

IR Site Inspections – 2nd Quarter 2008

St. Juliens Creek Annex, Chesapeake, Virginia

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INSPECTIONS CONDUCTED BY: Stephanie Drago/CH2M HILL
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DATE: June 23, 2008

Introduction

This technical memorandum summarizes the results of the inspections conducted at the active Installation Restoration (IR) sites at St. Juliens Creek Annex (SJCA) on June 17, 2008. The active IR sites include:

Site 2 – Waste Disposal Area B

Site 5 – Burning Grounds

Site 21 – Industrial Area

The following sections summarize the results of the inspections, identify the potential concerns observed, and provide recommendations for resolution by site. The site-specific inspection checklists are included as an attachment.

Site 2 – Waste Disposal Area B

At the time of the inspection, there were no signs of recent intrusive activities. Minimal signs of the intrusive investigation activities noted during the previous inspection (vegetation removal and tire ruts) remained. Significant vegetative re-growth was observed in those areas and no additional restoration is recommended at this time. The areas will continue to be monitored to ensure re-growth is successful.

One drum of investigation-derived waste (IDW) was observed on the site. The drum contains aqueous IDW generated during groundwater sampling activities at Sites 4 and 21, conducted in May 2008. The drum is in secondary containment, in good condition, and properly labeled. Concrete and wood debris, also observed during previous inspections, remain in the wooded areas of the site.

All of the Site 2 monitoring wells, including casings, bollards, and locks, were in good condition, with the exception of monitoring well SJS02-MW12S. The flanges for the flush-mount well casing of SJS02-MW12S are damaged, prohibiting bolts from functioning properly, and replacement is recommended during future site activities. The signs indicating the site boundary were in good condition; however, they need to be updated with the correct contact phone number.

Site 5 – Burning Grounds

At the time of the inspection, there was evidence of recent intrusive activities within the site. These activities are associated with the removal action initiated in December 2007 and consist of the installation of safety and silt fences and vegetation clearing within the waste/burnt soil area. All the safety and silt fencing installed at the site appear to be in good condition. In addition, as part of the removal action activities, a pile of backfill material has been staged adjacent to the site. No dumping of chemicals or IDW storage was observed within the site or in the vicinity. A pallet and pile of soil were observed in the southwestern area of the site and a concrete pole, a tire, and some scrap metal were observed in the clearing east of SJS05-MW05S. These items have been observed at the site during previous site visits and will be removed during the removal action.

All of the Site 5 monitoring wells, including casings, bollards, and locks, were in good condition. The signs indicating the site boundary were in good condition; however, they need to be updated with the correct contact phone number.

Site 21 – Industrial Area

At the time of the inspection, evidence of intrusive activities was observed within the site boundary. Two open excavations, also noted during previous site inspections, were present in the vicinity of the former location of Building 201. The northern excavation (approximately 12' x 8' x 5'), noted during the first IR site inspections conducted during the second quarter 2005, and southern excavation (approximately 4' x 4' x 8'), first noted during the first quarter 2006 inspection, appeared to be in similar condition as during the previous inspection. Both excavations contained vegetation and standing water. Facility Operations personnel have indicated that the excavations are a result of ongoing storm sewer line repairs and will be backfilled when repairs are complete. The extent of the northern excavation will not change, but the southern excavation will be extended approximately 20 feet west into the parking lot towards Building 1556 to repair the drop inlet and connected piping. The excavations are located in an area of potential groundwater contamination. The existing groundwater and storm water analytical data, and a comparison of the groundwater data to non-hazardous disposal criteria were provided to the NAVFAC Mid-Atlantic Remedial Project Manager (RPM). The RPM will coordinate with Facilities Operations as necessary through the remaining repair activities.

No signs of other intrusive activities, dumping of chemicals, or IDW storage were observed within the site or in the vicinity. Miscellaneous construction and wood debris were observed throughout the site, but are expected due to the industrial nature of the site. All of the Site 21 monitoring wells were in good condition. The signs indicating the site boundary were in good condition; however, they need to be updated with the current contact phone number.

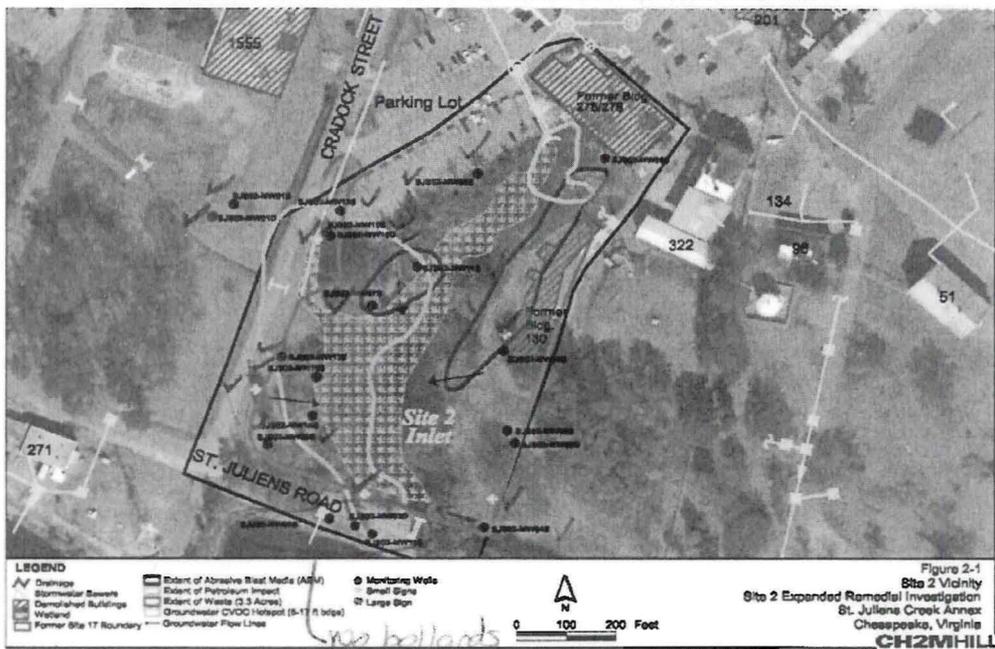
Waste Inspection 10/1/08

Site 2 - Waste Disposal Area B

St. Juliens Creek Annex, Chesapeake, Virginia

Description: Site 2 is an unlined waste disposal area, covering approximately 5.7 acres, located at the corner of St. Juliens Drive and Cradock Street in the southwestern portion of the Annex. The waste disposal area began operating in 1921. Initially, refuse was burned onsite and was used to fill an adjacent swampy area. In 1942, an incinerator was installed and replaced the open burning practices. The waste disposal area was closed sometime after 1947. Garbage, acids, and waste ordnance were reportedly disposed of at Site 2. Site 2 also contains abrasive blast media (ABM) from ship overhaul and repair operations. In 1989, the site was used for storage of heavy equipment and machinery, including storage of tools, tires, and machinery in sheds and trailers. In the north, Site 2 encompasses the former Site 17, which consisted of a concrete storage pad located just outside Building 279. The building was used as a fork lift maintenance shop. Buildings 278/279 were demolished in 2003 and the concrete slab remains in-place.

Site 2 is currently a swampy area covered with brush, trees, and grass. A water body directly connected to St. Juliens Creek is located in the center of Site 2. This inlet from the creek is tidally influenced and drains surface water from adjoining land, including Site 2, into the creek. Construction debris (concrete and brick), as well as ABM, are visible at the site. There are signs posted around the perimeter of the site.



Comments: (Provide related question number for each comment)

② IDW on site site 4181 Purge water generated 5/29/08 properly labeled

inw013 & 17 doesn't have protective bollards also inw035 inw025 doesn't have bollards

General Questionnaire

- 1 Is the area free of any indication of recent and/or current intrusive activities within the site boundary, as depicted on the figure, or in the immediate vicinity of the site? If no, mark location of intrusive activities on figure, note extent and purpose. Yes No
- 2 Is the area free of storage of any investigative derived waste (IDW) on site? If no, mark location of IDW on figure, note its condition in the comment section above, and notify activity coordinator. Indicate if IDW is properly labeled, per example below. Yes No

Investigative Derived Waste
 Purge water from Site 2
 January 28, 2007
 Do not handle, analysis pending
 Contact Tim Reisch, NAVFAC MID LANT, (757) 444-5890
- 3 Is the area free of identifiable concerns, such as signs of dumping of chemicals or debris, with regards to this site? If no, annotate these concerns in the comments section above, mark location of concern on map, and notify activity coordinator. Yes No

Site Specific Questionnaire

- 4 Are site monitoring wells, as depicted on the figure, in good condition and appear to be locked? (i.e. damaged protective posts and/or well head/casing) If no, describe condition of the deficient monitoring well(s), mark location of deficient monitoring well(s). Yes No
- 5 Are the signs, in good condition (letters visible, and standing upright)? If no, describe condition of the signs, mark location(s) on map, and notify activity coordinator. Yes No

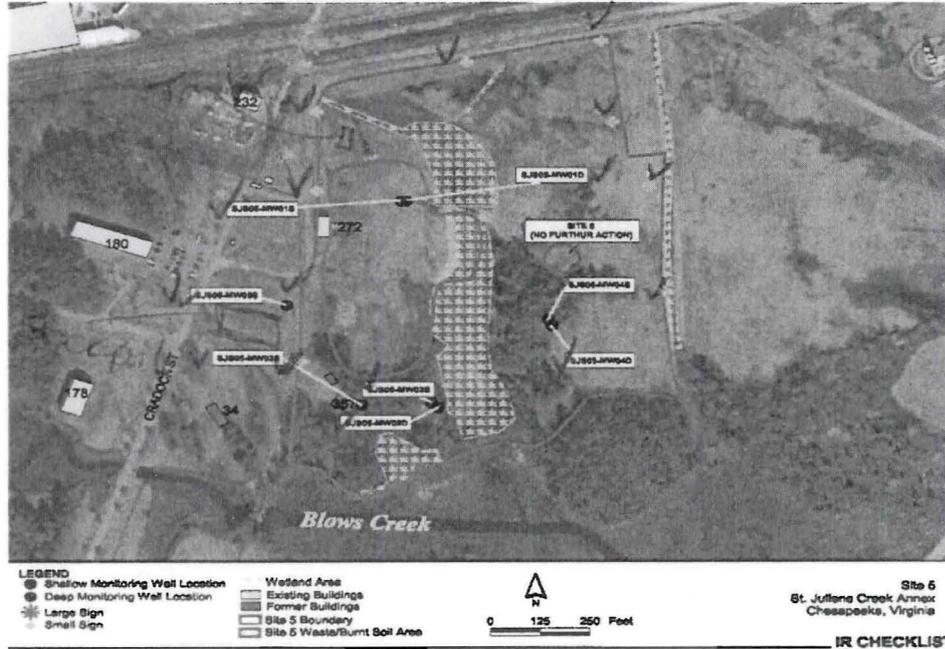
Inspection performed by: (Print and sign) J. D. [Signature]
 Date: 10/1/08

Site 5 - Burning Grounds

St. Juliens Creek Annex, Chesapeake, Virginia

Description: Site 5 is the former Burning Grounds consisting of approximately 23 acres adjacent to Craddock Street in the northern portion of the Annex. The site is located on fill material that reportedly originated from the Southern Branch of the Elizabeth River. The exact start and closure dates of the Burning Grounds are unknown, although it reportedly operated between the 1930s and 1970s, during which time waste ordnance materials were disposed by open burning. In 1977, the ground surface at Site 5 was burned with straw, diced, and burned again in an effort to remediate the soil. Wastes disposed include ordnance materials such as black powder (mixture of charcoal, nitrate, and sulfur), smokeless powder (nitrocellulose), Explosive D (ammonium picrate), Composition A-3 (contains RDX and wax), tetryl, trinitrotoluene (TNT), and fuzes. Other wastes consisted of carbon tetrachloride, trichloroethene, paint sludge, pesticides, and various types of refuse. The amount of ordnance disposed of varied from year to year and there is insufficient information to calculate waste volume.

The site currently consists of an open field with the central portion overgrown with phragmites. A significant portion of the southwest area of the site is covered with a layer of gravel. Surface water at Site 5 drains either naturally or through unlined shallow man-made drainage ditches to tidally influenced Blows Creek, which eventually meets with the Southern Branch of the Elizabeth River. There are signs posted around the perimeter of the site.



Comments: (Provide related question number for each comment)

5. Heavy orange safety fence installed work trailer on site, see map

Large pile of soil located off-site next to site

General Questionnaire

- 1 Is the area free of any indication of recent and/or current intrusive activities within the site boundary, as depicted on the figure, or in the immediate vicinity of the site? If no, mark location of intrusive activities on figure, note extent and purpose.

Yes	No
	X
- 2 Is the area free of storage of any investigative derived waste (IDW) on site? If no, mark location of IDW on figure, note its condition in the comment section below, and notify activity coordinator. Indicate if IDW is properly labeled, per example below
Investigative Derived Waste
Purge water from Site 5
January 28, 2007
Do not handle, analysis pending
Contact Tim Resch, NAVFAC MID LANT, (757) 444-6890

Yes	No
X	
- 3 Is the area free of identifiable concerns, such as, signs of dumping of chemicals or debris, with regards to this site? If no, annotate these concerns in the comments section above, mark location of concern on map, and notify activity coordinator.

Yes	No
X	

Site Specific Questionnaire

- 4 Are site monitoring wells, as depicted on the figure, in good condition and appear to be locked? (i.e. damaged protective posts and/or well head/casing). If no, describe condition of the deficient monitoring well(s), mark location of deficient monitoring well(s).

Yes	No
X	
- 5 Are the signs, in good condition (letters visible, and standing upright)? If no, describe condition of the signs, mark location(s) on map, and notify activity coordinator.

Yes	No
X	

Inspection performed by: (Print and sign) S. Angelo
Date: 6/27/08

