, Bldg. 1416, Milton, Florida 32570-6159 • Telephone (850) 623-7017

Community Outreach Involvement

This newsletter has been created to solicit public input as well as inform the public on Installation Restoration (environmental cleanup) activities at Whiting Field. As a citizen in the area, you've been selected to receive this mailing to notify you of the most recent developments as well as solicit your input. The next Restoration Advisory Board (RAB) meeting is being held on January 31, 2012 at 7pm at NAS Whiting Field. If as a community member, you would like to be included in the improvement process, please contact Mike Pattison at 850-623-7017 by December 15, 2011.

Installation Restoration Program (IRP)

The Navy has initiated an IRP nationwide to identify, investigate and if necessary, clean up contamination at Navy installations, including Whiting Field. Contamination may have resulted from the handling practices of hazardous materials or accidental spills. In the majority of cases, the releases occurred before laws regulating hazardous materials handling and disposal were passed

To date, the Navy has identified 30 sites at Whiting Field where various potentially hazardous materials may have been handled or disposed. IRP sites identified at Whiting Field and their location is shown on the site status map on page 3. The current IRP sites status are listed in the table on page 4.

Land Use Controls (LUCs)

LUCs are corrective actions where restrictions are used to protect human health and the environment by limiting exposure to contaminated media such as soils, surface water or groundwater. LUCs offer a safe, simple and inexpensive alternative for managing low-risk sites. Some examples of LUCs are soil and/or concrete covers, warning signs or fences, and prohibitive directives to prevent activities such as digging or drilling.



Prior to implementation of LUCs at any site, Proposed Plans are submitted to the regulatory agencies to present these controls as the final remedy. After the agency comments are incorporated, a public comment period is held to solicit community feedback on the Proposed Plan. When regulatory and community concerns have been addressed, LUCs are implemented. LUCs are currently being evaluated as the potential remedy for numerous sites at Whiting Field.

Site 41 Final Remedy Selection for 2011

The final remedy selection for Site 41 has been completed. Information on this site is presented below, and the final remedy is described on Page 2 of this Progress Report.

- **Site 41 – Former Pesticide Storage Building 1485C:** The final remedy selected for this site was soil excavation to meet industrial level standards, off-site disposal, and LUCs to address soil contamination and restrict future use of the site to non-residential and non-recreational activities. The current and potential future land use at Site 41 is industrial.

Other than maintaining the LUCs and conducting periodic site inspections, no additional active remediation will be required for soil at Site 41. This remedy will reduce the human health risk associated with the site.

Inside. . .

Community Outreach
Involvement..... 1

Installation Restoration
Program (IRP)..... 1

Land Use Controls 1

Site 41 Final Remedy Selection
for 2011 1

Site Activities Update 2

Site 7 2

Site 39 2

Site 40 2

Site 41 2

NAS Whiting Field IRP Site

Status 3

Site Status Map 4

Former Gunnery Area and

Skeet Range 5

Site 4 5

This progress report is produced by Naval Air Station Whiting Field to keep you informed about the Installation Restoration Program at Naval Air Station Whiting Field.

Department of the Navy Public Works Department NAS Whiting Field

7183 Langley St Building 1416
Milton, Florida 32570-6159

Look for
The Next
Issue April
2012

SITE ACTIVITIES UPDATE

UST Site 7



Site 7, South Aviation Gas (AVGAS) Tank Sludge Disposal Area, is a former underground storage tank (UST) facility at the South Field Fuel Farm. The South Field Fuel Farm included six underground steel tanks and two aviation lube oil tanks. From 1943 to 1968, the eight AVGAS tanks were cleaned out approximately every 4 years. The tank bottom sludge, probably containing tetraethyl lead, was buried at shallow depths in the area immediately adjacent to the surrounding tanks. Navy personnel estimated 1,000 to 2,000 gallons of sludge were disposed of in this manner. The tanks were removed and investigations at Site 7 were conducted to evaluate the status of any residual soil contamination.

Site investigations revealed soil and groundwater contamination at Site 7 associated with the former USTs. A remedial system was designed to treat the soil contamination located 20 to 80 feet below land surface. The system was installed and in September 2009. The soil vapor extraction system will continue to operate until the remedial objectives have been achieved. Groundwater at the site will be investigated and treated as a part of the Site 40 Basewide Groundwater investigation.

Site 39 Clear Creek



Clear Creek

to numerous wildlife and plant species. Clear Creek is currently being investigated to determine if activities previously conducted at Whiting Field have adversely affected the creek and floodplain.

The ongoing ecological investigation of Clear Creek indicates it includes two major vegetative communities. Floodplain wetlands are found along the creek and upland pine forest with broad-leaf deciduous trees are found on adjacent well drained upland slopes on both sides of the creek. The Clear Creek study area is home to many animals including deer, beaver, snakes, turtles, and birds along with two state-protected plants including the white-topped pitcher plant and the water sundew.

Investigative activities performed at Site 39 include aerial photo interpretation, collection and laboratory analyses of surface water, groundwater and sediment samples from the creek bed and floodplain.

Preliminary results have not shown widespread contamination. One small area of the creek floodplain contained measurable concentrations of fuel and solvent derived contaminants exceeding U.S. Environmental Protection Agency (USEPA) and Florida Department of Environmental Protection (FDEP) action levels.

A Draft Remedial Investigation of Site 39 at Clear Creek provided detailed information about the extent of contamination. It is currently suspected that some of the contamination found at Site 39 is coming from the two contaminated groundwater sites located in the industrial areas of Whiting Field. However, human health and environmental risks at Site 39 have been determined to be very low.

A Human Health and Ecological Risk Assessment evaluation was included in the Draft Site 39 Remedial Investigation Report issued in October of 2010. After this report is reviewed and approved by USEPA and the FDEP, it will be placed in the Information Repository for public review.

Site 40 Basewide Groundwater

Site 40, also known as Basewide Groundwater, is being investigated to determine the current state of the groundwater underlying Whiting Field. Investigative activities include the installation of monitoring wells, the collection and analysis of groundwater samples and the collection of soil samples from areas where contaminants are known to be present. While the majority of the groundwater beneath the facility does not appear to be impacted by Whiting Field activities, two areas of concern exist in specific industrial areas of the base.

Ongoing investigations of these two specific areas will provide information required to determine if monitoring or remediation of these areas are required.

No final conclusions have yet been drawn for Site 40. The Site 40 Draft Remedial Investigation (RI) Report is projected for completion during the third quarter of 2011. Additional wells will be installed and over 70 monitoring wells will be sampled to monitor current conditions in 2011 and provide additional data for the RI.

Site 41

Site 41, the Former Pesticide Storage Building 1485C, occupies approximately 23,000 square feet in the central industrial area of Whiting Field. Building 1485C was used for an undetermined period for storage of ground maintenance equipment and limited amounts of pesticide compounds. The site has been in use since the early 1960s. The storage building caught fire in the late 1980s and was completely destroyed. Following the fire, cleanup activities at the site included the removal of all building materials, the concrete slab flooring and an unknown quantity of soil. The depth of the removal and the disposal history of the excavated materials are unknown.

A RI conducted from 2000 to 2004 concluded that the release of contaminants at Site 41 appears to have resulted from storage and disposal of pesticides used for maintenance of the base grounds and other undocumented activities. (continued on page 5)

Site 41 (Continued)

Given the locations, types and levels of contaminants detected and other general circumstances at Site 41, it is the Navy's judgment that some form of remedial action is warranted at this site. Implementing a soil removal action in conjunction with LUCs, will allow the Navy to properly and effectively manage the future land use at the site and minimize threats to human health or the environment.

As discussed on Page 1, a preferred remedy was completed in February 2011. The major components of the selected remedy for Site 41 include:

- Excavation (to a depth of up to 6 feet below land surface) and off-site disposal of contaminated soils.
- Implementation of LUCs to ensure that future use of the property is limited to non-residential activities and to prohibit excavation and uncontrolled removal of soil from the site.

The selected remedy will eliminate unacceptable risks by preventing exposure to contaminated soils. The implementation of LUCs will limit the future use of the site to non-residential activities. The remediation of Site 41 will not adversely impact the current and future use of the site as a storage and equipment lay-down area. The selected remedy is expected to achieve substantial long-term risk reduction and following implementation of the selected remedy, Site 41 will be available for industrial use only.

Former Gunnery Area and Skeet Range

The Former Gunnery Area and Skeet Range are both located at the North Field at Whiting Field. The Former Gunnery Area at Whiting Field consists of approximately 18 acres and is located east of the North Field runways, between what is now the installation golf course and the operational pistol range. Although the closure date for the range is not known, use of the range likely ended following construction of the Skeet Range in the 1970s. The area where the range was located is now used as a buffer/clear zone for the North Field runways.

The Skeet Range is located east of the pistol range and southeast of the installation golf course and encompasses approximately 12 acres. The firing arc, a scorekeeper's stand and archery targets are present. The Whiting Field Gun Club used the range for recreation purposes from 1970, when it was originally constructed, until 2000. Since the closing, an archery range has been set up in the southernmost portion of the former skeet range.

As part of the Navy's Munitions Response Program, a Preliminary Assessment (PA) was conducted in 2005 at both the Former Gunnery Area and Skeet Range to evaluate past uses of Munitions and Explosives of Concern.

Based on the information obtained during the data collection process at the Former Gunnery Area and the Skeet Range, the primary munitions constituent (MC) of concern associated with shotgun ammunition is lead. Polycyclic aromatic hydrocarbons (PAHs) found in soil samples may be a constituent originating from clay target fragments found at both sites. The MCs are most likely limited to surface soils well within the site boundaries.

Following the PA, a Site Inspection (SI) was recommended to confirm the absence or presence of MC (lead and PAHs) above regulatory cleanup levels. The SI at the Former Gunnery Area and the Skeet Range was conducted in early 2010.

Based on the results of the SI at the Former Gunnery Area and the Skeet Range, an RI was recommended. Because the sites contain contaminated soil exceeding regulatory screening criteria, for lead and PAHs further investigation is recommended. Lead and PAH contamination needs to be delineated horizontally and vertically, and potential risks from exposure lead and PAH be determined. Additionally, it is recommended that the broken clay targets be excavated and removed from the site, eliminating a possible source of PAH contamination.

UST Site 4



Site 4 is a former UST facility that contained eight 23,700-gallon steel USTs, one 15,000-gallon steel UST, and one 750-gallon UST. Nine of these tanks were used for the storage of AVGAS, and one was used to store contaminated jet fuel. The tanks were installed near North Field in 1943 when Whiting Field began operations and were used until the late 1970s, when they were decommissioned. Records of spills or leaks at Site 4 are not available; however, petroleum contamination (staining and odors present) was observed during the removal of the USTs in 1992. Previous investigations have discovered soil and groundwater contamination as well as the presence of fuel in the area of the former USTs.

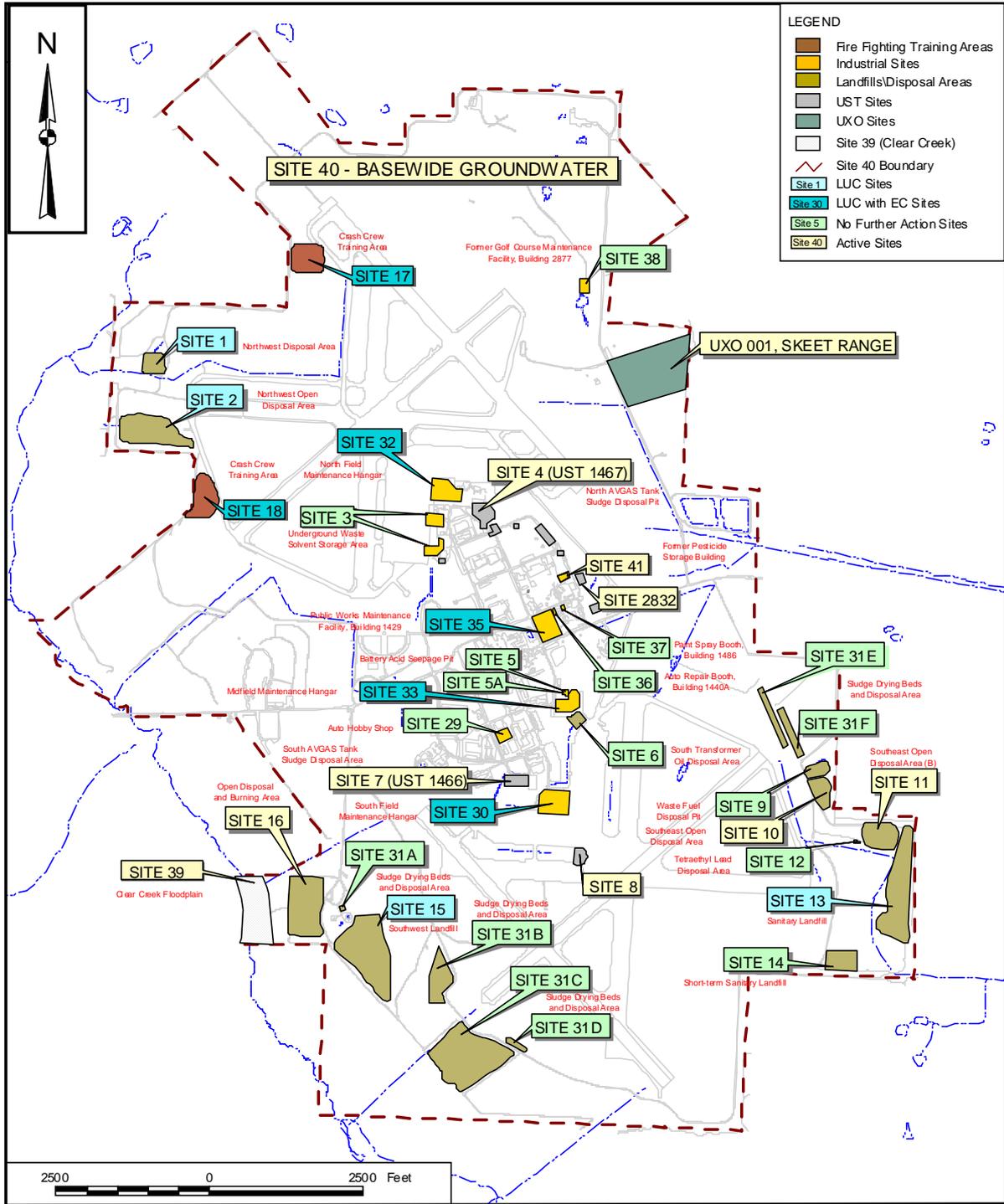
A Sampling and Analysis Plan is being prepared to assess the current site conditions. Soil and groundwater will be sampled as part of the Site Assessment. The type and extent of contamination, will be assessed in 2011. Based on the results of the Site Assessment, remedial alternatives will be evaluated.

**NAVAL AIR STATION WHITING FIELD
Installation Restoration Program Site Status**

Site No.	OU	Site Name	Material Disposed Of or Released	Status
1	01	Northwest Disposal Area	Refuse, waste paints, thinners, solvents, waste oils, and hydraulic fluids	Decision Made – LUCs
2	02	Northwest Open Disposal Area	Construction/demolition debris, tires, furniture	Decision Made – NFA
3	03	Underground Waste Solvent Storage Area	Waste solvents and paint stripping residue	Decision Made – NA
4	04	N. AVGAS Tank Sludge Disposal Area	Tank bottom sludge containing tetra ethyl lead	Ongoing Investigation
5	05	Battery Acid Seepage Pit	Waste electrolyte solution containing heavy metals and waste battery acid	Site Closed – NA
5A	05	Battery Acid Seepage Pit	Pesticides, PCBs	Decision Made – NA
6	06	South Transformer Oil Disposal Area	PCB-contaminated dielectric fluid	Decision Made – NFA
7	07	S. AVGAS Tank Sludge Disposal Area	Tank bottom sludge containing tetra ethyl lead	Ongoing Investigation
8		AVGAS Fuel Spill Area	AVGAS containing tetra ethyl lead	Site Closed – NA
9	08	Waste Fuel Disposal Area	Waste AVGAS containing tetra ethyl lead	Decision Made - NFA
10	09	Southeast Open Disposal Area A	Construction/demolition debris, waste solvents, paints, oils, hydraulic fluid, PCBs, pesticides, and herbicides	Decision Made - LUCs
11	10	Southeast Open Disposal Area B	Construction/demolition debris, waste solvents, paints, oils, hydraulic fluid, and PCBs	Decision Made - LUCs
12	11	Tetra ethyl Lead Disposal Area	Tank bottom sludge and fuel filters contaminated with tetra ethyl lead	Decision Made - NA
13	12	Sanitary Landfill	Refuse, waste solvents, paints, hydraulic fluid, and asbestos	Decision Made – LUCs
14	13	Short-Term Sanitary Landfill	Refuse, waste solvents, oils, paint, and hydraulic fluids	Decision Made - NA
15	14	Southwest Landfill	Refuse, waste paints, oils, solvents, thinners, asbestos, and hydraulic fluids	Decision Made - LUCs
16	15	Open Disposal and Burning Area	Refuse, waste paints, oils, solvents, thinners, PCBs, and hydraulic fluids	Decision Made - LUCs
17	16	Crash Crew Training Area A	JP-5 fuel	Decision Made - LUCs and ECs
18	17	Crash Crew Training Area B	JP-5 fuel	Decision Made - LUCs and ECs
29	26	Auto Hobby Shop	Auto repair, maintenance, & painting materials	Decision Made - NFA
30	18	South Field Maintenance Hangar	Aircraft maintenance materials	Decision Made - LUCs and ECs
31	19	Sludge Drying Beds and Disposal Areas	Wastewater treatment sludge	Site Closed – NFA
32	20	North Field Maintenance Hangar	Aircraft maintenance materials	Decision Made - LUCs and ECs
33	21	Midfield Maintenance Hangar	Aircraft maintenance materials	Decision Made - LUCs and ECs
35	22	Public Works Maintenance Facility	Fuel, oil, and solvents	Decision Made - LUCs and ECs
36		Auto Repair Booth	Oil, grease, fuel, and solvents	Site Closed – NA
37		Paint Spray Booth	Paint and solvents	Site Closed – NA
38	23	Former Golf Course Maintenance Bldg.	Solvents, oil, pesticides, and metals	Decision Made – NFA
39	24	Clear Creek Floodplain	Suspected solvents, oil, and fuel	Ongoing Investigation
40	25	Basewide Groundwater	Solvents and fuel	Ongoing Investigation
41	27	Former Pesticide Storage Building 1485C	cPAHs, Pesticides	Decision Made – Excavation and LUCs
UXO 001	MRP	Former Gunnery Area and Skeet Range	PAHs, Lead	Ongoing Investigation

Notes: Sites 19-28 are located at OLF Barin.
There is no Site 34.
AVGAS is a common aviation fuel
LUCs = Land Use Controls
PCB = Polychlorinated Biphenyl
UXO = Unexploded Ordnance

TRPH = Total Recoverable Petroleum Hydrocarbons
NA = No Action
NFA = No Further Action
OU = Operable Unit
EC = Engineering Controls



DRAWN BY J. LAMEY	DATE 1/24/02
CHECKED BY L. SMITH	DATE 7/31/06
COST/SCHEDULE-AREA	
SCALE AS NOTED	



SITE STATUS MAP
NAS WHITING FIELD - BASEWIDE
MILTON, FLORIDA

CONTRACT NUMBER 0052	
APPROVED BY	DATE
APPROVED BY	DATE
DRAWING NO.	REV 0

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