

THRIFTY OIL CO. ^{Ro 4}

May 7, 2004

Mr. Barney Chan
Alameda County Health Care Services Agency
Environmental Protection
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

0.46114

Alameda County
MAY 13 2004
Environmental Health

RE: **Former Thrifty Oil Co. Station #049**
3400 San Pablo Avenue
Oakland, CA 94608
Workplan for Additional Offsite Assessment

Dear Mr. Chan:

Thrifty Oil Co. (Thrifty) is in receipt of the Alameda County Health Care Agency's (ACHCA) letter dated March 19, 2004 (**Appendix A**). In the ACHCA letter, a workplan for additional offsite assessment for contaminant plume delineation was requested for former Thrifty Station #049 located at 3400 San Pablo Avenue, Oakland, California (**Figure 1**). The ACHCA also requested additional onsite assessment to investigate the potential of contamination migrating onsite from an offsite, upgradient source.

In their letter dated March 19, 2004, the ACHCA requested the completion of soil borings and soil and groundwater sampling to determine the potential locations of permanent wells. After reviewing the southwesterly groundwater flow direction determined using groundwater monitoring data collected on January 14, 2004, and the site logistics (parking lanes, traffic flow, etc.), Thrifty has decided to install two offsite wells (MW-8 and MW-9) at the locations shown on **Figure 2**. These wells will be located to provide downgradient monitoring points. To investigate the possibility of hydrocarbon-affected groundwater migrating onsite from the adjacent Shell station located to the north of the site, Thrifty will install onsite well MW-10. The change in work scope was conditionally approved by the ACHCA in the attached e-mail dated April 27, 2004. In an e-mail dated May 4, 2004, the ACHCA requested additional borings to further delineate possible groundwater contamination to the west of the site. To that end, Thrifty will complete two additional soil borings (SB-5 and SB-6) at the locations shown on **Figure 2**.

The following activities will be associated with this additional on-and offsite assessment:

- Five soil borings (SB-5, SB-6, MW-8, MW-9, and MW-10) will be drilled at the offsite and onsite locations shown on **Figure 2**. An encroachment permit will be obtained from the City of Oakland. The boreholes will be drilled using a hollow-stem rig (CME 75) to a depth of approximately 20 feet below ground surface (bgs), with soil samples collected at 5 foot intervals.
- Three of the borings will be converted to 2-inch diameter groundwater monitoring wells to a depth of approximately 18 feet bgs within each borehole. Based on a depth to groundwater



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of approximately 4 feet bgs encountered during the recent assessment, the screen interval will be from approximately 3 to 18 feet bgs.

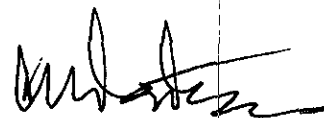
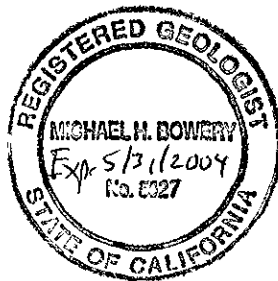
- Upon completion of the groundwater-monitoring well installations, a licensed land surveyor will survey the newly installed monitoring wells at this site to a known benchmark.
- Groundwater samples will be collected from the three newly installed wells and grab groundwater samples will be collected from the two additional soil borings. A complete set of gauging results will be obtained to facilitate a groundwater contour map.
- The soil and groundwater samples will be recorded on chain-of-custody forms and sent to a state certified laboratory for analysis. The soil and groundwater samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M, and benzene, toluene, ethylbenzene, xylenes (BTEX) and selected oxygenates including methyl tert butyl ether (MTBE) by EPA Method 8260B.
- Upon completion of all field work, a report will be prepared to document the boring and well installation activities, and will include copies of the well installation permit, boring logs, cross-sections, and laboratory analytical results from the collected soil and groundwater samples.

The above-described work will be initiated after approval of this work plan by the ACHCA. Thank you for your continued cooperation in this matter. Should you have any questions, please contact the undersigned at (562) 921-3581.

Respectfully submitted,



Michael H. Bowery, R.G. 5027
Project Manager



Chris Panaitescu
General Manager
Environmental Affairs

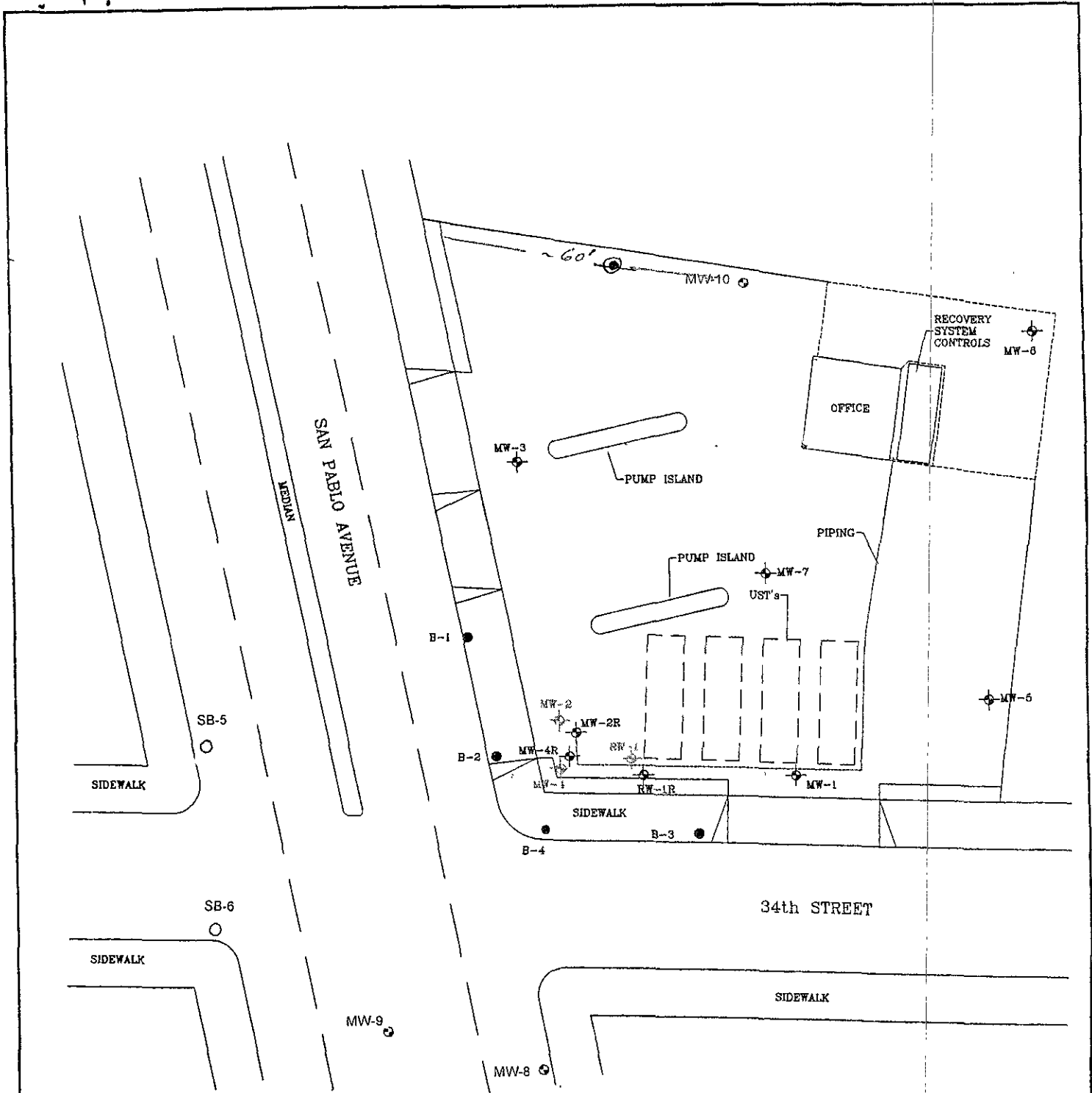
Attachments

cc: BP West Coast Products, LLP, Attn: Ms. Kateri Luka
File



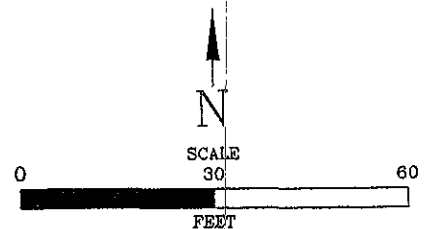
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Project No.	8910081A
Woodward-Clyde Consultants	
Figure 1. SITE LOCATION MAP	



LEGEND

- RECOVERY SYSTEM PIPING
- MW-4R ◉ RECOVERY WELL LOCATION
- MW-1 ◉ MONITORING WELL LOCATION
- SB-1 ● SOIL BORING LOCATION
- MW-4 ◉ ABANDONED MONITORING WELL LOCATION
- MW-8 ◉ PROPOSED WELL LOCATION
- SB-5 ○ PROPOSED SOIL BORING LOCATION



PROPOSED WELL LOCATIONS

Thrifty Oil #49
 3400 San Pablo Avenue
 Oakland, California



Thrifty Oil Co.
 13116 Imperial Highway
 Santa Fe Springs, CA 90670

FIGURE
 2