



ENVIRONMENTAL  
PROTECTION  
CITY OF OAKLAND  
98 JUL 15 AM 8:50



DALZIEL BUILDING • 250 FRANK H. OGAWA PLAZA, SUITE 5301 • OAKLAND, CALIFORNIA 94612

Public Works Agency  
Environmental Services

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July 9, 1998

**Mr. Barney Chan**  
**Alameda County Environmental Health Services**  
**1131 Harbor Bay Parkway**  
**Alameda, California 94502-6577**

**Subject: Fuel Distribution System Piping Removal Workplan, City of Oakland  
Municipal Service Center (94407)**

Dear Mr. Chan:

This letter presents a workplan for the removal of an underground fuel distribution piping system at the City of Oakland's Municipal Service Center (MSC), 7101 Edgewater Drive, Oakland, California.

As shown on the attached site plan, the fuel distribution piping system is located primarily in the northern and western portions of the site. The system consists of two, 2-inch diameter pipes, one each for unleaded gasoline and for diesel fuel, running parallel for approximately 2100 linear feet. There are also 26 risers as shown on detail Section B of the drawing and possibly the underground remnants of a fueling dispenser island. The underground storage tanks (USTs) that supplied the distribution system were located north of the MSC Storage Shed (Building 6) and were removed in June 1997.

The piping system will be removed and disposed of in accordance with the requirements set forth in the California Code of Regulations, Title 23, Chapter 16, Article 7, Section 2672. The City has selected Turn-Key Construction, Inc., Oakland, California, a licensed hazardous waste contractor to excavate, remove, and dispose of the piping system and its components. Field work is scheduled to begin August 3, 1998.

## **SCOPE OF WORK**

### **Preliminary Activities**

- Submit this Piping Removal Workplan to Alameda County Environmental Health Services (ACEHS) for approval;
- Notify ACEHS at least two days prior to commencing field activities;
- Schedule field personnel and analytical laboratory;

- Coordinate field work with site personnel to minimize disruption of on-going operations. Pipeline removal will be performed in three stages to accommodate relocation of vehicles.

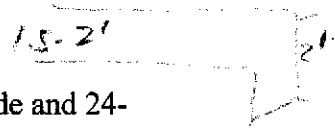
Field Activities

Mobilization

Mobilize and stage equipment, delineate pipeline and underground utilities.

Excavation

The fuel system piping is contained within an approximately 18- to 24-inch wide and 24-inch deep trench. Soil will be removed from this envelope and screened in the field for gross contamination by visual inspection and by sheen testing. If the excavated soil is determined to be free of gross contamination, the soil will be stockpiled and used to backfill the trench. If gross contamination is observed, the soil will be segregated and stockpiled for waste characterization testing prior to offsite disposal at an appropriate facility. If necessary, excavation of grossly contaminated soil will continue laterally until field inspection indicates the limit of the contamination has been reached. Vertical excavation of grossly contaminated soil will continue until groundwater is encountered (approximately 6 feet below ground surface). Because of potential impact to site operations and budgetary constraints, the maximum volume of excavated soil for offsite disposal will be limited. The maximum extent of excavation will be decided in the field, as work progresses, on the basis of professional judgement and in consultation with ACEHS personnel. The excavations will be backfilled with imported clean soil, as needed, compacted, and finished per the construction specifications. The excavations will not be lined with polyethylene as indicated on the site drawing.



do not agree with.

Must site @ gas area

could use  
Tied TPH draft  
are  
Soil (SEP 2)  
only 26-1464  
d 267

Piping and Appurtenances Removal

All fuel piping, riser pipes, valves, dispenser systems, caps, and boxes will be removed and hauled offsite for proper disposal under hazardous waste and Department of Transportation (DOT) manifests as appropriate.

2' below piping  
except if overexc occurs  
5' x 2' = 10  
2' x 2' = 4

Soil Sampling

Soil samples will be collected from the bottom of the excavation at 40-foot intervals by pushing a stainless steel or brass sampling tube into the soil. The tube will be capped, labeled, and immediately chilled to 4° C (organic analyses only) for delivery to an EPA Region 9 or California state-certified analytical laboratory under chain-of-custody documentation. At times, samples may be collected from the backhoe bucket or using a hand trowel and transferred to wide-mouth glass jars. Soil samples will be analyzed for total petroleum hydrocarbons as gasoline (TPHg) by EPA Method 8015M, total petroleum hydrocarbons as diesel (TPHd) by EPA Method 3630M with silica gel cleanup, benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8020. If detected using EPA Method 8020, MTBE concentrations will be confirmed using EPA Method 8260M. A split sample will be collected and analyzed for total lead using EPA Method 6010 or 7000 series.

(20' intervals + 2pt comp)

Groundwater Sampling

Grab groundwater samples will be collected at selected locations within areas of the excavation that are deep enough to encounter the shallow groundwater. It is likely that these deeper areas will be where over-excavation is necessary to remove contaminated soil. The samples will be immediately chilled to 4° C (organic analyses only) for delivery to an EPA Region 9 or California state-certified analytical laboratory under chain-of-custody documentation. Groundwater samples will be analyzed for TPH(g) by EPA Method 8015M, TPH(d) by EPA Method 3630M with silica gel cleanup, BTEX and MTBE by EPA Method 8020. If detected using EPA Method 8020, MTBE concentrations will be confirmed using EPA Method 8260M. Groundwater samples will also be analyzed for soluble lead using EPA Method 6010 or 7000 series.

*specify num  
# of GW sp.*

Reporting

The City will submit a report to the ACDEH that describes all activities associated with the pipeline removal. The report will include field observations, tabulated results of all laboratory analyses, graphic presentation of data, as appropriate, copies of laboratory reports, and chain-of-custody documents.

Please call me at 238-7695, or Andrew Clark-Clough at 238-6361, if you have any questions or require additional information.

Yours very truly,



*9/7/98*

Mark B. Hersh  
Environmental Program Specialist

Attachments: Figure 1. Site Plan

cc: Andrew Clark-Clough, PWA/Environmental Services  
Jeff Krohn, PWA/Municipal Buildings  
David Elias, Cambria Environmental Technology