



**CONESTOGA-ROVERS
& ASSOCIATES**

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Alameda County
Environmental Health

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November 28, 2007

Mr. Robert Weston
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: **Sampling and Over-Excavation Work Plan**
Shell-branded Service Station
999 San Pablo Avenue
Albany, California
SAP Code 135037
ACHCSA Case No. RO0000121

Dear Mr. Weston:

Conestoga Rovers & Associates (CRA) prepared this work plan on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to describe the proposed sampling activities to be performed during the removal and replacement of the three dispensers and the associated under dispenser containment (UDC) systems at this site, and to describe any over-excavation of impacted soil following the removal of the dispensers, if warranted. This work plan describes procedures for performing initial compliance sampling, soil over-excavation, confirmation sampling, and soil disposal. Soil sampling activities will be performed to comply with Alameda County Department of Environmental Health (ACDEH) and San Francisco Bay Regional Water Quality Control Board (RWQCB) guidelines.

The scope of work is summarized below:

- The dispensers and the associated UDC systems are scheduled to be removed and replaced.
- Soil samples will be collected from beneath each of the three dispensers and will be analyzed in accordance with ACDEH and RWQCB requirements.
- If warranted, additional soil excavation will be performed, to the extent feasible, targeting residually impacted soil; and confirmation soil samples will be collected from within any excavations(s) and will be analyzed in accordance with ACDEH and RWQCB requirements.
- If groundwater is encountered during the dispenser removal or soil over-excavation activities, a grab water sample will be collected and analyzed, if required by the ACDEH, and will be analyzed in accordance with ACDEH and RWQCB requirements.
- A report documenting field activities will be prepared and submitted to the ACDEH.

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SITE DESCRIPTION AND BACKGROUND

The subject site is located on the northeast corner of the intersection of San Pablo Avenue and Marin Avenue in Albany, California (Figure 1). The station layout includes two gasoline fuel underground storage tanks (USTs), three fuel dispensers, a station building and a car wash (Figure 2). The area surrounding the site is primarily commercial use, with an operating ARCO station located across Marin Avenue south of the site.

The site is currently under the oversight of Alameda County Health Care Services Agency as an active environmental investigation and the site's groundwater conditions are being monitored and evaluated. Gasoline constituents are present in the shallow groundwater beneath the site.

The proposed scope of work for collecting soil samples, and any necessary groundwater samples, and performing any necessary soil over-excavation is presented below.

SCOPE OF WORK

Compliance Soil Sampling

The dispenser removal contractor will assist CRA staff with collecting soil samples from beneath each of the three dispensers in accordance with ACDEH and RWQCB guidelines. Using a backhoe, a minimum of one soil sample will be collected from at least 2 feet into native soil from beneath each of the three dispensers (Figure 2). Soil samples will be collected by pushing clean stainless steel or brass sample tubes into the soil until completely filled. The tubes will be removed and both ends covered with Teflon tape and sealed with plastic end caps.

Groundwater at this site in the vicinity of the dispensers ranges between approximately 8 to 11 feet below grade (fbg). If water is encountered during soil sample activities, a grab water sample will be collected using a clean disposable bailer, if required by the ACDEH. Soil and any water samples collected will be labeled, entered onto a chain-of-custody record, and placed into a cooler with ice for transport to a State of California certified laboratory for chemical analysis.

Based on the analytical results of the above described compliance samples, visual observations, and field screening of organic vapors using a photo-ionization detector (PID), CRA will notify ACDEH with specific information and recommendations for over-excavation of areas with obvious hydrocarbon



impact, if warranted. The following describes general anticipated work tasks related to any proposed soil over-excavation and confirmation sampling activities.

Over-excavation and Confirmation Soil Sampling

Over-excavation: A CRA staff member will be present onsite to observe and document field conditions, direct the excavation contractor during soil removal, and to collect soil samples as necessary. Soils will be screened by visual observation and by a PID. Limited soil excavation will occur to the extent necessary to remove targeted impacted soils as allowed by site constraints such as the proximity of the canopy, the canopy columns, or existing nearby subsurface utilities. The amount of impacted soil to be removed from this site is not known, but if necessary it is anticipated that over-excavation activities will not exceed approximately 100 cubic yards of material.

Confirmation Sampling: Once the over-excavation activities have been completed, CRA will obtain confirmation samples from each area where additional excavation occurred. The number and location of the confirmation samples will be discussed with the ACDEH personnel prior to collection.

Soil Samples: Samples from the excavation sidewalls and bottom will be obtained from the backhoe bucket. Soil samples will be collected by pushing clean stainless steel or brass sample tubes into the soil until completely filled. The tubes will be covered on both ends with Teflon sheets and plastic end caps. Soil samples will be labeled, entered onto a chain-of-custody record and placed into a cooler with ice for transport to a State of California certified laboratory for analysis.

Groundwater: If groundwater is encountered during the over-excavation activities, CRA may request a vacuum truck for purging the tank pit water. Purged water will be transported to a Shell refinery for recycling. If water is encountered during over-excavation activities, a grab water sample will be collected using a clean disposable bailer, if required by the ACDEH. The water samples will be placed into a cooler with ice for transport to a State of California certified laboratory for analysis



Stockpiled Soil Sampling and Disposal

Excavated soil will be temporarily stored onsite and covered by plastic sheeting. Soil samples will be collected from stockpiled soils and used to profile the material for disposal at an approved landfill. One four-part composite sample will be collected for every 250 cubic yards of soil requiring disposal. The soil will not be disposed of at the landfill until the analytical data shows that it is acceptable. If necessary, a rush turnaround will be requested for the analyses of the stockpiled soil samples, in order to expedite off-hauling of the material. Any pea gravel spoils generated that are not approved for re-use by ACDEH will be characterized and disposed of along with excavated soils.

Chemical Analysis

Soil and any water samples collected will be analyzed for total petroleum hydrocarbons as gasoline by EPA Method 8015M, for benzene, toluene, ethylbenzene, xylenes, and fuel oxygenates (methyl tertiary butyl ether, tertiary butyl alcohol, tertiary amyl methyl ether, diisopropyl ether, and ethyl tertiary butyl ether) by EPA Method 8260, and for total lead by EPA Method 6010B. Soil and any water samples will be sent to a California certified laboratory for chemical analyses. Laboratory turnaround time for the samples will be determined based on discussions with Shell and ACDEH.

Report Preparation

Following the receipt of analytical results from the laboratory, CRA will prepare a written report that will include a discussion of the initial sample results following the removal of the dispensers, over-excavation activities performed, if any, and confirmation sample results. The report will include tabulated analytical results and figures showing sample locations. Further, the report will discuss the disposition of the soil and findings from these activities.

Certification

The scope of work described in this work plan will be performed under the supervision of a California professional geologist or engineer.



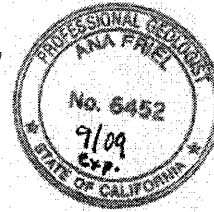
Closing

If you have any questions regarding the contents of this document, please call Dennis Baertschi at (707) 268-3813.

Sincerely,
Conestoga-Rovers & Associates

Dennis Baertschi
Project Manager

Ana Friel, PG



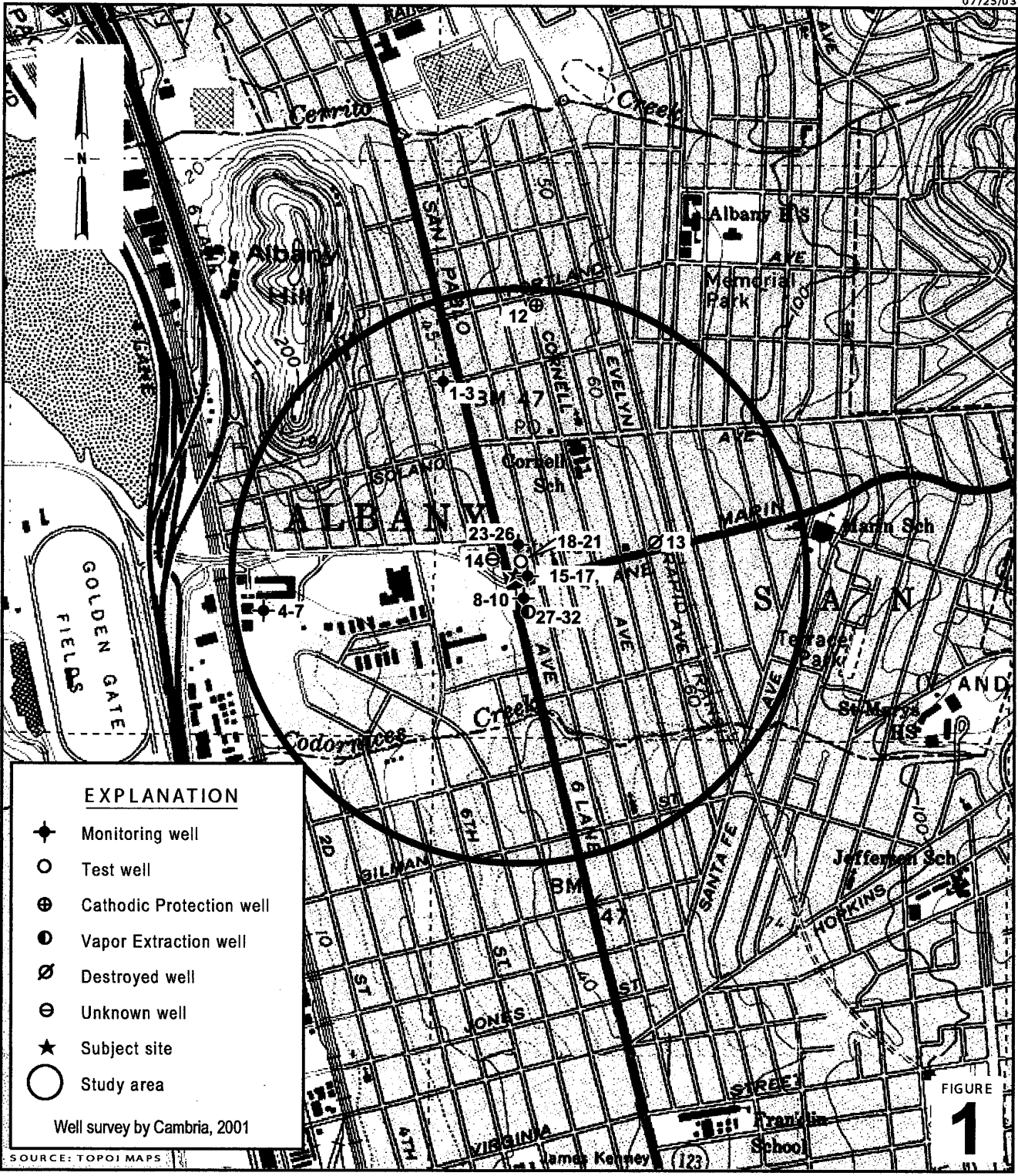
Attachments:

- Figure 1. Vicinity Map
- Figure 2. Site Plan

cc: Bill Merchant, Shell
Denis Brown, Shell
Jerry Wickham, ACHCSA
Eric Janzen, Gettler-Ryan

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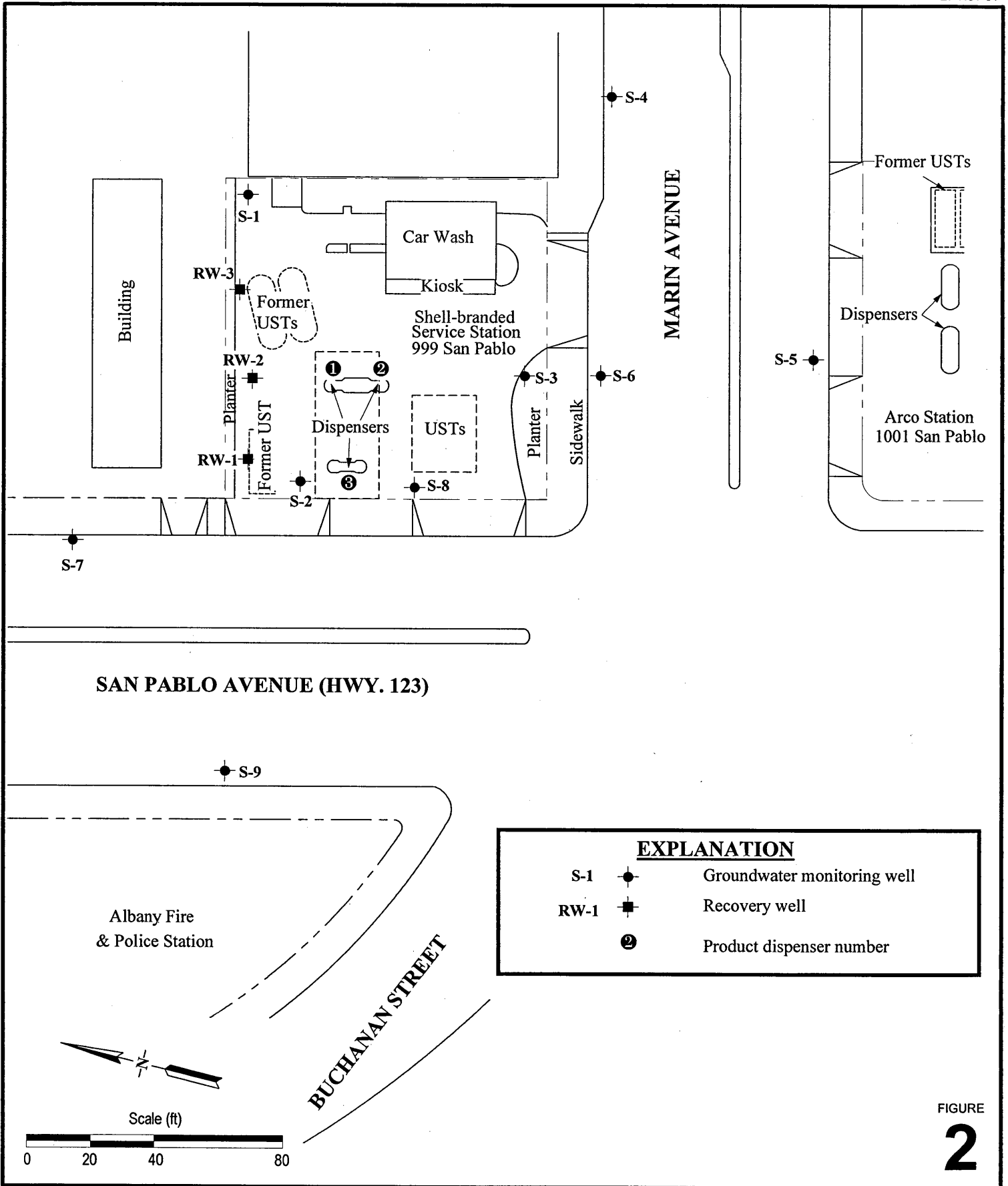


Shell-branded Service Station
 999 San Pablo Avenue
 Albany, California



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Vicinity Map
 (1/2-Mile Radius)



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FIGURE

2

Shell-branded Service Station

999 San Pablo Avenue
Albany, California



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Site Plan