



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

SEP 21 2016

To whom it may concern:

This letter provides a status report on EPA's decision to permanently shut down and abandon the offsite system for the Motiva Enterprises Terminal located on Pickett Road, Fairfax, Virginia, and assurance that shutting down the offsite system will continue to be protective of human health and the environment. The footprint of the historical offsite system is shown in the attached map.

Background: An underground petroleum leak from the former Star Enterprise Terminal (now referred to as the Motiva Enterprises LLC Terminal) on Pickett Road, Fairfax, Virginia was discovered in 1990. The leak had resulted in a petroleum-contaminated groundwater plume that extended 2000 ft from Pickett Road to the Mantua residential community. Under EPA's direction, construction of an interim groundwater remediation system to contain and clean up the petroleum-contaminated groundwater began shortly thereafter and became operational in 1991. Subsequently, the system was expanded and modified to its final configuration in 2000 as the Final Remedy. There are two major components of the remediation system, one located to the west of Pickett Road inside the Motiva Enterprises Terminal known as the "onsite" system, and the other located to the east of Pickett Road covering the commercial strip, the Common Area and Mantua residential community known as the "offsite" system.

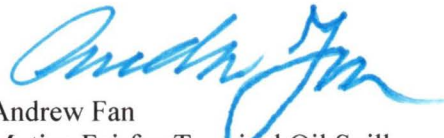
In February 1999, EPA selected a Final Remedy for the Motiva spill cleanup after consideration of public comments on the remedial alternatives. The selected remedy required the continued operation of the interim groundwater remediation system and the installation of five horizontal infiltration wells on the commercial strip and Mantua community side. The horizontal infiltration wells, which began operation in April 2000, provided flushing of the contaminated groundwater to the existing groundwater remediation system to enhance recovery.

Shutdown Test and Criteria: In 2009, after 18 years of cleanup resulting in substantial reduction of contaminants from the leak, EPA approved Motiva's request for a temporary shutdown test of the offsite system to collect data. The data were analyzed to determine whether a permanent shutdown of the offsite system was warranted. The temporary shutdown test required sub-slab soil vapor sampling in 18 homes located above the historical boundary of the plume, and extensive groundwater sampling. The data collected from the 5-year test were reviewed by a technical workgroup consisting of representatives from the Virginia Department of Environmental Quality, the City of Fairfax, Fairfax County, the Mantua Community, and U.S. EPA (Workgroup). The Final Remedy stipulated that Motiva may request EPA's approval to shut down the remediation system in whole or part if the following conditions are met:

1. The system performance has reached diminishing returns and further operation of the system will not be more effective than natural attenuation can achieve, and
2. Shutting down the system will not pose unacceptable risks to human health or the environment

EPA Decision: Based on review of the test data, recommendations from the Workgroup, and comments received during the public meeting of May 29, 2013, EPA determined that the shutdown criteria as set forth in the Final Remedy were met. In August 2013, EPA approved permanent shutdown and abandonment of the offsite system. In 2016, removal and abandonment of the offsite system in place was implemented in accordance with applicable permits and protocols. For further information, visit EPA web site at <https://www3.epa.gov/reg3wcmd/ca/va/webpages/vad093952935.html>.

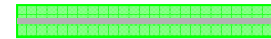
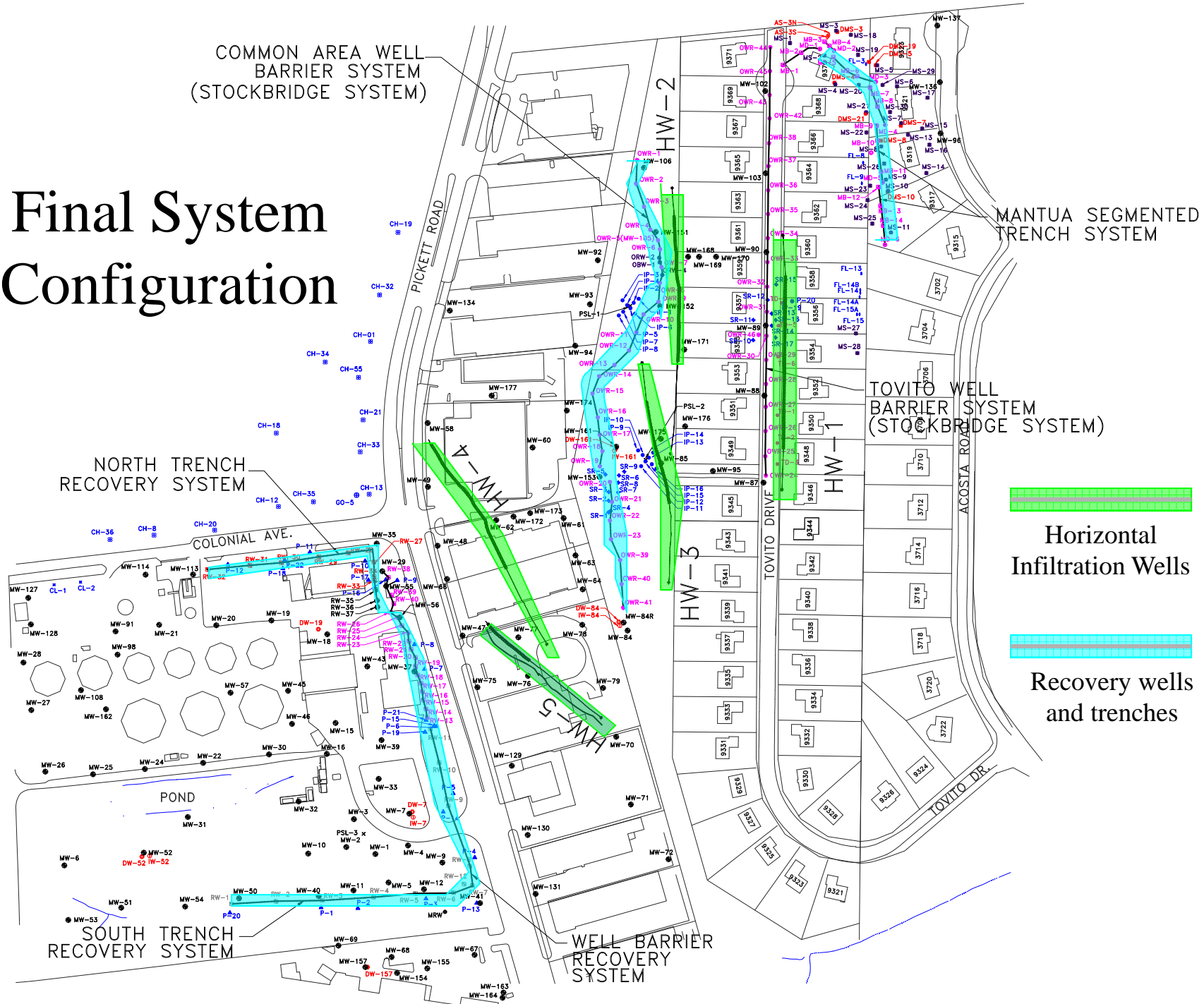
Sincerely,



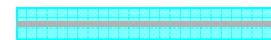
Andrew Fan
Motiva Fairfax Terminal Oil Spill
Remedial Project Manager
from 1992 to 2016

Attachment: Map of Offsite System

Final System Configuration



Horizontal Infiltration Wells



Recovery wells and trenches