



NEWMARK GROUNDWATER CONTAMINATION SUPERFUND SITE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY • REGION 9 • MAY 2004

EPA WELL PROJECT PROGRESS UPDATE

San Bernardino, CA

The United States Environmental Protection Agency (U.S. EPA) and the City of San Bernardino Municipal Water Department (SBMWD) are in the last phase of construction for the EPA Well Project (also known as the Muscoy Operable Unit). The purpose of the project is to restore a source of drinking water to the City by removing historic contamination and to protect clean drinking water wells south of Baseline Street (see Figure 5). This fact sheet gives you an update on the various components of the project, approximate start work schedule and employment/contracting opportunities.

PROJECT SUMMARY

There are several parts of the well project construction: the drilling and development of five pumping wells, a five-phase pipeline, five monitoring wells, a booster pump station and the expansion of the 19th Street Treatment Plant. Once each of the five pumping wells are developed (located on West Virginia Street, Pico Avenue, Garner Avenue, West Home Avenue and North G Street), they will quietly pump the contaminated water up and then into the underground pipeline. The water then will go through the pipeline to the 19th Street Treatment Plant. The plant will treat the water with the support of the additional twenty-four (24) carbon filtering units that are part of the expansion. Some of the treated water will then be boosted by the pump station at Encanto Park near 9th and Garner Avenue to where it will be distributed by the SBMWD. The five smaller monitoring wells south of the pumping wells allow us to evaluate how the system works and whether contamination moves beyond this barrier. If you would like a copy of the past fact sheets that give more detail, call Jackie Lane, U.S. EPA Community Involvement Coordinator at toll-free (800) 231-3075 or direct at (415) 972-3236 or Russell Smith, Community Liaison for the SBMWD at (909) 384-5558.

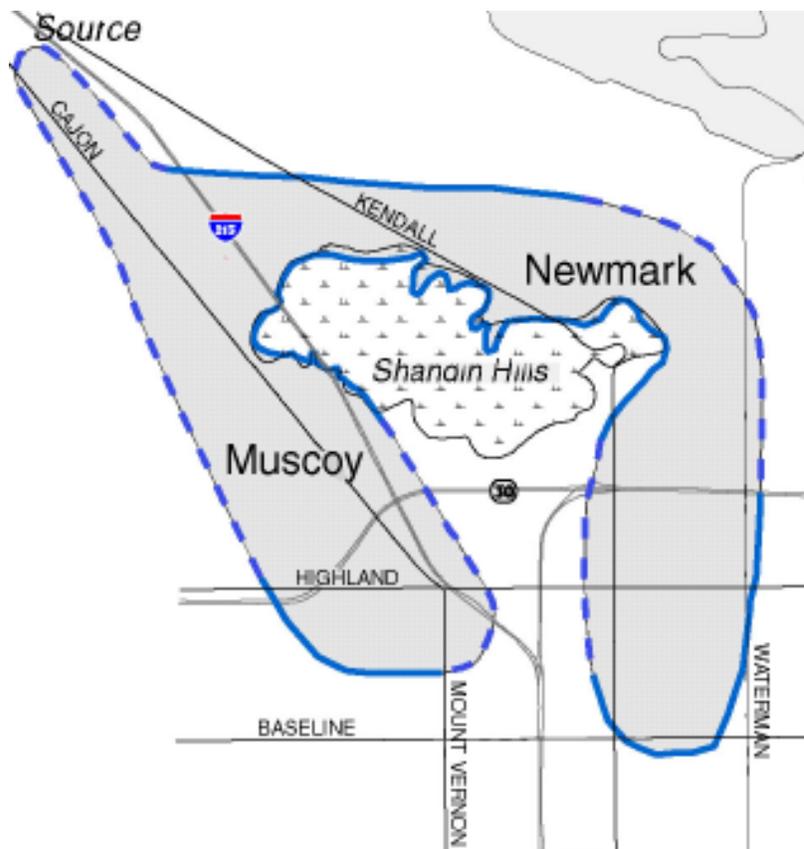


Figure 1: Newmark Groundwater Contamination Superfund Site

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SITE HISTORY

The Newmark Groundwater Contamination Superfund Site includes three operable units (OUs): the Newmark and Muscoy (EPA Well Project) OUs are located within the San Bernardino portion of the Bunker Hill Basin, near the Shandin Hills, and the Source OU is generally located in the area north-west of the Shandin Hills (see Site Map, Figure 1, page 1). The Newmark Groundwater Contamination Superfund Site covers approximately eight square miles of groundwater contaminated with volatile organic compounds, including perchloroethylene and trichloroethylene. These chemicals are industrial solvents that have been commonly used for a variety of purposes including dry cleaning, metal plating and machinery degreasing.

In 1993 and 1995, the U.S. EPA issued two Interim Records of Decisions (RODs) to address contamination at the two groundwater OUs at the Newmark Groundwater Contamination Superfund Site in San Bernardino, California. The Newmark ROD, signed on August 4, 1993, and the Muscoy ROD, signed on March 24, 1995, required the removal of contaminated groundwater from each OU, treatment of the contaminated groundwater to meet the RODs treatment goals, and delivery of the clean treated groundwater to the City for distribution to the public through its potable water supply system, or recharge into the groundwater. Construction of the Newmark OU extraction and treatment system was completed in October 1998. Construction of the Muscoy OU extraction and treatment system is anticipated to be completed in 2004, and the performance evaluation of the system is anticipated to be completed in 2005.

CONSTRUCTION PHASE UPDATES

General Project Update

We have torn down the structures at West Virginia Street, North G Street and Home Avenue and drilled a pumping well at each location. We have also torn down the structures at the Garner Avenue and Pico Avenue locations where we will also drill pumping wells. We completed four of the five phases of the pipeline, and constructed the five monitoring wells (see construction map for locations). We conducted well tests at each pumping well location to make



Figure 2: Tot Park



Figure 3: Plant Enclosure



Figure 4: Typical Facade House

sure they are working properly and to gather data to use in developing a computer model. Each pumping well was designed to capture a certain amount of water that surrounds it. The computer model, with more accurate data, can show how successfully the pumping wells will capture contaminated water.

Pipeline Construction

The first four phases of the pipeline are completed. All the pavement and the asphalt have been replaced where needed at this time. The last phase of the pipeline construction is to run large-diameter pipes from 10th and Harris Street by tunnel boring under the 215 Freeway to "I" Street. This last phase will connect the pipeline from one side of the freeway to the pipeline on the other side and complete the Muscoy pipeline construction (see site map below). The Newmark OU and EPA Well Project (also known as the Muscoy OU) are part of the Newmark Groundwater Contamination Superfund site, for more information see the site history on page 2.

EPA Well Construction

We have almost completed the drilling of the last two of the five pumping wells at the Pico Avenue and Garner Avenue locations. Once all five pumping wells are drilled, we will come back and install permanent well equipment at each location. This process entails taking out the temporary above-ground well equipment and replacing it with permanent underground well equipment that will make little noise. This permanent equipment will be brought in on a truck and installed with a crane. It will take approximately four weeks to complete each well location. The project should be completed by the end of this Summer.

In this same time period, we will begin building the facade houses at the West Virginia Street, Pico Avenue, Garner Avenue and Home Avenue. The draft designs for the facade houses are a result of the input given from each neighborhood community focus group. On page 2 is a picture of what a typical facade home will look like. See

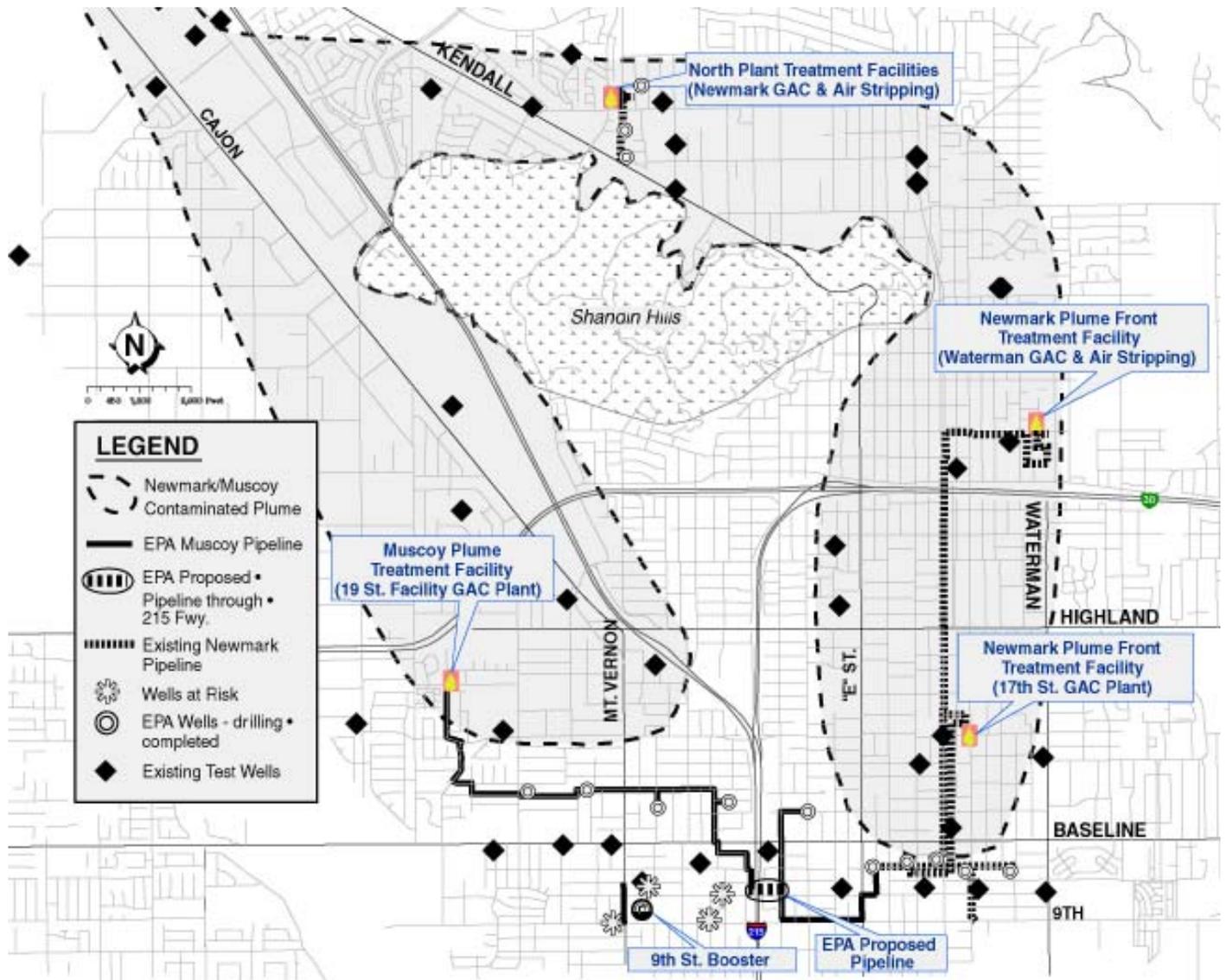
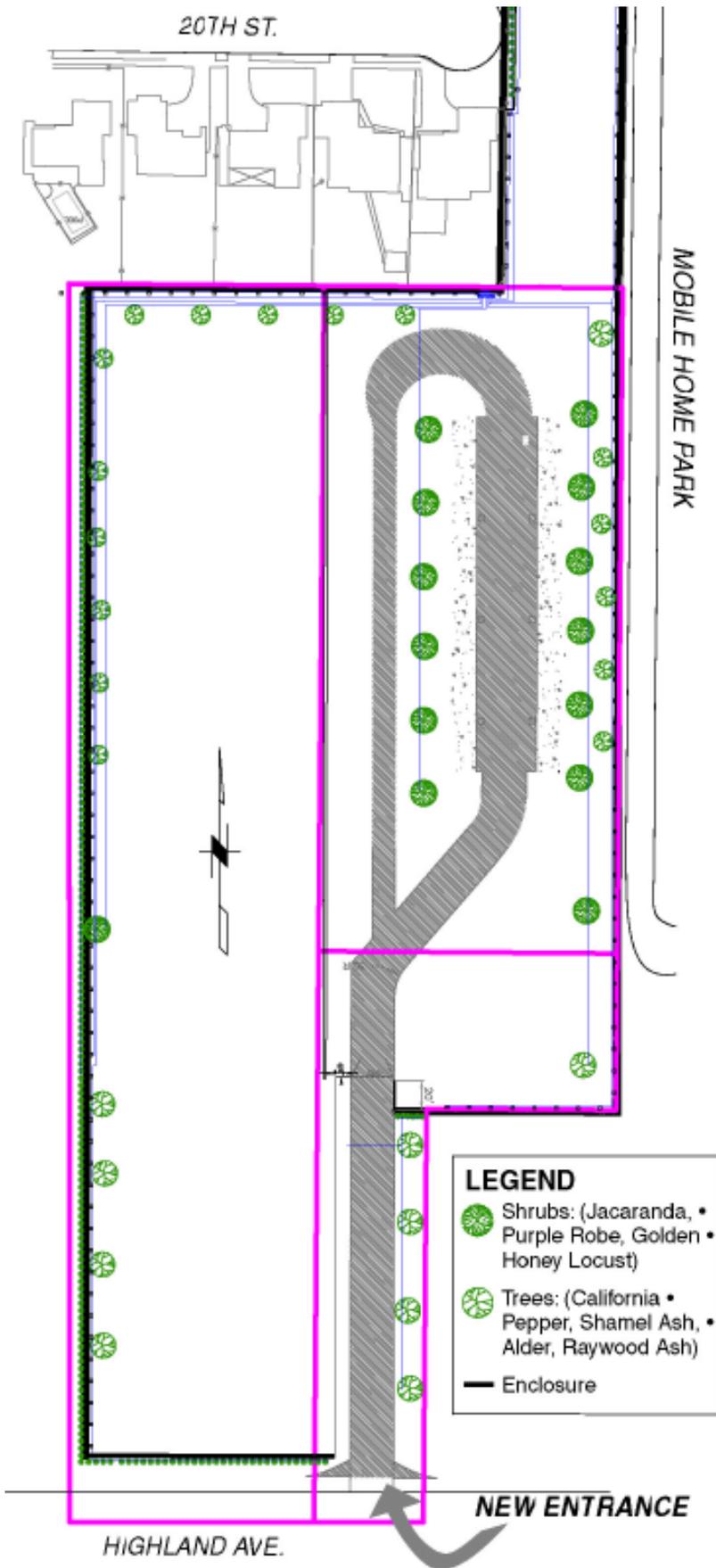


Figure 5: Newmark Groundwater Contamination Superfund Site Project (Muscoy and Newmark OUs)



further contract opportunities for the facade home construction on page 5. The Central City Lutheran Mission Church and neighborhood association representatives requested a tot park built for the North G Street location. They drafted their own design and the construction is complete. A picture of the tot park is on page 2.

19th Street Treatment Plant Expansion and 9th Street Booster Station

The construction for expansion of the 19th Street Plant and the 9th Street Booster Station began on March 1, 2004 and is estimated to be completed by the end of Fall 2004. The construction for 19th Street Plant expansion includes adding twenty-four (24) carbon filtering units, sound-insulation, moving the main entrance of the plant from 19th Street to Highland Avenue and building a new plant enclosure that will blend into the neighborhood (see Figure 6). The design for the new plant enclosure incorporates ideas gathered from the neighbors who attended a focus design meeting for this part of the project. A booster pump station will be constructed at Encanto Park on 9th Street and North Mount Vernon Avenue. Other improvements will also be made at the park including replacing the existing picnic enclosure with a new covered picnic area with tables and a barbecue pit.

WHAT HAPPENS WHEN THE CONSTRUCTION IS COMPLETE?

The U.S. EPA and SBMWD will conduct a series of tests and then have the entire system run for a several months to see how effective it is and to find any glitches that may need attention. Once the system has been operational for one year, a construction closure report will be developed that states the construction is completed. The SBMWD will take over the responsibilities of operating and maintaining the system. The SBMWD will maintain all five properties' general upkeep, security and monitor each location daily.

Figure 6: Design for the new plant enclosure at 19th Street Treatment Plant

POSSIBLE TYPES OF JOBS THROUGH CONTRACTORS

EPA and the SBMWD are not authorized to tell a contractor or subcontractor to hire anyone, but we can find out their hiring procedures and share that with the community. Contractors may be hiring equipment operators for loaders, backhoes, rollers, borers, drillers, pavers, bulldozer and crane operators, as well as general laborers, plumbers, pipe fitter/welders, truck drivers, foremen, electricians, and technicians.

AWARDED CONTRACTS AND SUBCONTRACTS

Below is the contact information for contractors and subcontractors who have been hired for the balance of the project work:

Contractor for Installation of Permanent Well Equipment

Centrilift
5421 Argosy Drive
Huntington Beach 92649
Dave Dillion, (714) 893-8511

Contractor for Well Drilling Three Wells

Lane Christianson
Contact: Jim Housladin, (909) 390-2833

Contractor for Carbon Filter Units

US Filter
11711 Reading Road
Red Bluff, CA 96080
Contact: Grant King, (916) 296-0492

Contractor for 19th Street Plant Expansion and 9th St. Booster Station

EL-CO Contractors Inc.
1995 Nolan St.
San Bernardino, CA 92407
Contact: John Wiles, (909) 887-2610

Contractor for Freeway Tunnel Boring

Golden State Boring and Pipe Jacking, Inc.
2028 E. Cedar Street
Ontario, CA 92761
Contact: Jeffrey Johnson, (909) 930-5811

TYPES OF CONTRACT OPPORTUNITIES AVAILABLE

Contractor for Facade Homes

The San Bernardino Municipal Water Department is the primary contractor for the construction of the facade homes. There will be both separate informal contracts and site improvement contracts available. Below are the types of subcontract opportunities that are available to build the facade homes. For more information on these opportunities, contact Lana Kennerly, San Bernardino Municipal Water Department at (909) 384-5906.

Facade Home Construction

Separate Informal Contracts

Facade home footings and concrete slab
Building electrical and lighting
Block building
Air conditioning
Stucco exterior finish
Aluminum frame trusses and sheet metal roofing
Wrought iron fencing
Landscaping and irrigation
Concrete curb, gutter, sidewalk and drive approach

Other Site Improvements

Informal Contracts

Underground discharge piping
High voltage electrical conduits and connections
Site finish grading and slag

MAILING LIST

If you would like to be added to this site's mailing list, please call Jackie Lane, U.S. EPA Community Involvement Coordinator, toll-free at (800) 231-3075 to leave your name and address, or direct dial at (415) 972-3236.

HOW TO GET IN TOUCH WITH US

Kim Hoang, Ph.D.

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Water Department
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San Bernardino, CA 92418
(909) 384-5558
Email Address: Smith_Ru@ci.san-bernardino.ca.us

SITE INFORMATION LOCATIONS

Copies of the Administrative Records and other site related documents are available at the following locations:

The San Bernardino County Library
104 W. Fourth Street
San Bernardino, CA 92415
(909) 387-5718
Mon.-Friday, 8AM-5PM

San Bernardino Valley Municipal
Water District Office
1350 S. "E" Street
San Bernardino, CA 92412
(909) 387-9228
Mon.-Friday, 8:30AM-5PM,
Appointment Only

EPA Region 9 Superfund Records Center
95 Hawthorne Street - Suite 403S
San Francisco, California 94105
(415) 536-2000
Mon.-Friday, 8:30AM-5:00PM