



**ENVIRO SOIL TECH CONSULTANTS**

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April 18, 2007

File No. 8-90-421-SI

**Mr. Murray Stevens**  
Kamur Industries, Inc.  
2351 Shoreline Drive  
Alameda, California 94501

**SUBJECT: WORK PLAN ADDENDUM AT THE PROPERTY**

Located at 400 San Pablo Avenue, in  
Albany, California

Dear Mr. Stevens:

Mr. Jerry Wickham of Alameda County Health Care Services Agency (ACHCSA) has requested a work plan to install an additional monitoring well at your property located at 400 San Pablo Avenue. We have therefore prepared this addendum to the work plan that we submitted on your behalf in June 2005, which included a proposal to install an additional monitoring well near the southwestern edge of the property.

Sincerely,

**ENVIRO SOIL TECH CONSULTANTS**

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VICTOR B. CHERVEN, Ph.D.  
REGISTERED GEOLOGIST #3475

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FRANK HAMEDI-FARD  
GENERAL MANAGER



## **SUMMARY OF JUNE 2005 MONITORING WELL PROPOSAL**

The June 2005 work plan proposed installing a new well (STMW-6) down-gradient (southwest) of monitoring well STMW-1. The purpose of the well was to determine whether the change to southwestward groundwater flow that occurred in 2004 or 2005 had caused hydrocarbons to begin migrating in that direction. We proposed to drill the well with standard hollow-stem auger drilling equipment to a depth of approximately 20 feet and construct it with 15 feet of slotted 2-inch PVC casing. Prior to sampling, we proposed to develop it by purging several well volumes of groundwater to tighten the sand pack and remove sediment from the casing.

## **REGULATORY RESPONSE**

In a later response letter, ACHCSA approved the drilling location but requested that no more than 10 feet of slotted casing be used in constructing the well. This request was incorporated into our June 2006 revised work plan.

## **PROPOSED MODIFICATIONS**

Monitoring well STMW-6 was not drilled during the November 2006 field work session, but was held in abeyance until the laboratory results of the water samples from the cone penetrometer test (CPT) borings were obtained and interpreted. Those results were included in the Fourth Quarter Monitoring Report, which was completed in January 2007. Those results indicated that the impact to groundwater has been greater at CPT-2 than at CPT-3, even though the groundwater flow direction from the presumed gasoline source near STMW-1 appears to be more toward CPT-3 than toward CPT-2 (Figure 1). In order to accommodate both of these findings, as well as to avoid locating the well directly in the traffic lane to the car wash, we propose to drill STMW-6 just behind (west) of the car wash office building.

Access to potential drilling locations in the vicinity of the car wash and office is limited, so the well will be drilled with a trailer-mounted direct-push (Geoprobe) drilling rig. After the boring has reached a depth of 20 feet, the drilling rods will be replaced with hollow-stem augers to enlarge the hole to an 8-inch diameter for well construction. The well will then be constructed of 15 feet of slotted PVC schedule 40 casing and 5 feet of blank casing. The sand pack will extend from the bottom of the hole to 4 feet below the surface, and will be capped with 2 feet of bentonite pellets and sealed with cement grout. Locking caps and a Christie box will secure the well.

Soil samples will be screened for evidence of contamination, and any samples exhibiting staining or odor will be submitted for laboratory analysis. If no contamination is evident, then only the sample from the capillary fringe will be submitted for analysis. After the well has been developed, a water sample will be collected and analyzed for Total Petroleum Hydrocarbons as gasoline (EPA method 8015), BTEX and lead scavengers (EPA method 8260). This sampling event will take place during the regular second quarter groundwater monitoring event so that the results can be directly compared to those from the other monitoring wells.

Legend

- ◆ = Monitor Well
- = CPT-1 = Cone Penetrometer Boring
- = GP-1 = Geoprobe Borings
- ⊕ = Proposed Monitor Well

