

FACT SHEET



Remedial Action at OU-5/IR-02 Former Naval Air Station Alameda and FISCA

Alameda, California

October 2008

INTRODUCTION

The Navy is proceeding with the selected remedial action (cleanup) for groundwater at Operable Unit (OU)-5/Installation Restoration (IR) Site-02, Alameda Point and Fleet and Industrial Supply Center Oakland, Alameda Facility/Alameda Annex (FISCA), Alameda, California. Treatment systems will be installed in portions of Marina Village Housing, Shinsei Gardens,

North Village Housing, and the area to the east of Island High School. This fact sheet describes the scope of the groundwater remediation being conducted to reduce the benzene and naphthalene in site groundwater.

The site is safe for children, residents, and others. There are no drinking water wells in this area, and water service to the homes and other buildings is provided by the East Bay Municipal Utility District. The groundwater remediation will address potential long-term risks, including if the groundwater were to be used in the future.

The site will be secured and control measures implemented so that public safety is maintained throughout the construction of the groundwater treatment system. Because North Village Housing is vacant, some roads, such as Kollman Circle, will be closed to traffic in the remediation area. Construction activities will begin in mid-October 2008 and are scheduled to continue until approximately July 2009.

The Navy is conducting environmental actions at OU-5 on Alameda Point and IR-02 on FISCA in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act. After completing a remedial investigation, the Navy conducted a feasibility study in 2004 to evaluate remedial alternatives for OU-5/IR-02. The Proposed Plan described the preferred alternative and solicited public

Regulatory Agencies Concur on ROD

The Navy and its cleanup partners, the U.S. Environmental Protection Agency, the California Department of Toxic Substances Control, and the San Francisco Bay Regional Water Quality Control Board, concurred with the selected remedy presented in the Record of Decision, which was finalized in August 2007.

comments in the remedy selection process. Comments from the public and regulatory agencies were incorporated into the Record of Decision (ROD), which describes the selected remedy.

The selected remedy consists of biosparging with soil vapor extraction (SVE), as required, monitored natural attenuation, and land use restrictions. Biosparging is the injection of air into groundwater to promote degradation of contaminants by microorganisms. SVE is removal of soil vapors by applying a vacuum to the subsurface using a series of wells. These technologies are safe for the residents and public. Monitored natural attenuation consists of monitoring (sampling) the groundwater to track the natural attenuation (breakdown) of contaminants in the groundwater because of the naturally occurring microorganisms.

PROJECT CONTACTS

If you have any questions or concerns about environmental activities, please feel free to contact any of the project representatives:

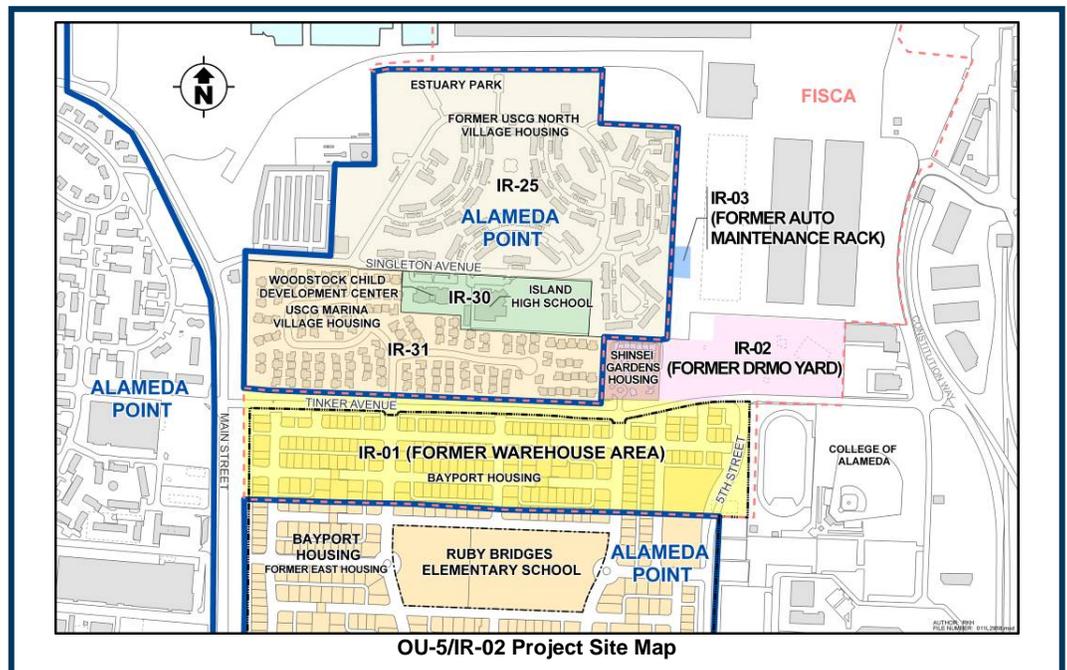
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OU-5/IR-02 Project Site Map

SITE HISTORY

Naval Air Station Alameda was an active military installation from the 1930s to the 1990s providing facilities and support for fleet aviation activities. OU-5/IR-02 is located in the northeastern portion of Alameda Point, to the east of Main Street.

OU-5/IR-02 includes an area of benzene- and naphthalene-impacted groundwater within Alameda Point and FISCA. As shown on the project site map, OU-5/IR-02 is composed of a portion of IR-25 (former United States Coast Guard [USCG] North Village housing, Estuary Park); IR-30 (Island High School and the Woodstock Child Development Center); IR-31 (USCG Marina Village residential housing); FISCA IR-01 former warehouse area (current Bayport housing); FISCA IR-02 former screening lot, scrap yard, and equipment storage area (western portion currently being developed as Shinsei Gardens housing); and FISCA IR-03 (former automotive drive-up maintenance rack).

INVESTIGATION RESULTS

Pre-design sampling conducted in 2007 provided information for the design and better defined the boundary of the area of groundwater contamination, referred to as the groundwater plume. The groundwater plume is approximately 2,900 by 800 feet, as shown on the groundwater plume map. The remediation will address potential long-term risks, including if the groundwater were to be used in the future.

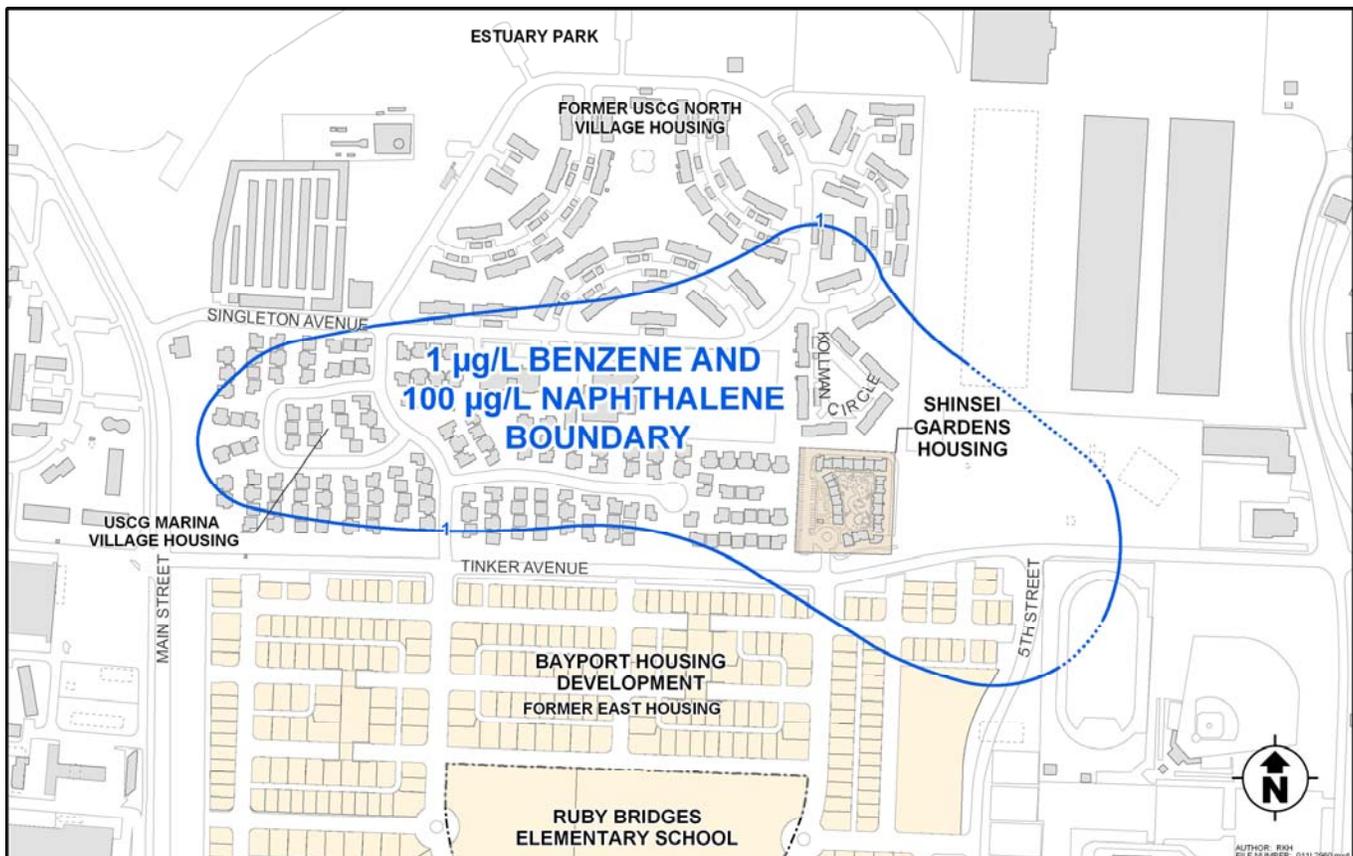
CLEANUP ACTION

The selected remedy consists of biosparging with SVE, as required, monitored natural attenuation, and land use restrictions to limit exposure of future landowner(s) and/or user(s) of the property

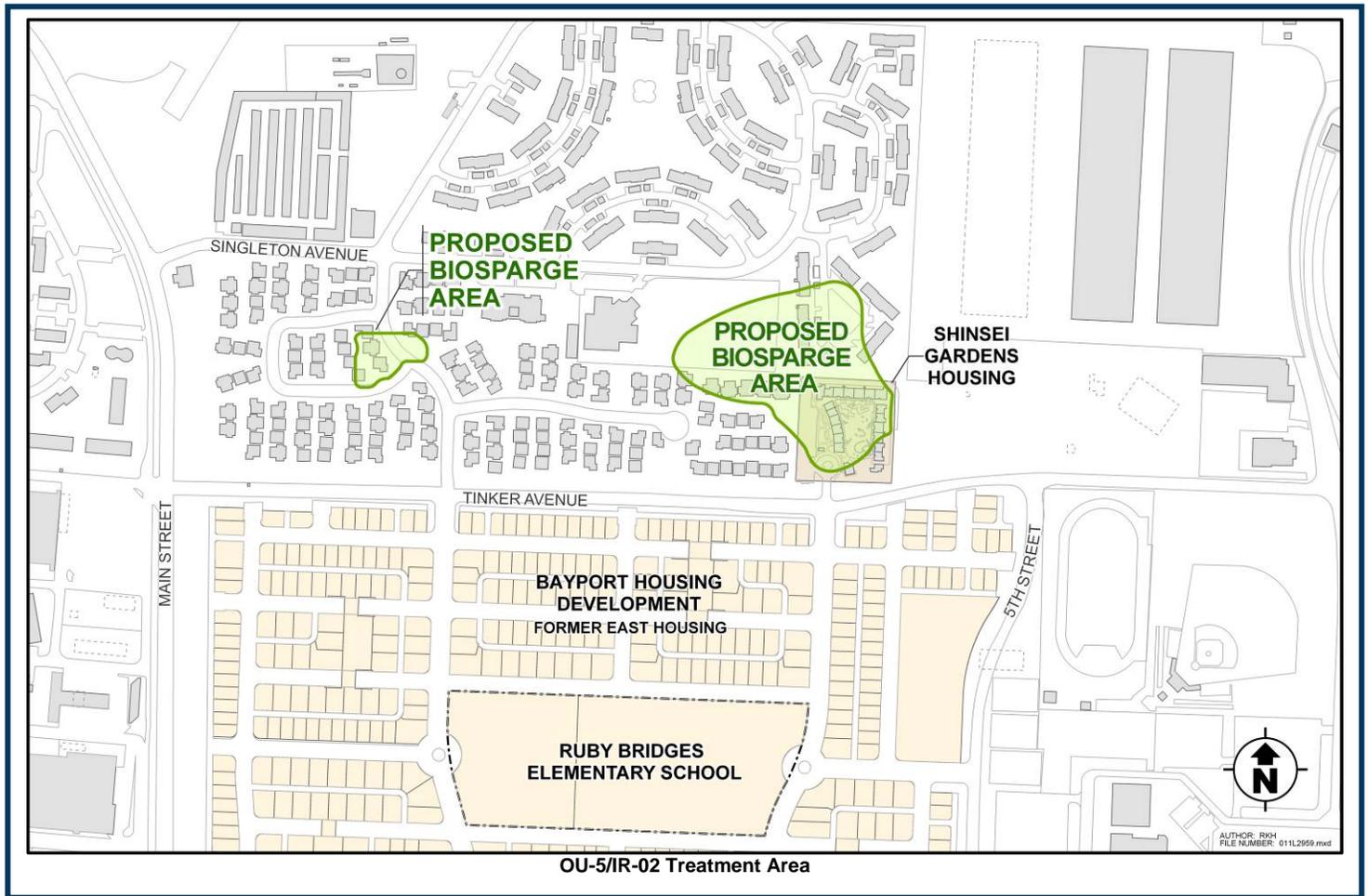
to contaminated groundwater and to maintain the integrity of the remedial action until remediation is complete. The goal of the selected remedy is to reduce benzene and naphthalene to the risk-based remedial goals of 1 and 100 parts per billion, respectively.

Biosparging increases dissolved oxygen in groundwater to enable naturally occurring microorganisms to break down benzene and naphthalene. SVE wells will help capture vapors potentially generated during biosparging, as necessary. Monitored natural attenuation, where naturally occurring organisms break down the contaminants, also is a component of the selected remedy. Historical data indicate that natural attenuation is occurring. Land use restrictions will be implemented and will remain in place until remediation is complete.

Treatment systems will be installed in the two areas within the groundwater plume that have the highest benzene and naphthalene concentrations to maximize removal of the contaminants. The full-scale biosparge/SVE treatment system will cover approximately 6 acres as shown on the Treatment Area figure. This area includes portions of Marina Village Housing, Shinsei Gardens, North Village Housing, and an area to the east of Island High School. The construction will include drilling, installation of wells, trenching, and installation of piping and other equipment. The full-scale system will consist of over 300 biosparge wells on approximately 20-foot centers, 15 SVE wells, and 6 new monitoring wells. The remediation system in Marina Village Housing and Shinsei Gardens will be installed underground, so residents will not be inconvenienced. During the installation of the treatment system, site security and traffic control measures will be implemented to ensure health and safety in the work areas.



OU-5/IR-02 Groundwater Plume



TRAFFIC IMPACTS

The most significant traffic impact will occur during system installation in the Marina Village Housing Area (smaller of the two treatment areas). Well and piping installation (trenching across streets, driveways, and sidewalks) will require temporary lane and sidewalk closures. A traffic control plan will be in effect during system installation to safeguard the public and to minimize the temporary traffic impacts. Traffic impacts are not anticipated during system installation east of Island High School (the larger of the two treatment areas). North Village Housing is vacant, and some of the roads will be closed to traffic in the remediation area. The Shinsei Gardens housing will be under construction during system installation in this area. Measures will be implemented so that public safety is maintained throughout the construction for the groundwater treatment system. Once system installation is complete, operation of the treatment system will not have an impact on traffic.

PROJECT SCHEDULE

The treatment system construction will begin in mid-October 2008 and is scheduled to continue until approximately July 2009. The treatment system is planned to be operated for at least 2 years.

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Remedial Action Update for Operable Unit 5/IR Site-02 Groundwater Former Naval Air Station Alameda and FISCA

FOR MORE INFORMATION

Documents that detail activities associated with this remedial action, including the Remedial Design and Remedial Action Work Plan, are available at the following locations:

Alameda Main Public Library
1550 Oak Street
Alameda, California 94501

Alameda Point, Former NAS Alameda Information
Repository
950 West Mall Square, Suite 240
Alameda, California 94501

Information is also available on the Navy website at: www.bracpmo.navy.mil

This fact sheet is prepared in accordance with the National Contingency Plan, 40 Code of Federal Regulations 300.435(c)(3).

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