



Chemist Enterprises
 333-B Camino Verde
 Boulder Creek, California 95006
 ph. (408) 338-0198

September 26, 1994

Scott O. Seery, CHMM
 Senior Hazardous Materials Specialist
 Hazardous Materials Division
 Department of Environmental Health
 Alameda County Health Care Services Agency
 80 Swan Way, Rm. 200
 Oakland, California 94621

1500
 HAZMAT
 4 OCT -5 PM 2:16

RE: GERMAN AUTOCRAFT, 301 EAST 14TH STREET, SAN LEANDRO

Dear Mr. Seery:

In reference to your letter dated September 14, 1994 to Chemist Enterprises (CE) concerning the proposed workplan for the subject site, we submit the following comments:

- 1) Figure 2 shows proposed locations of new monitor wells, based on conditions encountered during soil boring activities, new data may indicate that the exact well locations should be changed. CEs California Registered Geologist reserves the right to modify the workplan in the field based on his professional judgment.
- 2) The location of previous soil boring B-2 was field checked by CE and was found to be located as depicted on Figure 2 of the workplan.
- 3) Soil samples will be collected every five feet and at the professional discretion of CEs California Registered Geologist. CEs California Registered Geologist will select a limited number of samples for laboratory analyses based on conditions encountered in the field.
- 4) Soil samples will be collected every five feet and at the professional discretion of CEs California Registered Geologist.
- 5) The purpose of this borehole is to characterize the petroleum hydrocarbon levels remaining in the former tank pit as well as those hydrocarbons directly under the former tank pit. Affects from the previously excavated soils on the undisturbed soils beneath the former excavation are not anticipated.
- 6) Soil borings will be advanced to the first encountered groundwater zone. The borings to be abandoned will be grouted from the bottom up.
- 7) Approximately 15-feet of well screen will be used for the monitor wells. The screen will contain 0.01-inch slots and sand pack will consist of #2/12 Monterey sand. The choice of sand pack and slot size is standard for monitor wells. The well will be constructed according to the California well Standard. As-built diagrams will be provided in the report.

what would dictate need to change location?

based on what criteria?

based on what?

not really

- Hmm?
- 8) Please provide an outline of a sampling QA/QC plan so that CE can assess the necessity of this request.
 - 9) A Health and Safety plan is being prepared for this project.

Enclosed with this letter is a resume for Howard Whitney, CE's California Registered Geologist. Lastly, please present more specific information regarding employment and environmental project background of Mr. Scott Seery and Mr. Rafat A. Shahid detailing their professional background, professional licenses, and their experience in the design and management of hydrogeologic investigations. Section 145 of the Business and Professions Code, General Provisions states:

The legislature finds and declares that:

- a) *Unlicensed activity in the professions and vocations regulated by the department of Consumer Affairs is a threat to the health, welfare, and safety of people of the State of California.*
- b) *The law enforcement agencies of the state should have sufficient, effective, and responsible means available to enforce the licensing laws of the state.*
- c) *The criminal sanction for unlicensed activity should be swift, effective, appropriate, and create a strong incentive to obtain a license.*

The Water Quality Control Plan for the San Francisco Bay Basin clearly states that the UST program area shall follow the policies and procedures outlined in State Water Quality Control Board Resolution 92-49. Resolution 92-49 requires that each component of the investigation be conducted under the direction of appropriately qualified professionals and to utilize cost effective techniques for assessment of discharges. As you may be aware, the State of California may ultimately pay for the environmental compliance activities at the subject site. The investigation that the people of the state pay for should be designed and managed by experienced and licensed professionals.

In the future, all requests for changes of workplan scope should be signed and stamped by an appropriately licensed professional. The unnecessary analytical work requested by your office and the apparent desire to micro-manage investigations conducted under the direction of a California Registered Geologist by your office is a waste of time and money.

Sincerely yours,



Howard Whitney
Registered Geologist #4860

cc: Rafat A. Shahid, Assistant Agency Director
Gil Jensen, Alameda County District Attorney's Office
Mike Kakaldin, San Leandro Fire Department
Deanne B. Politeo, Kincaid, Gianunzio, Caudle, & Hubert
Seung Lee, German Autocraft

HOWARD E. WHITNEY

Experience Summary:

Mr. Whitney has over 10 years experience as a professional hydrogeologist working on a broad range of environmental, water supply and geothermal development projects, applying innovative on-site analysis to field investigations and advanced computer systems to hydrogeological problems. He has professional experience in a variety of geologic settings all over California, Arizona, Nevada, Utah, Georgia, the Carolinas, Florida, Virginia, Alabama, Mississippi, and Texas. Mr. Whitney is experienced in the design of site investigation programs, remediation feasibility testing and implementation, groundwater management programs and geothermal wells. He applies many numerical and analytical groundwater flow and contaminant transport models to aid in remedial design, complex site characterization and risk assessment. His wide range of experience includes projects covering entire groundwater basins, Superfund sites, large RCRA industrial facilities, refineries, large fuel tank farms, light industrial facilities, gasoline service stations, and family-owned dry cleaning operations. Mr. Whitney has conducted extensive research of California and Federal environmental law and regulations and has applied this knowledge to negotiating innovative and cost effective environmental compliance programs.

Education:

B.A., Geological Sciences, University of California, Santa Barbara, 1983

Registration:

Registered Geologist, California, #4860

Project Experience:

Environmental Projects

Principal Hydrogeologist: Conducted a preliminary field investigation of a former bulk fuel storage and transfer facility at the Port of Redwood City. Developed sampling program based on historic air photos of the former tank farms, delineated the distribution of free product and dissolved hydrocarbon impacts. Regulatory approval pending on RI/FS workplan designed to streamline further investigation and evaluate deed restriction based closure.

Principal Hydrogeologist: Conducted a fast-track field investigation of four sites on one city block in conjunction with a major retail redevelopment project in Mountain View, California. The sites included a printed circuit board facility, gasoline service station, and two petroleum UST sites. The field work and regulatory negotiations were conducted during the demolition phase. Timely submittal of environmental reports to RWQCB allowed for continued construction activities without delays. Negotiated unique and cost effective reuse of impacted soils in the

parking lot construction. Currently pursuing risk based groundwater no action option with RWQCB.

Principal Hydrogeologist: Serving as consulting hydrogeologist for outside environmental company. Supervision and design of field investigation programs, regulatory compliance and remediation. Sites located in Monterey and San Francisco Bay areas.

Principal Hydrogeologist: Conducting all phases of environmental compliance for multiple service stations and UST sites in northern and central California. Project work includes quarterly groundwater monitoring, site investigation, remediation feasibility testing, remediation system design and regulatory negotiations.

Senior Hydrogeologist: Managed operation and maintenance of a large-scale, boundary control groundwater pump and treatment system at an Air Force Base in southern California.

Senior Hydrogeologist: Designed, supervised and conducted numerous vacuum extraction and sparging feasibility tests at active and former UST sites in northern and central California. Pioneered use of drop-pipe technique and vapor flow profiling for optimum hydrocarbon recovery.

Senior Hydrogeologist: RI/FS Superfund project at a former pesticide formulation facility in south Georgia. Project included real-time delineation of soil, groundwater, surface water and stream sediment impacts using an on-site laboratory. Proposed no-action for groundwater impacts based on risk assessment.

Senior Hydrogeologist: Design of monitoring program, pumping and injection testing, vapor and groundwater recovery system in a water supply aquifer system at a major oil refinery in Carson, California. Project included real-time soil and groundwater investigation using cone penetrometer testing (CPT), hydro-punch sampling and soil gas survey in conjunction with an on-site laboratory. Confirmatory soil and groundwater sampling aided in the development of a three-dimensional groundwater flow and transport model used to design groundwater pumping and injection system.

Senior Hydrogeologist: Professional oversight for multiple service station sites for a major oil company in southern California. Primary responsibilities included conceptual and numerical groundwater contaminant transport modeling, design of appropriate monitoring and remediation programs and regulatory compliance negotiations.

Senior Hydrogeologist: Design of a groundwater remediation system at a fuel storage and transfer facility at the Port of Los Angeles. Project included design of a groundwater monitoring program and the development of a three-dimensional transient groundwater flow model accounting for tidal influences on three sides of the site.

Project Hydrogeologist: RCRA Facility Investigation (RFI) and Corrective Measures Study (CMS) at a large circuit board manufacturing facility in Richmond, Virginia for a major

telecommunications company. Projects involved soil gas survey, installation and sampling of 37 monitor wells, stream sampling, aquifer testing and development of a three-dimensional groundwater flow and transport model. The model was used in conjunction with the field investigations to define multiple and complex source areas and contaminant pathways as well as design of a groundwater pumping and injection system.

Project Hydrogeologist: Field investigation of a dry cleaning solvent impacted site in Jacksonville, Florida. Project included soil and groundwater investigation using on-site GC analysis and on-site contaminant modeling to complete a fast-track site characterization in a single mobilization.

Project Hydrogeologist: Site investigation and groundwater remediation system design for a Superfund site in South Carolina. The project included the installation and sampling of 24 monitor wells in three discrete aquifers, aquifer testing and two dimensional groundwater flow modeling used to design the groundwater pumping system.

Project Hydrogeologist: Predictive groundwater flow and transport modeling for an environmental impact statement required for the start-up of a nuclear reactor at the Department of Energy Savannah River Site in Aiken, South Carolina. The model included a six-layered aquifer/aquitard hydrologic system with a large fault zone. Extensive model calibration was conducted with five years of historic data using a state of the art optimization routine. Contaminant transport analysis included predictive modeling of worst-case scenario tritium spills.

Project Hydrogeologist: Evaluated numerous groundwater extraction scenarios using a two-dimensional groundwater flow and transport model at a Superfund site along the Mobile River in Alabama.

Water Supply Projects

Project Hydrogeologist: Consumptive use permit application for a city in south Florida. The project consisted of developing a regional, seven-layered aquifer/aquitard groundwater flow model. The model was used to optimize the proposed well field to minimize impacts of upconing deeper brackish water.

Project Hydrogeologist: Groundwater Basin Management Plan for the San Juan Basin in southern Orange County, California. Directed year-long stream and groundwater sampling program to provide data to develop three-dimensional groundwater flow and transport model. The model was used to identify sources of salt contamination, simulate artificial recharge options and to determine the basin safe yield.

Project Hydrogeologist: Hydrogeologic study and toxic assessment of a potential artificial recharge site in Kern County, California. Evaluated recharge facility locations and potential impacts from agricultural and oil field land uses.

Project Hydrologist: 30-year (to build-out) numerical simulation of a dam operation for flood control, water conservation and endangered species habitat impacts. Used HEC-5, USGS surface water model to simulate various scenarios at Prado Dam on the Santa Ana River, California.

Staff Hydrogeologist: Optimization of an injection well sea water intrusion barrier at the west coast Los Angeles groundwater basin. Developed a regional, eight-layered groundwater flow and transport model to simulate numerous management scenarios.

Staff Hydrogeologist: Municipal groundwater well design, construction supervision and aquifer testing at multiple sites in Anaheim, Cucamonga and Lompoc, California. Primary duties included detailed lithologic logging, analysis of geophysical logs, isolated-zone water quality testing and well screen selection.

Geothermal Projects

Wellsite Hydrogeologist: Geothermal exploration and production drilling projects. Experience includes sites located in the Geysers geothermal field in Sonoma and Lake Counties, California, Coso Hot Springs in Inyo County, California, Imperial Valley, California, Dixie Valley, Nevada, and Roosevelt Hot Springs, Utah. Primary Responsibilities included:

- Collection and analysis of all geologic and borehole data, including real-time monitoring of flowline gases (CO₂, CH₄ and H₂S), drilling fluid loss/gain, temperature and flow rate, penetration rate, drill string weight and rotary torque.
- Steam well flow testing, air quality monitoring and control.
- Site health and safety monitoring, management and training.
- Daily reporting.

Projects located in a variety of geologic settings, including:

- Hydrothermally altered volcanic, sedimentary, plutonic and metamorphic rock.
- Production zones of fractured rock, porous media and dissolution cavities.
- Thermal fluid production of dry steam, boiling water and steam and thermal brines.
- Production depths ranged from 2,500 to 10,000 feet below ground.